

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

<u>17/01/2023</u>

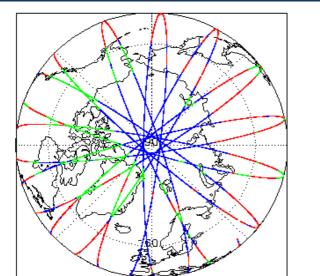
# IDEAS-QA4E0

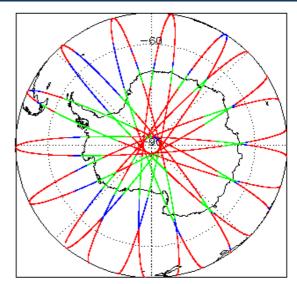
an art Draduation.	10 Eab 2000	Check	L1 & L2	P2P
Report Production:	16-Feb-2023	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
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 and 7.

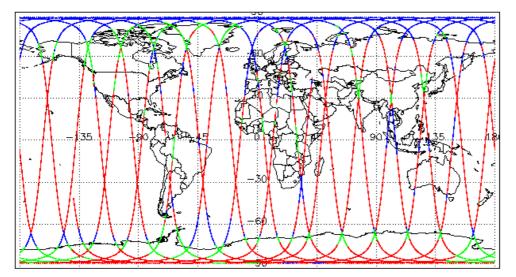
1. Overview

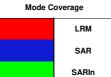
	Mission / Instrument News			
	16-Jan-2023	None		
17-Jan-2023 18-Jan-2023		None		
		Nothing planned		











# 3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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 a	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 v	nidity of Auxiliany Data Filos is correct			
Number of products with errors: 0	-determined baseline and also to check the va	andity of Auxiliary Data Files is correct.			
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					
4.5.1.1.D. Magazuramant Confidence Data Chaoli					
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	icts 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	ems when set.			
Loss of Echo Flag: This flag is currently set for some products over land, but t	his is to be expected.				
Number of products with errors: 17					
Product	Test Failed	Description			
CS_OFFL_SIR_GOPM1B_20230117T063638_20230117T064837_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPM1B_20230117T103953_20230117T110723_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPM1B_20230117T164456_20230117T164632_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPM1B_20230117T231841_20230117T234004_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230117T062905_20230117T063133_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230117T080536_20230117T080758_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230117T124608_20230117T124814_C001 CS_OFFL_SIR_GOPN1B_20230117T125755_20230117T125856_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_202301171125735_202301171125356_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230117T175217_20230117T175604_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230117T185031_20230117T185644_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPN1B_20230117T193233_20230117T193635_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20230117T052447_20230117T053057_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPR1B_20230117T063401_20230117T063638_C001	Loss of Echo	The tracking echo is missing for one or more records			
5. GO	P Level 2 Data Quality Ch	eck			
5.1 L2 Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to en	nsure it consists of both an 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	and/or errors raised by the ground-segment processing chain.			
Number of products with errors: 0					
5.3 L2 Auxiliary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre-	-determined baseline and also to check the va	alidity 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 followed by a table highlighting any additional issues that may arise from		to surface type. All common flags are summarised in the list below,			
		phoria Coraction, Wat Transcriptoria Correction, Invaria, Recompeting			
> ECMWF Meteo Corrections: Currently the following corrections are not comp Correction and the U-Wind and V-Wind components of the ECMWF model wind not reported in the table below.					
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for p	products over sea ice, but this is to be expect	led.			
> Altimetric Wind Speed Error: The error value is currently set for products ov	ver land and sea ice, but this is to be expecte	d.			
Number of products with errors: 51					
Product Test Failed Description					
CS_OFFL_SIR_GOPM_2_20230117T093627_20230117T093654_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_20230117T011807_20230117T012033_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records			

CS_OFFL_SIR_GOPN_2_20230117T021041_20230117T021206_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_20230117T021717_20230117T022021_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_20230117T035108_20230117T035405_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_20230117T035620_20230117T040140_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_20230117T044718_20230117T045137_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_20230117T053057_20230117T053332_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_20230117T062613_20230117T062726_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_20230117T062905_20230117T063133_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_20230117T070354_20230117T070455_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_20230117T070600_20230117T071154_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_20230117T080536_20230117T080758_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_20230117T084815_20230117T085007_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_20230117T094519_20230117T094955_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_20230117T102755_20230117T102933_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_20230117T120748_20230117T121132_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_20230117T125526_20230117T125616_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_20230117T134720_20230117T135037_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_20230117T135549_20230117T135713_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_20230117T143814_20230117T143906_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_20230117T153458_20230117T153605_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_20230117T161716_20230117T161832_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_20230117T175611_20230117T175746_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_20230117T185031_20230117T185644_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_20230117T193233_20230117T193635_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_20230117T202952_20230117T203311_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_20230117T211108_20230117T211458_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_20230117T224532_20230117T225151_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS 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_GOPN_2_20230117T234958_20230117T235117_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_20230117T000035_20230117T000103_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_20230117T012115_20230117T012809_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_20230117T012810_20230117T013120_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_20230117T025956_20230117T030709_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_20230117T030710_20230117T030918_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

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CS_OFFL_SIR_GOPR_2_20230117T044143_20230117T044603_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_20230117T044604_20230117T044718_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_20230117T061940_20230117T062431_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_20230117T062432_20230117T062613_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_20230117T075924_20230117T080536_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_20230117T094101_20230117T094519_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_20230117T111812_20230117T112647_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_20230117T125857_20230117T130644_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_20230117T143906_20230117T144914_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_20230117T161832_20230117T162555_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_20230117T175746_20230117T180306_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_20230117T193636_20230117T193817_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_20230117T193817_20230117T194346_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_20230117T211458_20230117T212026_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_20230117T212033_20230117T212321_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_GOPR_2_20230117T225151_20230117T230051_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_20230117T000120_20230117T000735_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_20230117T000751_20230117T000758_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_20230117T001201_20230117T001916_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_20230117T002429_20230117T003032_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_20230117T003239_20230117T003822_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_20230117T004416_20230117T011720_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_20230117T013120_20230117T013211_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_20230117T014819_20230117T020958_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_20230117T021207_20230117T021717_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_20230117T022256_20230117T025722_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_20230117T032154_20230117T032635_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_20230117T032716_20230117T034621_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_20230117T035406_20230117T035620_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_20230117T040321_20230117T041855_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_20230117T041857_20230117T043413_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_20230117T045214_20230117T051058_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_20230117T051136_20230117T052446_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_20230117T053332_20230117T053529_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_20230117T053700_20230117T054032_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_20230117T054211_20230117T055752_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_20230117T055955_20230117T060917_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_20230117T062726_20230117T062904_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_20230117T063638_20230117T064837_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_20230117T065507_20230117T065529_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_20230117T070455_20230117T070600_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_20230117T071155_20230117T071455_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_20230117T071501_20230117T071934_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_20230117T072146_20230117T073623_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_20230117T081455_20230117T082206_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_20230117T082329_20230117T084735_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_20230117T085007_20230117T085832_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_20230117T090103_20230117T092650_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_20230117T100117_20230117T102549_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_20230117T103220_20230117T103635_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

02,001_01_01_0000_01011000_000011011000_0001         DDD Attemac Trage, Dods, DDD Attemac Trage, DDA Attemac Trage	CS_OFFL_SIR_GOPM_2_20230117T103953_20230117T110723_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
G DPL_SIM_GOV_2_0020117110244_0200117110254_0001       ord Buscattr Cubit, Proc. Simon Program of December	CS_OFFL_SIR_GOPM_2_20230117T110732_20230117T110943_C001		с , <sub>с</sub>
DC-DIT-LINELOUND_LARGENTITIES LOG_COM         Resident Calify         per de armen consta           CB, ORE, BR, DOTM, 2, 20201177131462, 20201177132462, 20201         De armen Progr. SIM, Simon Progr. SIM,	CS_OFFL_SIR_GOPM_2_20230117T113246_20230117T120504_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
63       0FL 9BL 60FW 2 ACCENTTERES 2001       Intel 6 0000 Attempt Flags 200 Attempt Fla	CS_OFFL_SIR_GOPM_2_20230117T121132_20230117T121715_C001		
B3, DFH, SR, GOPM, 2, 20201171103018, 20201171103018, 20201171103048, 20201       person Attember Range SSR, SNP Market Range SSR, SNP M	CS_OFFL_SIR_GOPM_2_20230117T121842_20230117T122455_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C5     OFFL SIR 00PM 2 2020117T15005 2020117T1	CS_OFFL_SIR_GOPM_2_20230117T125616_20230117T125716_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DSUPLENEQUEXCASSION/T19389/_20030117119389_200301         Basecenter Casity	CS_OFFL_SIR_GOPM_2_20230117T131036_20230117T134454_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CE_OFFL_SIR_GOPM_2_2020117113074_2020117114278_C001 and Rescenter Outly Flags Networks Ameter Renga and Rescenter Outly Flags Networks and to cross on one necross to cross on	CS_OFFL_SIR_GOPM_2_20230117T135037_20230117T135549_C001		
CS. OFFL_SIR_GOPM_2_20230117T142855_20230117T142855_0001       and Beakcatter Quality Cooling       met the OOG Allineter Rings and Beakcatter Quality Flags have been after Rings ADB Allineter Rings and Beakcatter Quality Flags have been after Rings ADB Allineter Rings and Beakcatter Quality Flags have been after Quality Cooling Allineter Rings and Beakcatter Quality Flags have been after Quality Cooling Allineter Rings and Beakcatter Quality Flags have been after Quality Cooling Allineter Rings and Beakcatter Quality Flags have been after Quality Cooling Allineter Rings and Beakcatter Quality Flags have been after Quality Cooling Allineter Rings and Beakcatter Quality Flags have been after Quality Cooling Allineter Rings ADB Allineter Rings	CS_OFFL_SIR_GOPM_2_20230117T135746_20230117T141718_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIR_GOPM_2_2020117T154515_0220117T1555_001         and Backstater Quality, COCG         and the OCCG Altimeter Range and Backstatter Quality Flags have been set for one runce records           CB_OFFL_SIR_GOPM_2_2020117T151803_2020117T15303_0020117T15303_00201         OCCG Altimeter Range Cuality, COCG         The OCCG Altimeter Range and Backstatter Quality Flags have been set for one runce records           CB_OFFL_SIR_GOPM_2_2020117T15303_0020117T153037_0001         OCCG Altimeter Range Quality, COCG         The OCCG Altimeter Range and Backstatter Quality Flags have been set for one runce records           CB_OFFL_SIR_GOPM_2_20200117T153054_2020117T153055_00101         OCCG Altimeter Range Quality, COCG         The OCCG Altimeter Range Altimeter Range and Backstatter Quality Flags have been set for one runce records           CB_OFFL_SIR_GOPM_2_20200117T153051_0020117T153057_C0011         Cocka Altimeter Range SNL, SWH The OCCM Altimeter Range SNL, SWH The Occean Altimeter Range, SSH, SWH The Occe	CS_OFFL_SIR_GOPM_2_20230117T142825_20230117T142933_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIFL_GOPM_2_202201177115880_2022011771152037_C001       and the COGG         CB_OFFL_SIFL_GOPM_2_2022011771152033_2022011771152037_C001       OCCG Allimeter Range Quality, OCCG       The OCCG Allimeter Range and Backscatter Quality Flags have been set tor one or more records         CB_OFFL_SIFL_GOPM_2_2022011771152033_2022011771152037_C001       OCCG Allimeter Range Quality, OCCG       The OCCG Allimeter Range and Backscatter Quality Flags have been set tor one or more records         CB_OFFL_SIFL_GOPM_2_2022011771152051_2022011771153052_0020       OCCG Allimeter Range Quality, OCCG       The OCCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set tor one or more records         CB_OFFL_SIFL_GOPM_2_2022011771153052_0020011771163052_0001       Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set tor one or more records         CB_OFFL_SIFL_GOPM_2_2022011771163052_0020011771163052_0001       Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the Cocce on or nore records         CB_OFFL_SIFL_GOPM_2_2022011771163052_0020011771163102_0001       Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the SACCE of Coulity, OCCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the SACCE of Coulity, OCCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the SACCE of Coulity, OCCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the SACCE of Coulity, OCCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the SACCE of Coulity, OCCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags h	CS_OFFL_SIR_GOPM_2_20230117T144915_20230117T151755_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_0230117T162032_0230117T163042_0230117T163045_02001         Backscatter Quality         Iter one or more records           CS_OFFL_SIR_GOPM_2_20230117T163044_20230117T163458_0001         COOG Altimeter Range SSHA, SWH and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for ne or more records           CS_OFFL_SIR_GOPM_2_20230117T163052_20230117T163052_0001         Cocen Altimeter Range, SSHA, SWH and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and the COOG Altimeter Range, SSHA, SWH and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and the COOG Altimeter Range, SSHA, SWH and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altinter Range, SSHA, SWH and Backscatter Quality, Flags have been	CS_OFFL_SIR_GOPM_2_20230117T151803_20230117T152307_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dis_PFE_SIR_GOPM_2_20230117115308_202301171153757_C001         Backscatter Quality         for one or more necods           CS_OFFE_SIR_GOPM_2_202301171153757_C001         Coean Attmeter Range, SSHA, SWH and Backscatter Quality         The Ocean Attmeter Range, SSHA, SWH and the OCOA Attimeter Range, SSHA, SWH and Backscatter Quality Flags the one or more necods           CS_OFFE_SIR_GOPM_2_202301177153822_0230117716428_C001         Coean Attimeter Range, SSHA, SWH and Backscatter Quality, Flags the Dean Attimeter Range, SSHA, SWH and the OCOA Attimeter Range, SSHA, SWH and the OCOA Attimeter Range, SSHA, SWH and Backscatter Quality, Flags the Dean Attimeter Range, SSHA, SWH and the OCOA Attimeter Range, SSHA, SWH and Backscatter Quality, Flags the Dean Attimeter Range and Backscatter Quality, Flags the Dean Attimeter Range, SSHA, SWH and the OCOA Attimeter Range, SSHA, SWH and the OCOA Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range and Backscatter Quality, Flags have been attor one or more records           CS_OFFL_SIR_GOPM_2_202301177163214_202301177164325_C001         Coean Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range, SSHA, SWH and Backscatter Quality, Flags have been attor one or more records           CS_OFFL_SIR_GOPM_2_202301177164351_02020117716432_C001         Coean Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range and Backscatter Quality, Flags have been attor one or more records           CS_OFFL_SIR_GOPM_2_202301177164351_20230117716432_C001         Coean Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range an	CS_OFFL_SIR_GOPM_2_20230117T152833_20230117T153037_C001		
CS_OFFL_SIR_GOPM_2_20230117T153851_20230117T153757_C001       and Backscatter Quality. COCO Attemeter Range and Backscatter Quality. Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230117T153044_20230117T153458_C001		
CS_OFFL_SIR_GOPM_2_20230117T163282_20230117T16426_C001       and Backscatter Quality, COCG       and the OCGO Altimeter Range and Backscatter Quality, Set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T160556_20230117T160556_20230117T163125_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG         CS_OFFL_SIR_GOPM_2_20230117T16325_20230117T163125_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG         CS_OFFL_SIR_GOPM_2_20230117T163214_20230117T163125_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG         CS_OFFL_SIR_GOPM_2_20230117T163214_20230117T164015_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG         CS_OFFL_SIR_GOPM_2_20230117T164765_020230117T164632_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG         CS_OFFL_SIR_GOPM_2_20230117T164711_20230117T164632_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG         CS_OFFL_SIR_GOPM_2_20230117T164711_20230117T164550_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been set for one or more records <td>CS_OFFL_SIR_GOPM_2_20230117T153651_20230117T153757_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_GOPM_2_20230117T153651_20230117T153757_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230117T160556_20230117T161302_C001       and Backscatter Quality Cuality Flags have been Attimeter Range and Backscatter Quality Flags have been atter for one or more records         CS_OFFL_SIR_GOPM_2_20230117T164456_20230117T164632_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been atter for one or more records         CS_OFFL_SIR_GOPM_2_20230117T164711_20230117T165530_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been atter for one or more records         CS_OFFL_SIR_GOPM_2_20230117T170240_C001       Ocean Attimeter Range Quality, OCOG       The Ocean Attimeter Range and Backscatter Quality Flags have been atter one or more records         CS_OFFL_SIR_GOPM_2_20230117T170417_20230117T170240_C001	CS_OFFL_SIR_GOPM_2_20230117T153822_20230117T160426_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230117T162951_20230117T163125_C001       and Backscatter Quality, CCG Altimeter Range and Backscatter Quality Set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T163214_20230117T164015_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T164456_20230117T164632_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T164711_20230117T164532_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T164711_20230117T165530_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Altimeter Range and Backscatter Quality Set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T165650_20230117T170240_C001       Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T170417_20230117T170937_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T17049_20230117T172049_20230117T172049_20230117T172049_20230117T172049_20230117T172049_2023	CS_OFFL_SIR_GOPM_2_20230117T160556_20230117T161302_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230117T163214_20230117T164015_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20230117T164456_20230117T164632_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20230117T164711_20230117T164532_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, and Backscatter Quality, Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T165650_20230117T170240_C001       Ocean Altimeter Range Quality, OCOG Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T170417_20230117T170937_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T172049_20230117T17203_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCCGA	CS_OFFL_SIR_GOPM_2_20230117T162951_20230117T163125_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230117T164456_20230117T164632_C001       and Backscatter Quality, COCG Altimeter Range and Backscatter Quality       and He OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20230117T164711_20230117T165530_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T165650_20230117T165650_20230117T170240_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T165650_20230117T170240_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T170417_20230117T170937_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T170956_20230117T171025_C001       OCOGA Altimeter Range Quality, OCOG Backscatter Quality       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T172049_20230117T173203_C001       OCOGA Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OF	CS_OFFL_SIR_GOPM_2_20230117T163214_20230117T164015_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230117T164711_20230117T165530_C001and Backscatter Quality, OCOG Attimeter Range and Backscatter Qualityand the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T165650_20230117T170240_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter QualityThe Ocean Altimeter Range, SSHA, SWH and the OCOG Attimeter Range and Backscatter QualityCS_OFFL_SIR_GOPM_2_20230117T170417_20230117T17037_C001OCOG Altimeter Range Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T170956_20230117T170937_C001OCOG Altimeter Range Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T170956_20230117T170240_C001OCOG Altimeter Range Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T170956_20230117T172049_20230117T172049_20230117T173203_C001OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T172049_20230117T173203_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T173500_20230117T17342_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Iags have been and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Qual	CS_OFFL_SIR_GOPM_2_20230117T164456_20230117T164632_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230117T165650_20230117T170240_C001and Backscatter Quality, OCOG Attimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T170417_20230117T170937_C001OCOG Altimeter Range Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T170956_20230117T170956_20230117T170956_20230117T171205_C001OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T172049_20230117T172049_20230117T173203_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsThe OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_GOPM_2_20230117T173500_20230117T173203_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsThe Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230117T164711_20230117T165530_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230117T170956_20230117T170957_C001       Backscatter Quality       for one or more records         CS_OFFL_SIR_GOPM_2_20230117T170956_20230117T171205_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T172049_20230117T172049_20230117T173203_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T172049_20230117T173203_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T173500_20230117T174342_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230117T165650_20230117T170240_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230117717309_202301177173203_C001       Backscatter Quality       for one or more records         CS_OFFL_SIR_GOPM_2_202301177172049_202301177173203_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_202301177173500_202301177174342_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the	CS_OFFL_SIR_GOPM_2_20230117T170417_20230117T170937_C001		
CS_OFFL_SIR_GOPM_2_20230117T172049_20230117T173203_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20230117T173500_20230117T17342_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_GOPM_2_20230117T170956_20230117T171205_C001		
CS_OFFL_SIR_GOPM_2_20230117T173500_20230117T174342_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20230117T172049_20230117T173203_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20230117T173500_20230117T174342_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20230117T174509_20230117T174858_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS DEEL SID CODM 2 202201177174000 202201177175216 C001	Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20230117T174909_20230117T175216_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230117T180506_20230117T180517_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_20230117T180830_20230117T180845_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_20230117T181446_20230117T182416_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_20230117T182618_20230117T183332_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_20230117T183450_20230117T184134_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_20230117T184344_20230117T184838_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_20230117T185644_20230117T190004_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_20230117T191440_20230117T191839_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_20230117T191841_20230117T192255_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_20230117T192425_20230117T192739_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_20230117T200446_20230117T202042_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_20230117T202326_20230117T202807_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_20230117T202828_20230117T202952_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_20230117T203419_20230117T205737_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_20230117T205744_20230117T210132_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_20230117T213414_20230117T220025_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_20230117T220308_20230117T220708_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_20230117T220728_20230117T221052_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_20230117T221317_20230117T224051_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (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.

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Number of products with errors:

Product	Test Failed	Description
	0,000	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	<b>3</b>	The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_GOPN_2_20230117T013211_20230117T013305_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_20230117T032635_20230117T032715_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_20230117T044047_20230117T044143_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_20230117T044718_20230117T045137_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_20230117T053529_20230117T053659_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_20230117T060917_20230117T061245_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_20230117T062613_20230117T062726_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_20230117T062905_20230117T063133_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_20230117T064838_20230117T065318_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_20230117T080536_20230117T080758_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_20230117T080823_20230117T081007_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_20230117T081042_20230117T081055_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_20230117T092650_20230117T093020_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_20230117T093917_20230117T093935_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_20230117T094519_20230117T094955_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_20230117T095039_20230117T095201_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_20230117T095552_20230117T095800_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_20230117T103635_20230117T103927_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_20230117T120748_20230117T121132_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_20230117T123407_20230117T123741_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_20230117T123758_20230117T123936_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_20230117T125323_20230117T125356_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_20230117T125526_20230117T125616_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_20230117T125755_20230117T125856_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_20230117T130644_20230117T130810_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_20230117T130850_20230117T131036_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

00,001,000,004,2,30201111600,000     Deep Methy Frage, 1984, 2001       01,001,000,004,2,30201111600,000     Deep Methy Frage, 1984, 2001       01,001,000,004,2,302011111600,000     Deep Methy Frag			
Cold Deck and Support 2 Access to Response 2 Acce	CS_OFFL_SIR_GOPN_2_20230117T143814_20230117T143906_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
000000000000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20230117T152436_20230117T152833_C001		
CCC/PTL_SPL_COPPL_2_B000/117108/02_0200/117108/02_0200         CDCOR Backstein Cut y File         Does Althree Areas SIAL SMA cut Backstein Cut y File           CCCPPL_SPL_SPL_COPPL_2_B020/117108/02_0200/117108/02_0200         Opera Althree Areas SIAL SMA cut Backstein Cut y File         Does Althree Areas SIAL SMA cut Backstein Cut y File           CCCPPL_SPL_COPPL_2_B020/117108/02_0200/117108/02_0200         Opera Althree Areas SIAL SMA cut Backstein Cut y File         Does Althree Areas SIAL SMA cut Backstein Cut y File           CCCPPL_SPL_COPPL_2_B020/117108/01_0200/117108/01_0200         Opera Althree Areas SIAL SMA cut Backstein Cut y File         Does Althree Areas SIAL SMA cut Backstein Cut y File           CCCCPPL_SPL_COPPL_2_B020/117108/01_0200/117108/01_0200         OPECA Althree Areas SIAL SMA cut Backstein Cut y File         Does Althree Areas SIAL SMA cut Backstein Cut y File           CCCCPPL_SPL_COPPL_2_B020/117108/01_0200/117108/01_0200         OPECA Althree Areas SIAL SMA cut Backstein Cut y File         Does Althree Areas SIAL SMA cut Backstein Cut y File           CCCCPPL_SPL_COPPL_2_B020/117108/01_0200/107108/01         OPECA Althree Areas SIAL SMA cut y File         Does Althree Areas SIAL SMA cut y File           CCCCPPL_SPL_COPPL_2_B020/117108/01_0200/107108/01         OPECA Althree Areas SIAL SMA cut y File         Does Althree Areas SIAL SMA cut y File           CCCCPPL_SPL_COPPL_2_B020/117108/01_0200/10708/01         OPECA Althree Areas SIAL SMA cut y File         Does Althree Areas SIAL SMA cut y File           CCCCPPL_SPL_CPL_COPPL_2_B020/117108/01_0200/10708/01	CS_OFFL_SIR_GOPN_2_20230117T153458_20230117T153605_C001		
CLOPEL_BR_00PML2_000PM17T15917_000E0117T18002_0000         The Statestate Duly PLB Access State Statestate Duly PLB Access State Statestate Duly PLB Access Statestate Duly PLB Ac	CS_OFFL_SIR_GOPN_2_20230117T161356_20230117T161558_C001		
<ul> <li>CS. OPTL. SR. COPYL 2 2020117710002 2020117710002 2020117710002 2020117710002 2020117710002 2020117710002 2020117710002 2020117710002 2020117710002 2020117710000 20000 https://doi.org/10.10000 htttps://doi.org/10.10000 https://doi.org/10.10000 https://doi.or</li></ul>	CS_OFFL_SIR_GOPN_2_20230117T175217_20230117T175604_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
COUCH Concept Concept Concept County         memorysis           County         memorysis           County Memory County (Figs) Resp. SDM, SDM and Backacter County (Figs) Resp. SDM and SDM and Backacter County (Figs) Resp. SDM and SDM an	CS_OFFL_SIR_GOPN_2_20230117T180307_20230117T180332_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_GOPN_2_2020117718208_2020117721108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_2020117701108_202011770	CS_OFFL_SIR_GOPN_2_20230117T181039_20230117T181446_C001		
OCCUR_SIN_DOM_2_00201171102134_00201171102134_00201171102136_0001         DCCOR Beascatter Quality         Into me reacts           CS_OFFL_SIR_0OPL_2_00201171102134_00201171102136_0001         CCCOR Beascatter Quality         The OCCR Brage and Backscatter Quality Flags have been set for one or mom mores.           CS_OFFL_SIR_0OPL_2_00201171102138_00201171102139_0001         CCCOR Backscatter Quality         The OCCR Brage and Backscatter Quality Flags have been set for one or mom mores.           CS_OFFL_SIR_0OPL_2_00201171102139_0000117121106_0001         CCCOR Backscatter Quality         The OCCR Brage and Backscatter Quality Flags have been set for one or mom mores.           CS_OFFL_SIR_0OPL_2_0020117121106_0000117121106_00001         CCCOR Backscatter Quality FLAM_OCCR         The OCCR Ampe and Backscatter Quality Flags have been set for one or mom mores.           CS_OFFL_SIR_0OPL_2_00201171221052_00201177221007_0001         CCCR Amper SNA SWH and Backscatter Quality Flags have been set for one or mom mores.           CS_OFFL_SIR_0OPL_2_00201177221052_0120117722102_0001         CCCR Amper SNA SWH and Backscatter Quality Flags have been set for one or more mores.           CS_OFFL_SIR_0OPR_2_0020117701216_012021017702106_0101         CCCR Amper SNA SWH and Backscatter Quality Flags have been set for one or more mores.           CS_OFFL_SIR_0OPR_2_0020117701216_01200101         CCCR Amper SNA SWH and Backscatter Quality Flags have been set for one or more mores.           CS_OFFL_SIR_0OPR_2_0020117701216_012001001         CCCR Amper SNA SWH and Backscatter Quality Flags have been set for one or more mores. <td>CS_OFFL_SIR_GOPN_2_20230117T185031_20230117T185644_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_20230117T185031_20230117T185644_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
000 0FL SH, 00FR 2 2020117103184 2020117103185 2020         00005 Redecator Quily         more records           025 0FL SH, 00FR 2 20201171132233 20201171132331 2020117721145855 2020117721145855 2020117721145855 2020117721145855 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 202001177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 20201177211458 2020117721152107 2001         Ocean Altmeter Range SSHA SWH and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have been set for ore or more more database and Backscatter Quily Flags have be	CS_OFFL_SIR_GOPN_2_20230117T192739_20230117T192901_C001		
Open Part, Sin, DOPN & 2002011/1102332, 2002011/11023331, 2001         OCCOR Backscatter Quality         more monds           CS_OFFL_SIR_GOPN_2_2002011/1202382_2002011/1202391_0001         OCCOR Backscatter Quality PLIN, OCCOR         The OCCOR Atender Range SIM, SWH and Backscatter Quality Flags have been set for one or more monds           CS_OFFL_SIR_GOPN_2_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221052_2002011/17221051_2002011/17221051_2002011/17221052_2002011/1702105_2002011/17012105_2002011/	CS_OFFL_SIR_GOPN_2_20230117T193124_20230117T193159_C001		
CS_OFFL_SIR_GOPR_2_20230117121108_202301177211486_C001 CS_OFFL_SIR_GOPR_2_20230117721108_202301177211486_C001 CS_OFFL_SIR_GOPR_2_202301177221053_202301177211486_C001 CS_OFFL_SIR_GOPR_2_202301177221053_202301177221458_C001 CS_OFFL_SIR_GOPR_2_202301177221053_202301177221458_C001 CS_OFFL_SIR_GOPR_2_202301177224632_2023011772215151_C001 CS_OFFL_SIR_GOPR_2_202301177224632_202301177225151_C001 CS_OFFL_SIR_GOPR_2_202301177224632_202301177224632_202301177224532_202	CS_OFFL_SIR_GOPN_2_20230117T193233_20230117T193635_C001		
GS_OFFL_SIR_GOPN_2_20230117721108_202301177211458_CO01       Ind Backacatter Quality FLRM, QCOD Allmeter Range and Backacatter Quality FLRM, QCOD PLRM       Ind QCOD Allmeter Range, SSHA, SWH and Backacatter Quality FLRM, QCOD Allmeter Range, SSHA, SWH and Backacatter Quality FLRM, QCOD Allmeter Range, SSHA, SWH and Backacatter Quality Flags and the QCOD Allmeter Range, SSHA, SWH and Backacatter Quality FLRM, QCOD Allmeter Range, SSHA, SWH and Backacatter Quality Flags and the QCOD Allmeter Range, SSHA, SWH and Backacatter Quality Flags and the QCOD Allmeter Range, SSHA, SWH and Backacatter Quality Flags and the QCOD Allmeter Range, SSHA, SWH and Backacatter Quality Flags and the QCOD Allmeter Range, SSHA, SWH and Backacatter Quality Flags and the QCOD Allmeter Range, SSHA, SWH and Backacatter Quality Flags and the QCOD Allmeter Range, SSHA, SWH and Backacatter Quality Flags and the QCOD Allmeter Range, SSHA, SWH and Backacatter Quality Flags and the QCOD Allmeter Range and Backacatter Quality Fl	CS_OFFL_SIR_GOPN_2_20230117T202952_20230117T203311_C001		
CS_OFFL_SIR_GOPR_2_2020117T22151_C001       and Backszetter Quality PLSM_CCC00       and Backszetter Quality PLSM_CCC00         CS_OFFL_SIR_GOPR_2_2020117T224532_2020117T225151_C001       Decan Alimeter Range, SSHA, SWH and Backszetter Quality Flags have been been been been been been been be	CS_OFFL_SIR_GOPN_2_20230117T211108_20230117T211458_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_GOPR_2_20230117T224532_20230117T225151_0001         and Backscater Quality FLM, OCCO Altmeter Range ASH, SWH and Backscater Quality FLM, OCCO Altmeter Range ASH, SWH, MCCO Altmeter Range ASH, SWH, MCCO Altmeter Range, SHA, SWH, and Backscatter Quality FLM, OCCO Altmeter Range, SHA, SWH and Backscatter Quality FLM, OCCO Altmeter Range, SHA, SWH and Backscatter Quality	CS_OFFL_SIR_GOPN_2_20230117T221053_20230117T221207_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20230117T004138_20230117T004416_C001       and Backscatter Quality PLRM_COOG       Inter Parage and Backscatter Quality PLRM_COOG         CS_OFFL_SIR_GOPR_2_20230117T012115_20230117T012809_C001       Attimeter Parage and Backscatter Quality PLRM, COGG       The Qoean Attimeter Parage, SSHA, SWH and Backscatter Quality Plags have been set to one or more records         CS_OFFL_SIR_GOPR_2_20230117T012810_20230117T013120_C001       Attimeter Parage, SSHA, SWH and Backscatter Quality PLRM, COGG       The Qoean Attimeter Parage, SSHA, SWH and Backscatter Quality Plags have been set to one or more records         CS_OFFL_SIR_GOPR_2_20230117T013945_20230117T013120_C001       Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, COG       The Ocean Attimeter Parage, SSHA, SWH and Backscatter Quality Plags have been set to one or more records         CS_OFFL_SIR_GOPR_2_20230117T013945_20230117T013945_20230117T013945_20230117T039709_C001       OCCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COG CGR Altimeter Parage, SSHA, SWH and Backscatter Quality PLRM, COG CGR Altimeter Parage, SSHA, SWH and Backscatter Quality PLRM, COG CGR Altimeter Parage, SSHA, SWH and Backscatter Quality Flags have been set to one or more records         CS_OFFL_SIR_GOPR_2_20230117T033710_20230117T033918_C001       Attimeter Parage, SSHA, SWH and Backscatter Quality Flags have been set to one or more records         CS_OFFL_SIR_GOPR_2_20230117T031140_20230117T033918_C001       Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set to one or more records         CS_OFFL_SIR_GOPR_2_20230117T031907_C001       Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set to o	CS_OFFL_SIR_GOPN_2_20230117T224532_20230117T225151_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_GOPR_2_20230117T012115_20230117T012809_C001       and Backscatter Quality PLags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T012810_20230117T013120_C001       OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality PLRM, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T0390709_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T030710_20230117T030918_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T031140_20230117T031907_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T034743_20230117T035107	CS_OFFL_SIR_GOPR_2_20230117T004138_20230117T004416_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_GOPR_2_20230117T012810_20230117T013120_C001       and Backscatter Quality PLM, CCCG       and the CCGG Altimeter Range and Backscatter Quality       and the CCGG Altimeter Range and Backscatter Quality       and the CCGG Altimeter Range and Backscatter Quality       File Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T013945_20230117T014305_C001       OCCG Altimeter Range Quality PLRM, CCG       The OCGG Altimeter Range and Backscatter Quality       The OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T01295956_20230117T0300709_C001       OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T030710_20230117T030918_C001       Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T031140_20230117T031907_C001       Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T031926_20230117T032010_C001       OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T034743_20230117T035107_C001       OCCGA Altimeter Range, SHA, SWH and Backscatter Quality Flags h	CS_OFFL_SIR_GOPR_2_20230117T012115_20230117T012809_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_GOPR_2_202301171034743_20230117103405_C001       OCCG Backscatter Quality       more records         CS_OFFL_SIR_GOPR_2_202301171030710_20230117103079_C001       Mitmeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality FLRM, OCCG Altimeter Range and Backscatter Quality FLRM, OCCG Altimeter Range and Backscatter Quality FLRM, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCCG Altimeter Range, and Backscatter Quality FLRM, OCCG Altimeter Range and Backscatter Quality FLRM, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCCG Altimeter Range and Backscatter Quality FLRM, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCCG Altimeter Range and Backscatter Quality FLRM, OCCG Altimeter	CS_OFFL_SIR_GOPR_2_20230117T012810_20230117T013120_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_GOPR_2_20230117T025956_20230117T030709_C001       and Backscatter Quality PLM, OCCG Attimeter Range and Backscatter Quality PLM       and Backscatter Quality PLM, OCCG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T030710_20230117T030918_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Attimeter Range, and Backscatter Quality PLRM       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Attimeter Range and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range and Backscatter Quality Flags and the OCCG Attimeter Range and Backscatter Quality Flags and the OCCG Attimeter Range and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCC	CS_OFFL_SIR_GOPR_2_20230117T013945_20230117T014305_C001		
CS_OFFL_SIR_GOPR_2_20230117T030710_20230117T030918_C001       and Backscatter Quality PLRM, OCOG       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.         CS_OFFL_SIR_GOPR_2_20230117T031140_20230117T031907_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags.         CS_OFFL_SIR_GOPR_2_20230117T031907_C001       Ocean Altimeter Range Quality PLRM, OCOG         CS_OFFL_SIR_GOPR_2_20230117T031926_20230117T032010_C001       OCOG Altimeter Range Quality PLRM, OCOG         CS_OFFL_SIR_GOPR_2_20230117T034743_20230117T035107_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T034743_20230117T035107_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T034743_20230117T035107_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T044143_20230117T044603_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T052447_20230117T053057_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T052447_20230117T053057_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPR_2_20230117T025956_20230117T030709_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_GOPR_2_20230117T031140_20230117T031907_C001       and Backscatter Quality PLRM, OCOG Atimeter Range and Backscatter Quality PLRM       The OCOG Atimeter Range and Backscatter Quality Flags have been and the OCOG Atimeter Range and Backscatter Quality Flags and the OCOG Atimeter Range and Backscatter Quality Flags and the OCOG Atimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T031926_20230117T032010_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Atimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Atimeter Range and Backscatter Quality PLRM       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Atimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Atimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Atimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Atimeter Range and Backscatter Quality PLRM, OCOG Atimeter Range and Backscatter Quality PLRM       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality PLRM         CS_OFFL_SIR_GOPR_2_20230117T052447_20230117T053057_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags Attimeter Range and Backscatter Quality	CS_OFFL_SIR_GOPR_2_20230117T030710_20230117T030918_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_GOPR_2_20230117T034743_20230117T035107_C001       OCOG Backscatter Quality       more records         CS_OFFL_SIR_GOPR_2_20230117T034743_20230117T035107_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG 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_GOPR_2_20230117T044143_20230117T044603_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T052447_20230117T053057_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20230117T052447_20230117T053057_C001       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_GOPR_2_20230117T031140_20230117T031907_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_GOPR_2_20230117T034743_20230117T035107_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       Inte Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH         CS_OFFL_SIR_GOPR_2_20230117T044143_20230117T044603_C001       Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter	CS_OFFL_SIR_GOPR_2_20230117T031926_20230117T032010_C001		
CS_OFFL_SIR_GOPR_2_20230117T044143_20230117T044603_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       Inte Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality FLRM         CS_OFFL_SIR_GOPR_2_20230117T052447_20230117T053057_C001       and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags had Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Q	CS_OFFL_SIR_GOPR_2_20230117T034743_20230117T035107_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_GOPR_2_20230117T052447_20230117T053057_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been est for one or more proceed.	CS_OFFL_SIR_GOPR_2_20230117T044143_20230117T044603_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPR_2_20230117T052447_20230117T053057_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_GOPR_2_20230117T061940_20230117T062431_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_20230117T062432_20230117T062613_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_20230117T063401_20230117T063638_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_20230117T072119_20230117T072146_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_20230117T073623_20230117T074353_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_20230117T074353_20230117T074441_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_20230117T075924_20230117T080536_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_20230117T081007_20230117T081042_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_20230117T081055_20230117T081332_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_20230117T090035_20230117T090103_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_20230117T110943_20230117T111029_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_20230117T111812_20230117T112647_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_20230117T125211_20230117T125322_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_20230117T134455_20230117T134720_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_20230117T142933_20230117T143042_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_20230117T143042_20230117T143814_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_20230117T143906_20230117T144914_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_20230117T161832_20230117T162555_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_20230117T170240_20230117T170244_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_20230117T171348_20230117T172048_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_20230117T174858_20230117T174908_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_20230117T175746_20230117T180306_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_20230117T180332_20230117T180502_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_20230117T182426_20230117T182618_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_20230117T192902_20230117T193124_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_20230117T193159_20230117T193233_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_20230117T193636_20230117T193817_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_20230117T193817_20230117T194346_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_20230117T194856_20230117T194910_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_20230117T195721_20230117T200446_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_20230117T203312_20230117T203419_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_20230117T211458_20230117T212026_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_20230117T212033_20230117T212321_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
1.2 Quality Elago (1 Hz & 1 Hz DI DM)		

L2 Quality Flags (1 Hz & 1 Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

207

66

145

> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.

Number of products with errors:

#### 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 measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

#### L2 Retracking Flags (20 Hz 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:

## 6. GOP L2 Pole-to-Pole Data Quality Check

## 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

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.

30

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220230116T234733_20230117T003710_C001	Ilviean Livnamic, Lopodraphy (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_GOP_220230117T003710_20230117T012648_C001	Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_220230117T012648_20230117T021625_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220230117T021625_20230117T030603_C001	Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	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_220230117T030603_20230117T035539_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_20230117T035539_20230117T044517_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_220230117T044517_20230117T053454_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_220230117T053454_20230117T062432_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_20230117T062432_20230117T071408_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_20230117T071408_20230117T080347_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_220230117T080347_20230117T085323_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_220230117T085323_20230117T094301_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_220230117T094301_20230117T103238_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_20230117T103238_20230117T112216_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_20230117T112216_20230117T121153_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_20230117T121153_20230117T130131_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_20230117T130131_20230117T135107_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_20230117T135107_20230117T144045_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_220230117T144045_20230117T153022_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_220230117T153022_20230117T162000_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_220230117T162000_20230117T170937_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_220230117T170937_20230117T175915_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_220230117T175915_20230117T184851_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_220230117T184851_20230117T193829_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_220230117T193829_20230117T202806_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_220230117T202806_20230117T211744_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_20230117T211744_20230117T220721_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean	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 0ne or more records There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height
CS_OFFL_SIR_GOP_220230117T220721_20230117T225659_C001	Tide (FES), Non-Equilibrium Long Period Ocean Tide	(solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220230117T225659_20230117T234635_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_20230117T234635_20230118T003614_C001	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.

 Number of products with errors:
 0

 P2P Quality Flags (20 Hz)

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

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

 Number of products with errors:
 30

 P2P Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

P2P Quality Flags (1 Hz & 1 Hz PLRM)

28

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

30

27

30

4

2015

#### Number of products with errors:

## 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.

### 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	215	215	4	211	0
SIR_GOPR1B	127	127	0	127	0
SIR_GOPN1B	105	105	2	103	0
SIR_GOPM_2	215	215	153	62	0
SIR_GOPR_2	127	127	49	76	2
SIR_GOPN_2	105	105	41	64	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 RLOE	BOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	2	2	2	2							
Product Type RLOE	BOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	2	2	2	2							

Fest 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

Number of OCC reports with warnings

Due due t Ture -	DOOLINIODE		MUCEPERMORE	NU/OF DUODE	MU CONODE	DD070D0EDEDU025	DDOTODOEDEDE: STOR
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMI
SIR_GOPM1B	211	0	0	0	0	0	0
SIR_GOPM_2	0	0	44	43	0	44	0
SIR_GOPN1B	101	0	0	0	0	0	0
SIR_GOPN_2	0	0	9	38	6	25	28
SIR_GOPR1B	124	0	0	0	0	0	0
SIR_GOPR_2	0	2	29	51	1	21	17
Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARN	ICERPEPOPFDPLRMSINNCI		RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR GOPM1B	0	0	0	0	0	0	0
SIR GOPM 2	40	40	0	0	0	0	26
SIR GOPN1B	0	0	0	0	0	0	0
_	20	0	0	25	0	38	0
SIR_GOPN_2		0	0	0	*		0
SIR_GOPR1B	0	-	°	-	0	0	0
SIR_GOPR_2	7	0	46	0	49	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	5	25	0	4	36
SIR GOPN1B	0	0	0	0	0	0	0
SIR GOPN 2	0	31	15	36	54	23	28
SIR GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	46	0	0	63	34	11	33
	10	•	0	00	04		00
Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR GOPM1B	0	0	1	0	0	0	
SIR_GOPM_2	0	2	1	0	0	0	
SIR GOPN1B	0	0	0	0	50	0	
SIR GOPN 2	29	13	0	2	0	0	
SIR GOPR1B	0	0	0	0	126	7	
SIR GOPR 2	47	3	0	4	0	0	
	11	0	0	1	U	0	
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	RBSZOPOEPNCDF
SIR_GOP_2_	17	29	29	7	29	18	29
Dreduct Turns	RPEPOPFDPLRMSINNC	PREBOREDEINNODE	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
Product Type							
SIR_GOP_2_	18	27	24	15	29	18	21
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCD	F RSWHOEPNCDF	SPHLPQWNCDF	-	-	-
SIR GOP 2	29	19	14	29			
t Description Key				Details			
roviction	reviation Test name						

		1
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	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:

0