

1. Overview

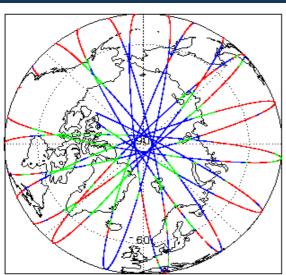
Report Production:	07-Jun-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

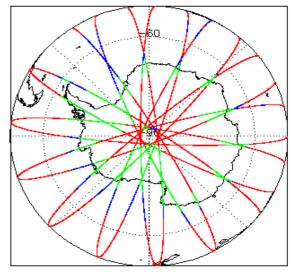
We would love to hear from you!
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quality reports: What do you like/ dislike? What quality
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cs2_qc_team@telespazio.com

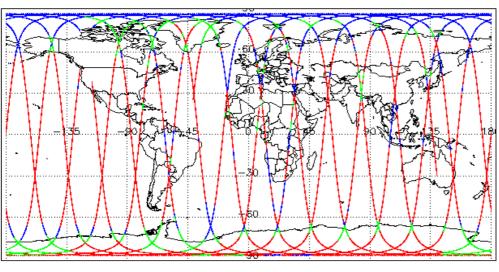
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	See Sections 4.2 and 5.2	See Section 6.2
Auxiliary Data File Usage Check	See Section 4.3 and 5.3	See Section 6.3
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

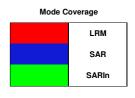
05-May-2023 None 06-May-2023 None 07-May-2023 Nothing planned	Mission / Instru	ument News
07-May-2023 Nothing planned	06-May-2023	None
	07-May-2023	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

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 problems when set.

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Attitude Correction Missing: This flag is currently set in error for GOPR products 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 problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

Number of products with errors:

23

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20230506T065526_20230506T065637_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230506T100832_20230506T101238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230506T194109_20230506T201450_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230506T231544_20230506T232943_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230506T021411_20230506T021621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230506T071709_20230506T071826_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230506T102117_20230506T102207_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230506T102253_20230506T102702_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230506T202637_20230506T202729_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230506T202942_20230506T203102_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230506T225325_20230506T225900_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230506T234415_20230506T234917_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230506T022626_20230506T022643_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230506T070732_20230506T071522_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

65

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230506T034444_20230506T034542_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20230506T065526_20230506T065637_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_20230506T002747_20230506T002924_C001	IMean Dynamic Lonography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPN_2_20230506T003437_20230506T003557_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_20230506T011505_20230506T012044_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_20230506T021411_20230506T021621_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_20230506T021723_20230506T021953_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_20230506T025653_20230506T025829_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_20230506T030719_20230506T030923_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_20230506T034851_20230506T034949_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_20230506T035325_20230506T035811_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_20230506T044510_20230506T044736_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_20230506T052730_20230506T052905_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_20230506T053207_20230506T053315_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_20230506T061608_20230506T062000_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_20230506T070635_20230506T070732_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_20230506T075554_20230506T075907_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_20230506T080421_20230506T080533_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_20230506T084627_20230506T084713_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230506T093321_20230506T093742_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_20230506T094324_20230506T094445_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_20230506T102253_20230506T102702_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_20230506T112101_20230506T112248_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_20230506T120506_20230506T120604_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_20230506T125907_20230506T130254_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_20230506T134301_20230506T134513_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_20230506T142914_20230506T143129_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_20230506T143809_20230506T144235_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_20230506T151944_20230506T152337_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_20230506T152355_20230506T152504_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_20230506T160932_20230506T161205_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_20230506T161926_20230506T162108_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_20230506T175826_20230506T180003_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_20230506T192834_20230506T192951_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_20230506T193523_20230506T193841_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_20230506T210756_20230506T210912_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_20230506T211420_20230506T211733_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_20230506T224854_20230506T225129_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_GOPN_2_20230506T225325_20230506T225900_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_20230506T234415_20230506T234917_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_20230506T002925_20230506T003318_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_20230506T003318_20230506T003437_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_20230506T020958_20230506T021037_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_20230506T021037_20230506T021411_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_20230506T034949_20230506T035325_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_20230506T052905_20230506T053207_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_20230506T053315_20230506T053357_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_20230506T065638_20230506T065815_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_20230506T070732_20230506T071522_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_20230506T084713_20230506T085831_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_20230506T102703_20230506T103410_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_20230506T120604_20230506T121139_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_20230506T133513_20230506T133610_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_20230506T134513_20230506T135048_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_20230506T152337_20230506T152355_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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230505T235625_20230506T000707_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_20230506T000709_20230506T001757_C001	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 set for one or more records
CS_OFFL_SIR_GOPM_2_20230506T003557_20230506T003959_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_20230506T004125_20230506T004351_C001	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 set for one or more records
CS_OFFL_SIR_GOPM_2_20230506T004445_20230506T005645_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230506T010543_20230506T011505_C001	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 set for one or more records

Baskscatter Quality CS_OFFL_SIR_GOPM_2_20230506T044833_20230506T062150_C001 CS_OFFL_SIR_GOPM_2_20230506T064821_20230506T062430_C001 CS_OFFL_SIR_GOPM_2_20230506T064621_20230506T062430_C001 CS_OFFL_SIR_GOPM_2_20230506T064621_20230506T062430_C001 CS_OFFL_SIR_GOPM_2_20230506T064621_20230506T062430_C001 CS_OFFL_SIR_GOPM_2_20230506T062000_20230506T062430_C001 CS_OFFL_SIR_GOPM_2_20230506T062000_20230506T062430_C001 CS_OFFL_SIR_GOPM_2_20230506T062000_20230506T062430_C001 CS_OFFL_SIR_GOPM_2_20230506T064651_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064651_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064651_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064651_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064611_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064611_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064611_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064611_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T064110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T0661110_20230506T064630_C001 CS_OFFL_SIR_GOPM_2_20230506T0	CS_OFFL_SIR_GOPM_2_20230506T012339_20230506T012804_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. DOPAL 2. 0200000100182 2000001100111. COVID Attention Plangs and Exchange Country Covid Plangs And Section Country	CS_OFFL_SIR_GOPM_2_20230506T012958_20230506T014448_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Belaces Custy Co. OFFL SRIF, COPM 2. 28229991702045 (20200561702040). COID Col. OFFL SRIF, COPM 2. 28229991704068 (20200561702040). COID Col. OFFL SRIF, COPM 2. 28229991704068 (20200561703040). COID Col. OFFL SRIF, COPM 2. 28229991704060 (20200561703040). COID Col. OFFL SRIF,	CS_OFFL_SIR_GOPM_2_20230506T014628_20230506T015201_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Display. Conf. (2010). CODO Allered Finage and Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the confinence of the Subsecution Coulty Fings have been addressed to the Subsection Coulty Fi	CS_OFFL_SIR_GOPM_2_20230506T020129_20230506T020141_C001		
CB_OFFL_SIR_GOPM_2_20038006T003816_2003006T003190_C001 CB_OFFL_SIR_GOPM_2_20038006T003826_20030006T003190_C001 CB_OFFL_SIR_GOPM_2_20038006T003826_20030006T003190_C001 CB_OFFL_SIR_GOPM_2_20038006T003826_20030006T003190_C001 CB_OFFL_SIR_GOPM_2_20038006T003826_20030006T003190_C001 CB_OFFL_SIR_GOPM_2_20038006T003826_2003006T003190_C001 CB_OFFL_SIR_GOPM_2_20038006T004828_2003006T003190_C001 CB_OFFL_SIR_GOPM_2_20038006T004828_2003006T004829_C001 CB_OFFL_SIR_GOPM_2_20038006T004829_C001 CB_OFFL_SIR_GOPM_2_20038006T004839_C001 CB_OFFL_SIR_GOPM_2_20038006T004839_C0010 CB_OFFL_SIR_GOPM_2_200	CS_OFFL_SIR_GOPM_2_20230506T022643_20230506T023031_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sessionation Cuality CE_OFFL_SIR_GOPML_2_20208000T100086_20208000T104444_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104444_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104444_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104444_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104444_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104088_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104088_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104080_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104080_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104080_0081 CE_OFFL_SIR_GOPML2_20208000T104088_20208000T104080_0081 CE_OFFL_SIR_GOPML2_20208000T104080_0081 CE_OFFL_SIR_GOPML2_20208000T104080_0081 CE_OFFL_SIR_GOPML2_20208000T104084_0081 CE	CS_OFFL_SIR_GOPM_2_20230506T023154_20230506T025551_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Caulity. COCS Althrender Parage and Backscatter Caulity Prags have been Althrender Parage and Backscatter Caulity. COCS OFFL SIRI OCPM 2 202030617046018, 20203061704444 (20205061704491 CODI CS_OFFL_SIRI_OCPM 2 202030617044014, 202050617044016 CODI CS_OFFL_SIRI_OCPM 2 202030617044014, 202050617044016 CODI CS_OFFL_SIRI_OCPM 2 202030617044014, 202050617044016 CODI CS_OFFL_SIRI_OCPM 2 202030617044014, 202050617045016 CODI CS_OFFL_SIRI_OCPM 2 2020306617044015, 202050617045016 CODI CS_OFFL_SIRI_OCPM 2 2020306617044016, 202050617045016 CODI CS_OFFL_SIRI_OCPM 2 2020306617044016, 202050617050546, 2010 CS_OFFL_SIRI_OCPM 2 2020306617044016, 202050617050556, 2010 CS_OFFL_SIRI_OCPM 2 2020306617044016, 202050617050546, 2010 CS_OFFL_SIRI_OCPM 2 2020306617044016, 202050617050556, 2010 CS_OFFL_SIRI_OCPM	CS_OFFL_SIR_GOPM_2_20230506T025829_20230506T030719_C001		
and Besiceater Quality, COCG Allineter Range and Bedicater Quality Flags have been set for one or more records CS OFFL SIR OOPM 2 20230506T04404 20230506T04410 COOI CS OFFL SIR OOPM 2 20230506T04403 20230506T02150 COOI Allineter Range SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records Allineter Range and Badicater Quality Flags have been set for one or more records CS OFFL SIR OOPM 2 20230506T082549 COOI Allineter Range and Badicater Quality Flags have been set for one or more records CS OFFL SIR OOPM 2 20230506T08451 20230506T084512 COOI Badicater Quality Coop Allineter Range, SIMA SWH and Bedicater Quality Flags have been set for one or more records CS OFFL SIR OOPM 2 20230506T08451 20230506T084512 COOI Badicater Quality Coop Allineter Range and Badicater Quality Flags have been set for one or more records CS OFFL SIR OOPM 2 20230506T08451 20230506T085937 COOI Badicater Quality Coop Allineter Range and Badicater Quality Flags have been set for one or more records CS OFFL SIR OOPM 2 20230506T08451 20230506T08595 COOI Badicater Quality Coop Allineter Range and Badicater Quality F	CS_OFFL_SIR_GOPM_2_20230506T030935_20230506T0333319_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Balescenter Quality CS_OFFL_SIR_GOPM_2_20230506T044831_2023050FT05419_C001 CS_OFFL_SIR_GOPM_2_2023050FT064821_2023050FT054142_C001 CS_OFFL_SIR_GOPM_2_2023050FT064821_2023050FT05449_C001 CS_OFFL_SIR_GOPM_2_2023050FT064821_2023050FT06449_C001 CS_OFFL_SIR_GOPM_2_2023050FT064821_2023050FT06449_C001 CS_OFFL_SIR_GOPM_2_2023050FT064821_2023050FT06449_C001 CS_OFFL_SIR_GOPM_2_2023050FT064821_2023050FT06449_C001 CS_OFFL_SIR_GOPM_2_2023050FT064821_2023050FT06449_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT06449_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT06449_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT064491_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT064831_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT064831_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT064832_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT064831_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT064831_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT064831_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT064831_C001 CS_OFFL_SIR_GOPM_2_2023050FT064831_2023050FT065957_C001 CS_OFFL_SIR_GOPM_2_2023050FT064815_2023050FT065957_C001 CS_OFFL_SIR_GOPM_2_2023050FT06931_2023050FT065957_C001 CS_OFFL_SIR_GOPM_2_2023050FT06931_2023050FT065957_C001 CS_OFFL_SIR_GOPM_2_2023050FT06931_2023050FT069505_C001 CS_OFFL_SIR_GOPM_2_2023050FT06931_2023050FT069505_C001 CS_OFFL_SIR_GOPM_2_2023050FT06931_2023050FT069505_C001 CS_OFFL_SIR_GOPM_2_2023050FT06911_2023050FT069505_C001 CS_OFFL_SIR_GOPM_2_2023050FT06911_2023050FT069505_C001	CS_OFFL_SIR_GOPM_2_20230506T040838_20230506T043449_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscater Cuality, COCG CS_OFFL_SIR_GOPM_2_20230506T064821_20230506T08402_C001 CS_OFFL_SIR_GOPM_2_20230506T064821_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T064821_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T084812_C001 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T084812_C001 CS_OFFL_SIR_GOPM_2_20230506T064515_20230506T084812_C001 CS_OFFL_SIR_GOPM_2_20230506T064515_20230506T084812_C001 CS_OFFL_SIR_GOPM_2_20230506T064115_20230506T085897_C001 CS_OFFL_SIR_GOPM_2_20230506T066915_20230506T085897_C001 CS_OFFL_SIR_GOPM_2_20230506T066915_20230506T085897_C001 CS_OFFL_SIR_GOPM_2_20230506T078061_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T08005_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T08005_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T08005_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T084430_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T084430_C001 CS_OFFL_SIR_GOPM_2_20230506T0861105_20230506T084430_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08430_C001 CS_OFFL_SIR_GOPM_2_20230506T0861105_20230506T08430_C001 CS_OFFL_SIR_GOPM_2_20230506T0861105_20230506T08430_C001 CS_OFFL_SIR_GOPM_2_20230506T0861105_20230506T08430_C001 CS_OFFL_SIR_GOPM_2_20230506T0861105_20230506T08430_C001 CS_OFFL_SIR_GOPM_2_20230506T0861105_20230506T08430_C001 CS_OFFL_SIR_GOPM_2_20230506T0861105_20230506T08430_C001 CS_OFFL_SIR_GOPM_2_202	CS_OFFL_SIR_GOPM_2_20230506T044044_20230506T044510_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscater Quality COCG Altimeter Range and Backscater Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T062000_20230506T062549_CO01 CS_OFFL_SIR_GOPM_2_20230506T062000_20230506T062549_CO01 CS_OFFL_SIR_GOPM_2_20230506T062000_20230506T064239_CO01 CS_OFFL_SIR_GOPM_2_20230506T062005_20230506T064239_CO01 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T064812_CO01 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T064812_CO01 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T064812_CO01 CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T068245_CO01 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T068245_CO01 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T068245_CO01 CS_OFFL_SIR_GOPM_2_20230506T064615_20230506T068937_CO01 CS_OFFL_SIR_GOPM_2_20230506T068915_20230506T068937_CO01 CS_OFFL_SIR_GOPM_2_20230506T068915_20230506T089045_CO01 CS_OFFL_SIR_GOPM_2_20230506T078062_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T078067_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080439_CO01 CS_OFFL_SIR_GOPM_2_20230506T08105_20230506T084439_CO01 CS_OFFL_SIR_GOPM_2_20230506T08105_20230506T084439_CO01 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084439_CO01 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08439_CO01 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08439_CO01 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08439_CO01 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08439_CO01 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08439_CO01 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08439_CO01 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08439_CO01 CS_OF	CS_OFFL_SIR_GOPM_2_20230506T044833_20230506T052150_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230506T082725_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T082725_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T084251_20230506T08429_C001 CS_OFFL_SIR_GOPM_2_20230506T084251_20230506T08428_C001 CS_OFFL_SIR_GOPM_2_20230506T084251_20230506T08428_C001 CS_OFFL_SIR_GOPM_2_20230506T084351_20230506T085245_C001 CS_OFFL_SIR_GOPM_2_20230506T084351_20230506T085285_C001 CS_OFFL_SIR_GOPM_2_20230506T086915_20230506T086937_C001 CS_OFFL_SIR_GOPM_2_20230506T086915_20230506T086935_C001 CS_OFFL_SIR_GOPM_2_20230506T086915_20230506T08439_C001 CS_OFFL_SIR_GOPM_2_20230506T086915_2	CS_OFFL_SIR_GOPM_2_20230506T054621_20230506T061402_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flae Acceptance Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T06451_20230506T064812_CO01 CS_OFFL_SIR_GOPM_2_20230506T064815_20230506T064812_CO01 CS_OFFL_SIR_GOPM_2_20230506T064815_20230506T065245_CO01 CS_OFFL_SIR_GOPM_2_20230506T064815_20230506T065245_CO01 CS_OFFL_SIR_GOPM_2_20230506T065915_20230506T065937_CO01 CS_OFFL_SIR_GOPM_2_20230506T065915_20230506T065937_CO01 CS_OFFL_SIR_GOPM_2_20230506T073927_20230506T075305_CO01 CS_OFFL_SIR_GOPM_2_20230506T073927_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T073907_20230506T080421_CO01 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_CO01 CS_OFFL_SIR_GOPM_2_20230506T08105_20230506T081430_CO01 CS_OFFL_SIR_GOPM_2_20230506T081430_CO01 CS_OFFL_SIR_GOPM_2_20230506T081437_20230506T08439_CO01 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_CO01 CO020A Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CO020A Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CO020A Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CO020A Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CO020A Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CO020A	CS_OFFL_SIR_GOPM_2_20230506T062000_20230506T062549_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230506T064815_20230506T065245_C001 CS_OFFL_SIR_GOPM_2_20230506T064815_20230506T065245_C001 CS_OFFL_SIR_GOPM_2_20230506T065915_20230506T065937_C001 CS_OFFL_SIR_GOPM_2_20230506T065915_20230506T065937_C001 CS_OFFL_SIR_GOPM_2_20230506T065915_20230506T065937_C001 CS_OFFL_SIR_GOPM_2_20230506T071826_20230506T075305_C001 CS_OFFL_SIR_GOPM_2_20230506T071826_20230506T075305_C001 CS_OFFL_SIR_GOPM_2_20230506T07507_20230506T080421_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T0801105_20230506T080421_C001 CS_OFFL_SIR_GOPM_2_20230506T08011_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T08250_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T08250_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T08250_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T08250_C001 CS_OFFL_SIR_GOPM_2_20230506T084434_20230506T08439_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T083206_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T083206_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T08531_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C	CS_OFFL_SIR_GOPM_2_20230506T062725_20230506T064239_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records CS_OFFL_SIR_GOPM_2_20230506T065915_20230506T065937_C001 CS_OFFL_SIR_GOPM_2_20230506T071826_20230506T075305_C001 CS_OFFL_SIR_GOPM_2_20230506T071826_20230506T075305_C001 CS_OFFL_SIR_GOPM_2_20230506T071826_20230506T075305_C001 CS_OFFL_SIR_GOPM_2_20230506T071826_20230506T080421_C001 CS_OFFL_SIR_GOPM_2_20230506T075907_20230506T080421_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080421_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080430_C001 CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T08107_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T08107_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T08107_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T08107_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T08107_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T08107_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T08107_20230506T08250_C001 CS_OFFL_SIR_GOPM_2_20230506T081437_20230506T08250_C001 CS_OFFL_SIR_GOPM_2_20230506T081437_20230506T08439_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08439_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08439_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20	CS_OFFL_SIR_GOPM_2_20230506T064551_20230506T064812_C001		
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230506T071826_20230506T075305_C001 CS_OFFL_SIR_GOPM_2_20230506T075907_20230506T080421_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T08250_C001 CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T08250_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T08250_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T08453	CS_OFFL_SIR_GOPM_2_20230506T064815_20230506T065245_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T075907_20230506T080421_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001 CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084144_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206	CS_OFFL_SIR_GOPM_2_20230506T065915_20230506T065937_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality Cs_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 Backscatter Quality Cs_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 Cs_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001 Cs_OFFL_SIR_GOPM_2_20230506T081105_20230506T081430_C001 Cs_OFFL_SIR_GOPM_2_20230506T081105_20230506T081430_C001 Cs_OFFL_SIR_GOPM_2_20230506T082107_20230506T081430_C001 Cs_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001 Cs_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001 Cs_OFFL_SIR_GOPM_2_20230506T08137_20230506T082439_C001 Cs_OFFL_SIR_GOPM_2_20230506T084137_20230506T08439_C001 Cs_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 Cs_OFFL_SIR_GOPM_2_20230506T085331_20230506T093206_C001 Backscatter Quality Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 Cs_OFFL_SIR_GOPM_2_20230506T085331_20230506T093206_C001 Cs_OFFL_SIR_GOPM_2_20230506T085331_20230506T093	CS_OFFL_SIR_GOPM_2_20230506T071826_20230506T075305_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T081430_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T081250_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001 CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084144_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Add Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T084144_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Add Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Add Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Add Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Add Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Add Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Add Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Add Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags hav	CS_OFFL_SIR_GOPM_2_20230506T075907_20230506T080421_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001 CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001 CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 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 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 have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 COCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records COCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230506T080611_20230506T080905_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001 CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T085831_20230506T093206_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T085831_20230506T093206_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T08	CS_OFFL_SIR_GOPM_2_20230506T081105_20230506T081430_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T085831_20230506T093206_C001 CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T085831_20230506T085831_20230506T085831_20230506T085831_20230506T085831_20230506T085831_20230506T085831_20230506T085831_20230506T085831_20230506T085831_20230506T0	CS_OFFL_SIR_GOPM_2_20230506T082107_20230506T082250_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 Cs_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 and Backscatter Quality, OCOG 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_20230506T085831_20230506T093206_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230506T084137_20230506T084439_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20230506T084444_20230506T084539_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20230506T085831_20230506T093206_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20230506T093742_20230506T093908_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230506T093916_20230506T094324_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_20230506T093916_20230506T094324_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality	Flags been
CS_OFFL_SIR_GOPM_2_20230506T100019_20230506T100736_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records	Flags been
CS_OFFL_SIR_GOPM_2_20230506T100832_20230506T101238_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality	been
Altimeter Range and Backscatter Quality Set for one or more records	
CS_OFFL_SIR_GOPM_2_20230506T104422_20230506T111051_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	
CS_OFFL_SIR_GOPM_2_20230506T111241_20230506T111808_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
CS_OFFL_SIR_GOPM_2_20230506T111827_20230506T112101_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
CS_OFFL_SIR_GOPM_2_20230506T112910_20230506T114140_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	
CS_OFFL_SIR_GOPM_2_20230506T114203_20230506T115915_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	
CS_OFFL_SIR_GOPM_2_20230506T121608_20230506T121619_C001 OCOG Altimeter Range Quality, OCOG for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_GOPM_2_20230506T123438_20230506T125012_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_GOPM_2_20230506T130615_20230506T131416_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_GOPM_2_20230506T132307_20230506T133513_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_GOPM_2_20230506T141403_20230506T142905_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	-
CS_OFFL_SIR_GOPM_2_20230506T143129_20230506T143619_C001 OCOG Altimeter Range Quality, OCOG for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
CS_OFFL_SIR_GOPM_2_20230506T143626_20230506T143638_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
CS_OFFL_SIR_GOPM_2_20230506T144235_20230506T150548_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	
CS_OFFL_SIR_GOPM_2_20230506T150642_20230506T151644_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_GOPM_2_20230506T151844_20230506T151944_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
CS_OFFL_SIR_GOPM_2_20230506T153652_20230506T153658_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
CS_OFFL_SIR_GOPM_2_20230506T154426_20230506T160519_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	
CS_OFFL_SIR_GOPM_2_20230506T160606_20230506T160839_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records	
CS_OFFL_SIR_GOPM_2_20230506T161205_20230506T161536_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
CS_OFFL_SIR_GOPM_2_20230506T161558_20230506T161925_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records	en set
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	
CS_OFFL_SIR_GOPM_2_20230506T165049_20230506T165106_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have before one or more records	en set

CS_OFFL_SIR_GOPM_2_20230506T172116_20230506T174812_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_20230506T174952_20230506T175451_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_20230506T175458_20230506T175826_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_20230506T180152_20230506T183625_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_20230506T192141_20230506T192302_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_20230506T192502_20230506T192757_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_20230506T192952_20230506T193523_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_20230506T194109_20230506T201450_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_20230506T202827_20230506T202941_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_20230506T204749_20230506T210708_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_20230506T210912_20230506T211420_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_20230506T212016_20230506T215420_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_20230506T221900_20230506T222336_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_20230506T222417_20230506T224155_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_20230506T230032_20230506T231423_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_20230506T231544_20230506T232943_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_20230506T234939_20230507T000705_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20230506T012314_20230506T012339_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20230506T135048_20230506T135228_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20230506T153831_20230506T153951_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20230506T004352_20230506T004445_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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20230506T002747_20230506T002924_C001	Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20230506T021411_20230506T021621_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20230506T021723_20230506T021953_C001	Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_GOPN_2_20230506T023032_20230506T023154_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_20230506T033354_20230506T033701_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_20230506T033756_20230506T033932_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_20230506T034851_20230506T034949_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_20230506T035325_20230506T035811_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_20230506T035909_20230506T040031_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_20230506T044510_20230506T044736_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_20230506T052730_20230506T052905_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_20230506T061608_20230506T062000_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_20230506T070150_20230506T070313_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_20230506T082251_20230506T082308_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_20230506T083842_20230506T083858_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_20230506T093321_20230506T093742_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_20230506T094324_20230506T094445_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_20230506T100736_20230506T100832_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_20230506T102253_20230506T102702_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_20230506T111120_20230506T111241_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_20230506T112101_20230506T112248_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_20230506T125907_20230506T130254_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_20230506T134301_20230506T134513_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_20230506T143809_20230506T144235_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_20230506T151944_20230506T152337_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_20230506T152355_20230506T152504_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_20230506T152851_20230506T152924_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_20230506T154049_20230506T154357_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_20230506T160932_20230506T161205_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_20230506T161926_20230506T162108_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_20230506T174823_20230506T174952_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_20230506T175826_20230506T180003_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_20230506T183625_20230506T183747_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_20230506T184633_20230506T184810_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_20230506T190244_20230506T190350_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_20230506T192834_20230506T192951_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_20230506T193523_20230506T193841_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_20230506T203415_20230506T203441_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_20230506T204552_20230506T204749_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_20230506T210756_20230506T210912_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_20230506T211420_20230506T211733_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_20230506T225325_20230506T225900_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_20230506T233705_20230506T233847_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_20230506T234415_20230506T234917_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_20230506T002925_20230506T003318_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_20230506T003318_20230506T003437_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_20230506T005645_20230506T005917_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_20230506T012944_20230506T012958_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_20230506T014448_20230506T014628_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_20230506T015202_20230506T015337_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_20230506T020958_20230506T021037_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_20230506T021037_20230506T021411_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_20230506T021621_20230506T021723_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_20230506T021953_20230506T022035_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_20230506T033320_20230506T033354_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_20230506T034320_20230506T034443_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_20230506T034603_20230506T034851_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_20230506T034949_20230506T035325_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_20230506T043450_20230506T043629_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_20230506T044737_20230506T044833_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_20230506T052402_20230506T052551_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_20230506T052905_20230506T053207_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_20230506T061402_20230506T061608_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_20230506T070732_20230506T071522_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_20230506T071641_20230506T071644_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_20230506T075305_20230506T075554_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_20230506T081834_20230506T082107_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_20230506T084539_20230506T084627_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_20230506T084713_20230506T085831_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_20230506T102703_20230506T103410_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_20230506T103548_20230506T103643_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_20230506T103650_20230506T103732_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_20230506T103807_20230506T103850_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_20230506T111052_20230506T111120_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_20230506T121311_20230506T121327_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_20230506T121836_20230506T121903_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_20230506T132003_20230506T132307_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_20230506T134513_20230506T135048_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_20230506T140548_20230506T141403_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_20230506T151644_20230506T151817_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_20230506T152504_20230506T152850_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_20230506T152924_20230506T153052_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_20230506T153733_20230506T153736_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_20230506T170124_20230506T170900_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_20230506T170918_20230506T171140_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	
CS_OFFL_SIR_GOPR_2_20230506T171726_20230506T171832_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records	
CS_OFFL_SIR_GOPR_2_20230506T180004_20230506T180151_C001	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 (1 Hz & 1 Hz PLRM)

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

78

> 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: 16

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:

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 Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20230505T234315_20230506T003254_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230506T003254_20230506T012230_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_20230506T012230_20230506T021208_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_20230506T021208_20230506T030145_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_20230506T030145_20230506T035123_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_20230506T035123_20230506T044100_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_20230506T044100_20230506T053038_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_20230506T053038_20230506T062014_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20230506T062014_20230506T070952_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_220230506T070952_20230506T075929_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_220230506T075929_20230506T084907_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_220230506T084907_20230506T093844_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_220230506T093844_20230506T102822_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_220230506T102822_20230506T111758_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_20230506T111758_20230506T120736_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_220230506T120736_20230506T125713_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_20230506T125713_20230506T134651_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_220230506T134651_20230506T143627_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_220230506T143627_20230506T152606_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_220230506T152606_20230506T161542_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_220230506T161542_20230506T170520_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_220230506T170520_20230506T175457_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_220230506T175457_20230506T184435_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_20230506T184435_20230506T193412_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_220230506T193412_20230506T202350_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_220230506T202350_20230506T211326_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_220230506T211326_20230506T220304_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_220230506T220304_20230506T225241_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_220230506T225241_20230506T234219_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_220230506T234219_20230507T003155_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

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.

0

Number of products with errors: 3

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.

Number of products with errors: 3

P2P Quality Flags (1 Hz & 1 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.

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:

29

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.

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	191	191	0	191	0
SIR_GOPR1B	161	161	0	161	0
SIR_GOPN1B	106	106	3	103	0
SIR_GOPM_2	191	191	129	62	0
SIR_GOPR_2	161	161	71	86	4
SIR_GOPN_2	106	106	41	65	0
SIR_GOP_P2P	29	29	0	25	4

7.1 QCC Errors

Number of QCC reports with errors:

8

Total number of occurrences of each error

	Total number of occurrences of each end										
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	4	4	4	4							
·	•	•				•					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	4	4	4	4							

Test 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

SIR_GOP_2_

Number of QCC reports with warnings

2341

Total number of occurrences of each warning

Total name of occurrence of occurring								
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	
SIR_GOPM1B	191	0	0	0	0	0	0	
SIR_GOPM_2	0	0	50	50	0	48	0	
SIR_GOPN1B	102	0	0	0	0	0	0	
SIR_GOPN_2	0	0	11	27	5	23	25	
SIR_GOPR1B	155	0	0	0	0	0	0	
SIR GOPR 2	0	4	31	48	0	31	23	

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	44	0	45	0	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	13	0	0	0	19	0	27
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	13	2	0	48	0	54	0

	Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
ſ	SIR_GOPM1B	0	0	0	0	0	0	0
	SIR_GOPM_2	35	0	0	9	30	0	6
	SIR_GOPN1B	0	0	0	0	0	0	0
	SIR_GOPN_2	0	0	22	32	48	54	36
	SIR_GOPR1B	0	0	0	0	0	0	0
	SIR GOPR 2	0	49	0	2	59	31	8

-								
	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
	SIR_GOPM1B	0	0	0	0	0	0	
	SIR_GOPM_2	44	0	7	0	0	0	
	SIR_GOPN1B	0	0	0	0	43	3	
	SIR_GOPN_2	27	27	11	2	0	0	
	SIR_GOPR1B	0	0	0	0	161	14	
	SIR GOPR 2	29	41	2	6	0	0	

	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
ı	SIR_GOP_2_	16	29	29	5	29	18	29

	i roduct Type		0	2. 0 20	2. 0. 002.			
	SIR_GOP_2_	2	17	27	25	25	29	17
L								
	Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF BurstCounterStep20HzNetCDF T		The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR IndexOf1Hzin20HzMappingOutOfRange T		The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF MissingValueIntOceanExcludingPolarFD2NetCDF Tr		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	Missing Value Int Ocean Net CDF	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				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR 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
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