

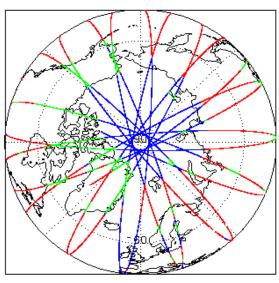
1. Overview

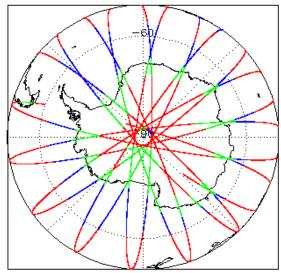
Report Production:	29-Oct-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

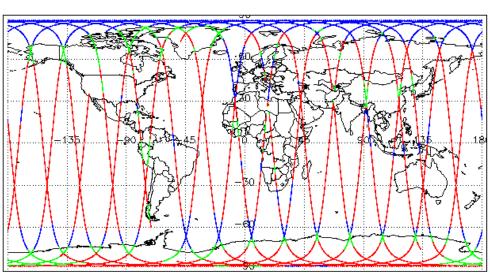
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

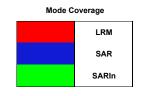
Miss	sion / Instru	ment News
27-	-Sep-2020	None
28-	-Sep-2020	None
29-	-Sep-2020	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

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:

Ω

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: 18

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200928T023149_20200928T024030_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200928T104700_20200928T110124_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200928T154324_20200928T154555_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200928T183812_20200928T184828_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200928T004236_20200928T004259_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200928T022728_20200928T023149_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200928T071522_20200928T071613_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200928T085749_20200928T090033_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200928T121635_20200928T121850_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200928T135301_20200928T135721_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200928T170842_20200928T171248_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200928T221759_20200928T222158_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200928T234033_20200928T234342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200928T030737_20200928T031002_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200928T124625_20200928T124803_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200928T175854_20200928T180144_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200928T190534_20200928T190714_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200928T203747_20200928T203939_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 binary product file (.DBL).

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

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:

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200928T005403_20200928T010947_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054042_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20200928T115737_20200928T121316_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPM_2_20200928T154324_20200928T154555_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_20200928T004729_20200928T004834_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_20200928T013028_20200928T013224_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_20200928T014043_20200928T014230_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_20200928T022643_20200928T022725_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_20200928T022728_20200928T023149_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200928T031002_20200928T031120_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_20200928T045129_20200928T045328_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200928T062915_20200928T063237_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_20200928T063801_20200928T063919_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_20200928T072806_20200928T073132_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_20200928T080814_20200928T081134_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_20200928T085749_20200928T090033_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_20200928T095527_20200928T095657_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_20200928T103833_20200928T103935_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_20200928T113249_20200928T113453_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_20200928T121635_20200928T121850_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_20200928T130304_20200928T130451_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_20200928T131950_20200928T132251_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200928T135301_20200928T135721_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_20200928T145224_20200928T145430_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_20200928T152927_20200928T153544_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_20200928T180145_20200928T180309_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_20200928T194114_20200928T194240_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_20200928T194752_20200928T195054_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_20200928T212126_20200928T212429_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_20200928T212655_20200928T213209_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_20200928T221759_20200928T222158_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200928T230133_20200928T230407_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_20200928T235648_20200928T235803_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_20200928T001853_20200928T002053_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_20200928T004102_20200928T004236_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_20200928T004300_20200928T004446_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_20200928T004446_20200928T004729_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_20200928T022051_20200928T022643_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20200928T040158_20200928T040704_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_20200928T052956_20200928T053050_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_20200928T054043_20200928T054907_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_20200928T071952_20200928T072806_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_20200928T090033_20200928T090830_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_20200928T103935_20200928T104520_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_20200928T121851_20200928T122548_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_20200928T135722_20200928T140243_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_20200928T153545_20200928T154324_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_20200928T171248_20200928T172026_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_20200928T185216_20200928T185847_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_20200928T185847_20200928T190025_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_20200928T203020_20200928T203747_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_20200928T203747_20200928T203940_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_20200928T221212_20200928T221642_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_20200928T221642_20200928T221758_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_20200928T235007_20200928T235515_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20200928T235515_20200928T235647_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 (20Hz)

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

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

Test Failed

- > 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.

0

Number of products with errors:

Product

Description

Co. 2011—28E COPM 2_2000000700169 2000000710169 COD COD FREE SR. COPM 2_2000000700169 200000710169 COD COD FREE SR. COPM 2_2000000700169 COD COD FREE SR. COPM 2_2000	CS_OFFL_SIR_GOPM_2_20200927T235727_20200928T000140_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
or de boossater coulty. OCCO. Inflicite Revy and Missander Revy. 1981. 2 (1992) 1992 (199	CS_OFFL_SIR_GOPM_2_20200928T000417_20200928T001550_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CEL OFFI J. SEC CODE A MIRROR Plantage and Education Closely Flags have based and selection of the process of the control of the process of the control of the cont	CS_OFFL_SIR_GOPM_2_20200928T001606_20200928T001852_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Co. CHIL. SRI, GOPM. 2. 200000001102014 (200000001102014). DOIS Dois Sessenter Charley, COSD Shirted Reviews on Sessenter Charley, COSD Cost Allement Reviews on Sessenter Charley Rep and Sesse	CS_OFFL_SIR_GOPM_2_20200928T002053_20200928T003015_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_DEFL_SIR_GOPM_2_202080201101400_20200201101204_C011 CS_OFFL_SIR_GOPM_2_202080201101400_20200201101204_C011 CS_OFFL_SIR_GOPM_2_202080201101400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_202080201101400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_202080201101400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_202080201101400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_202080201101400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_202080201101400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_2020802011001400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_2020802011001400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_2020802011001400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_2020802011001400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_2020802011001400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_2020802011001400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_2020802011001400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_2020802011001400_202002011001204_C011 CS_OFFL_SIR_GOPM_2_2020802011001404_C011 CS_OFFL_SIR_GOPM_2_2020802011001404_C011 CS_OFFL_SIR_GOPM_2_2020802011001404_C011 CS_OFFL_SIR_GOPM_2_2020802011001404_C011 CS_OFFL_SIR_GOPM_2_2020802011001404_C011 CS_OFFL_SIR_GOPM_2_2020802011001404_C011 CS_OFFL_SIR_GOPM_2_2020802011001404_	CS_OFFL_SIR_GOPM_2_20200928T005019_20200928T005156_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Signor Fig. (GOPML 2 (2000)00001101324 (2000)0001101304 (2001) CB_GFFL_SIR_GOPML 2 (2000)0001101324 (2000)0001101304 (2001) CB_GFFL_SIR_GOPML 2 (2000)0001101304 (2001) CB_GFFL_SIR_GOPML 2 (2000)00011010140 (2000)00011010101010101010101010101010101	CS_OFFL_SIR_GOPM_2_20200928T005403_20200928T010947_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_QOPM_2_202000287902412_20200088702404_C001 CS_OFFL_SIR_QOPM_2_202000287902412_20200088702404_C001 CS_OFFL_SIR_QOPM_2_202000287902414_20200088702404_C001 CS_OFFL_SIR_QOPM_2_202000287902414_2020098702404_C001 CS_OFFL_SIR_QOPM_2_202000287902414_2020098702404_C001 CS_OFFL_SIR_QOPM_2_202000287902414_2020098702404_C001 CS_OFFL_SIR_QOPM_2_202000287902414_2020098702404_C001 CS_OFFL_SIR_QOPM_2_202000287902414_2020098702404_C001 CS_OFFL_SIR_QOPM_2_202000287902414_20200987024006_C001 CS_OFFL_SIR_QOPM_2_202000287902414_20200988704006_C001 CS_OFFL_SIR_QOPM_2_202000287902414_20200988704006_C001 CS_OFFL_SIR_QOPM_2_202000287902424_20200988704909_C001 CS_OFFL_SIR_QOPM_2_202000287903242_20200988704909_C001 CS_OFFL_SIR_QO	CS_OFFL_SIR_GOPM_2_20200928T011456_20200928T012754_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_200000981704412_20000981704042_C001 Allineter Range and Blackscater Caulary, COGA Allineter Range and Blackscater Caulary Flags have been and been controlled to the company of the COGA Allineter Range and Blackscater Caulary Flags and the COGA Allineter Range and Blackscater Caulary Flags and Blackscater Caulary Flags have been and been company of the COGA Allineter Range and Blackscater Caulary Flags and Blackscater Caulary Flags have been and been company of the COGA Allineter Range and Blackscater Caulary Flags have been set for one or none records. CS_OFFL_SIR_GOPM_2_200000981704144_20000981704172_C001 CS_OFFL_SIR_GOPM_2_200000981704144_20000981704172_C001 CS_OFFL_SIR_GOPM_2_200000981704144_20000981704172_C001 CS_OFFL_SIR_GOPM_2_200000981704144_20000981704172_C001 CS_OFFL_SIR_GOPM_2_200000981704144_20000981704172_C001 CS_OFFL_SIR_GOPM_2_20000981704144_20000981704172_C001 CS_OFFL_SIR_GOPM_2_20000981703414_20000981704172_C001 CS_OFFL_SIR_GOPM_2_20000981703414_2000098170551_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704172_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704911_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704911_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704911_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704911_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704044_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704941_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704941_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704941_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704941_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20000981704941_C001 CS_OFFL_SIR_GOPM_2_20000981704044_20001 CS_OFFL	CS_OFFL_SIR_GOPM_2_20200928T013224_20200928T014042_C001		
Seg. OFFL_SIR_GOPM_2_20000928T024124_20000928T034373_C001 Ocean Altimeter Range and Backscatter Country Flags have been and a control of the	CS_OFFL_SIR_GOPM_2_20200928T014406_20200928T015945_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscarter Quality CCOG Allimeter Range and Backscarter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200928T03404_20200928T031908_C001 CS_OFFL_SIR_GOPM_2_20200928T03404_20200928T031908_C001 CS_OFFL_SIR_GOPM_2_20200928T03404_20200928T034908_C001 CS_OFFL_SIR_GOPM_2_20200928T036918_20200928T036961_C001 CS_OFFL_SIR_GOPM_2_20200928T040918_20200928T036961_C001 CS_OFFL_SIR_GOPM_2_20200928T040924_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040924_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040924_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040924_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040924_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040924_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040924_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040928_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040924_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040924_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040928_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040928_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040928_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040928_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T040928_20200928T0400940_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2000928T060945_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2000928T060945_2001 CS_OFFL_SIR_GOPM_2_20200928T050934_2000928T060945_2001 CCS_OFFL_SIR_GOPM_2_20200928T050939_2000928T060945_2001 CCS_OFFL_SIR_GOPM_2_20200928T050939_2000928T060945_2001 CCS_OFFL_SIR_GOPM_2_20200928T050939_2000928T060945_2001 CCS_OFFL_SIR_GOPM_2_20200928T07185_2001 CCS_OFFL_SIR_GOPM_2_20200928T07185_2001 CCS	CS_OFFL_SIR_GOPM_2_20200928T020212_20200928T020424_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_202000281032414_202009281034727_C001 All minter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200028100241_202000281040051_C001 All minter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_202000281040024_202000281040051_C001 CS_OFFL_SIR_GOPM_2_202000281040024_202000281040051_C001 CS_OFFL_SIR_GOPM_2_202000281040024_202000281040051_C001 CS_OFFL_SIR_GOPM_2_202000281040024_202000281040051_C001 CS_OFFL_SIR_GOPM_2_202000281041926_20200928104611_C001 CS_OFFL_SIR_GOPM_2_202000281041926_20200928104611_C001 CS_OFFL_SIR_GOPM_2_202000281041926_20200928104611_C001 CS_OFFL_SIR_GOPM_2_202000281041926_20200928104612_C001 CS_OFFL_SIR_GOPM_2_202000281041926_20200928104612_C001 CS_OFFL_SIR_GOPM_2_20200028104528_20200928104612_C001 CS_OFFL_SIR_GOPM_2_20200028104528_20200928104612_C001 CS_OFFL_SIR_GOPM_2_202000281050251_202009281052954_C001 CS_OFFL_SIR_GOPM_2_202000281050251_202009281052954_C001 CS_OFFL_SIR_GOPM_2_202000281050251_202009281052954_C001 CS_OFFL_SIR_GOPM_2_202000281050251_202009281052954_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281052954_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281052554_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281052554_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281052554_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281052554_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281052554_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281052554_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281052554_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281052554_C001 CS_OFFL_SIR_GOPM_2_20200028105334_202009281054555_C001 CS_OFFL_SIR_GOPM_2_202000281054332_202009281054555_C001 CS_OFFL_SIR_GOPM_2_202000281054332_202009281054555_C001 CS_OFFL_SIR_GOPM_2_202000281054332_202009281054555_C001 CS_OFFL_SIR_GOPM_2_202000281054332_202009281054555_C001 CS_OFFL_SIR_GOPM_2_202000281054332_202009281054555_C001 CS_OFFL_SIR_GOPM_2_202000281054332_2	CS_OFFL_SIR_GOPM_2_20200928T024144_20200928T030737_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200928T035918_20200928T04001_C001 CS_OFFL_SIR_GOPM_2_20200928T040024_20200928T040051_C001 CS_OFFL_SIR_GOPM_2_20200928T050351_20200928T040052_C001 CS_OFFL_SIR_GOPM_2_20200928T050351_20200928T0504042_C001 CS_OFFL_SIR_GOPM_2_20200928T050334_20200928T0540402_C001 CS_OFFL_SIR_GOPM_2_20200928T050334_20200928T0540402_C001 CS_OFFL_SIR_GOPM_2_20200928T050334_20200928T0540402_C001 CS_OFFL_SIR_GOPM_2_20200928T050334_20200928T0540402_C001 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T0540402_C001 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T0540402_C001 CS_OFFL_SIR_GOPM_2_20200928T0540327_20200928T0540403_C001 CS_OFFL_SIR_GOPM_2_20200928T0540323_20200928T064055_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064055_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064055_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_2020092	CS_OFFL_SIR_GOPM_2_20200928T031404_20200928T031908_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20200928T040024_20200928T040051_CO01 CS_OFFL_SIR_GOPM_2_20200928T040024_20200928T040611_CO01 CS_OFFL_SIR_GOPM_2_20200928T040024_20200928T040611_CO01 CS_OFFL_SIR_GOPM_2_20200928T041926_20200928T046811_CO01 CS_OFFL_SIR_GOPM_2_20200928T04528_20200928T045929_CO01 CS_OFFL_SIR_GOPM_2_20200928T04528_20200928T045929_CO01 CS_OFFL_SIR_GOPM_2_20200928T055251_20200928T054954_CO01 CS_OFFL_SIR_GOPM_2_20200928T055251_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T055251_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T054942_CO01 CS_OFFL_SIR_GOPM_2_20200928T0549522_20200928T062443_CO01 CS_OFFL_SIR_GOPM_2_20200928T0549522_20200928T062443_CO01 CS_OFFL_SIR_GOPM_2_20200928T0549523_20200928T062443_CO01 CS_OFFL_SIR_GOPM_2_20200928T063237_20200928T062443_CO01 CS_OFFL_SIR_GOPM_2_20200928T063237_20200928T064555_CO01 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T074952_CO01 CS_OFFL_SIR_GOPM_2_20200928T074932_20200928T074943_CO01 CS_OFFL_SIR_GOPM_2_20200928T074332_20200928T074943_CO01 CS_OFFL_SIR_GOPM_2_20200928T074332_20200928T074943_CO01 CS_OFFL_SIR_GOPM_2_20200928T074332_20200928T074943_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T0769447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T0769447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T0769447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T0769447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T07699447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T07699447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T0969447_CO01 CS_OFFL_SIR_GOPM_2_20200928T	CS_OFFL_SIR_GOPM_2_20200928T032414_20200928T034727_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCGA Altimeter Range and Backscatter Quality Flags have been and the CCGA Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality. CCGA Altimeter Range and Backscatter Quality. CCGA	CS_OFFL_SIR_GOPM_2_20200928T035618_20200928T035951_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altimeter Range Quality, COCG Altimeter Range Quality, COCG Backscatter Quality, COCG CS_OFFL_SIR_GOPM_2_20200928T052251_20200928T052954_CO01 CS_OFFL_SIR_GOPM_2_20200928T050251_20200928T052954_CO01 CS_OFFL_SIR_GOPM_2_20200928T05251_20200928T052954_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054042_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054042_CO01 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054042_CO01 CS_OFFL_SIR_GOPM_2_20200928T05232_20200928T054043_CO01 CS_OFFL_SIR_GOPM_2_20200928T05232_20200928T062443_CO01 CS_OFFL_SIR_GOPM_2_20200928T05232_20200928T063801_CO01 CS_OFFL_SIR_GOPM_2_20200928T063237_20200928T063801_CO01 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_CO01 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T074043_CO01 CS_OFFL_SIR_GOPM_2_20200928T074132_20200928T074043_CO01 CS_OFFL_SIR_GOPM_2_20200928T074132_20200928T074043_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T074043_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T074043_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T074043_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T074043_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T074043_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T074043_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_CO01	CS_OFFL_SIR_GOPM_2_20200928T040024_20200928T040051_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200928T050251_20200928T052954_C001 CS_OFFL_SIR_GOPM_2_20200928T050251_20200928T052954_C001 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054042_C001 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054042_C001 CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T064043_C001 CS_OFFL_SIR_GOPM_2_20200928T055332_20200928T062443_C001 CS_OFFL_SIR_GOPM_2_20200928T063237_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T071613_20200928T071952_C001 CS_OFFL_SIR_GOPM_2_20200928T071613_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T07132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T07132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T07132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T07132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T07132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_	CS_OFFL_SIR_GOPM_2_20200928T041926_20200928T044611_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Flags have been Altimeter Range Ra	CS_OFFL_SIR_GOPM_2_20200928T045328_20200928T045929_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20200928T050251_20200928T052954_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_20200928T063237_20200928T063801_C001 CS_OFFL_SIR_GOPM_2_20200928T063237_20200928T063801_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T071613_20200928T071952_C001 CS_OFFL_SIR_GOPM_2_20200928T071613_20200928T071952_C001 CS_OFFL_SIR_GOPM_2_20200928T071613_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T073132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T081246_20200928	CS_OFFL_SIR_GOPM_2_20200928T053344_20200928T054042_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Gr one or more records. CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001 CS_OFFL_SIR_GOPM_2_20200928T071613_20200928T071952_C001 CS_OFFL_SIR_GOPM_2_20200928T071613_20200928T071952_C001 CS_OFFL_SIR_GOPM_2_20200928T073132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T073132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 Backscatter Quality Gr 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, 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 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records. CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T081466_2020	CS_OFFL_SIR_GOPM_2_20200928T055232_20200928T062443_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_20200928T071613_20200928T071952_C001 CS_OFFL_SIR_GOPM_2_20200928T071613_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T073132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081255_C001 CS_OFFL_SIR_GOPM_2_20200928T081256_2000928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081256_2000928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081256_2000928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081256_2000928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081256_2000928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081256_2000928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081256_2000928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081256_2000928T08	CS_OFFL_SIR_GOPM_2_20200928T063237_20200928T063801_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20200928T073132_20200928T074043_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T081654_C001	CS_OFFL_SIR_GOPM_2_20200928T064213_20200928T064555_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200928T073132_20200928T074043_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T080447_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. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20200928T071613_20200928T071952_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T081654_C001 CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T081654_C001	CS_OFFL_SIR_GOPM_2_20200928T073132_20200928T074043_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20200928T074327_20200928T080447_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20200928T081246_20200928T081654_C001		

CS_OFFL_SIR_GOPM_2_20200928T082224_20200928T083213_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200928T083346_20200928T083829_C001	Altimeter Range and Backscatter Quality 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_20200928T085637_20200928T085710_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_20200928T090831_20200928T094330_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_20200928T094645_20200928T095140_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_20200928T095201_20200928T095527_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_20200928T100240_20200928T103423_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_20200928T104700_20200928T110124_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_20200928T110605_20200928T110659_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_20200928T110713_20200928T112245_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_20200928T112527_20200928T113039_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_20200928T114041_20200928T115302_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_20200928T115737_20200928T121316_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_20200928T121434_20200928T121614_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_20200928T123606_20200928T124625_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_20200928T124805_20200928T130135_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_20200928T130451_20200928T130951_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_20200928T132251_20200928T133145_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_20200928T133526_20200928T134014_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_20200928T134921_20200928T135224_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_20200928T141905_20200928T143955_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_20200928T144525_20200928T144909_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_20200928T145638_20200928T152218_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_20200928T155551_20200928T161936_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_20200928T162308_20200928T162824_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_20200928T162831_20200928T163157_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20200928T172139_20200928T172841_C001 CS_OFFL_SIR_GOPM_2_20200928T172139_20200928T175031_C001 CS_OFFL_SIR_GOPM_2_20200928T173234_20200928T175031_C001 CS_OFFL_SIR_GOPM_2_20200928T17500_20200928T175854_C001 CS_OFFL_SIR_GOPM_2_20200928T17500_20200928T175854_C001 CS_OFFL_SIR_GOPM_2_20200928T180309_20200928T180859_C001 Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20200928T180309_20200928T180859_C001 Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20200928T180309_20200928T180859_C001 Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_GOPM_2_20200928T180309_20200928T180859_C001 Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_GOPM_2_20200928T180309_20200928T180859_C001 Altimeter Range, SSHA, SWH And Backscatter Quality COCOG Altimeter Range and Backscatter Quality Flags have to for one or more records. CS_OFFL_SIR_GOPM_2_20200928T180309_20200928T180805_C001 CS_OFFL_SIR_GOPM_2_20200928T18053_20200928T180805_C001 CS_OFFL_SIR_GOPM_2_20200928T181653_20200928T183803_C001 CS_OFFL_SIR_GOPM_2_20200928T181653_20200928T183803_C001 COCOG Altimeter Range, SSHA, SWH And Backscatter Quality Flags have to for one or more records. COCOG Altimeter Range, SSHA, SWH And Backscatter Quality Flags have to for one or more records. COCOG Altimeter Range, SSHA, SWH And Backscatter Quality Flags have to for one or more records. CS_OFFL_SIR_GOPM_2_20200928T181653_20200928T183803_C001 CS_OFFL_SIR_GOPM_2_20200928T181653_20200928T183803_C001	Flags re been Flags re been
CS_OFFL_SIR_GOPM_2_20200928T173234_20200928T175031_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags has altimeter Range and Backscatter Quality Set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have to for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have to for one or more records. OCOG Altimeter Range, SSHA, SWH The Ocean Altimeter Range and Backscatter Quality Flags have to for one or more records.	Flags re been
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags had the OCOG Altimeter Range and Backscatter Quality Flags had set for one or more records. Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags had set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have to one or more records. OCOG Altimeter Range and Backscatter Quality Flags have to one or more records. OCOG Altimeter Range and Backscatter Quality Flags have to one or more records. OCOG Altimeter Range, SSHA, SWH The Ocean Altimeter Range and Backscatter Quality Flags have to one or more records.	e been
Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality	en set
Altimeter Range and Backscatter Quality set for one or more records.	
Cs_OFFL_SIR_GOPM_2_20200928T183812_20200928T184828_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T190025_20200928T190241_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T192416_20200928T192547_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T192746_20200928T193710_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T194240_20200928T194752_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have to for one or more records.	en set
CS_OFFL_SIR_GOPM_2_20200928T195509_20200928T201606_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality Flags had backscat	
Cs_OFFL_SIR_GOPM_2_20200928T201851_20200928T203020_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T203940_20200928T204217_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	-
CS_OFFL_SIR_GOPM_2_20200928T205217_20200928T205712_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have to for one or more records.	en set
CS_OFFL_SIR_GOPM_2_20200928T205850_20200928T211647_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T213428_20200928T221019_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T222204_20200928T224159_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has been dependent on the color of	
CS_OFFL_SIR_GOPM_2_20200928T224210_20200928T225450_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T230408_20200928T230603_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have to for one or more records.	en set
CS_OFFL_SIR_GOPM_2_20200928T230752_20200928T231107_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have to for one or more records.	en set
CS_OFFL_SIR_GOPM_2_20200928T231340_20200928T232829_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T233032_20200928T234033_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	
CS_OFFL_SIR_GOPM_2_20200928T235803_20200929T000000_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have to for one or more records.	en set
CS_OFFL_SIR_GOPN_2_20200928T000141_20200928T000315_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.	
CS_OFFL_SIR_GOPN_2_20200928T031908_20200928T032145_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags had been set for one or more records.	

CS_OFFL_SIR_GOPN_2_20200928T062915_20200928T063237_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_20200928T134015_20200928T134137_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_20200928T221148_20200928T221212_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200928T032146_20200928T032414_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200928T090033_20200928T090830_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_20200928T124804_20200928T124805_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200928T134137_20200928T134258_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_20200928T163322_20200928T163550_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200928T222158_20200928T222204_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 (20Hz PLRM)

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200928T000141_20200928T000315_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_20200928T003015_20200928T003155_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_20200928T005157_20200928T005403_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_20200928T010947_20200928T011456_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_20200928T014043_20200928T014230_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_20200928T031320_20200928T031404_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_20200928T031908_20200928T032145_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_20200928T044926_20200928T045046_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_20200928T045129_20200928T045328_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_20200928T045929_20200928T050100_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_20200928T054907_20200928T055232_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_20200928T063801_20200928T063919_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_20200928T071058_20200928T071125_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_20200928T072806_20200928T073132_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_20200928T080814_20200928T081134_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_20200928T083829_20200928T084155_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_20200928T085749_20200928T090033_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_20200928T103833_20200928T103935_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_20200928T113249_20200928T113453_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_20200928T121635_20200928T121850_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_20200928T123326_20200928T123606_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_20200928T131950_20200928T132251_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_20200928T135224_20200928T135248_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_20200928T135301_20200928T135721_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_20200928T141329_20200928T141728_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_20200928T144210_20200928T144525_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_20200928T152927_20200928T153544_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_20200928T155222_20200928T155314_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_20200928T162134_20200928T162308_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_20200928T163157_20200928T163321_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_20200928T181101_20200928T181214_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_20200928T184828_20200928T184918_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_20200928T184956_20200928T185202_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_20200928T190241_20200928T190324_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_20200928T191822_20200928T192006_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_20200928T194114_20200928T194240_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_20200928T194752_20200928T195054_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_20200928T212655_20200928T213209_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_20200928T221759_20200928T222158_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_20200928T234033_20200928T234342_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_20200928T001853_20200928T002053_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_20200928T004042_20200928T004049_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_20200928T004446_20200928T004729_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_20200928T012754_20200928T013028_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_20200928T022051_20200928T022643_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_20200928T024031_20200928T024144_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_20200928T030737_20200928T031002_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_20200928T040158_20200928T040704_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_20200928T044611_20200928T044925_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_20200928T050100_20200928T050251_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_20200928T054043_20200928T054907_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_20200928T062443_20200928T062915_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_20200928T071247_20200928T071506_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_20200928T071952_20200928T072806_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_20200928T080448_20200928T080814_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_20200928T081818_20200928T082224_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_20200928T090033_20200928T090830_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_20200928T094331_20200928T094444_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_20200928T095657_20200928T100240_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_20200928T103935_20200928T104520_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_20200928T104528_20200928T104700_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_20200928T112245_20200928T112349_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_20200928T113454_20200928T114041_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_20200928T115421_20200928T115737_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_20200928T121851_20200928T122548_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_20200928T134137_20200928T134258_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_20200928T135722_20200928T140243_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_20200928T140304_20200928T140436_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_20200928T141759_20200928T141905_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_20200928T153545_20200928T154324_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_20200928T161936_20200928T162134_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_20200928T163322_20200928T163550_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_20200928T171248_20200928T172026_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_20200928T181214_20200928T181652_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_20200928T185216_20200928T185847_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_20200928T192547_20200928T192745_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_20200928T193711_20200928T194114_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_20200928T203020_20200928T203747_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_20200928T211648_20200928T212126_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_20200928T213210_20200928T213428_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_20200928T221212_20200928T221642_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_20200928T225451_20200928T230133_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_20200928T232829_20200928T233032_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_20200928T235007_20200928T235515_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_20200928T235515_20200928T235647_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.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

> 1Hz and 1Hz 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 (20Hz)

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 (20Hz, PLRM)

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

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

Number of products with errors:

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

6.1 P2P Product Format Check

6.2 P2P Product Header Analysis

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

Number of products with errors:

0

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

(

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors:

29

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20200927T235609_20200928T004548_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_20200928T004548_20200928T013524_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_20200928T013524_20200928T022503_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_20200928T022503_20200928T031439_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20200928T031439_20200928T040418_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_20200928T040418_20200928T045353_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200928T045353_20200928T054332_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_20200928T054332_20200928T063308_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_20200928T063308_20200928T072247_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_20200928T072247_20200928T081223_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_20200928T081223_20200928T090202_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_20200928T090202_20200928T095137_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_20200928T095137_20200928T104116_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_20200928T104116_20200928T113052_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_20200928T113052_20200928T122031_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200928T122031_20200928T131007_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_20200928T131007_20200928T135946_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200928T135946_20200928T144921_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_20200928T144921_20200928T153900_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_20200928T153900_20200928T162836_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_20200928T162836_20200928T171815_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_20200928T171815_20200928T180751_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_20200928T180751_20200928T185730_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_20200928T185730_20200928T194706_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_220200928T194706_20200928T203644_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_220200928T203644_20200928T212620_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_220200928T212620_20200928T221559_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_20200928T221559_20200928T230535_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200928T235514_20200929T004449_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:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors: 2

P2P Quality Flags (20Hz 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:

P2P Quality Flags (1 Hz & 1Hz 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

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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

Number of products with errors:

P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

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	144	144	2	142	0
SIR_GOPR1B	97	97	0	97	0
SIR_GOPN1B	103	103	5	98	0
SIR_GOPM_2	144	144	92	52	0
SIR_GOPR_2	97	97	24	72	1
SIR_GOPN_2	103	103	41	61	1
SIR_GOP_P2P	29	29	0	27	2

7.1 QCC Errors

Number of QCC reports with errors:

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_GOPN_2	1	1	1	1	1	1					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL		-	-	•	-	-	-
SIR_GOP_2_	2	2	2	2							

Test Description Key:	Fest Description Key:								
Abbreviation	Test name	Details							
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7							
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6							
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7							
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7							
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6							
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7							

7.2 QCC Warnings

Number of QCC reports with warnings

2168

Total	number of	occurrences	of each	warning

	Total named of occurrence of out warming									
	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD		
Ī	SIR_GOPM1B	142	0	0	0	0	0	0		
	SIR_GOPM_2	0	0	39	42	1	39	0		
	SIR_GOPN1B	96	0	0	0	0	0	0		
	SIR_GOPN_2	0	1	9	33	4	24	29		
	SIR_GOPR1B	92	0	0	0	0	0	0		
	SIR_GOPR_2	0	1	33	36	1	33	30		

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	DRPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	35	39	0	0	0	0	29
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	19	0	0	27	0	35	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	17	0	41	0	48	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1E	3 0	0	0	0	0	0	0
SIR_GOPM_2	2 0	0	4	29	0	4	38
SIR_GOPN1E	3 0	0	0	0	0	0	0
SIR_GOPN_2	2 0	32	25	45	55	39	35
SIR_GOPR1E	3 0	0	0	0	0	0	0
SIR GOPR 2	39	0	0	64	42	10	39

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_GOPM1B	0	0	1	1	0	0	0
SIR_GOPM_2	0	4	1	1	0	0	0
SIR_GOPN1B	0	0	0	0	0	45	2
SIR_GOPN_2	34	18	0	0	4	0	0
SIR_GOPR1B	0	0	0	0	0	97	7
SIR_GOPR_2	46	1	0	0	5	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	18	29	29	6	29	17	29

SIR GOP 2 19 29 25 23 29 20 28	
SIR_GOP_Z_ 19 29 20 20 20 20 20 20 2	

I	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	•	
	SIR_GOP_2_	29	19	19	29			

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	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	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
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