

QA4EO Daily Report for GOP data:

<u>27/03/2023</u>

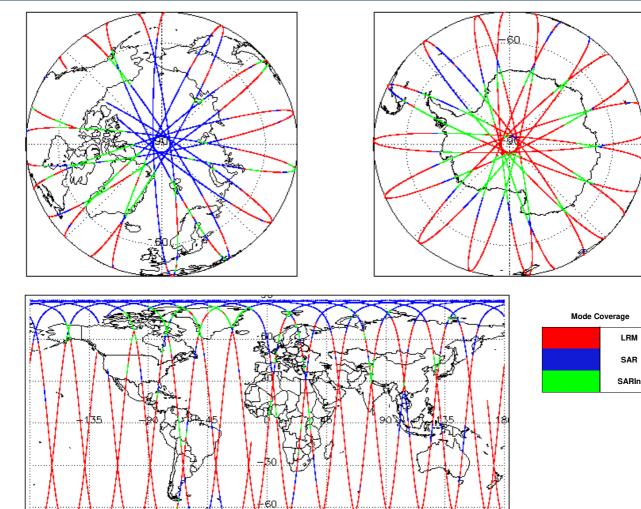
IDEAS-QA4E0

an aut Draduation.	00 4== 2000	Check	L1 & L2	P2P
Report Production:	26-Apr-2023	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
		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 Oseu:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
We would	love to hear from you!	Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
	your feedback about these daily	Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.2	See Section 7.2

1. Overview

	Mission / Instrument News		
26-Mar-2023		None	
27-Mar-2023		None	
	28-Mar-2023	Nothing planned	





3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.					
L1B Processing Quality HR: The l1b_proc_flag_hr flag is currently set all L1B G					
OSARIn chains. A modification is required in the next release.	p				
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-du	etermined baseline and also to check the	validity of Auxiliary Data Files is correct.			
Number of products with errors: 0					
4.4 L1B Auxiliary Correction Error Check					
	The later of this flow indicates any mus				
CryoSat L1B data includes a correction error flag for each measurement record. T Number of products with errors: 0	rie bit value of this hag indicates any pro-	Jierns when set.			
4.5 L1B Measurement Confidence Data Check					
CryoSat L1B data includes a measurement confidence flag for each measuremen	t record. The bit value of this flag indicate	s any problems when set.			
Attitude Correction Missing: This flag is currently set in error for GOPR product	s due to a configuration issue. This is bei	ng investigated and will be updated in the next SW update.			
Number of products with errors: 2					
Product	Test Failed	Description			
CS_OFFL_SIR_GOPM1B_20230327T020741_20230327T022335_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records			
CS_OFFL_SIR_GOPM1B_20230327T132154_20230327T132829_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more			
		records			
4.6 L1B Waveform Group Data Check					
CryoSat L1B data includes a waveform data flag for each measurement record. T	he bit value of this flag indicates any prob	lems when set.			
Loss of Echo Flag: This flag is currently set for some products over land, but this	s is to be expected.				
Number of products with errors: 22					
Product	Test Failed	Description			
CS_OFFL_SIR_GOPM1B_20230327T093556_20230327T101054_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T011301_20230327T011700_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T020614_20230327T020741_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T023535_20230327T023846_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T032953_20230327T033028_C001 CS_OFFL_SIR_GOPN1B_20230327T043116_20230327T043335_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			
CS_OFFL_SIR_GOPN1B_20230327T070219_20230327T070504_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T092118_20230327T092202_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T123945_20230327T124210_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T141658_20230327T142121_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T142207_20230327T142323_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T155751_20230327T160217_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230327T205336_20230327T205456_C001 CS_OFFL_SIR_GOPN1B_20230327T224350_20230327T224452_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
US_UFFL_SIN_UUFINIB_202303271224530_202303271224432_0001	Loss of Echo	The tracking echo is missing for one of more records			
5. GOP Level 2 Data Quality Check					
5.1 L2 Product Format Check					
	ure it consists of both on VML booder file				
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).					
Number of products with errors: 0					
5.2 L2 Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.					
Number of products with errors: 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 that are expected, due to surface type. All common flags are summarised in the list below.					
Currently, there are some common auxiliary correction errors raised in the Level 2 products that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test.					
> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.					
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.					
> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.					
Number of products with errors: 56					
Product	Test Failed	Description			

Corr, Bit, Corr, 2 approx Triang approximation of the second approximatic data proximation of the second approximation	CS_OFFL_SIR_GOPM_2_20230327T060156_20230327T060215_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Open-Projection Open-Projection Open-Projection Open-Projection Open-Projection C6 OFEL_SR_GON_2_20202710201_2020027102010_0000 OPEN_SR_GON_2_20202710101_202002710100_0001 Open-Projection The same arread the MCS high (control in the MCD Projection (Control in the MCD Projectin (Control in the MCD Projection (Control in the MCD Pro	CS_OFFL_SIR_GOPM_2_20230327T211300_20230327T211352_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Control Experiment Experiment Experiment Experiment Call_OFFL_SRL_00PL_2.0003027701550_3023027701570_200 Mean Cyanamic Tecorgany (1) The is at any other technology and the tet	CS_OFFL_SIR_GOPN_2_20230327T001633_20230327T001936_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CB_OPFL_SR_QOPK_2_S0200271011501_2020027110501_00000 Common	CS_OFFL_SIR_GOPN_2_20230327T002201_20230327T002716_C001	Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Control Topograph (p) Topograph (p) Topograph (p) Topograph (p) C6_0FR_SR_00PI_2_0000007100500_0000007105042_0000 Mean Sea Schaler (), Mean Dynamic Topograph (p) T	CS_OFFL_SIR_GOPN_2_20230327T011301_20230327T011700_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_CFFL_SIR_GOPU_2_0202027102500_2020227102504_0001 Topography (1) Table Bookenic Cover Table Size (1) table Download Cover Table Size (1) table S	CS_OFFL_SIR_GOPN_2_20230327T015639_20230327T015914_C001	Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Construction Topography (1) Topography (1) Topography (1) Topography (1) C3 OPFL_SIR_GOPN_2_20230277104315 Construction Man Sea Sufface (1), Mean Dynamic Topography (1) There is an error with the MSS hough (solution 1) and the Mean Dynamic C3_OPFL_SIR_GOPN_2_20230277104314 Construction Man Sea Sufface (1), Mean Dynamic Topography (1) Topography (1) C3_OPFL_SIR_GOPN_2_20230277104314 Construction Man Sea Sufface (1), Mean Dynamic Topography (1) Topography (1) C3_OPFL_SIR_GOPN_2_20230277104308_200230277104314 Construction Man Sea Sufface (1), Mean Dynamic Topography (1) There is an error with the MSS hough (solution 1) and the Mean Dynamic C3_OPFL_SIR_GOPN_2_20230277104308_20230277104308_20230277104308_201201 Man Dynamic Topography (1) There is an error with the MSS hough (solution 1) for one more eccess C3_OPFL_SIR_GOPN_2_20230277104308_20230277104308_201201 Man Dynamic Topography (1) There is an error with the MSS hough (solution 1) for one more eccess C3_OPFL_SIR_GOPN_2_20230277104308_20230277104308_20230277104308_201201 Mean Sea Sufface (1), Mean Dynamic Topography (1) C3_OPFL_SIR_GOPN_2_20230277104308_20230277104308_201201 Mean Sea Sufface (1), Mean Dynamic Topography Meant Solution 1) for one ore eccods	CS_OFFL_SIR_GOPN_2_20230327T025503_20230327T025742_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean
Mail Topography (1) Topography (1) Topography (1) Topography (1) CS_OFFL_SIR_GOPN_2_8020027T05154_0001 Mean Ses Surface (1), Mean Dynamic Topography (1) There is an enrow with the MSS height (obtion 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_80200227T061545_0001 Mean Ses Surface (1), Mean Dynamic Topography (1) There is an enrow with the MSS height (obtion 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_80200227T082542_02200227T082543_0001 Mean Ses Surface (1), Mean Dynamic Topography (1) There is an enrow with the MSS height (obtion 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_80200227T082540_02200327T082540_0001 Mean Dynamic Topography (1) There is an enrow with the MSS height (obtion 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_80200327T082540_0200327T082540_0001 Mean Dynamic Topography (1) There is an enrow with the MSS height (obtion 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_80200327T10030_80203027T110456_0001 Mean Ses Surface (1), Mean Dynamic Topography (1) There is an enrow with the MSS height (obtion 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_80200327T110400_02030327T110456_0001 Mean Ses Surface (1), Mean Dynamic Topography (1) There is an enrow with the MSS height (obtion 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_8020327T10203_8020327T110456_0001 Mean Ses Surface (1), Mean Dynamic Topog	CS_OFFL_SIR_GOPN_2_20230327T033140_20230327T033744_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Display Comparison Topography (1) Topography (2) CS_OFFL_SIR_COPN_2_2022027T02156_0200227T070156_C001 Mean Ses Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (colution 1) or one or more records CS_OFFL_SIR_COPN_2_20220027T001256_0200327T10150_C001 Mean Dynamic Topography (1) There is an error with the MSan Dynamic Topography (1) CS_OFFL_SIR_COPN_2_20220027T101050_02003_27T10150_C001 Mean Dynamic Topography (1) There is an error with the MSan Dynamic Topography (1) There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_COPN_2_20220027T110050_02003_27T10150_C001 Mean Dynamic Topography (1) There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_COPN_2_20220027T120059_0220327T120150_C001 Mean Dynamic Topography (1) There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1), Total Genoentice Coean Tide (COEN), There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1), Total Genoentice Coean Tide (COEN), There is an error with the MSS height (colution 1) and the Mean Dynamic Topograph	CS_OFFL_SIR_GOPN_2_20230327T043116_20230327T043335_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Concernence Concernence Concernence Concernence CS OFFL_SIR_GOPN_2_2023027108324_0230327108324_0230327108324_0230327108324_0230327108324_0230327108324_0230327108248_0201 Mean Ses Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) or one or more records CS_OFFL_SIR_GOPN_2_20230327108250_0230327108248_0201 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) or one or more records CS_OFFL_SIR_GOPN_2_20230327108250_0230327108248_0201 Mean Ses 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_20230327110303_02230327110193_02030271110430_0001 Mean Ses 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_20230327112039_022303271120150_0001 Mean Ses 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_202303271124210_0001 Mean Ses Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Tradit Secontric Ocean Tide (1), Mean Dynamic Topography (1), Tradit Secontric Ocean Tide (1), Mean Dynamic Topography (1), Tradit Secontric Ocean Tide (1), Mean Dynamic Topography (1), Tradit Secontric Ocean Tide (1), Mean Dynamic Topography (1), Tradit Secontric Ocean Tide (solution 1), and the Mean Dynamic Topography	CS_OFFL_SIR_GOPN_2_20230327T051359_20230327T051545_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CPFP_SIR_GOPN_2_2023027T091268_20230227T091268_20230227T091364_2001 Mean Dynamic Topography (1) Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for on or more records CS_OFFL_SIR_GOPN_2_20230227T091258_20230227T091364_2001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for on or more records CS_OFFL_SIR_GOPN_2_20230227T101303_20230327T101619_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_20230327T110103_20230327T110159_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_20230327T120039_20230327T120159_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) on or more records CS_OFFL_SIR_GOPN_2_20230327T120459_20230327T124210_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), in or the Mean Dynamic Topography (1), Total Geocentric Coean Total Sealance (1), Mean Dynamic Topography (1), Total Geocentric Coean Total Sealance (1), Mean Dynamic Topography (1), Total Geocentric Coean Total Sealance (1), Mean Dynamic Topography (1), Total Geocentric Coean Total Sealance (1), Mean Dynamic Topography (1), Total Geocentric Coean Total Sealance (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) ond the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20230327	CS_OFFL_SIR_GOPN_2_20230327T070219_20230327T070504_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFF_SIR_GOPN_2_202303271092350_202303271092438_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_202303271101303_20230327110140_001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202303271101400_202303271101405_0001 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_202303271120345_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Total Cecemite Covers Tele (solution 1), and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20230327114251_20200327114212_0001 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_20230327114251_20230327114212_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the	CS_OFFL_SIR_GOPN_2_20230327T083324_20230327T083713_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T1012430_C001 Internet primiter (pripripring (1)) or more records CS_OFFL_SIR_GOPN_2_20230327T101030_20230327T101048_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_20230327T110400_20230327T110436_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_20230327T12039_20230327T120150_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_20230327T120495_20230327T124210_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20230327T124251_20230327T124212_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocemic Coern Tede (COT), Total Geocemic Ocean Tede (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20230327T1424251_20230327T142422_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocemic Ocean Tede (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20230327T1424251_20230327T142422_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocemic Ocean Tede (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20230327T1424251_20230327T142423_C001 Mean Sea Surface (1),	CS_OFFL_SIR_GOPN_2_20230327T091236_20230327T091344_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
OS OFFL_SIR_GOPN_2_20230327110400_20230327110406_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202303271120039_2023032771120150_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_2023032771120150_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_2023032771124251_2023032771124212_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_2023032771124251_2023032771124212_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_GOPN_2_2023032771142207_2023032771142323_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_GOPN_2_2023032771142207_2023032771142323_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_2023032771142327_C001	CS_OFFL_SIR_GOPN_2_20230327T092350_20230327T092438_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CB_OPEL_SIR_GOPN_2_202303271120039_20230327T120150_C001 Topography (1) Topography (1) Topography (1) CS_OFFL_SIR_GOPN_2_20230327T120039_20230327T120150_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_20230327T124210_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), the Mean Dynamic Topography feight (solution 1), the Total Geocentric Ocean Tide (Solution 1), the Mean Dynamic Topography feight (solution 1) and the Mean Dynamic Topography (f) (Solution 1) and the Mean Dynamic Topography (f), the Geocentric Ocean Tide (SOIT), Total Geoce	CS_OFFL_SIR_GOPN_2_20230327T101303_20230327T101619_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T1203945_20230327T124210_0001 Intelline Tribulgrupy (1) or more records GS_OFFL_SIR_GOPN_2_20230327T124251_20230327T124210_0001 Maan Saa Surface (1), Mean Dynamic Topography (b), Total Geocentric Ocean Tate (GOT), Total Geocentric Ocean Tate (GOT) Tate (GOT) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (I) CS_OFFL_SIR_GOPN_2_20230327T151614_20230327T15150_C001 Mean Sea Surface (I), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography Height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T160217_20230327T160217_0001 Mean Sea Surface (I), Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography Height (solution 1) or one or more records	CS_OFFL_SIR_GOPN_2_20230327T110400_20230327T110436_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T123945_20230327T124210_C001 There is all end with the MSS height (solution 1), the total Geoemic Decam Tide (FES), Non-Equilibrium Long Period Decam Tide (SC), Total Geoemic Decam Tide (FES), Non-Equilibrium Long Period Decam Tide (SC), Total Geoemic Decam Tide (SC), Disporaphy (1), Total Geoemic Decam Tide (SC), Disporaphy (1), Total Geoemic Decam Tide (SC), SC, Disporaphy C), Total Geoemic Decam Tide (SC), Disporaphy (1), Total Geoemic Decam Tide (SC), SC, Disporaphy Tital (Sc), Total Geoemic Decam Tide (SC), SC, Disporaphy Hight (Sc), SC, Disporaphy (1), Total Geoemic Decam Tide (SC), SC, Disporaphy Hight (Sc), SC, Disporaphy (1), Total Geoemic Decam Tide (SC), SC, Disporaphy Hight (Sc), SC, Disporaphy Hight (Sc), SC, Disporaphy (1), Total Geoemic Decam Tide (SC), SC	CS_OFFL_SIR_GOPN_2_20230327T120039_20230327T120150_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_20230327T142451_20230327T142121_C001 Topography (1) Topography (1) CS_OFFL_SIR_GOPN_2_20230327T141658_20230327T142121_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GC), 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_20230327T1561614_20230327T160217_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GC) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GC) CS_OFFL_SIR_GOPN_2_20230327T160217_20230327T160219_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Mean Dynamic CS_OFFL_SIR_GOPN_2_20230327T165527_20230327T16555_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T173650_20230327T173650_20230327T174041_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution	CS_OFFL_SIR_GOPN_2_20230327T123945_20230327T124210_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean
CS_OFFL_SIR_GOPN_2_20230327T141658_20230327T142121_C001 Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FS), Non- Equilibrium Long Period Ocean Tide Interest an error with the Mass Neight (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20230327T151614_20230327T151850_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_20230327T155751_20230327T160217_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_20230327T160217_20230327T160217_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_20230327T160217_20230327T160219_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_20230327T165527_20230327T165555_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_20230327T165527_20230327T165855_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T165652_20230327T165456_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for on	CS_OFFL_SIR_GOPN_2_20230327T124251_20230327T124412_C001	Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T151614_20230327T151850_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T151614_20230327T151850_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_20230327T155751_20230327T160217_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20230327T160217_20230327T160219_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_20230327T165527_20230327T165855_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T165527_20230327T165855_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T173650_20230327T174041_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_20230327T183815_C001 <td>CS_OFFL_SIR_GOPN_2_20230327T141658_20230327T142121_C001</td> <td>Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-</td> <td>There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records</td>	CS_OFFL_SIR_GOPN_2_20230327T141658_20230327T142121_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20230327T151614_20230327T151850_C001 Topography (1) Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T155751_20230327T160217_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 There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records CS_OFFL_SIR_GOPN_2_20230327T160217_20230327T160219_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_GOPN_2_20230327T165557_20230327T165555_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T1655527_20230327T165655_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T173650_20230327T165855_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T173650_20230327T174041_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20230327T183635_20230327T183815_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the	CS_OFFL_SIR_GOPN_2_20230327T142207_20230327T142323_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T155751_20230327T160217_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_20230327T160217_20230327T160219_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T165527_20230327T165555_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T173650_20230327T174041_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T183635_20230327T183815_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_20230327T183635_20230327T183815_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_20230327T183635_20230327T183815_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean CS_OFFL_SIR_GOPN_2_20230327T205356_20230327T205456_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_OFF	CS_OFFL_SIR_GOPN_2_20230327T151614_20230327T151850_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T165257_20230327T165855_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T165855_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_20230327T173650_20230327T174041_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_20230327T183635_20230327T183815_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_20230327T183635_20230327T183815_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_20230327T205336_20230327T205456_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20230327T155751_20230327T160217_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
CS_OFFL_SIR_GOPN_2_20230327T173650_20230327T174041_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T173650_20230327T173650_20230327T174041_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T183635_20230327T183815_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_20230327T183635_20230327T183815_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_20230327T205336_20230327T205456_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20230327T160217_20230327T160219_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T183635_20230327T183815_C001 Mean Dynamic Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230327T183635_20230327T183815_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_20230327T205336_20230327T205456_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records CS_OFFL_SIR_GOPN_2_20230327T214544_20230327T214708_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records	CS_OFFL_SIR_GOPN_2_20230327T165527_20230327T165855_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T205336_20230327T205456_C001 Mean Dynamic Topography (1) or more records CS_OFFL_SIR_GOPN_2_20230327T205336_20230327T205456_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_20230327T214544_20230327T214546_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1: GOT) for one or more records	CS_OFFL_SIR_GOPN_2_20230327T173650_20230327T174041_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T205336_20230327T205456_C001 Topography (1), Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records CS_OFFL_SIR_GOPN_2_20230327T214544_20230327T214708_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records Topography (1) Topography (1) Topography (1) Topography (1) Topography height (solution 1) and the Total Geocentric Ocean Tide theight (solution 1: GOT) for one or more records Topography (1) Topography (1) Topography (1) Topography (1) Topography height (solution 1) and the Total Geocentric Ocean Tide theight (solution 1: GOT) for one or more records Topography (1) Topography (1) Topography (1) Topography (1) Topography height (solution 1) and the Total Geocentric Ocean Tide theight (solution 1: GOT) for one or more records Topography (1) Topography (1) Topography (1) Topography (1) Topography height (solution 1) and the Total Geocentric Ocean Tide theight (solution 1: GOT) for one or more records Topography (1) Top	CS_OFFL_SIR_GOPN_2_20230327T183635_20230327T183815_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_20230327T205336_20230327T205456_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
of Hote Toolus	CS_OFFL_SIR_GOPN_2_20230327T214544_20230327T214708_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_20230327T215234_20230327T215546_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_20230327T215234_20230327T215546_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230327T232519_20230327T232634_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for on or more records	CS_OFFL_SIR_GOPN_2_20230327T232519_20230327T232634_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_20230327T233132_20230327T233454_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_20230327T233132_20230327T233454_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOPR_2_20230327T010533_20230327T010650_C001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOPR_2_20230327T010716_20230327T011146_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_20230327T011146_20230327T011301_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_20230327T024519_20230327T025020_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_20230327T025020_20230327T025150_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_20230327T042510_20230327T043116_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_20230327T060216_20230327T060233_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_20230327T060637_20230327T061046_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_20230327T074051_20230327T075129_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_20230327T091344_20230327T091430_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_20230327T092438_20230327T093226_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_20230327T110436_20230327T111514_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_20230327T124412_20230327T125109_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_20230327T142323_20230327T142844_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_20230327T151850_20230327T152100_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_20230327T160219_20230327T160921_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_20230327T174041_20230327T174547_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_20230327T191734_20230327T192625_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_20230327T205657_20230327T205856_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_20230327T205856_20230327T210640_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_20230327T210806_20230327T211012_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_20230327T211352_20230327T211539_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_20230327T223209_20230327T224223_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230327T020741_20230327T022334_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20230327T132154_20230327T132829_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

2

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

82

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230326T235352_20230327T001518_C001		The Ocean Altimeter Range, SSHA, SWH 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_20230327T002846_20230327T005916_C001		The Ocean Altimeter Range, SSHA, SWH 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_20230327T011748_20230327T013702_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_20230327T013714_20230327T014957_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_20230327T015914_20230327T020110_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_20230327T020741_20230327T022334_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_20230327T022538_20230327T023535_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_20230327T025306_20230327T025503_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_20230327T025756_20230327T025944_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_20230327T030218_20230327T031416_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_20230327T033744_20230327T034032_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_20230327T034046_20230327T034515_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_20230327T034702_20230327T040203_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_20230327T040342_20230327T040502_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_20230327T041716_20230327T041813_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_20230327T044906_20230327T051326_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_20230327T051545_20230327T052421_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_20230327T052626_20230327T055201_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_20230327T062423_20230327T065233_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_20230327T065513_20230327T065641_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_20230327T065800_20230327T070218_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_20230327T070519_20230327T073541_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_20230327T075850_20230327T083141_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_20230327T083713_20230327T084259_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_20230327T084417_20230327T085041_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_20230327T090517_20230327T091057_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_20230327T093556_20230327T101054_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_20230327T101619_20230327T102131_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CC, DHL, SHL, SOPH, Z., SKOSZETTI, INFL, SKOSZETTI,	CS_OFFL_SIR_GOPM_2_20230327T102311_20230327T104240_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
G DPL_SIM_GOV_2_002027114824_020027114824_000 ord Backatter Cally Figs Decade Laboration Cally Figs Decade Laborati	CS_OFFL_SIR_GOPM_2_20230327T111514_20230327T114313_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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C5 OFFL SIR 00PM 2 2020327112305 2020327112305 2020 and Backacater Quality, COCO Attivuter Review Resits, SSIA, SWI and Backacater Quality, COCO Attivuter Review Resits, SSIA, SWI attivuter Review Resits, SSIA, SWI attivuter Resits, SSIA, SWI Attivuter Review Resits, SSIA, SWI attivuter Resits, SSIA, SWI Attivuter Review Resits, SSIA, SWI Attivuter Review Resits,	CS_OFFL_SIR_GOPM_2_20230327T123136_20230327T123818_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
05_0FFL_SIR_0OPM_2_20203327113204_2020327114204_2020327115204_20203227115204_2020327115204_2020327115204_2020327115204_	CS_OFFL_SIR_GOPM_2_20230327T123818_20230327T123903_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CE_OFFL_SIR_GOPM_2_0220027113216_2020027113216_2020027113282_0001 and Rescenter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been at the COOG Altimeter Plags and Blackscatter Outly Plags have been a	CS_OFFL_SIR_GOPM_2_20230327T125644_20230327T131105_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Obj. DHPL_SHPL_SHPL_SHPL_SHPL_SUBJECT 103802/113803_C001 Backscatter Cuality Tor origin or more records C5_0FFL_SIR_00PM_2_20230271130825_0011 Coean Athmeter Range, SSHA, SWH and Backscatter Cuality The OCOBA Athmeter Range and Backscatter Cuality Flags have been affer one or more records C5_0FFL_SIR_00PM_2_2023027114059_20230271141590_0011 Coean Athmeter Range and Backscatter Cuality Flags have been affer one or more records The OCOBA Athmeter Range and Backscatter Cuality Flags have been affer one or more records C5_0FFL_SIR_00PM_2_202302271141590_20230271141590_0011 Coean Athmeter Range and Backscatter Cuality Flags have been affer one or more records The OCOBA Athmeter Range and Backscatter Cuality Flags have been affer one or more records C6_0FFL_SIR_00PM_2_202202271141590_20230271141590_002302271141595_0011 Coean Athmeter Range and Backscatter Cuality Flags have been set for one or more records C6_0FFL_SIR_00PM_2_20230227114391_20230227114391_20230227114391_0001 Coean Athmeter Range and Backscatter Cuality Flags have been set for one or more records C6_0FFL_SIR_00PM_2_20230227114391_20230227114391_0001 Coean Athmeter Range and Backscatter Cuality Range Backscatter Cuality and Backscatter Cuality and Backscatter Cuality Range Backs	CS_OFFL_SIR_GOPM_2_20230327T132154_20230327T132829_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIR_GOPM_2_0220327T14027_0220327T14253_0001 and Backscatter Quality, COCG Aminter Range, SSH, SWH and the COCG Alimeter Range, SSH, SWH and Backscatter Quality Flags have been Alimeter Range and Backscatter Quality. The Ocean Alimeter Range, SSH, SWH and Backscatter Quality Flags have been alimeter Range and Backscatter Quality. CS_OFFL_SIR_GOPM_2_0220327T140305_0230327T141550_0001 Decan Alimeter Range, SSH, SWH and Backscatter Quality. The Ocean Alimeter Range, SSH, SWH and Backscatter Quality. CS_OFFL_SIR_GOPM_2_02203227T14350_00230327T141550_0001 Decan Alimeter Range, SSH, SWH and Backscatter Quality. The Ocean Alimeter Range and Backscatter Quality. CS_OFFL_SIR_GOPM_2_02203227T14350_0023027T144500_0001 Decan Alimeter Range Quality, OCCG Alimeter Range Quality, OCCG The OCCG Alimeter Range and Backscatter Quality. T	CS_OFFL_SIR_GOPM_2_20230327T132956_20230327T133520_C001		
CB_OFFL_SIR_GOPM_2_20230327T140011_20230327T14159_CO01 and the COOR Altmeter Range and Backscatter Quality Flags have been Affanter Range and Backscatter Quality Flags have been and the COOR Altmeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T14150_20230327T141508_0001 Corean Affanter Range Chally, COOR Altmeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T14304_20230327T144005_CO01 COCCA Affanteter Range Chally, COCR Bit Core or more records CS_OFFL_SIR_GOPM_2_20230327T14304_20230327T144051_CO01 COCCA Affanteter Range Chally, COCR Bit Core or more records CS_OFFL_SIR_GOPM_2_20230327T14304_20230327T144051_CO01 Cocka Affanteter Range Chally, COCR Bit Core or more records CS_OFFL_SIR_GOPM_2_20230327T14304_20230327T144051_CO01 Cocka Affanteter Range Chally, COCR Affanteter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T14304_20230327T16078_CO01 Cocka Affanteter Range Chally, COCR Affanteter Range Chally, COCR Affanteter Range Chally, COCR Affanteter Range Chally, COCR Affanteter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T16502_00230327T151078_CO01 Cocka Affanteter Range Chally, COCR Affanteter Range Chally, COCR Affanteter Range Chally, COCR Affanteter Range Chally, Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T151092_00230327T151014_CO01 Cocka Affanteter Range Chally, COCR Affanteter Range and Backscatter Quality, Flags have been se	CS_OFFL_SIR_GOPM_2_20230327T134627_20230327T135853_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS, OFFL_SIR_GOPM_2_202303271141500_202303271141688_C001 and Backscatter Quality_COGG and the adscatter Quality_COGG and the adscatter Quality_COGG CS_OFFL_SIR_GOPM_2_202303271143049_202303271143055_C001 OCOG Altimeter Range Quality_COGG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_202303271143049_202303271143040_C001 OCOG Altimeter Range Quality_COGG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_202303271143049_20230327114361_C001 OCOG Altimeter Range, SSIA, SWI and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327114301_202303271140501_202303271150738_C001 Ocean Altimeter Range, SSIA, SWI and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327115031_20230327115119_C001 OCOG Altimeter Range, SSIA, SWI and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_202303271150324_202303271151419_C001 OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_202303271152032_2033271151419_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327115203_20230327115201_C001 OCOG Altimeter Range SSIA, SWI and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Qu	CS_OFFL_SIR_GOPM_2_20230327T140011_20230327T141259_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dis_PFE_SIR_GOPM_2_20230327114309_20030271143430_C001 Backscatter Quality Ino one or more neords CS_OFFL_SIR_GOPM_2_20230327114344_202303271143430_C001 CCGO Altimeter Range Quality, CCGO The OCCGO Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_202303271143842_02303271144951_C001 CCG an Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCGO Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327114391_20230327115078_C001 COCGO Altimeter Range Quality, CCCG The OCCGO Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327115078_C001 COCGO Altimeter Range Quality, CCCG The OCCGO Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_202303271151456_202303271151419_C001 COCGO Altimeter Range Quality, CCCG The OCCGO Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327115233_202303271152747_C001 COCGO Altimeter Range Quality, CCCG The OCCGO Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327115234_02303271152316_C001 COCGO Altimeter Range ASHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_202303271153316_C001	CS_OFFL_SIR_GOPM_2_20230327T141350_20230327T141658_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DS_DFF_SIR_SOPM_2_202303271143414_002303271144951_0001 Backscatter Quality The Ocean Altimeter Range SSHA, SWH and Backscatter Quality Flags have been and the OCGO Altimeter Range and Backscatter Quality Flags have been and the OCGO Altimeter Range and Backscatter Quality Flags have been and the OCGO Altimeter Range and Backscatter Quality Flags have been and the OCGO Altimeter Range and Backscatter Quality Flags have been and the OCGO Altimeter Range and Backscatter Quality Flags have been and the OCGO Altimeter Range and Backscatter Quality Flags have been and the OCGO Altimeter Range and Backscatter Quality Flags have been and the OCGO Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T150924_20230327T151614_C001 CCCQO Altimeter Range Quality, COCG Backscatter Quality Flags have been set for one or more records The OCGO Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T151614_C001 CCCQO Altimeter Range Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T15203_20230327T15214_C001 CCCQO Altimeter Range Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T15203_20230327T15210_C001 CCCQO Altimeter Range Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T15210_C001 CCCGA Altimeter Range Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230	CS_OFFL_SIR_GOPM_2_20230327T143039_20230327T143055_C001		с , _с
CS_OFFL_SIR_GOPM_2_20230327T143842_20230327T144361_C001 and Backscatter Quality. COCG and the OCOG Altimeter Range and Backscatter Quality. Set for one or more records CS_OFFL_SIR_GOPM_2_20230327T145301_20230327T150736_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality. COCG The OCean Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags ha	CS_OFFL_SIR_GOPM_2_20230327T143414_20230327T143430_C001		
CS_OFFL_SIR_GOPM_2_20230327T145301_20230327T150736_C001 and Backscatter Quality and the COCG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality CS_OFFL_SIR_GOPM_2_20230327T150924_20230327T151419_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T151456_20230327T151614_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T15203_20230327T152747_C001 OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T153240_20230327T153316_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T153240_20230327T153210_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_20230327T153210_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T153210_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T153316_C001 Ocean Altimeter Range ASH, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230327T143842_20230327T144951_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230327T151456_20230327T151614_C001 Backscatter Quality for one or more records CS_OFFL_SIR_GOPM_2_20230327T151456_20230327T151614_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T152303_20230327T152747_C001 Doean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T152303_20230327T153316_C001 DCCOG Altimeter Range Quality, OCOG Backscatter Quality, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T153240_20230327T155210_C001 DCCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T154041_20230327T155210_C001 DCcean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T163111_20230327T164639_C001 Dcean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T164859_20230327T165334_C001 Dcean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T165921_20230327T165334_C001 Dcean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T165921_20230327T165334_C001 D	CS_OFFL_SIR_GOPM_2_20230327T145301_20230327T150736_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230327T152303_20230327T152747_C001 Backscatter Quality for one or more records CS_OFFL_SIR_GOPM_2_20230327T152303_20230327T152747_C001 Ocean Atimeter Range, SSHA, SWH and Backscatter Quality, OCOG Atimeter Range and Backscatter Quality The Ocean Atimeter Range and Backscatter Quality Flags and the OCOG Atimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T153240_20230327T153216_C001 OCOG Atimeter Range Quality, OCOG Backscatter Quality The Ocean Atimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T153210_C001 Ocean Atimeter Range, SSHA, SWH and Backscatter Quality, OCOG Atimeter Range and Backscatter Quality The Ocean Atimeter Range, SSHA, SWH and Backscatter Quality, OCOG Atimeter Range and Backscatter Quality The Ocean Atimeter Range, and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T163111_20230327T164639_C001 Ocean Atimeter Range and Backscatter Quality and Backscatter Quality, OCOG Atimeter Range and Backscatter Quality The Ocean Atimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_GOPM_2_20230327T164859_20230327T165334_C001 OCOG Atimeter Range Quality, OCOG Atimeter Range and Backscatter Quality The Ocean Atimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T164859_20230327T165921_20230327T172646_C001 Ocean Atimeter Range Quality, OCOG Atimeter Range and Backscatter Quality The Ocean Atimeter Range and Backscat	CS_OFFL_SIR_GOPM_2_20230327T150924_20230327T151419_C001		
CS_OFFL_SIR_GOPM_2_20230327T152303_20230327T152747_C001 and Backscatter Quality, COCG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20230327T153240_20230327T153316_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_20230327T153240_20230327T153216_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T154041_20230327T155210_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T163111_20230327T164639_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T164859_20230327T165334_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T165921_20230327T165334_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T165921_20230327T172646_C001 Ocean Altime	CS_OFFL_SIR_GOPM_2_20230327T151456_20230327T151614_C001		
CS_OFFL_SIR_GOPM_2_20230327T153240_20230327T153316_C001 Backscatter Quality for one or more records CS_OFFL_SIR_GOPM_2_20230327T154041_20230327T155210_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T164859_20230327T165334_C001 OCOG Altimeter Range, Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T165921_20230327T165921_20230327T172646_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T180017_20230327T182039_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230327T152303_20230327T152747_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230327T154041_20230327T155210_C001and Backscatter Quality, OCOG Attimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230327T163111_20230327T164639_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter QualityThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beenCS_OFFL_SIR_GOPM_2_20230327T164859_20230327T165334_C001OCOG Altimeter Range Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230327T165921_20230327T165921_20230327T172646_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsThe OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230327T165921_20230327T172646_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsThe Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230327T180017_20230327T182039_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOGThe Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records <td>CS_OFFL_SIR_GOPM_2_20230327T153240_20230327T153316_C001</td> <td></td> <td></td>	CS_OFFL_SIR_GOPM_2_20230327T153240_20230327T153316_C001		
CS_OFFL_SIR_GOPM_2_20230327T163111_20230327T164639_C001 and Backscatter Quality, OCOG Attimeter 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_20230327T164859_20230327T165334_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_20230327T165921_20230327T165921_20230327T172646_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T180017_20230327T182039_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230327T154041_20230327T155210_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230327T164859_20230327T165921_20230327T172646_C001 Backscatter Quality for one or more records CS_OFFL_SIR_GOPM_2_20230327T165921_20230327T165921_20230327T172646_C001 Ocean 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_GOPM_2_20230327T180017_20230327T182039_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range a	CS_OFFL_SIR_GOPM_2_20230327T163111_20230327T164639_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230327T165921_20230327T172646_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230327T180017_20230327T182039_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatt	CS_OFFL_SIR_GOPM_2_20230327T164859_20230327T165334_C001		
CS_OFFL_SIR_GOPM_2_20230327T180017_20230327T182039_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20230327T165921_20230327T172646_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20230327T180017_20230327T182039_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20230327T182116_20230327T182618_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_20230327T182900_20230327T183248_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_20230327T183859_20230327T190631_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_20230327T193719_20230327T200550_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_20230327T200714_20230327T201203_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_20230327T201834_20230327T205336_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_20230327T210640_20230327T210806_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_20230327T214217_20230327T214524_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_20230327T214708_20230327T215233_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_20230327T215736_20230327T222037_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_20230327T222322_20230327T223209_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_20230327T224515_20230327T224815_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_20230327T230437_20230327T232424_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_20230327T232634_20230327T233132_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_20230327T233646_20230328T001021_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_20230327T034516_20230327T034658_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_20230327T043420_20230327T043559_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_20230327T060615_20230327T060637_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_20230327T165404_20230327T165411_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_20230327T214544_20230327T214708_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_20230327T225150_20230327T225218_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_20230327T060637_20230327T061046_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20230327T105509_20230327T105519_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_20230327T151850_20230327T152100_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20230327T182039_20230327T182116_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20230327T205504_20230327T205505_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 (20 Hz PLRM)

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

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

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

Number of products with errors: 104		
Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20230327T001633_20230327T001936_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_20230327T020614_20230327T020741_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_20230327T023535_20230327T023846_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_20230327T031628_20230327T031733_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_20230327T031835_20230327T031857_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_20230327T034516_20230327T034658_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_20230327T043116_20230327T043335_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_20230327T043610_20230327T043649_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_20230327T044743_20230327T044906_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_20230327T051359_20230327T051545_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_20230327T061618_20230327T061740_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_20230327T062155_20230327T062341_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_20230327T065338_20230327T065512_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_20230327T070219_20230327T070504_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_20230327T083324_20230327T083713_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_20230327T090113_20230327T090322_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_20230327T091236_20230327T091344_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_20230327T091430_20230327T091455_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_20230327T092118_20230327T092202_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_20230327T093226_20230327T093343_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_20230327T101303_20230327T101619_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_20230327T102131_20230327T102251_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_20230327T104240_20230327T104459_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_20230327T115021_20230327T115432_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_20230327T120039_20230327T120150_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_20230327T124251_20230327T124412_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_20230327T132829_20230327T132956_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_20230327T133754_20230327T133939_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_20230327T141658_20230327T142121_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_20230327T142207_20230327T142323_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_20230327T143627_20230327T143842_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_20230327T153456_20230327T154021_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_20230327T155317_20230327T155440_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_20230327T155751_20230327T160217_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_20230327T160217_20230327T160219_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_20230327T162100_20230327T162142_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_20230327T164705_20230327T164859_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_20230327T165527_20230327T165855_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_20230327T173437_20230327T173601_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_20230327T175535_20230327T175717_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_20230327T182633_20230327T182900_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_20230327T183635_20230327T183815_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_20230327T192625_20230327T192644_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_20230327T200550_20230327T200714_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_20230327T205336_20230327T205456_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_20230327T205536_20230327T205657_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_20230327T212650_20230327T212757_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_20230327T214544_20230327T214708_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_20230327T215234_20230327T215546_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20230327T225150_20230327T225218_C001	PLRM 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_20230327T225310_20230327T225409_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_20230327T230128_20230327T230437_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_20230327T232519_20230327T232634_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_20230327T233132_20230327T233454_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_20230327T005917_20230327T010254_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_20230327T010257_20230327T010312_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_20230327T010716_20230327T011146_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_20230327T014957_20230327T015639_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_20230327T024519_20230327T025020_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_20230327T025020_20230327T025150_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_20230327T031417_20230327T031628_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_20230327T032600_20230327T032953_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_20230327T040203_20230327T040342_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_20230327T040502_20230327T040650_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_20230327T040651_20230327T041052_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_20230327T042510_20230327T043116_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_20230327T043335_20230327T043420_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_20230327T043649_20230327T043909_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_20230327T074051_20230327T075129_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_20230327T085041_20230327T085550_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_20230327T092250_20230327T092350_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_20230327T092438_20230327T093226_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_20230327T093347_20230327T093347_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_20230327T101054_20230327T101303_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_20230327T105322_20230327T105334_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_20230327T110436_20230327T111514_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_20230327T114923_20230327T115021_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_20230327T124412_20230327T125109_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_20230327T125308_20230327T125316_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_20230327T125318_20230327T125644_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_20230327T131200_20230327T131303_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_20230327T131308_20230327T131605_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_20230327T132115_20230327T132154_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_20230327T133939_20230327T134242_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_20230327T142323_20230327T142844_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_20230327T151850_20230327T152100_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_20230327T155616_20230327T155658_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 & 1 Hz PLRM)		
Currently, there are several common flags raised in the Level 2 products, w	hich are summarised below.	
> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for p	roducts over sea ice, which is to be expecte	d.
Number of products with errors: 192		
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20 Hz)		
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measure	ment record. The bit value of this flag indication	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: 62		
L2 Retracking Flags (20 Hz PLRM)		
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM n	neasurement record. The bit value of this flag	g indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products G	OPR and GOPN products over sea ice, but	this is to be expected.
Number of products with errors: 148		
6. GOP L2	Pole-to-Pole Data Quality	/ Check
6.1 P2P Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both an XML header file (.H	HDR) and a NetCDF product file (.nc).
Number of products with errors: 0		

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

0

0

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

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

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

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

Number of products with errors: 30

roduct	Test Failed	Description
S_OFFL_SIR_GOP_2_20230326T233138_20230327T002117_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_GOP_2_20230327T002117_20230327T011053_C001	Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide heigh for one or more records
S_OFFL_SIR_GOP_220230327T011053_20230327T020032_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide heigh for one or more records
S_OFFL_SIR_GOP_2_20230327T020032_20230327T025007_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T025007_20230327T033946_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide heigh for one or more records
S_OFFL_SIR_GOP_2_20230327T033946_20230327T042922_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T042922_20230327T051901_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T051901_20230327T060837_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T060837_20230327T065816_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T065816_20230327T074752_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T074752_20230327T083731_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T083731_20230327T092706_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T092706_20230327T101645_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T101645_20230327T110621_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T110621_20230327T115600_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_220230327T115600_20230327T124536_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
S_OFFL_SIR_GOP_2_20230327T124536_20230327T133515_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T133515_20230327T142450_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide heigh for one or more records
S_OFFL_SIR_GOP_2_20230327T142450_20230327T151429_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T151429_20230327T160405_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
S_OFFL_SIR_GOP_2_20230327T160405_20230327T165344_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T165344_20230327T174320_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T174320_20230327T183259_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T183259_20230327T192235_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T192235_20230327T201214_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
S_OFFL_SIR_GOP_2_20230327T201214_20230327T210149_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
S_OFFL_SIR_GOP_2_20230327T210149_20230327T215128_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynami

CS_OFFL_SIR_GOP_2_20230327T215128_20230327T224104_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_20230327T224104_20230327T233043_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_20230327T233043_20230328T002019_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

6.5 P2P Measurement Confidence Data Check

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: 2

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220230327T020032_20230327T025007_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_2_20230327T124536_20230327T133515_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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

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

Number of products with errors:	30
P2P Quality Flags (20 Hz PLRM)	
Since the P2P Quality Flags are copied dire	tly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	29
P2P Quality Flags (1 Hz & 1 Hz PL	(M)
Since the P2P Quality Flags are copied dire	tly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	30
6.8 P2P Ocean Retracking Qua	ty Check

P2P Retracking Flags (20 Hz)

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.

30

30

2119

Number of	products	with errors:	

P2P Retracking Flags PLRM

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

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

Number of products with errors:

7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	165	165	2	163	0
SIR_GOPR1B	140	140	0	140	0
SIR_GOPN1B	101	101	4	97	0
SIR_GOPM_2	165	165	111	54	0
SIR_GOPR_2	140	140	59	81	0
SIR_GOPN_2	101	101	34	67	0
SIR_GOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC re	ports with er	rors:	0								
	Total number of occurrences of each error										
Product Type	-	-	-	-	-	-	-	-	-	-	-
Product Type	-	-	-	-	-	-	-	-	-	-	-
0											
Test Description H	Key:										
Abbreviation	Test nar	me		Details							
0	0			#N/A							
0	0			#N/A							
0	0			#N/A							
0	0			#N/A							

7.2 QCC Warnings

	Total number of occurrences of each warning									
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF			
SIR_GOPM1B	163	0	0	0	0	0	0			
SIR_GOPM_2	0	37	41	0	43	0	40			
SIR_GOPN1B	95	0	0	0	0	0	0			
SIR_GOPN_2	0	9	34	6	25	29	16			
SIR_GOPR1B	137	0	0	0	0	0	0			
SIR_GOPR_2	0	20	31	1	24	21	10			

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	1	31	0	0	0	0	26
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	2	0	0	19	0	36	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	9	0	38	0	47	0	0
Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	6	27	0	4	33
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	26	15	40	60	27	30
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	39	0	3	63	31	11	28
Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_GOPM1B	0	0	1	1	0	0	0
SIR_GOPM_2	0	2	1	1	0	0	0
SIR_GOPN1B	0	0	0	0	0	48	4
SIR_GOPN_2	34	10	0	0	0	0	0
SIR_GOPR1B	0	0	0	0	0	140	10
SIR_GOPR_2	36	2	0	0	2	0	0
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	13	28	29	7	29	16	29
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
i iouuci iype			00	23	14	29	18
SIR_GOP_2_	7	15	29	20	17	23	
	7	15	29	23	17	29	
	7 RSSHAONCDF		RSWHOEPFDPLRMNCDF		SPHLPQWNCDF	-	-

Abbreviation Test name Details BCSHNCDF BurstCounterStep20H2NetCDF The burst counter should be one higher with regard to the previous burst counter MVIOEPFDNCDF MissingValueIntOceanExcludingPolarFD2NetCDF The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees MVIOEPNCDF MissingValueIntOceanExcludingPolarFD2NetCDF The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees MVIONCDF MissingValueIntOceanNetCDF The value should not be a 'missing value' for surface type 0 only RBSZOPOEPFDNCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude: between -70 and 70 degrees RBSZOPOEPFNCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude: between -70 and 70 degrees RNELPOTONCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude: between -70 and 70 degrees RNELPOTONCDF RangePackinessExcludingPolarOPFD2LRMNetCDF The backscatter sigma zero should be between 70 and 70 degrees RPEPOPFDLRMSNAR RangePeakinessExcludingPolarOPFD2LRMS	Test Description Key:		
BISHNDDF BurtlCounterStragBithtMetDF The burts counter should be one higher with regard to the previous burst counter MIOEPFDNDDF MissingValueInCosanExcludingPolarFD2NetCDF The value should not be a missing value' for surface type 0 only for latitudes between 70 and 70 degrees MIOEPNDFF MissingValueInCosanExcludingPolarFD2NetCDF The value should not be a missing value' for surface type 0 only for latitudes between 70 and 70 degrees BISZOPDEFFDNDF RangeBackscatterSigmaZeroOPCeanExcludingPolarFD2NetCDF The value should not be a missing value' for surface type 0 only for latitudes between 70 and 700 (or missing) for surface type - ocean for latitudes between 70 and 700 (or missing) for surface type - ocean for latitude between 70 and 700 (or missing) for surface type - ocean for latitude between 70 and 700 (or missing) for surface type - ocean for latitude between 70 and 700 (or missing) for surface type - ocean for latitude between 70 and 700 (or missing) for surface type - ocean for latitude between 70 and 700 (or missing) for surface type - ocean for latitudes between 70 and 700 (or missing) for surface type - ocean for latitudes between 70 and 70 degrees REPEOPFDLRMNDDF RangeReaknessExcludingPolarOPFD2FMMENDF The Packiness should be between 70 and 70 degrees REPEOPFDLRMNDDF RangeReaknessExcludingPolarOPFD2FMMENDF The Packiness should be between 70 and 700 (or missing) for surface type - ocean for latitudes between 70 and 70 degrees REPEOPFDLRMNDDF RangeReaknessExcludingPolarOPFD2FMMENDF The Packiness should be between 0 and 6000 (or missing)	· · ·	Test name	Details
MVIOEPNOLF Mussing/saluetint/CosanExcluding/Polar/NetCDF The value should not be a 'missing value' for surface type 0 only for latitudes between 70 and 70 degrees MVIOEPNCDF Respective control of the second of the	BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
MVIONCDF Mssing/statistic/Corashie/CDF The value should not be a missing value' for surface type 0 only RBS2OPOEPFDNCFF RangeBackcatterSigmaZeroOPCeenExcludingPolarFD3PLENMetCDF The backscatter SigmaZeroOPCeenExcludingPolarFD3PLENMetCDF RBS2OPOEPFDLRM RangeBackcatterSigmaZeroOPCeenExcludingPolarFD3PLENMetCDF The backscatter SigmaZeroOPCeenExcludingPolarHD3PLENMetCDF RBS2OPOEPFNCDF RangeBackscatterSigmaZeroOPCeenExcludingPolarHCDF The backscatter SigmaZeroOPCeenExcludingPolarHCDF RBS2OPOEPFNCDF RangeNELPOcenTideOceanExcludingPolarHCDF The backscatter SigmaZeroOPCeenExcludingPolarHetCDF REPEOFFDLRMNCDF RangePeakinessExcludingPolarOFFD2EIRMARCDF The Pakiness should be between 0 and 5600 (or missing) for surface type - ocean for latitude between 70 and 70 degrees RPEPOFFDLRMNCDF RangePeakinessExcludingPolarOFFD2PLRMSRNetCDF The Pakiness should be between 0 and 50000 (or missing) for surface type - ocean for latitudes between 70 and 70 degrees RPEPOFFDLRMNCDF RangePeakinessExcludingPolarOFFD2PLRMSRNetCDF The Pakiness should be between 0 and 50000 (or missing) for surface type - ocean for latitudes between 70 and 70 degrees RPEPOFFDLRMNCDF RangePeakinessExcludingPolarOFFD2PLRMSRNetCDF The Pakiness should be between 0 and 50000 (or missing) for surface type - ocean for latitudes between 70 and 70 degrees RPEPOFFDSLRMCDF RangePeakinessExcludingPolarOFD2SRNetCDF<	MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
RBSZOPOEPEPDNCDF RangeBackscatterSigmaZereOPCceanExcludingPolateFD2NetCDF The backscatterSigmaZereOPCceanExcludingPolateFD2PLRMNetCDF The backscatterSigmaZereOPCceanExcludingPolateFD2PLRMNetCDF RBSZOPOEPEPDLRM RangeBackscatterSigmaZereOPCceanExcludingPolateFD2PLRMNetCDF The backscatter SigmaZereOPCceanExcludingPolateFD2PLRMNetCDF RBSZOPOEPENCDF RangeBackscatterSigmaZereOPCceanExcludingPolateRD2PLRMNetCDF The backscatter SigmaZereOPCceanExcludingPolateRD2PLRMNetCDF REPEOPEDLEMMCDF RangePeakinessExcludingPolatePD2LRMNetCDF The Polater SigmaZereOPCceanExcludingPolateRD2PLRMNetCDF RPEPOPFDLRMNCDF RangePeakinessExcludingPolatPD2LRMNetCDF The Polatiness should be between 0 and 6400 (or missing) for surface type - ocean for latitudes between 70 and 70 degrees RPEPOPFDLRMNCDF RangePeakinessExcludingPolatOPFD2LRMNetCDF The Peakiness should be between 0 and 6400 (or missing) for surface type - ocean for latitudes between 70 and 70 degrees RPEPOPFDLRMNCDF RangePeakinessExcludingPolatOPFD2RMSNRNetCDF The Peakiness should be between 0 and 60000 (or missing) for surface type - ocean for latitudes between 70 and 70 degrees RPEPOPFDLRMNCDF RangePeakinessExcludingPolatOPFD2RMSNRNetCDF The Peakiness should be between 0 and 60000 (or missing) for surface type - ocean for latitudes between 70 and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolatOPFD2RMNetCDF The Peakiness should be between 0 and 60000 (MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
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NCDF HangeBacksatterSigmaZeroOPCcents.cludingPolar/NetCDF between Total and the advance of the ad	RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
Instruction Instruction Detween 7.0 and 70 degrees RNELPOTONCDF RangeNELPOcan/TideOceanNetCDF The Poin-requilibrium for general ocean fact latitudes between 7.0 RPEOOPFDLRMNCDF RangePeakinessExcludingPolar/OPFD2LRMNetCDF The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between 7.0 RPEOOPFDLRMNSAR RangePeakinessExcludingPolar/OPFD2LRMNAR The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between 7.0 RPEOOPFDLRMNNDF RangePeakinessExcludingPolar/OPFD2PLRMNNNCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between 7.0 RPEOOPFDSINNCDF RangePeakinessExcludingPolar/OPFD2PLRMNNNCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between 7.0 RPEOOPFDSINNCDF RangePeakinessExcludingPolar/OPFD2SINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between 7.0 RPEOOPFDSINNCDF RangePeakinessExcludingPolar/OPLRMNetCDF The Peakiness should be between 0 and 56000 (or missing) for surface type = ocean for latitudes between 7.0 RPEOOPSINNCDF RangePeakinessExcludingPolar/OPSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between 7.0 RPEOOPSINNCDF RangePeakinessExcludingPolar/OPSINN		RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RHELPCORD InargeVELPCOGENTIONCOP Isourface type = cocean RPEPOPFDLRMNCDF RangePeakinessExcludingPolarOPFD2RMNECDF The Peakiness Evolution to the study of the study	RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
Inter-Or DLRMINCOF and 20 degrees RPEPOPFDLRMSAR RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPFDLRMSIN RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolarOPFD2SINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolarOPFD2SINNetCDF The Peakiness should be between 0 and 4000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolarOPFDSINNetCDF The Peakiness should be between 0 and 45000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolarOPSARNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolarOPSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RSSEONCDF RangeSeaStateBlasCorrectionCoeanNetCDF The Peakiness surface height anomaly should be between -3000mm and 900m (or missing) for surfac	RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
NCDF FangePeakinessExcludingPolar/OPFD2PLRMSHMetCDF and 70 degrees RPEPOPFDPLRMSINN RangePeakinessExcludingPolar/OPFD2PLRMSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPFDSARNCDF RangePeakinessExcludingPolar/OPFD2SARNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolar/OPFD2SINNetCDF The Peakiness should be between 0 and 4000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPLRMNCDF RangePeakinessExcludingPolar/OPFD2SINNetCDF The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolar/OPSARNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolar/OPSARNetCDF The Peakiness should be between 0 and 50000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RSEDONCDF RangeSeaStateBiasCorrectionOceanNetCDF The sea state bias correction should be between - 3000mm and 3000m (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RSSHAOFDPLRMNCDF RangeSeaStateBiasCorrectionOceanNetCDF The sea surface height	RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	
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DF RangeSignificantWaveHeightOceanExcludingPolar/D2PLHMNetCDF latitudes between -70 and 70 degrees RSWHOEPNCDF RangeSignificantWaveHeightOceanExcludingPolar/NetCDF The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees SPHRTASCNSNCDF SPH_Rel_Time_ASC_Node_Start_v2_NetCDF Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1) SPHRTASCNSNCDF SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF Rel_Time_ASC_Node_Stop mismatch SOOHHIFHD SameOrOneHigher1HzIndexFor20HzData The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	
HangeSignificantWaveHeightOceanExcludingPolarNetCDP latitudes between -70 and 70 degrees SPHRTASCNSNCDF SPH_Rel_Time_ASC_Node_Start_v2_NetCDF Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1) SPHRTASCNSNCDF SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF Rel_Time_ASC_Node_Stop mismatch SOOHHIFHD SameOrOneHigher1HzIndexFor20HzData The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample		RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	
SPHRTASCNSNCDF SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF Rel_Time_ASC_Node_Stop mismatch SOOHHIFHD SameOrOneHigher1HzIndexFor20HzData The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	
SOOHHIFHD SameOrOneHigher1HzIndexFor20HzData The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
	SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SCSTODHRNCDF SequenceCounterStepTODHRNetCDF The sequence counter should be modulo 4 higher with regard to the previous sequence counter	SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
	SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0