

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

<u>22/07/2022</u>

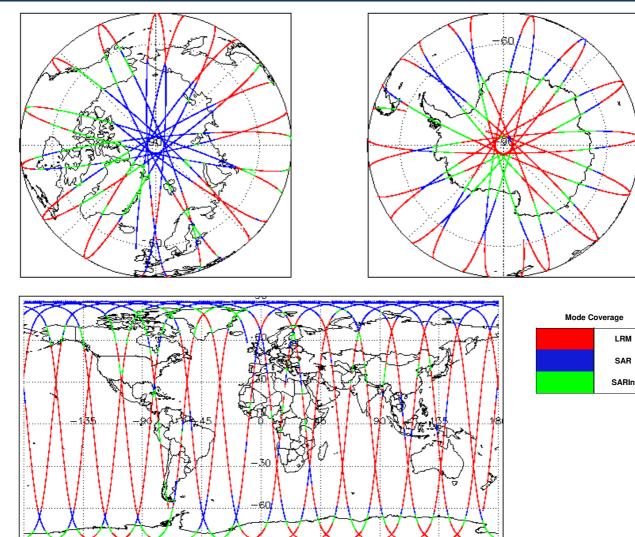
# IDEAS-QA4E0

an art Draduation.	00 1.00 0000	Check	L1 & L2	P2P
Report Production:	22-Aug-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrueSet Ocean Brasseer	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Useu:	L1B, L2 & P2P Science Data	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	See Section 7.2 and 7.3

1. Overview

1	Mission / Instru	iment News
	21-Jul-2022	None
	22-Jul-2022	None
	23-Jul-2022	Nothing planned





## 3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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

4. GOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any incon	sistencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The 11b proc flag hr flag is currently set all L1B	GOPR and GOPN products beca	use 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: 0		
4.3 L1B Auxilary Data File Usage Check		
	determine of the section of states the	al a la tha an 11 dha a' tha an Data Etha i a anns a'
Each product is checked for missing Data Set Descriptors with respect to a pre-	determined baseline and also to (	check the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
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 indicate	s any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measurement	ant record. The bit value of this fla	a indicates any problems when set
Attitude Correction Missing: This flag is currently set in error for GOPR produ		
Number of products with errors: 1		This is being investigated and will be updated in the next SW update.
Number of products with errors.		
Product	Test Failed	Description There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_GOPM1B_20220722T194758_20220722T195022_C001	Power scaling error	records
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement record.	The hit value of this flag indicates	s any problems when set
Loss of Echo Flag: This flag is currently set for some products over land, but the	-	s any problems when set.
	nis is to be expected.	
Number of products with errors: 19		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220722T030504_20220722T031955_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220722T142332_20220722T143516_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220722T014111_20220722T014215_C001 CS_OFFL_SIR_GOPN1B_20220722T032019_20220722T032111_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS OFFL SIR GOPN1B 20220722T032320 20220722T032535 C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220722T042626_20220722T043027_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220722T045904_20220722T050408_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220722T081514_20220722T081930_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220722T123340_20220722T123853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220722T132445_20220722T132735_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220722T154139_20220722T154156_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220722T154319_20220722T154926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220722T164329_20220722T164515_C001 CS_OFFL_SIR_GOPN1B_20220722T191359_20220722T191639_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
5. GO	P Level 2 Data Qua	lity Check
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to er	nsure it consists of both an XML h	neader 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 incon	sistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0		
5.3 L2 Auxiliary Data File Usage Check		
	determined baseline and also to	shock the validity of Auvilian Data Files is correct
Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0		check the validity of Auxiliary Data Files is correct.
5.4 L2 Auxiliary Correction Error Check		
For all products, the auxiliary corrections within the Geophysical Group are chec	ked for the default error value (32	2767).
Currently, there are some common auxiliary correction errors raised in the followed by a table highlighting any additional issues that may arise from		ected, due to surface type. All common flags are summarised in the list below,
> ECMWF Meteo Corrections: Currently the following corrections are not comp		Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric
		(CRYO-COP-3) and will be resolved in a future IPF update. The affected products are
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for p	products over sea ice, but this is t	to be expected.
> Altimetric Wind Speed Error: The error value is currently set for products ov	ver land and sea ice, but this is to	be expected.
Number of products with errors: 61		
Product	Test Failed	Description

		Description
CS_OFFL_SIR_GOPM_2_20220722T030504_20220722T031955_C001	Mean Sea Surface (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 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_GOPM_2_20220722T065152_20220722T065239_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20220722T170326_20220722T172350_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20220722T181338_20220722T181419_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_20220722T000440_20220722T000718_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_GOPN_2_20220722T010222_20220722T010347_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T014111_20220722T014215_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_20220722T014517_20220722T014620_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T023937_20220722T024138_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T032320_20220722T032535_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T042626_20220722T043027_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220722T045904_20220722T050408_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_20220722T055901_20220722T060114_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_20220722T063654_20220722T064232_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_20220722T081514_20220722T081930_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220722T090828_20220722T090952_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_20220722T095653_20220722T095851_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_20220722T104759_20220722T104925_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_20220722T105438_20220722T105740_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T122804_20220722T123110_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_20220722T123340_20220722T123853_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T132445_20220722T132735_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220722T140819_20220722T141053_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T150331_20220722T150448_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T150654_20220722T150938_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220722T154319_20220722T154926_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T164300_20220722T164327_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T164329_20220722T164515_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_20220722T172539_20220722T172722_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T182225_20220722T182710_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T191359_20220722T191640_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T204502_20220722T204852_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T213306_20220722T213346_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220722T214604_20220722T214732_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

CS_OFFL_SIR_GOPN_2_20220722T222443_20220722T222758_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T223311_20220722T223429_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_20220722T231544_20220722T231613_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20220722T000718_20220722T001455_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_20220722T014620_20220722T015328_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T032536_20220722T033116_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T050409_20220722T050931_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T064232_20220722T065041_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T065041_20220722T065152_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_20220722T081930_20220722T082711_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T095851_20220722T100533_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T100533_20220722T100801_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T113723_20220722T114433_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T114433_20220722T114639_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T131856_20220722T132329_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T132329_20220722T132445_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T143516_20220722T143652_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_20220722T145653_20220722T150205_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T150205_20220722T150331_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T163838_20220722T164300_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T181420_20220722T181424_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (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:
1

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220722T194758_20220722T195022_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.

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220722T001456_20220722T005019_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
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	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_20220722T010927_20220722T014058_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_20220722T014247_20220722T014516_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_20220722T015328_20220722T020807_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_20220722T021248_20220722T021347_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_20220722T021358_20220722T022954_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_20220722T023210_20220722T023725_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_20220722T024735_20220722T030107_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_20220722T030504_20220722T031955_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_20220722T034247_20220722T035308_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_20220722T035448_20220722T040838_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_20220722T041135_20220722T041637_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_20220722T041644_20220722T041655_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_20220722T043027_20220722T043755_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_20220722T044211_20220722T044700_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_20220722T044944_20220722T045531_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_20220722T052548_20220722T054704_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_20220722T055209_20220722T055554_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_20220722T055616_20220722T055900_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_20220722T060308_20220722T063027_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_20220722T070244_20220722T072646_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_20220722T072951_20220722T073509_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_20220722T073516_20220722T073842_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_20220722T074235_20220722T081513_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_20220722T082847_20220722T082955_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_20220722T083809_20220722T083824_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_20220722T084813_20220722T085746_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_20220722T090143_20220722T090612_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

SIPEL BR. BORN 2.2000702700223.200071210000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20220722T090952_20220722T091747_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CH       DHS       SHR       GDM       SHR       SH	CS_OFFL_SIR_GOPM_2_20220722T092252_20220722T095509_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
<ul> <li>Cit. OFTL SITL COVAL 2022/0721110303. 20201727110303. COVID 312000000000000000000000000000000000000</li></ul>	CS_OFFL_SIR_GOPM_2_20220722T100801_20220722T100924_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DC DTL SIRL COMM 2. ADMONTON TORIST. 2000/221110302. DOID 1010000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20220722T103526_20220722T104409_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB: 0FH_SB: 00PW_2_0020721110318_002072110318_00	CS_OFFL_SIR_GOPM_2_20220722T104925_20220722T105438_C001		
C5: OFFL 5IR 00PW 2 30220722113235 2022722113235 2022722113435 C001     ave Buekastle Cushy, CCC0 Maintee Page on Blockastle Cushy, CCC0 Allineter Page on Blockastle Cushy, CCC0 and the CCC Allineter Page SIAL SWH or ECC ANALY Page SIAL SWH ANALY Page	CS_OFFL_SIR_GOPM_2_20220722T110135_20220722T112253_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB: OFFL SIR. GOPM 2 202072711409 202072711409.0001     Mathaware impained Baskacater Cualty Code Mathaware impained Baskacater Cu	CS_OFFL_SIR_GOPM_2_20220722T112538_20220722T113722_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Displant         Displant         Ist one in more models           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty Flags         The Ocean Attention Range and Basecatter Quarty Flags           Displant         Costin Attention Range and Basecatter Quarty F	CS_OFFL_SIR_GOPM_2_20220722T114639_20220722T114935_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C65_OFFL_SIR_GOPM_2_20220722112155_20220722112140_001         and Beakeatter Quality CoOd and Kineter Range and Beakeatter Quality Flags have been Affanter Range and Beakeatter Quality Flags have been Affanter Range and Beakeatter Quality Flags have been and Beakeatter Quality CoOd Affanter Range and Beakeatter Quality Flags have been and Beakeatter Quality Cood Affanter Range and Beakeatter Quality Flags have been and Beakeatter Quality Cood Affanter Range and Beakeatter Quality Flags have been and Docan Attracter Range Quality Cood Affanter Range Additional Cood Affanter Range Additionacoo Affanter Range Additional Cood Affanter Range Addit	CS_OFFL_SIR_GOPM_2_20220722T115903_20220722T120348_C001		
CB_OFFL_SIR_GOPM_2_20220722T12332_0220722T12330_0020722T123340_0001       and Backstanther Quality, COCG       and the COCG Altimeter Range and Backstanther Quality Flags have been set         CB_OFFL_SIR_GOPM_2_20220722T123110_0020722T123340_0001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH         CB_OFFL_SIR_GOPM_2_20220722T12110_0020722T123110_0020722T123110_0020722T123110_0020722T123110_0020722T123110_0020722T123110_0020722T123110_0020722T123110_0020722T123110_0020722T123110_0020722T131110_0020722T13110_0020	CS_OFFL_SIR_GOPM_2_20220722T120537_20220722T121145_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Des. DFPL_SRI_GOPM_2.202207221194105_30220722119117_C001     Backscatter Qualty     ter one or more records     Cosen Aftimeter Range. SSHA, SWH and Backscatter Qualty Flags and Backscatter Qualty     Casen Aftimeter Range and Backscatter Qualty     Flags and Backscatter Qualty     Casen Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qualty     Flags     and the OCGO Aftimeter Range and Backscatter Qual	CS_OFFL_SIR_GOPM_2_20220722T121332_20220722T122400_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_2022722T142105_20220722T151117_C001       and Badsscatter Quality COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange and Badsscatter Quality Flags have been at the COCGA Alimeter Pange Alimeter Pange Alimeter Pange Alime	CS_OFFL_SIR_GOPM_2_20220722T123110_20220722T123340_C001		
CS_OFFL_SIR_GOPM_2_202207221131210_002207221131718_C001       and Backscatter Quality_COCO Allimeter Range and Backscatter Quality_Flags have been Allimeter Range. SSHA_SWH and Backscatter Quality_COCO Allimeter Range and Backscatter Quality_COCO Allimeter Range and Backscatter Quality_COCO Allimeter Range and Backscatter Quality_Flags have been attro core or more records         CS_OFFL_SIR_GOPM_2_202207221141146_002207221141753_C001       OCGA Alimeter Range Quality_COCO Backscatter Quality_COCO Alimeter Range and Backscatter Quality_Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722114202_002207221141753_C001       OCGA Alimeter Range Quality_COCO Backscatter Quality_Flags Alimeter Range SSHA_SWH and Backscatter Quality_Flags Alimeter Range SSHA_SWH and Backscatter Quality_Flags Alimeter Range and Backscatter Quality_Flags and backscatter Quality_COCO Alimeter Range and Backscatter Quality and backscatter Quality_Flags and backscatter Quality_COCO Alimeter Range and Backscatter Quality_Flags and backscatter Quality_COCO Alimeter Range ASHA_SWH and Backscatter Quality_COCO Alimeter Range ASHA_SWH and Backscatter Quality_Flags have been set for	CS_OFFL_SIR_GOPM_2_20220722T124105_20220722T131117_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220722T142399_20220722T141753_C001       and Backscatter Quality. COCG Allimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T141446_20220722T141753_C001       COCG Allimeter Range Quality. COCG Backscatter Quality       The OCCG Allimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T142020_20220722T142322_C001       Cocean Altimeter Range, SSHA, SWH Allimeter Range and Backscatter Quality. COCG Altimeter Range and Backscatter Quality Flags have been and backscatter Quality. COCG Altimeter Range and Backscatter Quality. Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T142332_20220722T142332_20220722T143516_C001       Cocean Altimeter Range, SSHA, SWH and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. Flags have been and backscatter Quality. COCG Altimeter Range. SHA, SWH and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. Flags have been and backscatter Quality. COCG Altimeter Range. SHA, SWH and Backscatter Quality. Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T155294_20220722T155296_20220722T155296_20220722T155296_20220	CS_OFFL_SIR_GOPM_2_20220722T131120_20220722T131718_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220722T142329_0001         Backscatter Quality         for one or more records           GS_OFFL_SIR_GOPM_2_20220722T142329_0001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records           CS_OFFL_SIR_GOPM_2_20220722T15526_2020722T15526_C001         OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records           CS_OFFL_S	CS_OFFL_SIR_GOPM_2_20220722T132909_20220722T140122_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220722T142030_20220722T142032_0020722T142032_0020722T142032_0020722T142032_0020722T142032_0020722T142032_0020722T142032_0020722T142016_001       and Backscatter Quality GOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at for one or more records         CS_OFFL_SIR_GOPM_2_20220722T15926_0220722T155209_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been ast for one or more records       The OCOG Altimeter Range and Backscatter Quality Flags have been ast for one or more records         CS_OFFL_SIR_GOPM_2_20220722T15526_0220722T15526_0201       OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been ast for one or more records       The OCOG Altimeter Range and Backscatter Quality Flags have been ast for one or more records         CS_OFFL_SI	CS_OFFL_SIR_GOPM_2_20220722T141446_20220722T141753_C001		
CS_OFFL_SIR_GOPM_2_20220722T142332_20220722T143516_C001       and Backscatter Quality       and Backscatter Quality       and the OCGA Altimeter Range and Backscatter Quality Flags have been         CS_OFFL_SIR_GOPM_2_20220722T143719_20220722T144749_C001       Ocean Altimeter Range, SHA, SWH and Backscatter Quality OCGA Altimeter Range and Backscatter Quality OCGA Altimeter Range and Backscatter Quality COGA Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality COGA Altimeter Range, SHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality COGA Altimeter Range, SHA, SWH and Backscatter Quality Flags have been and Backscatter	CS_OFFL_SIR_GOPM_2_20220722T142020_20220722T142329_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220722T143719_20220722T144749_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T150938_20220722T152556_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T155226_20220722T155256_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_20220722T155226_20220722T155256_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T155949_20220722T161343_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T161522_20220722T161806_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, ASHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocea	CS_OFFL_SIR_GOPM_2_20220722T142332_20220722T143516_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220722T150938_20220722T152556_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality       File OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T154926_20220722T155209_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_20220722T155226_20220722T155655_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_20220722T155949_20220722T161343_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, COOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T161522_20220722T161343_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags hard backscatter Quality         CS_OFFL_SIR_GOPM_2_20220722T161522_20220722T161806_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA	CS_OFFL_SIR_GOPM_2_20220722T143719_20220722T144749_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220722T155226_20220722T155205_C001       Backscatter Quality       for one or more records         CS_OFFL_SIR_GOPM_2_20220722T155226_20220722T155655_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_20220722T155949_20220722T161343_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have b	CS_OFFL_SIR_GOPM_2_20220722T150938_20220722T152556_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220722T155245_20220722T155949_20220722T161343_C001       Backscatter Quality       for one or more records         CS_OFFL_SIR_GOPM_2_20220722T155949_20220722T161343_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T161522_20220722T161806_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T170046_20220722T170316_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220722T154926_20220722T155209_C001		
CS_OFFL_SIR_GOPM_2_20220722T155949_20220722T161343_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality       set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T161522_20220722T161522_20220722T161806_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         CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter	CS_OFFL_SIR_GOPM_2_20220722T155226_20220722T155655_C001		
CS_OFFL_SIR_GOPM_2_20220722T161522_20220722T161806_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been         S_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been         S_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been         S_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been         S_OFFL_SIR_GOPM_2_20220722T170046_20220722T170316_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20220722T155949_20220722T161343_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220722T170046_20220722T170316_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20220722T161522_20220722T161806_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220722T170046_20220722T170316_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20220722T165232_20220722T165802_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20220722T170046_20220722T170316_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

	Occar Altimates Dance CCUIA CMUL	The Occess Allineates Design COULD CIVILLand Decisionation Outsitie Flags
CS_OFFL_SIR_GOPM_2_20220722T170326_20220722T172350_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_20220722T172722_20220722T173602_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_20220722T173921_20220722T180329_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_20220722T183618_20220722T190256_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_20220722T190938_20220722T191358_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_20220722T191841_20220722T194438_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_20220722T195022_20220722T195607_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_20220722T201041_20220722T204112_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_20220722T204852_20220722T205439_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_20220722T205734_20220722T210222_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_20220722T210626_20220722T211307_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_20220722T213346_20220722T213517_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_20220722T214732_20220722T222049_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_20220722T222758_20220722T223311_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_20220722T223836_20220722T225420_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_20220722T225607_20220722T225947_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_20220722T231246_20220722T231426_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_20220722T232444_20220722T233607_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_20220722T233828_20220722T235443_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_20220722T235453_20220722T235956_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_20220722T041712_20220722T041714_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_20220722T055610_20220722T055616_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_20220722T102953_20220722T103028_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_20220722T104759_20220722T104925_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_20220722T132445_20220722T132735_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

# L2 Quality Flags (20 Hz PLRM)

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

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

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

Number of	of proc	ducts wit	h errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20220722T000440_20220722T000718_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T005143_20220722T005339_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 beer set for one or more records
CS_OFFL_SIR_GOPN_2_20220722T032320_20220722T032535_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records
CS_OFFL_SIR_GOPN_2_20220722T034001_20220722T034247_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T040948_20220722T041135_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T042626_20220722T043027_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T043756_20220722T044211_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records
CS_OFFL_SIR_GOPN_2_20220722T045904_20220722T050408_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records
CS_OFFL_SIR_GOPN_2_20220722T052009_20220722T052408_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T055901_20220722T060114_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 beer set for one or more records
CS_OFFL_SIR_GOPN_2_20220722T063055_20220722T063306_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records
CS_OFFL_SIR_GOPN_2_20220722T063654_20220722T064232_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T065239_20220722T065402_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T070153_20220722T070244_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T081514_20220722T081930_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T082711_20220722T082746_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 beer set for one or more records
CS_OFFL_SIR_GOPN_2_20220722T095653_20220722T095851_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T101109_20220722T101232_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T102505_20220722T102650_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T105438_20220722T105740_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T120349_20220722T120537_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_GOPN_2_20220722T122804_20220722T123110_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 beer set for one or more records
CS_OFFL_SIR_GOPN_2_20220722T123340_20220722T123853_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 beer set for one or more records
CS_OFFL_SIR_GOPN_2_20220722T132445_20220722T132735_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records

CS_OFFL_SIR_GOPN_2_20220722T140819_20220722T141053_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_20220722T144749_20220722T145036_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_20220722T150331_20220722T150448_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_20220722T150654_20220722T150938_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_20220722T154319_20220722T154926_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_20220722T164329_20220722T164515_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_20220722T164605_20220722T164833_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_20220722T165050_20220722T165213_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_20220722T180329_20220722T180559_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_20220722T182225_20220722T182710_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_20220722T182800_20220722T182921_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_20220722T190518_20220722T190651_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_20220722T191359_20220722T191640_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_20220722T204502_20220722T204852_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_20220722T205439_20220722T205559_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_20220722T211307_20220722T211502_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_20220722T211959_20220722T212104_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_20220722T212617_20220722T212647_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_20220722T213536_20220722T213621_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_20220722T214604_20220722T214732_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_20220722T222443_20220722T222758_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_20220722T000718_20220722T001455_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_20220722T010348_20220722T010927_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_20220722T014620_20220722T015328_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_20220722T024139_20220722T024735_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_20220722T030107_20220722T030321_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_20220722T032111_20220722T032320_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_20220722T032536_20220722T033116_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_20220722T033116_20220722T033233_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_20220722T040838_20220722T040948_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_20220722T050409_20220722T050931_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_20220722T050946_20220722T051039_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_20220722T052447_20220722T052548_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_20220722T060114_20220722T060308_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_20220722T064232_20220722T065041_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_20220722T065041_20220722T065152_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_20220722T072646_20220722T072821_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_20220722T081930_20220722T082711_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_20220722T082747_20220722T082847_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_20220722T090612_20220722T090827_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_20220722T095851_20220722T100533_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_20220722T103238_20220722T103525_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_20220722T104409_20220722T104758_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_20220722T105741_20220722T110135_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_20220722T113723_20220722T114433_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_20220722T114935_20220722T115626_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_20220722T122401_20220722T122804_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_20220722T131856_20220722T132329_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_20220722T140122_20220722T140819_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_20220722T143516_20220722T143652_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_20220722T145653_20220722T150205_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_20220722T152556_20220722T152808_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

Currently, there are several common flags raised in the Level 2 products, wh	ich are summarised below.	
L2 Quality Flags (1 Hz & 1 Hz PLRM)		
CS_OFFL_SIR_GOPR_2_20220722T212137_20220722T212409_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_20220722T204113_20220722T204502_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_20220722T195607_20220722T200305_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_20220722T191640_20220722T191841_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_20220722T181424_20220722T181648_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_20220722T172350_20220722T172539_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_20220722T165803_20220722T165923_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_20220722T165213_20220722T165232_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_20220722T164833_20220722T165050_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_20220722T161806_20220722T162143_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_20220722T154157_20220722T154220_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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

197

62

151

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: 0

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 Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20220721T231907_20220722T000846_C002	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
CS_OFFL_SIR_GOP_2_20220722T000846_20220722T005822_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T005822_20220722T014801_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T014801_20220722T023737_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T023737_20220722T032715_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_20220722T032715_20220722T041651_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T041651_20220722T050630_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_20220722T050630_20220722T055606_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T055606_20220722T064545_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T064545_20220722T073521_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T073521_20220722T082500_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_20220722T082500_20220722T091436_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T091436_20220722T100414_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T100414_20220722T105351_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T105351_20220722T114329_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T114329_20220722T123305_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T123305_20220722T132244_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T132244_20220722T141220_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_20220722T141220_20220722T150158_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T150158_20220722T155134_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_20220722T155134_20220722T164113_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T164113_20220722T173049_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T173049_20220722T182028_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T182028_20220722T191004_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T191004_20220722T195943_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T195943_20220722T204919_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T204919_20220722T213857_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_20220722T213857_20220722T222833_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_20220722T222833_20220722T231812_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20220722T231812_20220723T000748_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

## 6.5 P2P Measurement Confidence Data Check

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

1

Number of products with errors:

Product		Test Failed	Description
CS_OFFL_SIR_GOP_220220722T191004_2022	20722T195943_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more record
		·	
6.6 P2P Measurement Quality Flag	Спеск		
P2P Quality Flags (20 Hz)			
CryoSat P2P data includes Quality Flags for each 2	20 Hz, 20 Hz PLRM and 1 H	Iz measurement record, copied fro	m the corresponding L2 products.
Since the P2P Quality Flags are copied directly	from the L2 Quality Flags	s, please see Section 5.6 for the	full list of products affected.
Number of products with errors:	29		
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:	29		
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:	30		
6.8 P2P Ocean Retracking Quality	Check		
P2P Retracking Flags (20 Hz)			
Cryosat P2P data includes an ocean retracking qua	ality flag (field 19) for each 2	20 Hz measurement record. The bit	t value of this flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This flag	is currently set for product	s GOPR and GOPN products over	r sea ice, but this is to be expected.
Number of products with errors:	27		
P2P Retracking Flags PLRM			
CryoSat L2 data includes an ocean retracking quali	ty flag for each 20 Hz PLRM	M measurement record. The bit val	ue of this flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This flag	is currently set for product	s GOPR and GOPN products over	r sea ice, but this is to be expected.

30

0

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	165	165	3	162	0
SIR_GOPR1B	120	120	0	120	0
SIR_GOPN1B	104	104	1	103	0
SIR_GOPM_2	165	165	112	53	0
SIR_GOPR_2	120	120	38	82	0
SIR_GOPN_2	104	104	41	63	0
SIR_GOP_P2P	29	29	0	29	0

## 7.1 QCC Errors

Number of QCC reports with errors:

# 7.2 QCC Warnings

umber of QCC repo	rts with warnings	2232	Total num	ber of occurrences of e	ach warning		
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN	CERBSZOPOEPNCDF
SIR GOPM1B	162	0	0	0	0	0	0
SIR GOPM 2	0	40	37	1	39	0	36
SIR GOPN1B	101	0	0	0	0	0	0
SIR_GOPN_2	0	13	32	7	26	29	20
SIR_GOPR1B	115	0	0	0	0	0	0
SIR_GOPR_2	0	35	49	0	31	30	15
Product Type	RPEPOPFDLRMNCDF				RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR GOPM1B	0	0			0	0	0
SIR GOPM 2	33	0	0	0	0	30	0
SIR_GOPM_2	0	0	0	0	0	0	0
SIR GOPN 2	0	0	27	0	34	0	0
SIR GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	53	0	60	0	0	50
SIN_GOFN_2	U	55	U	00	0	U	50
Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCD
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	6	28	0	8	36	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	29	13	43	53	31	31	29
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	3	68	43	10	42	51
Product Type	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	_	-	-
SIR GOPM1B	0	0	0	0			
SIR GOPM 2	2	0	0	0			
SIR GOPN1B	0	0	47	1			
SIR GOPN 2	15	2	0	0			
SIR GOPR1B	0	0	120	3			
SIR GOPR 2	2	1	0	0			
		1.	-	-			
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN	CERBSZOPOEPNCDF
SIR_GOP_2_	13	29	29	7	28	19	28
		-		-			
Product Type	RPEPOPFDPLRMSINNC		RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR GOP 2	19	29	24	17	29	19	27

Isin Core 2.         29         18         17         29         18         17         29         18         17         29         18         17         29         18         17         29         18         17         29         18         17         29         18         17         29         18         17         29         18         17         29         18	ONCDF RSV
Abbreviation         Test name         Details           BCSHNCDF         BurstCounterStep20H2NetCDF         The burst counter should be one higher with regard to the previous burst counter           MVIOEPFDNCDF         MissingValueIniOceanExcludingPolar/DE2NetCDF         The value should not be a missing value' for surface type 0 only for latitudes between 70           MVIOEPFDNCDF         MissingValueIniOceanExcludingPolar/DE2NetCDF         The value should not be a missing value' for surface type 0 only for latitudes between 70           RBSZOPOEPFDNDR         RangeBackscatterSigmazeroOPOceanExcludingPolar/DE2NetCDF         The backscatter sigma zero should be between 70 and 7500 (or missing) for surface type between 70 and 7500 (or missing) for surface type between 70 and 7500 (or missing) for surface type between 70 and 7500 (or missing) for surface type between 70 and 7500 (or missing) for surface type between 70 and 7500 (or missing) for surface type between 70 and 7500 (or missing) for surface type between 70 and 7500 (or missing) for surface type a coean for in REPOOPDILRMNCDF         RangeBackscatterSigmaZeroOPOceanExcludingPolar/OPD22LRMNetCDF         The backscatter sigma zero should be between 70 and 7500 (or missing) for surface type a coean for in REPOOPDILRMNCDF         RangeBackscatterSigmaZeroOPOceanExcludingPolar/OPD22LRMNetCDF         The Packiness should be between 0 and 6400 (or missing) for surface type a coean for in REPOOPDILRMNCDF         RangeBackscatterSigmaZeroOPOceanExcludingPolar/OPD22LRMNetCDF         The Packiness should be between 0 and 9500 (or missing) for surface type a coean for in REPOOPDEXENNCDF         RangePackinessExcludingPolarOPD22RNNetCDF         The Packiness thould be between 0 a	18
Abbreviation         Test name         Details           BCSHNCDF         BursCounterStep20H2VetCDF         The burst counter should be one higher with regard to the previous burst counter           MVIOEPDNCDF         MissingValueIn/OceanExcludingPolar/D2NetCDF         The value should not be a missing value' for surface type 0 only for latitudes between 70           MVIOEPNCDF         MissingValueIn/OceanExcludingPolar/D2NetCDF         The value should not be a missing value' for surface type 0 only for latitudes between 70           MVIOEPNCDF         MissingValueIn/OceanExcludingPolar/D2NetCDF         The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type Between 70 and 7500 (or missing) for surface type Between 70 and 7500 (or missing) for surface type Between 70 and 7500 (or missing) for surface type Between 70 and 7500 (or missing) for surface type Between 70 and 7500 (or missing) for surface type Between 70 and 7500 (or missing) for surface type Between 70 and 7500 (or missing) for surface type Between 70 and 7500 (or missing) for surface type Between 70 and 7500 (or missing) for surface type a coean for in the backscatter sigma zero should be between 70 and 7500 (or missing) for surface type a coean for in the Peakiness should be between 0 and 4600 (or missing) for surface type a coean for in 700 Getween 70 and 7500 (or missing) for surface type a coean for in 700 Getween 70 and 7500 (or missing) for surface type a coean for in 700 Getween 70 and 7500 (or missing) for surface type a coean for in 700 Getween 70 and 7500 (or missing) for surface type a coean for in 700 Getween 70 and 7500 (or missing) for surface type a coean for in 700 Getween 70 and 7500 (or missing) for surface type a coean for in 700 Getween 70 and 700 (or missing) for surface type a coea	
MVIOEPFDNCDF         MssingValueIntOceanExcludingPolarFD2NetCDF         The value should not be a 'missing value' for surface type 0 only for latitudes between 70.           MVIOEPFDNCDF         MssingValueIntOceanExcludingPolarNetCDF         The value should not be a 'missing value' for surface type 0 only for latitudes between 70.           MVIOEPFDNCDF         MssingValueIntOceanNetCDF         The value should not be a 'missing value' for surface type 0 only for latitudes between 70.           RBSZOPOEPFDNCDF         RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF         The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type between 700 and 7500 (or missing) for surface type between 700 and 7500 (or missing) for surface type between 700 and 7500 (or missing) for surface type between 700 and 7500 (or missing) for surface type between 700 and 7500 (or missing) for surface type between 700 and 7500 (or missing) for surface type between 700 and 7500 (or missing) for surface type between 700 and 7500 (or missing) for surface type between 700 and 7500 (or missing) for surface type e coean for I and 70 degrees           RPEPOPFDLRMNCDF         RangePackinessExcludingPolarOPF02LRNNetCDF         The Packiness should be between 70 and 7500 (or missing) for surface type e coean for I and 70 degrees           RPEPOPFDLRMNCDF         RangePackinessExcludingPolarOPF02LRNNetCDF         The Packiness should be between 70 and 7500 (or missing) for surface type e coean for I and 70 degrees           RPEPOPFDLRMNCDF         RangePackinessExcludingPolarOPF02LRNNetCDF         The Packiness should be between 70 and 7000 (or missing) for surface type e coean for I and 70 degrees </th <th></th>	
MVIOEPNCDF         MssingValueIntOceanExcludingPolarNetCDF         The value should not be a 'missing value' for surface type 0 only for latitudes between 700           MVIOEPNCDF         MssingValueIntOceanNetCDF         The value should not be a 'missing value' for surface type 0 only           RBSZOPOEPFDNCPF         RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF         The backscatter sigma Zero should be between 700 and 7500 (cr missing) for surface type           RBSZOPOEPFOLTPR         RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF         The backscatter sigma Zero should be between 700 and 7500 (cr missing) for surface type           RBSZOPOEPNCDF         RangeBackscatterSigmaZeroOPOceanExcludingPolarHD2NetCDF         The backscatter sigma Zero should be between 700 and 7500 (cr missing) for surface type - ocean for Lin and 700 degrees           RPEPOPFDLRMNCDF         RangePackinessExcludingPolarOPFD2LRMNetCDF         The Packiness should be between 0 and 15000 (cr missing) for surface type - ocean for Lin and 700 degrees           RPEPOPFDLRMNCDF         RangePackinessExcludingPolarOPFD2LRMSARNetCDF         The Packiness should be between 0 and 15000 (cr missing) for surface type - ocean for Lin and 700 degrees           RPEPOPFDSINNCDF         RangePackinessExcludingPolarOPFD2LRMSINEtCDF         The Packiness should be between 0 and 15000 (cr missing) for surface type - ocean for and 700 degrees           RPEPOPFDSINNCDF         RangePackinessExcludingPolarOPFD2RMNEtCDF         The Packiness should be between 0 and 15000 (cr missing) for surface type - ocean for and 700 degrees	Step20HzNetCDF
MVIONCDF         MissingValueIntOceanNetCDF         The value should not be a 'missing value' for surface type 0 only           RBSZOPOEPFDNCDF         RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF         The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type between -70 and 70 degrees           RBSZOPOEPFDLRM         RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF         The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type between -70 and 70 degrees           RBSZOPOEPNCDF         RangeBackscatterSigmaZeroOPOceanExcludingPolarVeCDF         The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type between -70 and 70 degrees           RPEPOPFDLRMNCDF         RangePeakinessExcludingPolarOPFD2PLRMNetCDF         The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for and 70 degrees           RPEPOPFDPLRMSINN RDEF         RangePeakinessExcludingPolarOPFD2PLAMSINNetCDF         The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for and 70 degrees           RPEPOPFDSARNCDF         RangePeakinessExcludingPolarOPFD2PLAMSINNetCDF         The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for and 70 degrees           RPEPOPFDSINNCDF         RangePeakinessExcludingPolarOPFD2SINNetCDF         The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for and 70 degrees           RPEPOPFDSINNCDF         RangePeakinessExcludingPolarOPFD2SINNetCDF         The Peakiness should be between 0 and 6400 (or missing) for	ntOceanExcluding
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Inst.20r0/EPF.DRCDF         Partigebackscattersigmazero/OcceanExcludingPolar/D2PLRMNetCDF         between -70 and 70 degrees           RBSZOPOCEPREDRAM         RangeBackscatterSigmaZeroOPOceanExcludingPolar/D2PLRMNetCDF         The backscatter sigma zoro should be between 700 and 7500 (or missing) for surface type between -70 and 70 degrees           RBSZOPOCEPNCDF         RangeBackscatterSigmaZeroOPOceanExcludingPolar/DFD2LRMNetCDF         The backscatter sigma zoro should be between 700 and 7500 (or missing) for surface type = ocean for land 70 degrees           RPEPOPFDLRMNCDF         RangePeakinessExcludingPolar/OPFD2LRMSARNetCDF         The Packiness should be between 0 and 6400 (or missing) for surface type = ocean for land 70 degrees           RPEPOPFDLRMSKAR         RangePeakinessExcludingPolar/OPFD2PLRMSARNetCDF         The Packiness should be between 0 and 90000 (or missing) for surface type = ocean for land 70 degrees           RPEPOPFDSARNCDF         RangePeakinessExcludingPolar/OPFD2SINNetCDF         The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for land 70 degrees           RPEPOPFDSINNCDF         RangePeakinessExcludingPolar/OPFD2SINNetCDF         The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for land 70 degrees           RPEPOPFDRMNCDF         RangePeakinessExcludingPolar/OPFD2SINNetCDF         The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for land 70 degrees           RPEPOPSINNCDF         RangePeakinessExcludingPolar/OPFARMetCDF         The Peakiness should be between 0 and 6400 (or missing) for surface	ntOceanNetCDF
NCDF         HangestablescatersignaZeroOPCeanExcludingPolar/DZPLRMNetCDF         between -70 and 70 degrees         Action 2010           RBSZOPOEPNCDF         RangeBackscatterSigmaZeroOPCeanExcludingPolarNetCDF         The backscatter sigma zero obluid be between 700 and 7500 (or missing) for surface type = ocean for iard 70 degrees           RPEPOPFDLRMNCDF         RangePeakinessExcludingPolarOPFD2LRMNetCDF         The Peakiness should be between 0 and 4500 (or missing) for surface type = ocean for and 70 degrees           RPEPOPFDPLRMSAR         RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF         The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for and 70 degrees           RPEPOPFDSINNCDF         RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF         The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for and 70 degrees           RPEPOPFDSINNCDF         RangePeakinessExcludingPolarOPFD2SINNetCDF         The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for and 70 degrees           RPEPOPFDSINNCDF         RangePeakinessExcludingPolarOPFD2SINNetCDF         The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for and 70 degrees           RPEPOPSINNCDF         RangePeakinessExcludingPolarOPFD2NMNetCDF         The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for and 70 degrees           RPEPOPSINNCDF         RangePeakinessExcludingPolarOPFD2NMNetCDF         The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for and 70 degrees	atterSigmaZeroOP
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SOOHHIFHD SameOrOneHigher1HzIndexFor20HzData The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample should b	antWaveHeightOc
	ligher1HzIndexFor2
SCSTODHRNCDF SequenceCounterStepTODHRNetCDF The sequence counter should be modulo 4 higher with regard to the previous sequence of	InterStepTODHRN
SCSTODNCDF SequenceCounterStepTODNetCDF The sequence counter should be one higher (modulo 16384) with regard to the previous st	InterStepTODNetC

Number of products with missing QCC reports:

1

L1B and L2 Product name n/a P2P Product name CS\_OFFL\_SIR\_GOP\_2\_20220722T231812\_20220723T000748\_C002