

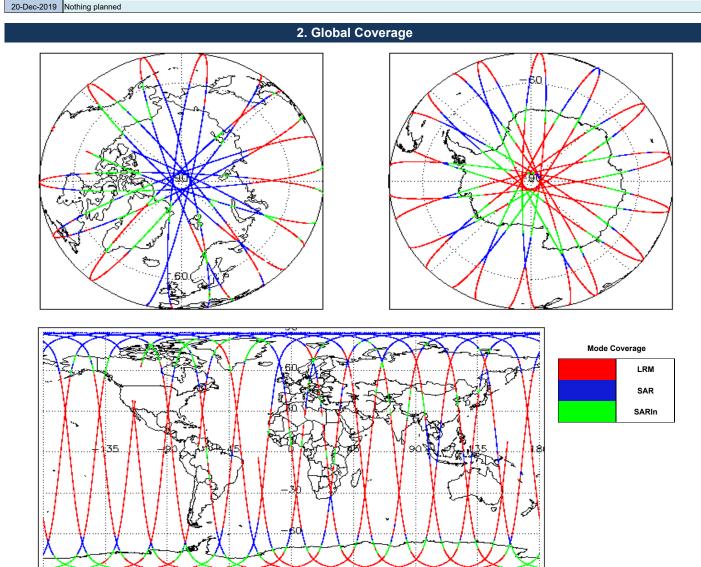
# **QA4EO Daily Report for GOP data:**

<u>19/12/2019</u>

Report Production:	47.1 0000	Check	L1 & L2	P2P
Report Production:	17-Jan-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrucSat Occan Brasson	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor used.	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	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

1. Overview

	Mission / Instrument News			
18-Dec-2019		None		
	19-Dec-2019	None		



# 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. GOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

Number of products with errors:

0

4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inc	onsistencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1 OSARIn chains. A modification is required in the next release.	B GOPR and GOPN products be	cause the I1b_processing_quality_hr field is not correctly configured in the OSAR and
Number of products with errors: 0		
4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to	o 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 reco	rd. The bit value of this flag indica	ites 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 measure	ment record. The bit value of this	flag indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for GOPR proc	ducts due to a configuration issue	. This is being investigated and will be updated in the next SW update.
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement recor	d. The bit value of this flag indica	tes any problems when set.
	-	tes any problems when set.
CryoSat L1B data includes a waveform data flag for each measurement recornations of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 21	-	tes any problems when set.
Loss of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 21	-	tes any problems when set. Description
.oss of Echo Flag: This flag is currently set for some products over land, but         .umber of products with errors:       21         Product	t this is to be expected.	
Loss of Echo Flag: This flag is currently set for some products over land, but         Humber of products with errors:       21         Product       21         CS_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001	t this is to be expected.	Description
Loss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       21         Product       21         CS_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001       2000         CS_OFFL_SIR_GOPN1B_20191219T012825_20191219T012923_C001       2000	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records
Aumber of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       21         Product       21         CS_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001       20         CS_OFFL_SIR_GOPN1B_20191219T012825_20191219T012923_C001       20         CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001       21	Test Failed       Loss of Echo       Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Access of Echo Flag: This flag is currently set for some products over land, but           Renduct         21           Product         21           ScoFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         20           CS_OFFL_SIR_GOPN1B_20191219T012825_20191219T012923_C001         20           CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         20           CS_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001         20	Test Failed       Loss of Echo       Loss of Echo       Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Coss of Echo Flag: This flag is currently set for some products over land, but           Number of products with errors:         21           Product         21           CS_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         22           CS_OFFL_SIR_GOPM1B_20191219T012825_20191219T012923_C001         22           CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         23           CS_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001         23           CS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001         23	Test Failed         Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Coss of Echo Flag: This flag is currently set for some products over land, but           Number of products with errors:         21           Product         21           CS_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         22           CS_OFFL_SIR_GOPN1B_20191219T012825_20191219T012923_C001         22           CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         22           CS_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001         22           CS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001         22           CS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093929_C001         23	Test Failed         Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Loss of Echo Flag: This flag is currently set for some products over land, but           Number of products with errors:         21           Product         21           CS_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         CS_OFFL_SIR_GOPN1B_20191219T012825_20191219T012923_C001           CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C0001         CS_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001           CS_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001         CS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001           CS_OFFL_SIR_GOPN1B_20191219T093814_20191219T093929_C001         CS_OFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001           CS_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         CS_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001	t this is to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Aumber of Echo Flag: This flag is currently set for some products over land, but           Aumber of products with errors:         21           Product         21           CS_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         CS_OFFL_SIR_GOPN1B_20191219T012825_20191219T02923_C001           CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         CS_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001           CS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001         CS_OFFL_SIR_GOPN1B_20191219T093814_20191219T093929_C001           CS_OFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         CS_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001           CS_OFFL_SIR_GOPN1B_20191219T143157_20191219T151712_C001         CS_OFFL_SIR_GOPN1B_20191219T143157_20191219T151712_C001	Test Failed         Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Access of Echo Flag: This flag is currently set for some products over land, but           Remoduct         21           Product         21           S2_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         25_OFFL_SIR_GOPN1B_20191219T02825_20191219T012923_C001           CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         25_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001           CS_OFFL_SIR_GOPN1B_20191219T084402_20191219T093610_C001         25_OFFL_SIR_GOPN1B_20191219T093543_20191219T093929_C001           CS_OFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         25_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001           CS_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         25_OFFL_SIR_GOPN1B_20191219T151451_20191219T151712_C001	Test Failed         Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Access of Echo Flag: This flag is currently set for some products over land, but           Remoduct         21           Product         21           Sc_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         Sc_OFFL_SIR_GOPN1B_20191219T02852_20191219T025057_C001           Sc_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         Sc_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001           Sc_OFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001         Sc_OFFL_SIR_GOPN1B_20191219T093814_20191219T093929_C001           Sc_OFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         Sc_OFFL_SIR_GOPN1B_20191219T15157_20191219T143306_C001           Sc_OFFL_SIR_GOPN1B_20191219T151451_20191219T151712_C001         Sc_OFFL_SIR_GOPN1B_20191219T151451_20191219T15373_C001           Sc_OFFL_SIR_GOPN1B_20191219T10332_20191219T10134_C001         Sc_OFFL_SIR_GOPN1B_20191219T10332_20191219T10134_C001	Test Failed         Loss of Echo         Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
Access of Echo Flag: This flag is currently set for some products over land, but lumber of products with errors:         21           Product         21           Broduct         21           ScoFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         32           ScoFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         33           ScoFFL_SIR_GOPN1B_20191219T024802_20191219T084721_C001         33           ScoFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001         33           ScoFFL_SIR_GOPN1B_20191219T093814_20191219T093929_C001         33           ScoFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         33           ScoFFL_SIR_GOPN1B_20191219T151451_20191219T143306_C001         33           ScoFFL_SIR_GOPN1B_20191219T151451_20191219T151712_C001         33           ScoFFL_SIR_GOPN1B_20191219T193322_20191219T151712_C001         33           ScoFFL_SIR_GOPN1B_20191219T193322_0191219T13735_C001         33	Test Failed         Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
coss of Echo Flag: This flag is currently set for some products over land, but           lumber of products with errors:         21           roduct         21           SS_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         53           SS_OFFL_SIR_GOPN1B_20191219T02825_20191219T02923_C001         53           SS_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         53           SS_OFFL_SIR_GOPN1B_20191219T0384402_20191219T038610_C001         53           SS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093929_C001         53           SS_OFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         53           SS_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         53           SS_OFFL_SIR_GOPN1B_20191219T151451_20191219T151712_C001         53           SS_OFFL_SIR_GOPN1B_20191219T193322_20191219T193735_C001         53           SS_OFFL_SIR_GOPN1B_20191219T10032_20191219T10134_C001         53           SS_OFFL_SIR_GOPN1B_20191219T10033_20191219T002002_C001         53           SS_OFFL_SIR_GOPN1B_20191219T1001933_20191219T002002_C001         53	Test Failed         Loss of Echo         Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
coss of Echo Flag: This flag is currently set for some products over land, but humber of products with errors:         21           roduct         S_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         S_OFFL_SIR_GOPN1B_20191219T02825_20191219T02923_C001           S_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         S_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001           S_OFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001         S_OFFL_SIR_GOPN1B_20191219T093543_20191219T093929_C001           S_OFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         S_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001           S_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         S_OFFL_SIR_GOPN1B_20191219T151451_20191219T151712_C001           S_OFFL_SIR_GOPN1B_20191219T193322_20191219T193735_C001         S_OFFL_SIR_GOPN1B_20191219T10332_20191219T1034_C001           S_OFFL_SIR_GOPN1B_20191219T001933_20191219T002002_C001         S_OFFL_SIR_GOPR1B_20191219T024356_20191219T024550_C001           S_OFFL_SIR_GOPR1B_20191219T00433_6_0191219T024550_C001         S_OFFL_SIR_GOPR1B_20191219T024356_20191219T024550_C001	t this is to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo
coss of Echo Flag: This flag is currently set for some products over land, but lumber of products with errors:         21           roduct         21           scopFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         32           ScoPFL_SIR_GOPN1B_20191219T02825_20191219T02923_C001         33           ScoPFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         33           ScoPFL_SIR_GOPN1B_20191219T034402_20191219T039610_C001         33           ScoPFL_SIR_GOPN1B_20191219T093543_20191219T093929_C001         33           ScoPFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         33           ScoPFL_SIR_GOPN1B_20191219T143157_20191219T125740_C001         33           ScoPFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         33           ScoPFL_SIR_GOPN1B_20191219T151451_20191219T151712_C001         33           ScoPFL_SIR_GOPN1B_20191219T1913322_0191219T1913735_C001         33           ScoPFL_SIR_GOPN1B_20191219T10033_20191219T002002_C001         33           ScoPFL_SIR_GOPR1B_20191219T001933_20191219T002002_C001         33           ScoPFL_SIR_GOPR1B_20191219T061356_20191219T062042_C001         33           ScoPFL_SIR_GOPR1B_20191219T064356_20191219T062042_C001         33	t this is to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records
Access of Echo Flag: This flag is currently set for some products over land, but           Iumber of products with errors:         21           Product         21           ScoFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         32           ScoFFL_SIR_GOPN1B_20191219T02825_20191219T02923_C001         33           ScoFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         33           ScoFFL_SIR_GOPN1B_20191219T038402_20191219T039610_C001         33           ScoFFL_SIR_GOPN1B_20191219T093543_20191219T093929_C001         33           ScoFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         33           ScoFFL_SIR_GOPN1B_20191219T143157_20191219T145306_C001         33           ScoFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         33           ScoFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         34           ScoFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         35           ScoFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         35           ScoFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         35           ScoFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001         35           ScoFFL_SIR_GOPN1B_20191219T10032_20191219T1033_C001         35           ScoFFL_SIR_GOPN1B_20191219T10033_20191219T002002_C001         35           ScoFFL_SIR_GOPR1B_20191219T004356_20191219T0024550_C001         35	Test Failed         Loss of Echo         Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo
Access of Echo Flag: This flag is currently set for some products over land, but           Renduct         21           ScoPFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         ScoPFL_SIR_GOPN1B_20191219T02825_20191219T02923_C001           ScoPFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         ScoPFL_SIR_GOPN1B_20191219T024802_20191219T084721_C001           ScoPFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001         ScoPFL_SIR_GOPN1B_20191219T093543_20191219T093929_C001           ScoPFL_SIR_GOPN1B_20191219T093814_20191219T093929_C001         ScoPFL_SIR_GOPN1B_20191219T15252_20191219T15740_C001           ScoPFL_SIR_GOPN1B_20191219T15252_20191219T157740_C001         ScoPFL_SIR_GOPN1B_20191219T151451_20191219T143306_C001           ScoPFL_SIR_GOPN1B_20191219T151451_20191219T143306_C001         ScoPFL_SIR_GOPN1B_20191219T151451_20191219T143306_C001           ScoPFL_SIR_GOPN1B_20191219T151451_20191219T143306_C001         ScoPFL_SIR_GOPN1B_20191219T151451_20191219T143306_C001           ScoPFL_SIR_GOPN1B_20191219T151451_20191219T143306_C001         ScoPFL_SIR_GOPN1B_20191219T10332_20191219T1033_C001           ScoPFL_SIR_GOPN1B_20191219T10332_20191219T002002_C001         ScoPFL_SIR_GOPR1B_20191219T0033_20191219T002002_C001           ScoPFL_SIR_GOPR1B_20191219T064562_0191219T062042_C001         ScoPFL_SIR_GOPR1B_20191219T084721_20191219T085044_C001           ScoPFL_SIR_GOPR1B_20191219T084721_20191219T125144_C001         ScoPFL_SIR_GOPR1B_20191219T125144_C001	t this is to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo
Loss of Echo Flag: This flag is currently set for some products over land, but           Number of products with errors:         21           Product         21           CS_OFFL_SIR_GOPN1B_20191219T134809_20191219T140331_C001         CS_OFFL_SIR_GOPN1B_20191219T02825_20191219T025057_C001           CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T084721_C001         CS_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001           CS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001         CS_OFFL_SIR_GOPN1B_20191219T093814_20191219T093929_C001           CS_OFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         CS_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001           CS_OFFL_SIR_GOPN1B_20191219T151451_20191219T151712_C001         CS_OFFL_SIR_GOPN1B_20191219T151451_20191219T193735_C001           CS_OFFL_SIR_GOPN1B_20191219T10332_20191219T1002002_C001         CS_OFFL_SIR_GOPN1B_20191219T001933_20191219T002002_C001           CS_OFFL_SIR_GOPN1B_20191219T001933_20191219T002002_C001         CS_OFFL_SIR_GOPR1B_20191219T001933_20191219T002002_C001           CS_OFFL_SIR_GOPR1B_20191219T001933_20191219T002002_C001         CS_OFFL_SIR_GOPR1B_20191219T001933_20191219T002002_C001           CS_OFFL_SIR_GOPR1B_20191219T001933_20191219T002002_C001         CS_OFFL_SIR_GOPR1B_20191219T004356_20191219T0020042_C001           CS_OFFL_SIR_GOPR1B_20191219T0084721_20191219T085044_C001         CS_OFFL_SIR_GOPR1B_20191219T084721_20191219T085044_C001           CS_OFFL_SIR_GOPR1B_20191219T124375_20191219T140532_C001         CS_OFFL_SIR_GOPR1B_20191219T1403	this is to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo
Loss of Echo Flag: This flag is currently set for some products over land, but           Number of products with errors:         21           Product         21           CS_OFFL_SIR_GOPN1B_20191219T134809_20191219T140331_C001         CS_OFFL_SIR_GOPN1B_20191219T02825_20191219T025057_C001           CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T084721_C001         CS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001           CS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093929_C001         CS_OFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001           CS_OFFL_SIR_GOPN1B_20191219T125252_20191219T143306_C001         CS_OFFL_SIR_GOPN1B_20191219T143157_20191219T143306_C001           CS_OFFL_SIR_GOPN1B_20191219T151451_20191219T143306_C001         CS_OFFL_SIR_GOPN1B_20191219T193322_20191219T193735_C001           CS_OFFL_SIR_GOPN1B_20191219T19332_20191219T1034_C001         CS_OFFL_SIR_GOPR1B_20191219T0032_20191219T002002_C001           CS_OFFL_SIR_GOPR1B_20191219T0033_20191219T002002_C001         CS_OFFL_SIR_GOPR1B_20191219T004356_20191219T002004_C001           CS_OFFL_SIR_GOPR1B_20191219T061516_20191219T062042_C001         CS_OFFL_SIR_GOPR1B_20191219T0645516_20191219T062042_C001           CS_OFFL_SIR_GOPR1B_20191219T084721_20191219T085044_C001         CS_OFFL_SIR_GOPR1B_20191219T124725_20191219T125144_C001           CS_OFFL_SIR_GOPR1B_20191219T140331_20191219T140532_C001         CS_OFFL_SIR_GOPR1B_20191219T140331_20191219T16156_C001	this is to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo
Loss of Echo Flag: This flag is currently set for some products over land, but           Number of products with errors:         21           Product         21           CS_OFFL_SIR_GOPM1B_20191219T134809_20191219T140331_C001         22           CS_OFFL_SIR_GOPN1B_20191219T012825_20191219T012923_C001         22           CS_OFFL_SIR_GOPN1B_20191219T024802_20191219T025057_C001         23           CS_OFFL_SIR_GOPN1B_20191219T084402_20191219T084721_C001         25           CS_OFFL_SIR_GOPN1B_20191219T093543_20191219T093610_C001         25           CS_OFFL_SIR_GOPN1B_20191219T093814_20191219T093929_C001         25           CS_OFFL_SIR_GOPN1B_20191219T125252_20191219T125740_C001         25	this is to be expected.  Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo

# 5. GOP Level 2 Data Quality Check

# 5.1 L2 Product Format Check

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

0

Number of products with errors:

### 5.2 L2 Product Header Analysis

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

# 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:
0

## 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20191219T014318_20191219T015831_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_20191219T080917_20191219T081722_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPM_2_20191219T170719_20191219T173147_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_20191219T180320_20191219T183042_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_20191219T002950_20191219T003136_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_20191219T011350_20191219T011442_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T020751_20191219T021012_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T025145_20191219T025356_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20191219T033759_20191219T034006_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_20191219T034649_20191219T035121_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T042827_20191219T043219_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T043735_20191219T043808_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_20191219T051813_20191219T052047_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T052807_20191219T052950_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T070705_20191219T070842_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_20191219T084402_20191219T084721_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T101630_20191219T101748_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T102257_20191219T102609_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20191219T115724_20191219T120002_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T120201_20191219T120733_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T125252_20191219T125740_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T133633_20191219T133908_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T143157_20191219T143306_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T161113_20191219T161706_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T165401_20191219T165549_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_20191219T170400_20191219T170624_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_20191219T175125_20191219T175532_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20191219T183328_20191219T183510_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_20191219T193322_20191219T193735_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_20191219T201335_20191219T201707_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T215249_20191219T215610_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T220123_20191219T220247_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_20191219T224330_20191219T224456_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T234024_20191219T234133_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_20191219T011442_20191219T012023_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T025357_20191219T030046_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T043219_20191219T043735_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T061014_20191219T061516_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_20191219T061516_20191219T062042_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T074816_20191219T075549_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T075936_20191219T080101_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_20191219T080503_20191219T080700_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_20191219T092350_20191219T093353_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T093353_20191219T093515_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T110551_20191219T111252_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T111252_20191219T111717_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T124725_20191219T125144_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T125144_20191219T125252_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T142523_20191219T142650_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_20191219T142650_20191219T143156_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T160457_20191219T161113_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T174634_20191219T175125_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T192356_20191219T193322_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T210406_20191219T211215_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T224456_20191219T225230_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T225234_20191219T225359_C001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

# 5.6 L2 Measurement Quality Flag Check

# L2 Quality Flags (20Hz)

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

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

> 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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0

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20191218T234626_20191219T001933_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20191219T002128_20191219T002652_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_20191219T003754_20191219T005025_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_20191219T005037_20191219T010808_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_20191219T012923_20191219T014114_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_20191219T014318_20191219T015831_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_20191219T020049_20191219T020549_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_20191219T021503_20191219T022531_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_20191219T022638_20191219T022854_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_20191219T023151_20191219T024356_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_20191219T024550_20191219T024630_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_20191219T032315_20191219T033736_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_20191219T034006_20191219T034500_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_20191219T034525_20191219T034534_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_20191219T035154_20191219T042534_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_20191219T045315_20191219T051420_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_20191219T051450_20191219T051646_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_20191219T052047_20191219T052416_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_20191219T052439_20191219T052807_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_20191219T053103_20191219T055851_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_20191219T062149_20191219T062604_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_20191219T062711_20191219T065553_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_20191219T065830_20191219T070330_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_20191219T070337_20191219T070705_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_20191219T071139_20191219T074458_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_20191219T075743_20191219T075935_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_20191219T080917_20191219T081722_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_20191219T083017_20191219T083400_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.

00     0.91     <	CS_OFFL_SIR_GOPM_2_20191219T083828_20191219T084402_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
C5: 0FH, SR, GOM 2, 20191211100404, 20191211100406, C011       PM SetSorder Codely, C000       Put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetSorder Codely Faces have been developed and put the Code Alternative Faces and SetS	CS_OFFL_SIR_GOPM_2_20191219T085044_20191219T092350_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
De Dirt, Sint Carle, 2.011/2.0110400, 2011/2.0110400, 2011         Baskenster Carley         Internet Range, Sint, Sint A.,	CS_OFFL_SIR_GOPM_2_20191219T093707_20191219T093813_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
C5     DFTL_SIR_GOPAL_2.0191216710258.0001     and bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.0191216710748_0191216710287_0001     Cost Allinetr Parge and Bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.0191216710287_0001     Cost Allinetr Parge and Bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.0191216710287_0001     Cost Allinetr Parge and Bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.0191216710387_0001     Cost Allinetr Parge and Bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.0191216710387_0001     Cost Allinetr Parge and Bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.0191216710387_0001     COSO Allinetr Parge and Bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.01912167110382_0001     COSO Allinetr Parge and Bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.01912167110382_0001     COSO Allinetr Parge and Bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.01912167110382_0001     Cost Allinetr Parge and Bearsafe Cash, 0000       C6     DFTL_SIR_GOPAL_2.01912167110382_0001     Cost Allinetr Parge SIR_SIR_SIR_SIR_SIR_SIR_SIR_SIR_SIR_SIR_	CS_OFFL_SIR_GOPM_2_20191219T094404_20191219T094416_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Displant Schuldmark 2, 01112 (1911)	CS_OFFL_SIR_GOPM_2_20191219T095631_20191219T101258_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
C5, OFFL_SR_GOPM_2_20191210T10317_20191210T10312_C001     Amount Range and Backscatter Quality Flags have beam on more records.     Source of more records.     Source of more records.     Source of more records.     Source of Backscatter Quality Flags have beam of more records.     Source of more records	CS_OFFL_SIR_GOPM_2_20191219T101748_20191219T102257_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Displace	CS_OFFL_SIR_GOPM_2_20191219T102917_20191219T110310_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
De_DEPEL_SIR_GOPM_2_201912191110315_0191110111035_01911101111035_01911101111035_0191110111035_0191110111035_0191110111035_0191110111035_0191110111035_0191110111035_0191110111035_0191110111035_0191110111035_01911101111035_01911101111035_01911101111035_01911101111035_0191110111035_019011         Decen Allmeric Range SSHA SWH and Backsaster Caulty Flags have bear to read research and the second r	CS_OFFL_SIR_GOPM_2_20191219T110452_20191219T110512_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2.20191219T112735_20191219T113157_C001       and Backsatter Quality, COCO Millimeter Range and Backsatter Quality, COCO Allimeter Range and Backsatter Quality Flags have be Millimeter Range and Backsatter Qu	CS_OFFL_SIR_GOPM_2_20191219T110515_20191219T110545_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2.20191219T13251_2019219T115029_C001       and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T120014_20191219T122400_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T120014_20191219T122400_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T122502_0191219T122622_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T123104_20191219T1226305_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T123604_20191219T13548_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T13548_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T131548_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T131548_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T131548_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be affor on or more reactiol.         CS_OFFL_SIR_GOPM_2.20191219T131548_C001       OCGG Altimeter Range, SSHA, SWH	CS_OFFL_SIR_GOPM_2_20191219T112735_20191219T113157_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T12094_20191219T122400_0001         and Backscatter Quality, GOCG         and the COCG Alimeter Range and Backscatter Quality Flags have be Alimeter Range. SSHA, SWH           CS_OFFL_SIR_GOPM_2_20191219T122500_0191219T122822_C001         Cocan Alimeter Range. SSHA, SWH         The Ocean Alimeter Range. SSHA, SWH           CS_OFFL_SIR_GOPM_2_20191219T122306_0011         Cocan Alimeter Range, SSHA, SWH         The Ocean Alimeter Range. SSHA, SWH           CS_OFFL_SIR_GOPM_2_20191219T12304_20191219T123386_C001         Cocan Alimeter Range, SSHA, SWH         The Ocean Alimeter Range. SSHA, SWH           CS_OFFL_SIR_GOPM_2_20191219T12304_0191219T131546_C001         Cocan Alimeter Range, SSHA, SWH         The Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Flags have be all of one or more records.           CS_OFFL_SIR_GOPM_2_20191219T131716_0191219T13116_C001         Cocan Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been to cocan or more records.           CS_OFFL_SIR_GOPM_2_20191219T131716_0191219T133116_C001         Cocan Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been to cocan or more records.           CS_OFFL_SIR_GOPM_2_20191219T134110_C001         CCCG Alimeter Range and Backscatter Quality Flags have been to cocan or more records.           CS_OFFL_SIR_GOPM_2_20191219T134210_011219T134612_C001         CCCG Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been to cocan or more records.           CS_OFFL_SIR_GOPM_2_20191219T134210_011219T144152_C001         CCCG Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been to cocan or more r	CS_OFFL_SIR_GOPM_2_20191219T113251_20191219T115029_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T12520_20191219T12520_20191219T125202_C001       and Backscatter Quality, COG Attimeter Range and Backscatter Quality, Flags have be and backscatter Quality, COG Attimeter Range, SSHA, SWH and Backscatter Quality, COG Attimeter Range, SSHA, SWH and Backscatter Quality, COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have be and to COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have be and to COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have be and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have be and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have be and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have be and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T13116_20191219T13116_C001       Ocean Attimeter Range Attimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality Flags have be and the COG Attimeter Range and Backscatter Quality Flags have be and the COG Attimeter Range and Backscatter Quality Flags have be and the COG Attimeter Range and Backscatter Quality Flags have be and the COG Attimeter Range and Backscatter Quality Flags have be and the COG Attimeter Range and Backscatter Quality Flags have be and the COG Attimeter Range and Backscatter Quality Flags have be and the COG Attimeter Range and Backscatter Quality Flags have bear for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T134612_C001       Ocean Attimeter Range Cuality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Attimeter Range and Backscatter Quality Flags have bear for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144503_20191219T141455_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Attimeter Range and Backscatt	CS_OFFL_SIR_GOPM_2_20191219T120914_20191219T122400_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T123164_20191219T123366_C001       and Backscatter Quality, CCCG       and the CCCO Altimeter Range and Backscatter Quality Flags have be as the corrests.         CS_OFFL_SIR_GOPM_2_20191219T125804_20191219T131548_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCO Altimeter Range and Backscatter Quality Flags have be as the CCCCO Altimeter Range and Backscatter Quality Fl	CS_OFFL_SIR_GOPM_2_20191219T122520_20191219T122622_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T125804_20191219T131546_C001       and Backscatter Quality       and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have be Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20191219T131716_20191219T133116_C001       Ocean Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range and Backscatter Quality Flags have be Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20191219T134216_20191219T134612_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T134216_20191219T134612_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been to for one or more records.       The OCOG Altimeter Range and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T134609_20191219T140331_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T140532_20191219T140532_0191219T144155_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.	CS_OFFL_SIR_GOPM_2_20191219T123104_20191219T123936_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T131716_20191219T133116_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, CCOG         CS_OFFL_SIR_GOPM_2_20191219T133909_20191219T134110_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T134216_20191219T134612_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range, and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T134609_20191219T140331_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T140532_20191219T141455_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T140532_20191219T141455_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T143306_20191219T1414152_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T144132_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T1441450_20191219T144132_C001       Ocean Altimeter Range, SSHA,	CS_OFFL_SIR_GOPM_2_20191219T125804_20191219T131548_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T134216_20191219T134612_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T134216_20191219T134612_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been 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 and Backscatter Quality Flags have been and Backscatter Quality, Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been and Backscatter Quality, OCOG         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG       The Ocean Altimeter Range and Backscatter Quality, Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20191219T131716_20191219T133116_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T134216_20191219T134809_20191219T140331_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T134809_20191219T140331_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flag and the OCOG Altimeter Range, and Backscatter Quality, COCG Altimeter Range, and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, Flag and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T143306_20191219T143412_C001       OCean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T143412_C001       OCCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T144132_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T145356_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T151326_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_GOPM_2_20191219T133909_20191219T134110_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T134809_20191219T140331_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20191219T140532_20191219T141455_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20191219T143006_20191219T143412_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCCOG Altimeter Range and Backscatter Quality Flags have been and backscatter Quality Flags have been and backscatter Quality         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The 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 and the OCOG Altimeter Range and Backscatter Quality Flags have be attimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have be and the OCOG Altimeter Range and Backscatter Quality Flags have be and	CS_OFFL_SIR_GOPM_2_20191219T134216_20191219T134612_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T140532_20191219T141455_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_20191219T143306_20191219T143412_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T145356_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T150955_20191219T151326_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T150955_20191219T151326_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T150955_20191219T151326_C001       Ocean 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_20191219T134809_20191219T140331_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be ast for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T144150_20191219T145356_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be ast for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T145356_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be ast for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T151326_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be ast for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T151326_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be ast for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T151326_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be ast for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T151713_20191219T151326_C001       OCCGA Altimeter Range and Backscatter Quality       The OCCGA Altimeter Range and Backscatter Quality Flags have be ast for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T151713_20191219T151326_C001       OCCGA Altimeter Range Quality, OCCGG       The OCCGA Altimeter Range and Backscatter Quality Flags have be ast for one or more records.	CS_OFFL_SIR_GOPM_2_20191219T140532_20191219T141455_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T145356_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 have be set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T145356_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 have be set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T150955_20191219T151326_C001       Ocean Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T151713_20191219T151726_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.       The OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.	CS_OFFL_SIR_GOPM_2_20191219T143306_20191219T143412_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T145356_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T150955_20191219T151326_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T150955_20191219T151326_C001       Ocean Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_GOPM_2_20191219T151713_20191219T152514_C001       OCOG Altimeter Range Quality, OCOG OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20191219T144043_20191219T144132_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T150955_20191219T151326_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records. CS_OFFL_SIR_GOPM_2_20191219T151713_20191219T152514_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20191219T144150_20191219T145356_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_GOPM_2_20191219T150955_20191219T151326_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_GOPM_2_20191219T151713_20191219T152514_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_0FFL_SIR_GOPM_2_20191219T152754_20191219T154238_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20191219T155602_20191219T155636_C001 OCOG Altimeter Range Quality, OCOG In OCOG Altimeter Range Quality, OCOG In OCOG Altimeter Range and Backscatter Quality Flags have been a for one or more records.	CS_OFFL_SIR_GOPM_2_20191219T155602_20191219T155636_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20191219T155858_20191219T155901_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_20191219T161956_20191219T165244_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_20191219T165826_20191219T170359_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_20191219T170719_20191219T173147_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_20191219T180320_20191219T183042_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_20191219T184318_20191219T184354_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_20191219T184616_20191219T191456_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_20191219T192153_20191219T192356_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_20191219T193735_20191219T200955_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_20191219T201707_20191219T202239_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_20191219T202552_20191219T203027_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_20191219T210134_20191219T210406_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_20191219T211632_20191219T214950_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_20191219T215610_20191219T220123_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_20191219T220604_20191219T222306_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_20191219T225445_20191219T231516_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_20191219T231608_20191219T232822_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_20191219T233204_20191219T233609_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_20191219T234511_20191220T001125_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_20191219T025145_20191219T025356_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_20191219T052433_20191219T052439_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_20191219T065700_20191219T065829_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_20191219T161113_20191219T161706_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20191219T012111_20191219T012205_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20191219T012643_20191219T012646_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20191219T110551_20191219T111252_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20191219T124012_20191219T124304_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 (20Hz PLRM)

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

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

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

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Number of	products	with	errors.
Number of	products	WILII	enois.

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20191219T020751_20191219T021012_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_20191219T022532_20191219T022604_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_20191219T022854_20191219T022939_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_20191219T023000_20191219T023151_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_20191219T024802_20191219T025057_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_20191219T025145_20191219T025356_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_20191219T033759_20191219T034006_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_20191219T034649_20191219T035121_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_20191219T042827_20191219T043219_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_20191219T062605_20191219T062710_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_20191219T070705_20191219T070842_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_20191219T081722_20191219T082056_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_20191219T083712_20191219T083828_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_20191219T084402_20191219T084721_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_20191219T093814_20191219T093929_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_20191219T094354_20191219T094404_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_20191219T115724_20191219T120002_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_20191219T120201_20191219T120733_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_20191219T125252_20191219T125740_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_20191219T141456_20191219T141739_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_20191219T143157_20191219T143306_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_20191219T143412_20191219T143538_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_20191219T151405_20191219T151431_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_0FFL_SIR_GOPN_2_20191219T155225_20191219T155602_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_0FFL_SIR_GOPN_2_20191219T161113_20191219T161706_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_0FFL_SIR_GOPN_2_20191219T173147_20191219T173251_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_0FFL_SIR_GOPN_2_20191219T174131_20191219T174221_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_20191219T175125_20191219T175532_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_20191219T183616_20191219T183758_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_20191219T184354_20191219T184517_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_20191219T193322_20191219T193735_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_20191219T201335_20191219T201707_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_20191219T202239_20191219T202355_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_20191219T210032_20191219T210134_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_20191219T220123_20191219T220247_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_20191219T222306_20191219T222629_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_20191219T224330_20191219T224456_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_20191219T234024_20191219T234133_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_20191219T001933_20191219T002002_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_20191219T002652_20191219T002658_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_20191219T003136_20191219T003754_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_20191219T011442_20191219T012023_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_20191219T012111_20191219T012205_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_20191219T012457_20191219T012510_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_20191219T012515_20191219T012639_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_20191219T021012_20191219T021503_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_20191219T024356_20191219T024550_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_20191219T025057_20191219T025144_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_20191219T025357_20191219T030046_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_20191219T031429_20191219T032315_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_20191219T043219_20191219T043735_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_20191219T043808_20191219T043926_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_20191219T061014_20191219T061516_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_20191219T061516_20191219T062042_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_20191219T070842_20191219T071139_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_20191219T074816_20191219T075549_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_20191219T080803_20191219T080917_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_20191219T083401_20191219T083711_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_20191219T084721_20191219T085044_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_20191219T092350_20191219T093353_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_20191219T093353_20191219T093515_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_20191219T093941_20191219T094251_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_20191219T094747_20191219T094815_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_20191219T102609_20191219T102917_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_20191219T110310_20191219T110452_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_20191219T110551_20191219T111252_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_20191219T111252_20191219T111717_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_20191219T115029_20191219T115724_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_20191219T120734_20191219T120914_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_20191219T122400_20191219T122520_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_20191219T124725_20191219T125144_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_20191219T131548_20191219T131716_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_20191219T133116_20191219T133632_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_20191219T134751_20191219T134808_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_0FFL_SIR_GOPR_2_20191219T142523_20191219T142650_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_0FFL_SIR_GOPR_2_20191219T142650_20191219T143156_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_0FFL_SIR_GOPR_2_20191219T143902_20191219T144043_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_20191219T154238_20191219T155053_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_20191219T160457_20191219T161113_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_20191219T165244_20191219T165400_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_20191219T174222_20191219T174445_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_20191219T183043_20191219T183328_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_20191219T192038_20191219T192153_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_20191219T192356_20191219T193322_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_20191219T205703_20191219T210025_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_20191219T210406_20191219T211215_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_20191219T214950_20191219T215248_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_20191219T223646_20191219T224329_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_20191219T224456_20191219T225230_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_20191219T225234_20191219T225359_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
L2 Quality Flags (1 Hz & 1Hz PLRM)					
Currently, there are several common flags raised in the Level 2 products, v	which are summarised below.				
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for p					
Number of products with errors: 182					
Collo Ossen Detrocking Collife Class					
5.8 L2 Ocean Retracking Quality Check					
L2 Retracking Flags (20Hz)					
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.					
Number of products with errors: 61					
•					
L2 Retracking Flags (20Hz, PLRM)					
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.					

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

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Number of products with errors:

# 6. **COP** L2 Pole-to-Pole Data Quality Check

### 6.1 P2P Product Format Check

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

Number of products with errors:

## 6.2 P2P Product Header Analysis

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

Number of products with errors:

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

re ·

# 6.4 P2P Auxiliary Correction Error Check

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

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOP_220191219T002655_20191219T011632_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T011632_20191219T020608_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T020608_20191219T025546_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220191219T025546_20191219T034522_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T034522_20191219T043500_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T043500_20191219T052435_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T052435_20191219T061413_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T061413_20191219T070349_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T070349_20191219T075327_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T075327_20191219T084303_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220191219T084303_20191219T093240_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T093240_20191219T102216_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T102216_20191219T111154_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220191219T111154_20191219T120130_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T120130_20191219T125107_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T125107_20191219T134043_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T134043_20191219T143021_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T143021_20191219T151957_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T151957_20191219T160935_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T160935_20191219T165911_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T165911_20191219T174848_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T174848_20191219T183824_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220191219T183824_20191219T192802_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T192802_20191219T201738_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220191219T201738_20191219T210715_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T210715_20191219T215651_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191219T215651_20191219T224629_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191219T224629_201912	19T233605_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records			
CS_OFFL_SIR_GOP_220191219T233605_201912	20T002542_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records			
6.5 P2P Measurement Confidence Data Check						
CryoSat P2P data includes a measurement confidence	e flag for each 20-Hz measur	ement record. The bit value of this flag indi	cates any problems when set.			
Number of products with errors:	0					
6.6 P2P Measurement Quality Flag Check						
P2P Quality Flags (20Hz)						
CryoSat P2P data includes Quality Flags for each 20 H	lz, 20 Hz PLRM and 1 Hz me	easurement record, copied from the corresp	ponding L2 products.			
Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.						
Number of products with errors:	30					
P2P Quality Flags (20Hz PLRM)						
Since the P2P Quality Flags are copied directly from	m the L2 Quality Flags, plea	ase see Section 5.6 for the full list of pro	oducts affected.			
Number of products with errors:	29					
P2P Quality Flags (1 Hz & 1Hz PLRM)						
Since the P2P Quality Flags are copied directly from	m the L2 Quality Flags, plea	ase see Section 5.6 for the full list of pro	oducts affected.			
Number of products with errors:	30					
6.8 P2P Ocean Retracking Quality Check						
P2P Retracking Flags (20Hz)	flag (field 10) for each 20 Ht	r measurement record. The bit value of this	flag indicates any problems when set			
Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Ocean Retracking Quality Flag (PLRM): This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.						
Number of products with errors:	27	· · · · · · · · · · · · · · · · · · ·				
P2P Retracking Flags PLRM						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.						
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.						
Number of products with errors:	30					