

QA4EO Daily Report for GOP data:

<u>29/11/2022</u>

IDEAS-QA4E0

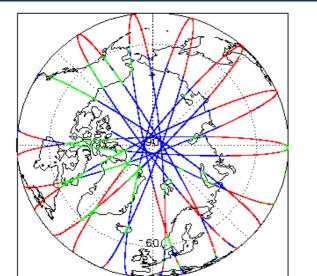
Demant Dreduction.	03-Jan-2023	Check	L1 & L2	P2P
Report Production:	03-Jan-2023	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Usa di	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Used:		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
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	Nominal
quality reports: What	do you like/ dislike? What quality	Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
information do you need? Send your feedback to		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
cs2_qc_t	eam@telespazio.com	QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1, 7.2 and 7.3

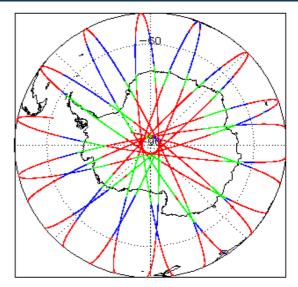
1. Overview

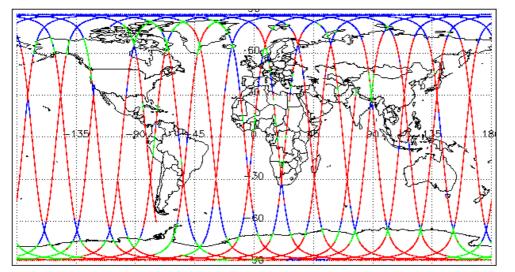
	Mission / Instrument News				
	28-Nov-2022				
29-Nov-2022 30-Nov-2022					
		Nothing planned			

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2. Global Coverage











3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a 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 11b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the 11b_processing_quality_hr field is not correctly configured in the OSAR and				
OSARIn chains. A modification is required in the next release.				
Number of products with errors: 0				
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-	determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag for each measurement record.	The bit value of this flag indicates any proble	ems when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measurement	ent record. The bit value of this flag indicates	any problems when set.		
Attitude Correction Missing: This flag is currently set in error for GOPR produ	cts due to a configuration issue. This is being	investigated and will be updated in the next SW update.		
Number of products with errors: 0				
4.6 L1B Waveform Group Data Check				
CryoSat L1B data includes a waveform data flag for each measurement record.	The bit value of this flag indicates any proble	ms when set.		
Loss of Echo Flag: This flag is currently set for some products over land, but the				
Number of products with errors: 17				
Product CS_OFFL_SIR_GOPM1B_20221129T014029_20221129T020445_C001	Loss of Echo	Description The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPM1B_202211291014029_202211291020443_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPM1B_20221129T094801_20221129T095839_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20221129T044500_20221129T044549_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20221129T080225_20221129T080346_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20221129T080654_20221129T080920_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20221129T084237_20221129T084842_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20221129T112102_20221129T112552_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20221129T175141_20221129T175448_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20221129T210637_20221129T210938_C001 CS_OFFL_SIR_GOPN1B_20221129T211048_20221129T211303_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 GOPR1B 20221129T052232 20221129T052629 C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20221129T053604_20221129T053940_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20221129T160105_20221129T160451_C001	Loss of Echo	The tracking echo is missing for one or more records		
5 00	D Lovel 2 Data Quality Ch	ook		
5. GOP Level 2 Data Quality Check				
5.1 L2 Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a 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 a	nd/or errors raised by the ground-segment processing chain.		
Number of products with errors: 0				
5.2.1.2. Auxiliany Data File Usaga Chask				
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, 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: 53				
Product	Test Failed	Description There is an error with the Mean Dynamic Tenearaphy (solution 1) for one		
CS_OFFL_SIR_GOPM_2_20221129T030704_20221129T030955_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records		
	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS boint (colution 1) and the Maco Dimension		
CS_OFFL_SIR_GOPM_2_20221129T094801_20221129T095839_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_GOPM_2_20221129T143057_20221129T143348_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_20221129T011213_20221129T011838_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20221129T021645_20221129T021805_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_20221129T031518_20221129T031542_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_20221129T034647_20221129T034814_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_20221129T035339_20221129T035648_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_20221129T044940_20221129T045112_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
CS_OFFL_SIR_GOPN_2_20221129T052629_20221129T052744_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_20221129T053237_20221129T053603_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_20221129T070715_20221129T070950_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_20221129T080225_20221129T080346_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
CS_OFFL_SIR_GOPN_2_20221129T084237_20221129T084842_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_20221129T094148_20221129T094401_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_20221129T102444_20221129T102633_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_20221129T103502_20221129T103653_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_20221129T112102_20221129T112552_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_20221129T134531_20221129T134746_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 (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_20221129T152340_20221129T152655_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_20221129T170226_20221129T170545_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_20221129T171112_20221129T171236_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_20221129T175141_20221129T175448_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
CS_OFFL_SIR_GOPN_2_20221129T184920_20221129T185059_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_20221129T193250_20221129T193348_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_20221129T202702_20221129T202913_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_20221129T211048_20221129T211303_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_20221129T215721_20221129T215907_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_20221129T224732_20221129T225128_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_20221129T234657_20221129T234855_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_20221129T011838_20221129T012735_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_20221129T025807_20221129T030703_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_20221129T031542_20221129T031655_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_20221129T043515_20221129T044329_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_20221129T044329_20221129T044500_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_20221129T061554_20221129T062228_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_20221129T062228_20221129T062700_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_20221129T075517_20221129T080115_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_20221129T080115_20221129T080225_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_20221129T082448_20221129T082701_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	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_GOPR_2_20221129T093504_20221129T093648_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20221129T093728_20221129T093903_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_20221129T093903_20221129T094148_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_20221129T111441_20221129T112102_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_20221129T125206_20221129T125310_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_20221129T125613_20221129T130126_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_20221129T142412_20221129T142615_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_20221129T143516_20221129T144317_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_20221129T161348_20221129T162238_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_20221129T175448_20221129T180245_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_20221129T193348_20221129T193930_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_20221129T211303_20221129T211952_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_20221129T225128_20221129T225650_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:

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.

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221129T000103_20221129T002538_C001	2.	The Ocean Altimeter Range, SSHA, SWH 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_20221129T002956_20221129T003354_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_20221129T003359_20221129T003409_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_20221129T003415_20221129T003740_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_20221129T004134_20221129T010738_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_20221129T013618_20221129T013847_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_20221129T014029_20221129T020445_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_20221129T021314_20221129T021645_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_20221129T022208_20221129T025436_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_20221129T030704_20221129T030955_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_20221129T033340_20221129T033724_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_20221129T033910_20221129T034123_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_20221129T034815_20221129T035338_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_20221129T040037_20221129T042145_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_20221129T042430_20221129T043515_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_20221129T044602_20221129T044940_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_20221129T050546_20221129T051100_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_20221129T051225_20221129T052232_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_20221129T052744_20221129T053237_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_20221129T053940_20221129T054500_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_20221129T054506_20221129T061151_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_20221129T061217_20221129T061412_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_20221129T062700_20221129T062703_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_20221129T063257_20221129T063547_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_20221129T063718_20221129T070016_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_20221129T071921_20221129T072447_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_20221129T074047_20221129T074820_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_20221129T080920_20221129T082447_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_20221129T082702_20221129T084159_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_20221129T084842_20221129T085058_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_20221129T085137_20221129T085556_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_20221129T085807_20221129T091236_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_20221129T091415_20221129T091645_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
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CS_OFFL_SIR_GOPM_2_20221129T091653_20221129T092904_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_20221129T094801_20221129T095839_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_20221129T095939_20221129T100217_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_20221129T100830_20221129T102248_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_20221129T102633_20221129T103502_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_20221129T103808_20221129T110004_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_20221129T113549_20221129T120143_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_20221129T120539_20221129T120734_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_20221129T120826_20221129T121312_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_20221129T121753_20221129T121847_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_20221129T122020_20221129T124219_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_20221129T125036_20221129T125206_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_20221129T131451_20221129T133938_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_20221129T134747_20221129T135343_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_20221129T135701_20221129T141650_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_20221129T141653_20221129T142412_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_20221129T143057_20221129T143348_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_20221129T144626_20221129T151927_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_20221129T152655_20221129T153215_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_20221129T160955_20221129T161348_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_20221129T162548_20221129T163456_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_20221129T163742_20221129T165909_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_20221129T171646_20221129T172617_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_20221129T172805_20221129T173411_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_20221129T173554_20221129T174038_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_20221129T180309_20221129T183751_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_20221129T184051_20221129T184557_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_20221129T185657_20221129T192804_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_20221129T193126_20221129T193249_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_20221129T194256_20221129T195540_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_20221129T195613_20221129T201737_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_20221129T201949_20221129T202456_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_20221129T203437_20221129T204434_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_20221129T205053_20221129T210637_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_20221129T212834_20221129T214041_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_20221129T214221_20221129T215558_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_20221129T215907_20221129T220408_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_20221129T221226_20221129T223142_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_20221129T223148_20221129T223431_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_20221129T223601_20221129T224508_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_20221129T231322_20221129T233441_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_20221129T233948_20221129T234326_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_20221129T235041_20221130T001626_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_20221129T003409_20221129T003415_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_20221129T021645_20221129T021805_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_20221129T033217_20221129T033339_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_20221129T044500_20221129T044549_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_20221129T045251_20221129T045301_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: 85 Description Product Test Failed OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or CS_OFFL_SIR_GOPN_2_20221129T011213_20221129T011838_C001 more records

OLONI, SPL DONE, JERNINGTON, DONE Deck Alterian Rays, RMA, ROM, Market Hage and Backets Doke Park The Construction Research Conference Confer	CS_OFFL_SIR_GOPN_2_20221129T025639_20221129T025757_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
Color Control Control Control Control Control Control COCC Bases on Bases on Bases on Control Contro Control Contrel Control Control Control Control Control Control C	CS_OFFL_SIR_GOPN_2_20221129T031705_20221129T031804_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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CE_OFT_SIN_OOP 202113110312327_0021131103103_000 Implication for the Daskaster Cubity FLM_COCO CE_OFT_SIN_OOP 202211311031103123_0021131110310_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131103110310_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131103110310_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131103110410_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131104104237_00211311010442_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131104104237_00211311010442_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131104104237_00211311010410_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131104104237_002113110410_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131104104237_0021130110410_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131104104247_0021130110410_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 20221131104104247_0021130110410_000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 2022113110410_0000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 202211311010410_0000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 202211311010410_0000 DOOD Rescuence Cubity FLM_COCO CE_OFT_SIN_OOP 202211311010410_0000	CS_OFFL_SIR_GOPN_2_20221129T052629_20221129T052744_C001		
 DOOG Ratescater Outly FLML DOOG Ratescater Outly FLML AND RATESCAMER OUT	CS_OFFL_SIR_GOPN_2_20221129T053237_20221129T053603_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C5 OFFL_SIR_0OPN_2_20221120T084542_001 and Badiscatter Quality Flags have been additional program structure or an one records. C6_OFFL_SIR_0OPN_2_20221120T08556_020221120T085754_001 and Badiscatter Quality Flags have been additional program structure or an one records. C6_OFFL_SIR_0OPN_2_20221120T08556_020221120T085754_001 COOG Alimeter Parge SISH, SVH. C6_OFFL_SIR_0OPN_2_20221120T08556_02021120T08556_02021120T08556_02021120T08556_02021120T08556_02021120T08556_02021120T08556_0201 COOG Alimeter Parge Cuality Flags have been additional program structure or an one records. C6_OFFL_SIR_0OPN_2_20221120T08556_02021120T08556_0201 COOG Alimeter Parge Cuality Flags have been set for one or more records. C6_OFFL_SIR_0OPN_2_20221120T108530_001 COOG Alimeter Parge Cuality Flags have been set for one or more records. C6_OFFL_SIR_0OPN_2_20221120T108530_001 COOG Alimeter Parge Cuality Flags have been set for one or more records. C6_OFFL_SIR_0OPN_2_20221120T108530_001 COOG Alimeter Parge Cuality Flags have been set for one or more records. C6_OFFL_SIR_0OPN_2_20221120T112012_20221120T110853_001 COOG Alimeter Parge Cuality Flags have been set for one or more records. C6_OFFL_SIR_0OPN_2_20221120T112012_20221120T112552_001 COOG Alimeter Parge Cuality Flags have been set for one or more records. C6_OFFL_SIR_0OPN_2_20221120T12012_20221120T112552_001 COOG Alimeter Parge Cuality Flags have been set for one or more records. C6_OFFL_SIR_0OPN_2_20221120T121202_20221120T12553_000	CS_OFFL_SIR_GOPN_2_20221129T071144_20221129T071515_C001		
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OG_PHP_SIR_DOPUC_2.20221129110416_20221129110030_C001 OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or nore records CS_OFFL_SIR_GOPN_2_20221129110244_20221129110030_C001 OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or nore records CS_OFFL_SIR_GOPN_2_202211291110445_202211291110617_C001 OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129111045_202211291110617_C001 OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291112102_202211291112552_C001 OCEOR Atimiter Range Quality PLRM, COG The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291112102_202211291112552_C001 OCEOR Atimiter Range Quality PLRM, COG The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291121012_202211291120538_C001 OCCOG Backscatter Quality PLRM, COG The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291121312_202211291121528_C001 OCCOG Atimiter Range Quality PLRM, COG The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291121312_20221129112438_C001 OCCOG Atimiter Range Quality PLRM, COG The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFF	CS_OFFL_SIR_GOPN_2_20221129T085556_20221129T085734_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Column 2, 2002 (1281) (2001) 2, 2002 (1281) (2001) 2003 OCOG Backscatter Quality more records CS, OFFL_SIR_GOPN 2, 2002 (1281) (2004) 2, 2002 (1281)	CS_OFFL_SIR_GOPN_2_20221129T094549_20221129T094801_C001		
Dis_OPPL_SIR_GOPN_2_20221129111024_20221129111053_C001 COOG Backscater Quality more records CS_OFFL_SIR_GOPN_2_202211291110145_202211291110517_C001 COOG Backscater Quality The OCOG Range and Backscater Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291112102_202211291112552_C001 Desta Minister Range Quality PLIM, NOVCO Allmeter R	CS_OFFL_SIR_GOPN_2_20221129T100416_20221129T100830_C001		
CS_OFFL_SIR_GOPN_2_20221129111202_202211291112552_C001 OCOG Backscater Quality more records CS_OFFL_SIR_GOPN_2_202211291112102_202211291112552_C001 OCOG Backscater Quality The Ocean Attimuter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_2022112911201291120539_C001 OCOG Attimuter Range Quality PLRM, COG Attimuter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291120734_202211291120539_C001 OCOG Attimuter Range Quality PLRM, COG Gastescatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291120734_202211291120526_C001 OCOG Attimuter Range Quality PLRM, COG Gastescatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129112132_202211291121526_C001 OCOG Attimuter Range Quality PLRM, COG Gastescatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291124220_202211291124526_C001 OCOG Attimuter Range Quality PLRM, COG Gastescatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291124220_202211291124536_C001 OCOG Attimuter Range Quality PLRM, COG Gastescatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291152340_202211291155245_C001 OCOG Attimuter Range Quality PLRM, COG Gastescatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_202211291155240_202211291155244	CS_OFFL_SIR_GOPN_2_20221129T102444_20221129T102633_C001		
CS_OFFL_SIR_GOPN_2_20221129T112102_20221129T112552_C001 and Backscatter Quality PLEM, OCCOG Into OCCOG Altimeter Range and Backscatter Quality PLEM, OCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T120734_20221129T120539_C001 OCCOG Altimeter Range Quality PLEM, OCCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T120734_20221129T120826_C001 OCCOG Altimeter Range Quality PLEM, OCCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T121312_20221129T121526_C001 OCCOG Altimeter Range Quality PLEM, OCCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T121312_20221129T121526_C001 OCCOG Altimeter Range Quality PLEM, OCCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T124326_C001 OCCGA Altimeter Range Quality PLEM, OCCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T154336_C001 OCCGA Altimeter Range Quality PLEM, OCCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T152340_20221129T155255_C001 OCCGA Altimeter Range Quality PLEM, OCCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155240_20221129T155242_C001 OCCGA Altimeter Range Quality PLEM, OCCOG Range and Backscatter Quality Flags have been set for one or more records <	CS_OFFL_SIR_GOPN_2_20221129T110145_20221129T110517_C001		
CS_OFFL_SIR_GOPN_2_20221129T120734_20221129T120826_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_GOPN_2_20221129T120734_20221129T120826_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T121312_20221129T121526_C001 Ocoma Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T124220_20221129T124336_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T124220_20221129T124336_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T152340_20221129T155655_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T152340_20221129T155255_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, and Backscatter Quality FLRM, OCOG Altimeter Range, and Backscatter Quality FLRM, OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155215_0221129T155245_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20221129T112102_20221129T112552_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20221129112034_202211291120526_0001 OCOG Backscatter Quality nore records CS_OFFL_SIR_GOPN_2_202211291121312_202211291121526_0001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality et for one or more records CS_OFFL_SIR_GOPN_2_20221129112132_202211291124336_0001 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_202211291124220_202211291135311_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_202211291135343_202211291135511_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_202211291152340_20221129115255_C001 Ocean Altimeter Range Quality PLRM, OCOG Backscatter Qua	CS_OFFL_SIR_GOPN_2_20221129T120419_20221129T120539_C001		
CS_OFFL_SIR_GOPN_2_20221129T121312_20221129T121526_C001 and Backscatter Quality PLRM, OCOG The Ocodan Milleter Anage and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T124220_20221129T124236_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T135343_20221129T135511_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T152340_20221129T152655_C001 Ocoa Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T153215_20221129T153334_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155215_20221129T155224_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T155216_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T15524_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more	CS_OFFL_SIR_GOPN_2_20221129T120734_20221129T120826_C001		
CS_OFFL_SIR_GOPN_2_20221129112420_202211291124336_0001 OCOG Backscatter Quality more records CS_OFFL_SIR_GOPN_2_202211291135343_20221129T135511_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T152340_20221129T152655_C001 Qcean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T153215_20221129T153334_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155125_20221129T155224_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T155616_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T165616_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records <td>CS_OFFL_SIR_GOPN_2_20221129T121312_20221129T121526_C001</td> <td>and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_GOPN_2_20221129T121312_20221129T121526_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20221129T135314_20221129T135311_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_GOPN_2_20221129T152340_20221129T152655_C001 Ocean Altimeter Range, SSHA, SWH 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_20221129T153215_20221129T153334_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T153215_20221129T153334_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155125_20221129T155224_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T15524_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T155616_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T155616_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T155616_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20221129T124220_20221129T124336_C001		
CS_OFFL_SIR_GOPN_2_20221129T152340_20221129T152655_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPN_2_20221129T153215_20221129T153334_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_20221129T155125_20221129T155224_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_20221129T155431_20221129T155616_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_20221129T155431_20221129T155616_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_20221129T155431_20221129T155616_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_20221129T162412_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_GOPN_2_20221129T135343_20221129T135511_C001	OCOG Backscatter Quality	
CS_OFFL_SIR_GOPN_2_20221129T155215_20221129T155334_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_GOPN_2_20221129T155125_20221129T155224_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_20221129T155431_20221129T155616_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_20221129T155431_20221129T155616_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221129T162412_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20221129T152340_20221129T152655_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20221129T155125_20221129T155244_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T155616_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_20221129T155431_20221129T155616_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_20221129T153215_20221129T153334_C001		
CS_OFFL_SIR_GOPN_2_202211291155431_202211291155616_C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_GOPN_2_20221129T155125_20221129T155224_C001		
	CS_OFFL_SIR_GOPN_2_20221129T155431_20221129T155616_C001		
	CS_OFFL_SIR_GOPN_2_20221129T162329_20221129T162412_C001		

CS_OFFL_SIR_GOPN_2_20221129T171112_20221129T171236_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_20221129T173412_20221129T173533_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_20221129T173540_20221129T173554_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_20221129T175141_20221129T175448_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_20221129T183902_20221129T184015_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_20221129T184920_20221129T185059_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221129T192804_20221129T192925_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_20221129T193250_20221129T193348_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_20221129T204434_20221129T204540_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_20221129T211048_20221129T211303_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_20221129T215721_20221129T215907_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_20221129T220442_20221129T220449_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_20221129T224732_20221129T225128_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_20221129T225650_20221129T225722_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_20221129T230627_20221129T230715_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_20221129T233715_20221129T233948_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_20221129T011838_20221129T012735_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_20221129T020445_20221129T020702_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_20221129T021805_20221129T022208_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_20221129T025600_20221129T025638_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_20221129T025807_20221129T030703_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_20221129T030955_20221129T031130_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_20221129T043515_20221129T044329_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_20221129T052232_20221129T052629_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_20221129T053604_20221129T053940_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_20221129T061554_20221129T062228_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_20221129T062228_20221129T062700_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_20221129T070016_20221129T070715_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_20221129T075517_20221129T080115_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_20221129T080115_20221129T080225_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_20221129T082448_20221129T082701_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_20221129T093504_20221129T093648_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_20221129T094402_20221129T094549_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_20221129T112613_20221129T112807_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_20221129T113334_20221129T113549_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_20221129T120143_20221129T120419_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_20221129T125422_20221129T125548_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_20221129T125613_20221129T130126_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_20221129T131256_20221129T131310_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_20221129T133939_20221129T134348_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_20221129T142412_20221129T142615_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_20221129T142943_20221129T143057_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_20221129T143516_20221129T144317_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_20221129T154014_20221129T154254_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_20221129T160105_20221129T160451_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_20221129T161348_20221129T162238_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_20221129T165909_20221129T170226_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_20221129T170658_20221129T170705_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_20221129T171237_20221129T171646_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_20221129T175448_20221129T180245_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_20221129T185059_20221129T185657_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_20221129T193348_20221129T193930_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

	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags				
CS_OFFL_SIR_GOPR_2_20221129T202914_20221129T203436_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records				
CS_OFFL_SIR_GOPR_2_20221129T204840_20221129T205053_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_20221129T211303_20221129T211952_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_20221129T214041_20221129T214219_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_20221129T224508_20221129T224720_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_20221129T225722_20221129T225821_C001	S_OFFL_SIR_GOPR_2_20221129T225722_20221129T225821_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Code B					
L2 Quality Flags (1 Hz & 1 Hz PLRM)	1					
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 expected	d.				
Number of products with errors: 194						
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 indica	ates any problems when set.				
Ocean Retracking Quality Flag: This flag is currently set for products over land Number of products with errors: 70	and sea ice, but this is to be expected. The	number of products with this error flag set is given below.				
L2 Retracking Flags (20 Hz PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM m	easurement record. The bit value of this fla	g indicates any problems when set.				
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products G						
Number of products with errors: 146						
6 COP 1 2	Pole-to-Pole Data Quality	Check				
6. GOP L2 Pole-to-Pole Data Quality Check						
	6.1 P2P Product Format Check					
6.1 P2P Product Format Check						
6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to ensort the science server. Number of products with errors: 0	ure it consists of both an XML header file (.I	HDR) and a NetCDF product file (.nc).				
Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both an XML header file (.I	HDR) and a NetCDF product file (.nc).				
Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0	· · · · · · · · · · · · · · · · · · ·					
Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and S	· · · · · · · · · · · · · · · · · · ·					
Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and S Number of products with errors: 0	PH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.				
Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and S Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check	PH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.				
Each product, retrieved and unpacked from the science server, is checked to ens 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 St Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-defined	PH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.				
Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and S Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-defined number of products with errors: 0	PH in order to identify any inconsistencies a stermined baseline and also to check the va	nd/or errors raised by the ground-segment processing chain.				
Each product, retrieved and unpacked from the science server, is checked to ens 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 Si Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-defined Number of products with errors: 0 6.4 P2P Auxiliary Correction Error Check	PH in order to identify any inconsistencies a stermined baseline and also to check the va ad for the default error value (32767). Level 2 products that are expected, due t	nd/or errors raised by the ground-segment processing chain.				
Each product, retrieved and unpacked from the science server, is checked to ens 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 St Number of products with errors: 0 6.3 P2P Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-defined number of products with errors: 0 6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are checked Currently, there are some common auxiliary correction errors raised in the	PH in order to identify any inconsistencies a stermined baseline and also to check the va ad for the default error value (32767). Level 2 products that are expected, due t his test. ted over CONTINENTAL ICE: Dry Tropospi	nd/or errors raised by the ground-segment processing chain. lidity of Auxiliary Data Files is correct. o surface type. All common flags are summarised in the list below, neric Corection, Wet Tropospheric Correction, Inverse Barometric				
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CS_OFFL_SIR_GOP_2_20221129T044216_20221129T053155_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
CS_OFFL_SIR_GOP_2_20221129T053155_20221129T062131_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_20221129T062131_20221129T071109_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_20221129T071109_20221129T080045_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_20221129T080045_20221129T085024_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
CS_OFFL_SIR_GOP_2_20221129T085024_20221129T094000_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
CS_OFFL_SIR_GOP_2_20221129T094000_20221129T102939_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_20221129T102939_20221129T111915_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_20221129T111915_20221129T120853_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_20221129T120853_20221129T125830_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_20221129T125830_20221129T134808_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
CS_OFFL_SIR_GOP_2_20221129T134808_20221129T143744_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_20221129T143744_20221129T152723_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_20221129T152723_20221129T161659_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_20221129T161659_20221129T170637_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_20221129T170637_20221129T175613_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
CS_OFFL_SIR_GOP_2_20221129T175613_20221129T184552_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_20221129T184552_20221129T193528_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_20221129T193528_20221129T202507_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_20221129T202507_20221129T211443_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_20221129T211443_20221129T220421_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_20221129T220421_20221129T225357_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_20221129T225357_20221129T234336_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_20221129T234336_20221130T003312_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height 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.

0

Number of products with errors:

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 di	tly from the L2 Quality Flags, please see Section 5.6 for the full li	ist of products affected.			
Number of products with errors:	30				
P2P Quality Flags (20 Hz PLRM)					
Since the P2P Quality Flags are copied di	tly from the L2 Quality Flags, please see Section 5.6 for the full li	ist of products affected.			
Number of products with errors:	30				
P2P Quality Flags (1 Hz & 1 Hz P	!M)				
Since the P2P Quality Flags are copied di	tly from the L2 Quality Flags, please see Section 5.6 for the full li	ist of products affected.			
Number of products with errors:	30				

6.8 P2P Ocean Retracking Quality 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.

29

30

4

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	206	206	7	199	0
SIR_GOPR1B	115	115	0	115	0
SIR_GOPN1B	106	106	2	104	0
SIR_GOPM_2	206	206	149	57	0
SIR_GOPR_2	115	115	39	74	2
SIR_GOPN_2	106	106	40	66	0
SIR_GOP_P2P	29	29	0	27	2

7.1 QCC Errors

Number of QCC reports with errors:

Total number of occurrences of each error											
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	2	2	2	2							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	2	2	2	2							

Test Description Key:	est Description Key:						
Abbreviation	Test name	Details					
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7					
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7					
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7					
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7					

7.2 QCC Warnings

MVIOEPNCDF

MissingValueIntOceanExcludingPolarNetCDF

Number of QCC reports with warnings

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	ber of occurrences of ea MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN
SIR GOPM1B	199	0	0	0	0	0	0
SIR GOPM 2	0	0	47	47	0	47	0
SIR GOPN1B	103	0	0	0	0	0	0
SIR GOPN 2	0	0	11	34	5	31	33
SIR GOPR1B	112	0	0	0	0	0	0
SIR_GOPR_2	0	2	31	44	2	22	25
Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC			RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	39	37	0	0	0	0	32
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	22	0	0	24	0	32	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	10	0	46	0	53	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	4	34	0	3	45
SIR GOPNIE	0	0	4	0	0	0	45
SIR GOPN 2	0	29	16	47	53	30	28
SIR GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	42	0	0	61	44	13	39
SIN_GOFN_2	42	0	0	01	44	13	39
Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_GOPM1B	0	0	0	0	0	0	
SIR_GOPM_2	0	4	0	0	0	0	
SIR_GOPN1B	0	0	1	0	43	2	
		10	0	0	0	0	
SIR_GOPN_2	29	12	0	0			
SIR_GOPN_2 SIR_GOPR1B	29 0	0	0	0	115	4	
			0	-	· · · · · · · · · · · · · · · · · · ·	4 0	
SIR_GOPR1B SIR_GOPR_2	0 46	0 1	0	0 3	115 0	0	
SIR_GOPR1B SIR_GOPR_2 Product Type	0 46 IOHHMOOR	0 1 MVIOEPFDNCDF	0 MVIOEPNCDF	0 3 MVIONCDF	115 0 RBSZOPOEPFDNCDF	0 RBSZOPOEPFDPLRMNC	
SIR_GOPR1B SIR_GOPR_2	0 46	0 1	0	0 3	115 0	0	ERBSZOPOEPNCDF 29
SIR_GOPR1B SIR_GOPR_2 Product Type SIR_GOP_2_	0 46 IOHHMOOR 17	0 1 MVIOEPFDNCDF 29	0 MVIOEPNCDF 29	0 3 MVIONCDF 6	115 0 RBSZOPOEPFDNCDF 29	0 RBSZOPOEPFDPLRMNC	29
SIR_GOPR1B SIR_GOPR_2 Product Type SIR_GOP_2_ Product Type	0 46 IOHHMOOR 17 RPEPOPFDPLRMSINNCI	0 1 MVIOEPFDNCDF 29 DRPEPOPFDSINNCDF	0 MVIOEPNCDF 29 RPEPOPSINNCDF	0 3 MVIONCDF 6 RSSBCONCDF	115 0 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	29 RSSHAONCDF
SIR_GOPR1B SIR_GOPR_2 Product Type SIR_GOP_2_	0 46 IOHHMOOR 17	0 1 MVIOEPFDNCDF 29	0 MVIOEPNCDF 29	0 3 MVIONCDF 6	115 0 RBSZOPOEPFDNCDF 29	0 RBSZOPOEPFDPLRMNC	29
SIR_GOPRIB SIR_GOPR_2 Product Type SIR_GOP_2_ Product Type	0 46 IOHHMOOR 17 RPEPOPFDPLRMSINNCI	0 1 MVIOEPFDNCDF 29 DRPEPOPFDSINNCDF	0 MVIOEPNCDF 29 RPEPOPSINNCDF 22	0 3 MVIONCDF 6 RSSBCONCDF	115 0 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	29 RSSHAONCDF
SIR_GOPR1B SIR_GOPR_2 Product Type SIR_GOP_2_ Product Type SIR_GOP_2_	0 46 IOHHMOOR 17 RPEPOPFDPLRMSINNCI 17	0 1 MVIOEPFDNCDF 29 29 29 29 29 29	0 MVIOEPNCDF 29 RPEPOPSINNCDF 22	0 3 MVIONCDF 6 RSSBCONCDF 14	115 0 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	29 RSSHAONCDF
SIR_GOPR1B SIR_GOPR_2 Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_	0 46 IOHHMOOR 17 RPEPOPFDPLRMSINNCI 17 RSWHOEPFDNCDF 29	0 1 MVIOEPFDNCDF 29 0 RPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD	0 MVIOEPNCDF 29 RPEPOPSINNCDF 22 F RSWHOEPNCDF	0 3 MVIONCDF 6 RSSBCONCDF 14 SPHLPQWNCDF	115 0 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	29 RSSHAONCDF
SIR_GOPR1B SIR_GOPR_2 Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ est Description Key	0 46 IOHHMOOR 17 RPEPOPFDPLRMSINNCI 17 RSWHOEPFDNCDF 29 :	0 1 MVIOEPFDNCDF 29 0 RPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD	0 MVIOEPNCDF 29 RPEPOPSINNCDF 22 F RSWHOEPNCDF	0 3 MVIONCDF 6 RSSBCONCDF 14 SPHLPQWNCDF 29	115 0 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF	29 RSSHAONCDF
SIR_GOPR1B SIR_GOPR_2 Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ est Description Key observiation	0 46 IOHHMOOR 17 RPEPOPFDPLRMSINNCI 17 RSWHOEPFDNCDF 29	0 1 MVIOEPFDNCDF 29 DRPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD 18	0 MVIOEPNCDF 29 RPEPOPSINNCDF 22 F RSWHOEPNCDF	0 3 MVIONCDF 6 RSSBCONCDF 14 SPHLPQWNCDF	115 0 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF 29 -	0 RBSZOPOEPFDPLRMNC 17 RSSHAOFDPLRMNCDF 19 -	29 RSSHAONCDF
SIR_GOPR1B SIR_GOPR_2 Product Type SIR_GOP_2 Product Type SIR_GOP_2 Product Type	0 46 IOHHMOOR 17 RPEPOPFDPLRMSINNCL 17 RSWHOEPFDNCDF 29 : Test name	0 1 MVIOEPFDNCDF 29 0 RPEPOPFDSINNCDF 29 29 18 RSWHOEPFDPLRMNCD 18	0 MVIOEPNCDF 29 RPEPOPSINNCDF 22 F RSWHOEPNCDF	0 3 MVIONCDF 6 RSSBCONCDF 14 SPHLPQWNCDF 29 Details	115 0 RBSZOPOEPFDNCDF 29 RSSHAOFDNCDF 29 - - - - - - - - - - - - -	0 RBSZOPOEPFDPLRMNCD 17 RSSHAOFDPLRMNCDF 19	29 RSSHAONCDF 23 -

The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees

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

7.3 Missing QCC Reports

Number of products with missing QCC reports:

1

L1B and L2 Product name n/a

P2P Product name CS_OFFL_SIR_GOP_2_20221129T234336_20221130T003312_C002