

QA4EO Daily Report for GOP data:

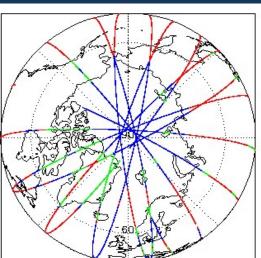
<u>20/06/2022</u>

IDEAS-QA4E0

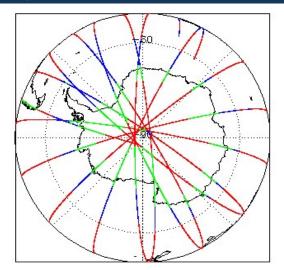
anart Braduction	22-Jul-2022	Check	L1 & L2	P2P
Report Production:	22-Jul-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Useu.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Used:		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.2 and 7.3	See Section 7.2

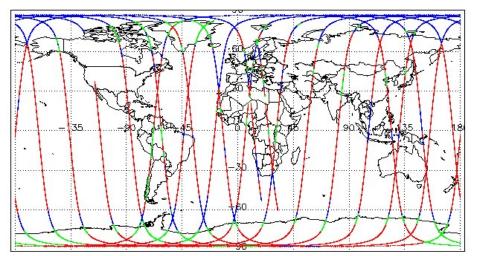
1. Overview

Mission / Instrument News		
19-Jun-2022	None	
20-Jun-2022	SIRAL Unavailability due to orbit manouevre 17:08:21 - 23:07:13	
21-Jun-2022	Nothing planned	









Mode Coverage



3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

0

0

3

Number of products with errors:

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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220620T052611_20220620T052811_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20220620T065553_20220620T070704_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20220620T152140_20220620T152658_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. 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.

15

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220620T041055_20220620T042239_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220620T003041_20220620T003149_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220620T021301_20220620T021708_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220620T053307_20220620T053519_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220620T062813_20220620T063242_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220620T103714_20220620T103738_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220620T144327_20220620T144900_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220620T171324_20220620T171433_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220620T174615_20220620T175118_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220620T085133_20220620T090200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220620T102941_20220620T103714_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220620T134657_20220620T135416_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220620T135416_20220620T135731_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220620T233254_20220620T233340_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). Number of products with errors: 0

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

43

Product	Test Failed	Description
		Description There is an error with the Mean Dynamic Topography (solution 1) for one
CS_OFFL_SIR_GOPM_2_20220620T045623_20220620T050439_C001	Mean Dynamic Topography (1)	or more records
CS_OFFL_SIR_GOPM_2_20220620T164657_20220620T165621_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_20220620T012331_20220620T012750_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_20220620T013330_20220620T013452_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_20220620T021301_20220620T021708_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220620T031110_20220620T031256_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_20220620T035511_20220620T035604_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_20220620T044913_20220620T045135_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_20220620T052926_20220620T053221_C001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOPN_2_20220620T053307_20220620T053519_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220620T061921_20220620T062131_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_20220620T062813_20220620T063242_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_20220620T070949_20220620T071342_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_20220620T071857_20220620T071931_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_20220620T075937_20220620T080211_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_20220620T080930_20220620T081113_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_20220620T094830_20220620T095006_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_20220620T111837_20220620T111954_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_20220620T112527_20220620T112845_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_20220620T121640_20220620T121735_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_20220620T125757_20220620T125915_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_20220620T130423_20220620T130735_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220620T143854_20220620T144130_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_20220620T144327_20220620T144900_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_20220620T153418_20220620T153912_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_20220620T161758_20220620T162035_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_20220620T171324_20220620T171433_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_20220620T174615_20220620T175118_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20220620T003546_20220620T004618_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_20220620T021708_20220620T022504_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_20220620T035604_20220620T040145_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_20220620T053519_20220620T054218_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_20220620T071342_20220620T071857_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_20220620T085133_20220620T090200_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_20220620T102941_20220620T103714_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_20220620T104628_20220620T104822_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_20220620T120716_20220620T121517_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_20220620T121517_20220620T121640_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_20220620T134657_20220620T135416_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_20220620T135416_20220620T135731_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_20220620T152849_20220620T153307_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_20220620T170639_20220620T170917_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_20220620T170917_20220620T171324_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220620T052611_20220620T052811_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20220620T065553_20220620T070704_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20220620T152139_20220620T152658_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

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

70

3

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220620T000111_20220620T000420_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_20220620T003149_20220620T003546_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_20220620T004618_20220620T005719_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_20220620T010005_20220620T012118_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220620T012922_20220620T013330_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_20220620T013750_20220620T014837_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220620T015024_20220620T015742_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_20220620T015833_20220620T020258_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_20220620T021049_20220620T021122_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_20220620T022504_20220620T024501_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_20220620T024503_20220620T030018_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_20220620T030249_20220620T030814_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_20220620T031915_20220620T033145_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_20220620T033202_20220620T034918_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_20220620T035302_20220620T035511_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_20220620T040330_20220620T040946_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_20220620T041055_20220620T042239_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_20220620T042442_20220620T043929_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_20220620T044213_20220620T044711_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_20220620T045623_20220620T050439_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_20220620T051311_20220620T052514_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_20220620T054218_20220620T055313_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_20220620T060408_20220620T061835_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_20220620T062131_20220620T062624_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_20220620T062648_20220620T062658_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_20220620T063416_20220620T065551_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_20220620T065553_20220620T070704_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_20220620T073430_20220620T075536_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_20220620T075615_20220620T075722_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_20220620T080211_20220620T080540_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_20220620T080603_20220620T080930_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_20220620T081245_20220620T084017_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_20220620T091026_20220620T093729_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_20220620T093955_20220620T094455_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_20220620T094502_20220620T094830_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_20220620T095230_20220620T102625_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_20220620T103934_20220620T104515_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_20220620T111144_20220620T111623_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_20220620T111954_20220620T112527_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_20220620T113221_20220620T120716_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_20220620T121818_20220620T121942_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_20220620T122937_20220620T123135_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_20220620T123756_20220620T125454_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_20220620T125915_20220620T130423_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_20220620T131050_20220620T134657_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_20220620T140903_20220620T141332_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_20220620T141419_20220620T143157_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_20220620T144130_20220620T144327_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_20220620T145058_20220620T150501_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_20220620T151228_20220620T152137_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_20220620T153943_20220620T155713_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_20220620T155845_20220620T161248_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_20220620T162035_20220620T162237_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_20220620T162341_20220620T162739_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_20220620T162946_20220620T164456_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_20220620T164657_20220620T165621_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_20220620T172314_20220620T173525_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_20220620T174212_20220620T174614_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_20220620T175118_20220620T175350_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_20220620T175839_20220620T180121_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_20220620T230713_20220620T231156_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_20220620T002825_20220620T002901_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_20220620T121640_20220620T121735_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_20220620T153418_20220620T153912_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_20220620T171538_20220620T171659_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_20220620T233340_20220620T233509_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_20220620T050439_20220620T050459_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_20220620T121735_20220620T121818_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_20220620T150613_20220620T150622_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_20220620T233254_20220620T233340_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

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

64

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20220620T002644_20220620T002737_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_20220620T012331_20220620T012750_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_20220620T013330_20220620T013452_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_20220620T015742_20220620T015833_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_20220620T021122_20220620T021209_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_20220620T021301_20220620T021708_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_20220620T044030_20220620T044213_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_20220620T044913_20220620T045135_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_20220620T050653_20220620T050749_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_20220620T051007_20220620T051311_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_20220620T052926_20220620T053221_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_20220620T053307_20220620T053519_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_20220620T070949_20220620T071342_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_20220620T075937_20220620T080211_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_20220620T080930_20220620T081113_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_20220620T093826_20220620T093955_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_20220620T094830_20220620T095006_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_20220620T105742_20220620T105833_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_20220620T105849_20220620T110223_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_20220620T111837_20220620T111954_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_20220620T112527_20220620T112845_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_20220620T123608_20220620T123756_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_20220620T144327_20220620T144900_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_20220620T162739_20220620T162918_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_20220620T165621_20220620T165901_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_20220620T173525_20220620T173533_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_20220620T173546_20220620T174212_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_20220620T174615_20220620T175118_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_20220620T175621_20220620T175839_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_20220620T232305_20220620T232428_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_20220620T000420_20220620T001003_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_20220620T003546_20220620T004618_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_20220620T012118_20220620T012331_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_20220620T013452_20220620T013750_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_20220620T030018_20220620T030125_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_20220620T031256_20220620T031915_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_20220620T035604_20220620T040145_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_20220620T045135_20220620T045525_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_20220620T052514_20220620T052601_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_20220620T053519_20220620T054218_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_20220620T055553_20220620T060408_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_20220620T071342_20220620T071857_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_20220620T071931_20220620T072049_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_20220620T073406_20220620T073415_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_20220620T085133_20220620T090200_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_20220620T102941_20220620T103714_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_20220620T110834_20220620T111144_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_20220620T120716_20220620T121517_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_20220620T122113_20220620T122412_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_20220620T125454_20220620T125757_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_20220620T130735_20220620T131050_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_20220620T134657_20220620T135416_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_20220620T135416_20220620T135731_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_20220620T135738_20220620T135819_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_20220620T143157_20220620T143854_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_20220620T152658_20220620T152825_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_20220620T152849_20220620T153307_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_20220620T155713_20220620T155845_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_20220620T164456_20220620T164657_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_20220620T170639_20220620T170917_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_20220620T170917_20220620T171324_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_20220620T172010_20220620T172124_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_20220620T231156_20220620T231510_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_20220620T233852_20220620T234151_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

155

52

114

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

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

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

6.1 P2P Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). Number of products with errors: 0

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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

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

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

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

22

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20220619T234949_20220620T003927_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_20220620T003927_20220620T012903_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_20220620T012903_20220620T021841_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220620T021841_20220620T030817_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_20220620T030817_20220620T035756_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_20220620T035756_20220620T044731_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_20220620T044731_20220620T053710_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220620T053710_20220620T062646_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_20220620T062646_20220620T071624_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_20220620T071624_20220620T080600_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_20220620T080600_20220620T085538_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_20220620T085538_20220620T094514_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_220220620T094514_20220620T103453_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_20220620T103453_20220620T112428_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_20220620T112428_20220620T121407_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_20220620T121407_20220620T130343_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_20220620T130343_20220620T135321_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220620T135321_20220620T144257_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_20220620T144257_20220620T153235_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_20220620T153235_20220620T162211_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_20220620T162211_20220620T171149_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_20220620T171149_20220620T180125_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
6.5 P2P Measurement Confidence Data Check		

I

I

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.

3

23

23

23

22

23

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220220620T044731_20220620T053710_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220220620T062646_20220620T071624_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220220620T144257_20220620T153235_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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

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

Number of products with errors:

P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors:

P2P Quality Flags (1 Hz & 1 Hz PLRM)

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

Number of products with errors:

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

Number of products with errors:

P2P Retracking Flags PLRM

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

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

Number of products with errors:

7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	129	128	0	128	0
SIR_GOPR1B	94	92	0	92	0
SIR_GOPN1B	88	86	3	83	0
SIR_GOPM_2	127	127	83	44	0
SIR_GOPR_2	90	90	27	63	0
SIR_GOPN_2	86	86	40	46	0
SIR_GOP_P2P	22	22	0	22	0

7.1 QCC Errors							
Number of QCC reports with errors: 0							
7.2 QCC Warning	gs						
Number of QCC reports with warnings 1761 Total number of occurrences of each warning							
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCE	RBSZOPOEPNCDF
SIR_GOPM1B	128	0	0	0	0	0	0
SIR_GOPM_2 SIR_GOPN1B	0 82	34	35 0	0	35 0	0	29 0
SIR GOPN 2	0	6	27	5	17	21	15
SIR_GOPR1B	88	0	0	0	0	0	0
SIR_GOPR_2	0	27	41	0	30	23	10
Due due 4 True e	RNELPOTONCDF	RPEPOPFDLRMNCDF		RPEPOPFDPLRMSINNCD		RPEPOPFDSINNCDF	RPEPOPLRMNCDF
Product Type SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	1	29	0	0	0	0	24
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	1	0	0	15	0	26	0
SIR_GOPR1B SIR_GOPR_2	04	0	0 45	0	0 50	0	0
01120011122	4	0	43	0	50	0	0
Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	6	22	0	5	30
SIR_GOPN1B SIR_GOPN_2	0	23	0 15	0 30	36	0 25	0 21
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	40	0	2	50	35	6	36
	RSWHOEPFDPLRMNCDF	DOWNOEDNODE	SPHRTASCNSNCDF		SCSTODHRNCDF	CONTORNORS	
Product Type SIR_GOPM1B	0	0	1	SOOHHIFHD 0	0	SCSTODNCDF 0	-
SIR_GOPM_2	0	2	1	0	0	0	
SIR_GOPN1B	0	0	0	0	34	2	
SIR_GOPN_2	21	10	0	1	0	0	
SIR_GOPR1B	0	0	0	0	92	5	
SIR_GOPR_2	43	3	0	0	0	0	
Product Type	IOHHMOOR	MVIOEPFDNCDF	10 005500055	10/10005	RBSZOPOEPFDNCDF		PREZODOEDNODE
		IN TOLL I DITODI	MVIOEPNCDF	MVIONCDF	RBSZUPUEPFDNCDF	RBSZOPOEPFDPLRMNCC	RESZOPOEPNEDF
SIR_GOP_2_	13	22	22	4	22	RBSZOPOEPFDPLRMNCL 14	22
SIR_GOP_2_ Product Type SIR_GOP_2_	13 RNELPOTONCDF 4		22				
Product Type	RNELPOTONCDF	22 RPEPOPFDPLRMSINNCD	22 FRPEPOPFDSINNCDF	4 RPEPOPSINNCDF 17	22 RSSBCONCDF	14 RSSHAOFDNCDF	22 RSSHAOFDPLRMNCDF
Product Type SIR_GOP_2_	RNELPOTONCDF 4	22 RPEPOPFDPLRMSINNCD 14	22 RPEPOPFDSINNCDF 22	4 RPEPOPSINNCDF 17	22 RSSBCONCDF 16	14 RSSHAOFDNCDF	22 RSSHAOFDPLRMNCDF
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_	RNELPOTONCDF 4 RSSHAONCDF	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF	22 RSSBCONCDF 16 SPHLPQWNCDF	14 RSSHAOFDNCDF	22 RSSHAOFDPLRMNCDF
Product Type SIR_GOP_2_ Product Type	RNELPOTONCDF 4 RSSHAONCDF	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF	22 RSSBCONCDF 16 SPHLPQWNCDF	14 RSSHAOFDNCDF	22 RSSHAOFDPLRMNCDF
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key:	RNELPOTONCDF 4 RSSHAONCDF 18	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details	22 RSSBCONCDF 16 SPHLPQWNCDF	14 RSSHAOFDNCDF 22 .	22 RSSHAOFDPLRMNCDF
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the	14 RSSHAOFDNCDF 22 - previous burst counter	22 RSSHAOFDPLRMNCDF 15 -
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation	RNELPOTONCDF 4 RSSHAONCDF 18 Test name	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the	14 RSSHAOFDNCDF 22 .	22 RSSHAOFDPLRMNCDF 15 -
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF tingPolarFD2NetCDF	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be a 'm	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type	14 RSSHAOFDNCDF 22 - previous burst counter	22 RSSHAOFDPLRMNCDF 15 - 70 and 70 degrees
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF dingPolarFD2NetCDF dingPolarNetCDF	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be a 'm The value should not be a 'm	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the iissing value' for surface type iissing value' for surface type	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7	22 RSSHAOFDPLRMNCDF 15 - 70 and 70 degrees
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF JingPolarFD2NetCDF JingPolarNetCDF DF	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be a 'm The value should not be a 'm The value should not be a 'm	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the nissing value' for surface type nissing value' for surface type nissing value' for surface type	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only	22 RSSHAOFDPLRMNCDF 15 70 and 70 degrees 70 and 70 degrees
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF dingPolarFD2NetCDF dingPolarNetCDF	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be a 'm The value should not be a 'm The value should not be a 'm	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the aissing value' for surface type aissing value' for surface type should be between 700 and 7	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7	22 RSSHAOFDPLRMNCDF 15 70 and 70 degrees 70 and 70 degrees
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZen	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF JingPolarFD2NetCDF JingPolarNetCDF DF	22 RPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 v2NetCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the nissing value' for surface type nissing value' for surface type should be between 700 and 7 s should be between 700 and 7 s	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only	22 RSSHAOFDPLRMNCDF 15
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZer RangeBackscatterSigmaZer	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF tingPolarFD2NetCDF tingPolarNetCDF 0F oOPOceanExcludingPolarFD oOPOceanExcludingPolarFD	22 RPEPOPFDSINNCDF 22 RSWH0EPFDPLRMNCDF 14 v2NetCDF v2PLRMNetCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should not be a 'm The value should not be a 'm The value should not be a 'm The value should not be a 'n The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type issing value' for surface type issing value' for surface type should be between 700 and 7 should be between 700 and 7 s	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only for latitudes between -7 0 only for latitudes between -7 0 only for surface to 7500 (or missing) for surface to	22 RSSHAOFDPLRMNCDF 15 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes ype = ocean for latitudes
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZen	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF tingPolarFD2NetCDF tingPolarNetCDF 0F oOPOceanExcludingPolarFD oOPOceanExcludingPolarFD	22 RPEPOPFDSINNCDF 22 RSWH0EPFDPLRMNCDF 14 v2NetCDF v2PLRMNetCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree:	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the hissing value' for surface type hissing value' for surface type should be between 700 and 7 should be between 700 and 7 s	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only 7500 (or missing) for surface to 7500 (or missing	22 RSSHAOFDPLRMNCDF 15 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes ype = ocean for latitudes ype = ocean for latitudes
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZer RangeBackscatterSigmaZer	22	22 RPEPOPFDSINNCDF 22 RSWH0EPFDPLRMNCDF 14 v2NetCDF v2PLRMNetCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The value should not be a 'm The value should not be a 'm The value should not be a 'n The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Non-equilibrium long pe	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the hissing value' for surface type hissing value' for surface type should be between 700 and 7 should be between 700 and 7 s	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only for latitudes between -7 0 only for latitudes between -7 0 only for surface to 7500 (or missing) for surface to	22 RSSHAOFDPLRMNCDF 15 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes ype = ocean for latitudes ype = ocean for latitudes
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPNCDF RNELPOTONCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangeNELPOceanTideOcea	22 RPEPOPFDPLRMSINNCD 14 RSWH0EPFDNCDF 22 DF tingPolarFD2NetCDF tingPolarFD2NetCDF tingPolarNetCDF 0F c0POceanExcludingPolarFD o0POceanExcludingPolarFD o0POceanExcludingPolarNetCDF anNetCDF	22 RPEPOPFDSINNCDF 22 RSWH0EPFDPLRMNCDF 14 v2NetCDF v2PLRMNetCDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degreet: The backscatter sigma zero between -70 an	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the itssing value' for surface type itssing value' for surface type itssing value' for surface type should be between 700 and 7 s should be between 700 and 7 s its occan loading tide height	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only 7500 (or missing) for surface to 7500 (or missing	22 RSSHAOFDPLRMNCDF 15 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes ype = ocean for latitudes ype = ocean for latitudes hd 40mm (or missing) for
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOCDF RBSZOPOEPFDDNCDF RBSZOPOEPFDDNCDF RBSZOPOEPFDDNCDF RNELPOTONCDF RPEPOPFDLRMNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZer	22 RPEPOPFDPLRMSINNCD 14 RSWH0EPFDNCDF 22 DF dingPolarFD2NetCDF dingPolarNetCDF oOPOceanExcludingPolarFD anNetCDF olarOPFD2LRMNetCDF	22 RPEPOPFDSINNCDF 22 RSWH0EPFDPLRMNCDF 14 P2NetCDF P2PLRMNetCDF 4CDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Non-equilibrium long pe surface type = ocean The Packiness should be be 70 degrees	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type issing value' for surface type issing value' for surface type should be between 700 and 7 s should be between 700 and 7 s too cean loading tide height tween 0 and 6400 (or missing	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only for latitudes between -7 0 only for latitudes between -7 0 only 7500 (or missing) for surface to 7500 (or missing) for surface to should be between -40mm ar 1) for surface type = ocean for	22 RSSHAOFDPLRMNCDF 15 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes ind 40mm (or missing) for latitudes between -70 and
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPNCDF RNELPOTONCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZer	22 RPEPOPFDPLRMSINNCD 14 RSWH0EPFDNCDF 22 DF tingPolarFD2NetCDF tingPolarFD2NetCDF tingPolarNetCDF 0F c0POceanExcludingPolarFD o0POceanExcludingPolarFD o0POceanExcludingPolarNetCDF anNetCDF	22 RPEPOPFDSINNCDF 22 RSWH0EPFDPLRMNCDF 14 P2NetCDF P2PLRMNetCDF 4CDF	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Non-equilibrium long pe surface type = ocean The Packiness should be be 70 degrees	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type issing value' for surface type issing value' for surface type should be between 700 and 7 s should be between 700 and 7 s too cean loading tide height tween 0 and 6400 (or missing	14 RSSHAOFDNCDF 22	22 RSSHAOFDPLRMNCDF 15 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes ype = ocean for latitudes ype = ocean for latitudes ind 40mm (or missing) for latitudes between -70 and
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPRCDF RBSZOPOEPFDNCDF RBSZOPOEPFDDLRM NCDF RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCOF RPEPOPFDLRMSAR NCOF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangePackinessExcludingPe RangePeakinessExcludingPe	22 RPEPOPFDPLRMSINNCD 14 RSWH0EPFDNCDF 22 DF dingPolarFD2NetCDF dingPolarNetCDF oOPOceanExcludingPolarFD anNetCDF olarOPFD2LRMNetCDF	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Non-equilibrium long pe surface type = ocean The Peakiness should be be 70 degrees The Peakiness should be be 70 degrees	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the hissing value' for surface type hould be between 700 and 7 his hould be between 700 a	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only for latitudes between -7 0 only for latitudes between -7 0 only 7500 (or missing) for surface to 7500 (or missing) for surface to should be between -40mm ar 1) for surface type = ocean for	22 RSSHAOFDPLRMNCDF 15
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPFCDF RBSZOPOEPFDDLRM NCDF RNELPOTONCDF RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSINN CDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangePackinessExcludingPa RangePeakinessExcludingPa RangePeakinessExcludingPa	22 RPEPOPFDPLRMSINNCD 14 RSWHOEPFDNCDF 22 DF dingPolarFD2NetCDF dingPolarFD2NetCDF oOPOceanExcludingPolarFD oOPOc	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Packiness should be be 70 degrees	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the hissing value' for surface type hissing value' for surface	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only for latitudes between -7 0 only 7500 (or missing) for surface to 7500 (or missing) for surface to should be between -40mm ar 1) for surface type = ocean for g) for surface type = ocean for	22 RSSHAOFDPLRMNCDF 15
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRM NCDF RRELPOTONCDF RPEPOPFDLRMSAR NCDF RPEPOPFDLRMSAR NCDF RPEPOPFDLRMSAR NCDF RPEPOPFDLRMSAR NCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZer RangeBackscatter RangeBackscatt	22	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The Non-equilibrium long pesufface type = ocean The Peakiness should be be 70 degrees	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type issing value' for surface type issing value' for surface type should be between 700 and 7 should be between 700 and 7 should be between 700 and 7 s tween 0 and 6400 (or missin tween 0 and 90000 (or missin tween 0 and 90000 (or missin tween 0 and 90000 (or missin	14 RSSHAOFDNCDF 22	22 RSSHAOFDPLRMNCDF 15
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRM NCDF RRELPOTONCDF RRELPOTONCDF RPEPOPFDLRMSAR NCDF RPEPOPFDLRMSAR NCDF RPEPOPFDLRMSAR NCDF RPEPOPFDLRMSAR NCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangePackinessExcludingPa RangePeakinessExcludingPa RangePeakinessExcludingPa	22	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The Non-equilibrium long pesufface type = ocean The Peakiness should be be 70 degrees	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type issing value' for surface type issing value' for surface type should be between 700 and 7 should be between 700 and 7 should be between 700 and 7 s tween 0 and 6400 (or missin tween 0 and 90000 (or missin tween 0 and 90000 (or missin tween 0 and 90000 (or missin	14 RSSHAOFDNCDF 22	22 RSSHAOFDPLRMNCDF 15
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPRCDF RBSZOPOEPFDDLCM NCDF RBSZOPOEPFDDLRM NCDF RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSINN CDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZer RangeBackscatter RangeBackscatt	22	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The Non-equilibrium long pe surface type = ocean The Peakiness should be be 70 degrees The Peakiness s	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type issing value' for surface type issing value' for surface type should be between 700 and 7 should be between 700 and 7 s should be between 700 and 7 s tween 0 and 15000 (or missin tween 0 and 15000 (or missin tween 0 and 90000 (or missin tween 0 and 90000 (or missin	14 RSSHAOFDNCDF 22	22 RSSHAOFDPLRMNCDF 15 70 and 70 degrees 70 a
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPRCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RNELPOTONCDF RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDLRMSAR RCF RPEPOPFDSARNCDF RPEPOPFDSARNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZen RangePeakinessExcludingPa RangePeakinessExcludingPa RangePeakinessExcludingPa RangePeakinessExcludingPa	22	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degreet The backscatter sigma zero between -70 and 70 degrees The Peakiness should be be 70 degrees The Peakines should be be 70 degrees The Peakines should be be 70 degrees The Peakines should be be 70 degrees 70 deg	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the hissing value' for surface type hissing value' for surface	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only for latitudes between -7 0 only for latitudes between -7 0 only 7500 (or missing) for surface to 7500 (or missing) for surface to 7500 (or missing) for surface to 10 for surface type = ocean for 11 for surface type = ocean for 12 for surface type = ocean for 13 for surface type = ocean for 14 for surface type = ocean for 19 for surface type = ocean for 10 for 10 for surface type = ocean for 10 for 10 for surface type = ocean for 10	22 RSSHAOFDPLRMNCDF 15
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDDLRM NCDF RBSZOPOEPNCDF RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSINN COF RPEPOPFDLRMSINN COF RPEPOPFDSINNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExclud MissingValueIntOceanExclud MissingValueIntOceanExclud MissingValueIntOceanExclud MissingValueIntOceanExclud RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangePackinessExcludingPd RangePeakinessExcludingPd RangePaakinessExcludingPd Ra	22	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The Non-equilibrium long pe surface type = ocean The Peakiness should be be 70 degrees The Peakiness s	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the aissing value' for surface type aissing value type aissing value type aissing value type ai	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only for surface type = ocean for 10 for surface type = ocean for 11 for surface type = ocean for 12 for surface type = ocean for 13 for surface type = ocean for 14 for surface type = ocean for 15 for surface	22 RSSHAOFDPLRMNCDF 15 O and 70 degrees 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes ind 40mm (or missing) for latitudes between -70 and or latitudes between -70 and or latitudes between -70 and or latitudes between -70 and in latitudes between -70
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RRELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDSARNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZen RangePeakinessExcludingPa RangePeakinessExcludingPa RangePeakinessExcludingPa RangePeakinessExcludingPa	22	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The Non-equilibrium long pe surface type = ocean The Peakiness should be be 70 degrees The Peakiness s	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the aissing value' for surface type aissing value type aissing value type aissing value type ai	14 RSSHAOFDNCDF 22 revious burst counter 0 only for latitudes between -7 0 only for surface to 1,7500 (or missing) for surface to 1,90 for surface type = ocean for 1,90 fo	22 RSSHAOFDPLRMNCDF 15 O and 70 degrees 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes and 40mm (or missing) for latitudes between -70 and or latitudes between -70 and or latitudes between -70 and or latitudes between -70 and and and latitudes between -70 and and and latitudes between -70
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSINN CDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPSINNCDF RPEPOPSINNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangePeakinessExcludingPe	22	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degreet The backscatter sigma zero between -70 and 70 degreet The backscatter sigma zero between -70 and 70 degreet The backscatter sigma zero between -70 and 70 degreet The backscatter sigma zero between -70 and 70 degreet The backscatter sigma zero between -70 and 70 degreet The backscatter sigma zero between -70 and 70 degreet The Packiness should be be 70 degrees The Peakiness should be 70 degrees The Peakiness should be 70 degrees The Peakiness should be 70 degrees The Peakines 70 degrees 70 degrees 70 degrees 70 degrees 70	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the hissing value' for surface type hissing value type hissing value type hissing value type hi	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only for latitudes between -7 0 only for latitudes between -7 0 only 7500 (or missing) for surface to 7500 (or missing) for surface to 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	22 RSSHAOFDPLRMNCDF 15
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSINN CDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFLRMNCDF RPEPOPFLRMNCDF RPEPOPFDRSRNCDF RPEPOPSARNCDF RPEPOPSARNCDF RPEPOPSARNCDF RPEPOPSARNCDF RPEPOPSINNCDF RPEPOPSINNCDF RPEPOPSINNCDF RPEPOPSINNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20H2NetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangePeakinessExcludingPe	22	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	A RPEPOPSINNCDF 17 RSWHOEPNCDF 11 T In Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Non-equilibrium long pe surface type = ocean The Peakiness should be be 70 degrees The Peakines 70 degrees The Peakines	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the itssing value' for surface type itssing value for surface type	14 RSSHAOFDNCDF 22	22 RSSHAOFDPLRMNCDF 15 O and 70 degrees 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes and 40mm (or missing) for latitudes between -70 and or lat
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPNCDF RREPOPFDLRMNCDF RPEPOPFDLRMSINN CDF RPEPOPFDLRMSINN CDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPSARNCDF RPEPOPSARNCDF RPEPOPSINNCDF RSSBCONCDF RSSBCONCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangePeakinessExcludingPe	22	22 REPEPOPFDSINNCDF 22 RSWHOEPFDPLRMNCDF 14 P2NetCDF 22 PLRMNetCDF 4CDF 4CDF 4F	A RPEPOPSINNCDF 17 RSWHOEPNCDF 11 T In Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degrees The backscatter sigma zero between -70 and 70 degrees The Non-equilibrium long pe surface type = ocean The Peakiness should be be 70 degrees The Peakines 70 degrees The Peakines	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the itssing value' for surface type itssing value for surface type	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 0 only for latitudes between -7 0 only for latitudes between -7 0 only 7500 (or missing) for surface to 7500 (or missing) for surface to 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	22 RSSHAOFDPLRMNCDF 15 O and 70 degrees 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees 70 and 70 degrees ype = ocean for latitudes and 40mm (or missing) for latitudes between -70 and or lat
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF WVIOEPFDNCDF WVIOEPFDNCDF WVIOEPCDF WVIOEPCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMSINN CDF RPEPOPFDLRMSINN CDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPSARNCDF RPEPOPSARNCDF RPEPOPSINNCDF RPEPOPSINNCDF RPEPOPSINNCDF RSSBCONCDF RSSBCONCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangePaakinessExcludingPe RangePeakinessExcludingPe RangePaakinessExcludingPe RangePeakinessExcludingPe Range	22	22 RSWHOEPFDPLRMNCDF 2 2 2 2 2 2 2 2 2 2 2 2 2	4 RPEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The Non-equilbrium long pe surface type = ocean The Peakiness should be be 70 degrees The Peakiness should be	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type issing value' for surface type issing value' for surface type should be between 700 and 7 s tween 0 and 16000 (or missin tween 0 and 15000 (or missin tween 0 and 90000 (or missin	14 RSSHAOFDNCDF 22	22 RSSHAOFDPLRMNCDF 15 O and 70 degrees 70 and 70 degrees 90 e ocean for latitudes 90 e ocean -70 and 90 r latitudes between -70 and 90 r latitudes between -70 and 90 r latitudes between -70 and 91 for surface type = ocean 91 for surface type = ocean 91
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPSARNCDF RPEPOPSARNCDF RPEPOPSARNCDF RPEPOPSARNCDF RSSBCONCDF RSSHAOFDNCDF RSSHAOFDNCDF RSSHAOFDNCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc RangeBackscatterSigmaZen RangeBackscatterSigmaZen RangePeakinessExcludingPe Ra	22	22 RSWHOEPFDPLRMNCDF 2 2 2 2 2 2 2 2 2 2 2 2 2	A PEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degrees The Deakiness should be be 70 degrees The Peakiness should be be 70 degrees	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type issold be between 700 and 7 s should be between 700 and 7 s should be between 700 and 7 s tween 0 and 15000 (or missin tween 0 and 15000 (or missin tween 0 and 15000 (or missin tween 0 and 90000 (or mis	14 RSSHAOFDNCDF 22 previous burst counter 0 only for latitudes between -7 500 (or missing) for surface ty 7500 (or missing) for surface ty 1500 (or missing) for surface type = ocean for 19) for surface type = ocean for 10) for surfac	22 RSSHAOFDPLRMNCDF 15
Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF WVIOEPFDNCDF WVIOEPFDNCDF WVIOEPCDF WVIOEPCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMSINN CDF RPEPOPFDLRMSINN CDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPSARNCDF RPEPOPSARNCDF RPEPOPSINNCDF RPEPOPSINNCDF RPEPOPSINNCDF RSSBCONCDF RSSBCONCDF	RNELPOTONCDF 4 RSSHAONCDF 18 Test name BurstCounterStep20HzNetC MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanExcluc MissingValueIntOceanNetCE RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangeBackscatterSigmaZer RangePaakinessExcludingPe RangePeakinessExcludingPe RangePaakinessExcludingPe RangePeakinessExcludingPe Range	22	22 RSWHOEPFDPLRMNCDF 2 2 2 2 2 2 2 2 2 2 2 2 2	A PEPOPSINNCDF 17 RSWHOEPNCDF 11 Details The burst counter should be The value should not be a 'm The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degree: The backscatter sigma zero between -70 and 70 degrees The Packiness should be be 70 degrees 70 degrees 70 degrees 70 degrees 70 degrees 70 degres	22 RSSBCONCDF 16 SPHLPQWNCDF 22 one higher with regard to the issing value' for surface type issold be between 700 and 7 s should be between 700 and 7 s should be between 700 and 7 s tween 0 and 15000 (or missin tween 0 and 15000 (or missin tween 0 and 15000 (or missin tween 0 and 90000 (or mis	14 RSSHAOFDNCDF 22	22 RSSHAOFDPLRMNCDF 15

RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_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				

Number of products with missing QCC reports:

5