

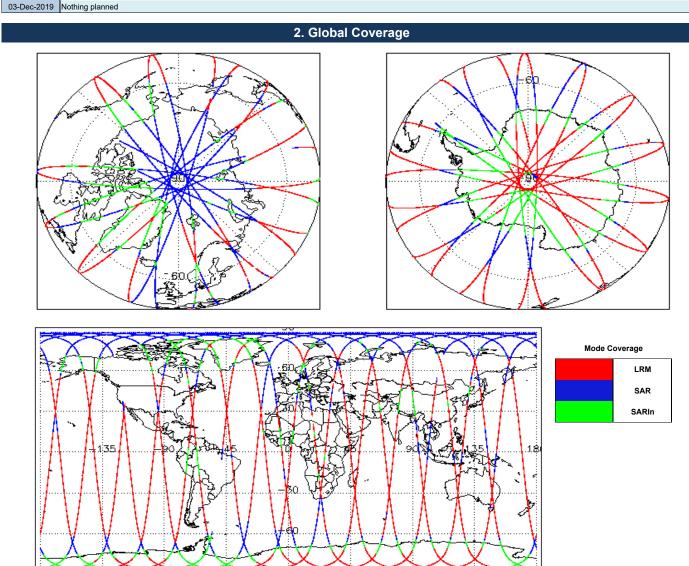
# **QA4EO Daily Report for GOP data:**

<u>02/12/2019</u>

Report Production:	02-Jan-2020	Check	L1 & L2	P2P
Report Production.	02-Jan-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	Crucest Occan Brasson	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor used.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Dete Heedu	Data Used: Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Useu.		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			
01-Dec-2019	None		
02-Dec-2019	None		
00 D 0040			



# 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 and	SPH in order to identify any inconsiste	encies and/or errors raised by the ground-segment processing chain.
LIB Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B OSARIn chains. A modification is required in the next release.	GOPR and GOPN products because	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 pre-	-determined baseline and also to chec	k the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement record	I. The bit value of this flag indicates an	y 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 measurem	ent record. The bit value of this flag in	dicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for GOPR produ	ucts due to a configuration issue. This	is being investigated and will be updated in the next SW update.
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement record.	. The bit value of this flag indicates any	y problems when set.
.oss of Echo Flag: This flag is currently set for some products over land, but t	his is to be expected.	
Number of products with errors: 25		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20191202T134122_20191202T134949_C001	Loss of Echo	
		The tracking echo is missing for one or more records
	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001		The tracking echo is missing for one or more records
S_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001 S_OFFL_SIR_GOPM1B_20191202T203210_20191202T203414_C001	Loss of Echo	
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001 CS_OFFL_SIR_GOPM1B_20191202T203210_20191202T203414_C001 CS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001 CS_OFFL_SIR_GOPM1B_20191202T203210_20191202T203414_C001 CS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001 CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001	Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001 CS_OFFL_SIR_GOPM1B_20191202T203210_20191202T203414_C001 CS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001 CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001 CS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001 CS_OFFL_SIR_GOPM1B_20191202T203210_20191202T203414_C001 CS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001 CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001 CS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001 CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001 CS_OFFL_SIR_GOPM1B_20191202T203210_20191202T203414_C001 CS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001 CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001 CS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001 CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001 CS_OFFL_SIR_GOPN1B_20191202T022250_20191202T032419_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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
SS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001         SS_OFFL_SIR_GOPM1B_20191202T03210_20191202T203414_C001         SS_OFFL_SIR_GOPM1B_20191202T004139_20191202T004409_C001         SS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001         SS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001         SS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001         SS_OFFL_SIR_GOPN1B_20191202T032250_20191202T032419_C001         SS_OFFL_SIR_GOPN1B_20191202T035940_20191202T032419_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001 CS_OFFL_SIR_GOPM1B_20191202T203210_20191202T203414_C001 CS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001 CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001 CS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001 CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001 CS_OFFL_SIR_GOPN1B_20191202T032250_20191202T032419_C001 CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001 CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001 CS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001	Loss of Echo	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
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001 CS_OFFL_SIR_GOPM1B_20191202T203210_20191202T203414_C001 CS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001 CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001 CS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001 CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001 CS_OFFL_SIR_GOPN1B_20191202T032250_20191202T032419_C001 CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001 CS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001 CS_OFFL_SIR_GOPN1B_20191202T045711_20191202T154454_C001	Loss of Echo	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
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001           CS_OFFL_SIR_GOPM1B_20191202T03210_20191202T03414_C001           CS_OFFL_SIR_GOPM1B_20191202T004139_20191202T004409_C001           CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001           CS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001           CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001           CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T032419_C001           CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001           CS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001           CS_OFFL_SIR_GOPN1B_20191202T154406_20191202T154454_C001           CS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001	Loss of Echo	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
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001           CS_OFFL_SIR_GOPM1B_20191202T203210_20191202T03414_C001           CS_OFFL_SIR_GOPM1B_20191202T004139_20191202T004409_C001           CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001           CS_OFFL_SIR_GOPN1B_20191202T024043_20191202T022306_C001           CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001           CS_OFFL_SIR_GOPN1B_20191202T02250_20191202T032419_C001           CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001           CS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001           CS_OFFL_SIR_GOPN1B_20191202T154406_20191202T154454_C001           CS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001           CS_OFFL_SIR_GOPN1B_20191202T040455_20191202T0715_C001	Loss of EchoLoss of Echo	The tracking echo is missing for one or more records
SS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001           SS_OFFL_SIR_GOPM1B_20191202T203210_20191202T203414_C001           SS_OFFL_SIR_GOPM1B_20191202T004139_20191202T004409_C001           SS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001           SS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001           SS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001           SS_OFFL_SIR_GOPN1B_20191202T03250_20191202T032419_C001           SS_OFFL_SIR_GOPN1B_20191202T035940_20191202T032419_C001           SS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001           SS_OFFL_SIR_GOPN1B_20191202T154406_20191202T154454_C001           SS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001           SS_OFFL_SIR_GOPN1B_20191202T204355_20191202T204715_C001           SS_OFFL_SIR_GOPN1B_20191202T204355_20191202T204715_C001	Loss of EchoLoss of Echo	The tracking echo is missing for one or more records
SS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001         SS_OFFL_SIR_GOPM1B_20191202T03210_20191202T203414_C001         SS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001         SS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001         SS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001         SS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001         SS_OFFL_SIR_GOPN1B_20191202T03250_20191202T032419_C001         SS_OFFL_SIR_GOPN1B_20191202T035940_20191202T032419_C001         SS_OFFL_SIR_GOPN1B_20191202T035940_20191202T050042_C001         SS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001         SS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001         SS_OFFL_SIR_GOPN1B_20191202T1204355_20191202T172635_C001         SS_OFFL_SIR_GOPN1B_20191202T204355_20191202T204715_C001         SS_OFFL_SIR_GOPN1B_20191202T235231_20191202T204715_C001         SS_OFFL_SIR_GOPN1B_20191202T030340_20191202T000710_C001	Loss of EchoLoss of Echo	The tracking echo is missing for one or more records
SS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001         SS_OFFL_SIR_GOPM1B_20191202T03210_20191202T03414_C001         SS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001         SS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001         SS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001         SS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001         SS_OFFL_SIR_GOPN1B_20191202T03250_20191202T032419_C001         SS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001         SS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001         SS_OFFL_SIR_GOPN1B_20191202T154406_20191202T154454_C001         SS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001         SS_OFFL_SIR_GOPN1B_20191202T204355_20191202T204715_C001         SS_OFFL_SIR_GOPN1B_20191202T204355_20191202T0700710_C001         SS_OFFL_SIR_GOPN1B_20191202T00340_20191202T000710_C001         SS_OFFL_SIR_GOPN1B_20191202T00340_20191202T000710_C001	Loss of EchoLoss of Echo	The tracking echo is missing for one or more records
SS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001         SS_OFFL_SIR_GOPM1B_20191202T03210_20191202T03414_C001         SS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001         SS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001         SS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001         SS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001         SS_OFFL_SIR_GOPN1B_20191202T032250_20191202T032419_C001         SS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001         SS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001         SS_OFFL_SIR_GOPN1B_20191202T154406_20191202T154454_C001         SS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001         SS_OFFL_SIR_GOPN1B_20191202T204355_20191202T040715_C001         SS_OFFL_SIR_GOPN1B_20191202T204355_20191202T0715_C001         SS_OFFL_SIR_GOPN1B_20191202T00340_20191202T000710_C001         SS_OFFL_SIR_GOPN1B_20191202T014129_20191202T04414_C001         SS_OFFL_SIR_GOPR1B_20191202T0440409_20191202T044145_C001	Loss of EchoLoss of Echo	The tracking echo is missing for one or more records
SS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001         SS_OFFL_SIR_GOPM1B_20191202T03210_20191202T03414_C001         SS_OFFL_SIR_GOPM1B_20191202T004139_20191202T004409_C001         SS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004409_C001         SS_OFFL_SIR_GOPN1B_20191202T004442_20191202T0024064_C001         SS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001         SS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001         SS_OFFL_SIR_GOPN1B_20191202T03250_20191202T032419_C001         SS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001         SS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001         SS_OFFL_SIR_GOPN1B_20191202T172433_20191202T172636_C001         SS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001         SS_OFFL_SIR_GOPN1B_20191202T204355_20191202T17263519_C001         SS_OFFL_SIR_GOPN1B_20191202T000340_20191202T000710_C001         SS_OFFL_SIR_GOPN1B_20191202T0444009_20191202T044814_C001         SS_OFFL_SIR_GOPR1B_20191202T0444009_20191202T0448455_C001	Loss of EchoLoss of Echo <td>The tracking echo is missing for one or more records</td>	The tracking echo is missing for one or more records
SS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001           SS_OFFL_SIR_GOPM1B_20191202T03210_20191202T03414_C001           SS_OFFL_SIR_GOPM1B_20191202T004139_20191202T004409_C001           SS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001           SS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001           SS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001           SS_OFFL_SIR_GOPN1B_20191202T032402_20191202T032419_C001           SS_OFFL_SIR_GOPN1B_20191202T035940_20191202T032419_C001           SS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001           SS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001           SS_OFFL_SIR_GOPN1B_20191202T172133_20191202T175436_C001           SS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001           SS_OFFL_SIR_GOPN1B_20191202T03551_20191202T204715_C001           SS_OFFL_SIR_GOPN1B_20191202T035231_20191202T000710_C001           SS_OFFL_SIR_GOPR1B_20191202T040409_20191202T04814_C001           SS_OFFL_SIR_GOPR1B_20191202T044801_20191202T044835_C001           SS_OFFL_SIR_GOPR1B_20191202T044801_20191202T044835_C001           SS_OFFL_SIR_GOPR1B_20191202T044801_20191202T044835_C001	Loss of EchoLoss of Echo <td>The tracking echo is missing for one or more records</td>	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001           CS_OFFL_SIR_GOPM1B_20191202T03210_20191202T03414_C001           CS_OFFL_SIR_GOPM1B_20191202T004139_20191202T004409_C001           CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001           CS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001           CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001           CS_OFFL_SIR_GOPN1B_20191202T03250_20191202T032419_C001           CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001           CS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001           CS_OFFL_SIR_GOPN1B_20191202T172133_20191202T175436_C001           CS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001           CS_OFFL_SIR_GOPN1B_20191202T204355_20191202T204715_C001           CS_OFFL_SIR_GOPN1B_20191202T03404_20191202T000710_C001           CS_OFFL_SIR_GOPN1B_20191202T00340_20191202T000710_C001           CS_OFFL_SIR_GOPN1B_20191202T040409_20191202T044814_C001           CS_OFFL_SIR_GOPR1B_20191202T040409_20191202T044835_C001           CS_OFFL_SIR_GOPR1B_20191202T044801_20191202T044835_C001           CS_OFFL_SIR_GOPR1B_20191202T081905_20191202T082209_C001           CS_OFFL_SIR_GOPR1B_20191202T081905_20191202T082209_C001	Loss of EchoLoss of Echo <td>The tracking echo is missing for one or more records</td>	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001           CS_OFFL_SIR_GOPM1B_20191202T03210_20191202T03414_C001           CS_OFFL_SIR_GOPM1B_20191202T004139_20191202T004409_C001           CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001           CS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001           CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001           CS_OFFL_SIR_GOPN1B_20191202T03250_20191202T032419_C001           CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001           CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T050042_C001           CS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001           CS_OFFL_SIR_GOPN1B_20191202T154406_20191202T175436_C001           CS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001           CS_OFFL_SIR_GOPN1B_20191202T204355_20191202T000710_C001           CS_OFFL_SIR_GOPN1B_20191202T03404_20191202T000710_C001           CS_OFFL_SIR_GOPN1B_20191202T014129_20191202T014814_C001           CS_OFFL_SIR_GOPR1B_20191202T040409_20191202T044835_C001           CS_OFFL_SIR_GOPR1B_20191202T044801_20191202T044835_C001           CS_OFFL_SIR_GOPR1B_20191202T081905_20191202T044835_C001           CS_OFFL_SIR_GOPR1B_20191202T081905_20191202T044835_C001           CS_OFFL_SIR_GOPR1B_20191202T081905_20191202T042705700001           CS_OFFL_SIR_GOPR1B_20191202T081905_20191202T042705700001	Loss of EchoLoss of Echo <td>The tracking echo is missing for one or more records</td>	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001           CS_OFFL_SIR_GOPM1B_20191202T03210_20191202T03414_C001           CS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001           CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T004604_C001           CS_OFFL_SIR_GOPN1B_20191202T021843_20191202T022306_C001           CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001           CS_OFFL_SIR_GOPN1B_20191202T03250_20191202T032419_C001           CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001           CS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001           CS_OFFL_SIR_GOPN1B_20191202T172433_20191202T154454_C001           CS_OFFL_SIR_GOPN1B_20191202T17233_20191202T172636_C001           CS_OFFL_SIR_GOPN1B_20191202T034055_20191202T070715_C001           CS_OFFL_SIR_GOPN1B_20191202T003340_20191202T000710_C001           CS_OFFL_SIR_GOPR1B_20191202T044801_20191202T044835_C001           CS_OFFL_SIR_GOPR1B_20191202T044801_20191202T044835_C001           CS_OFFL_SIR_GOPR1B_20191202T044801_20191202T092019_C001           CS_OFFL_SIR_GOPR1B_20191202T081905_20191202T082209_C001           CS_OFFL_SIR_GOPR1B_20191202T123533_20191202T123577_C001           CS_OFFL_SIR_GOPR1B_20191202T123553_20191202T153726_C001	Loss of EchoLoss of Echo <td>The tracking echo is missing for one or more records</td>	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191202T191404_20191202T191502_C001 CS_OFFL_SIR_GOPM1B_20191202T03210_20191202T203414_C001 CS_OFFL_SIR_GOPN1B_20191202T004139_20191202T004409_C001 CS_OFFL_SIR_GOPN1B_20191202T004442_20191202T022306_C001 CS_OFFL_SIR_GOPN1B_20191202T022402_20191202T022513_C001 CS_OFFL_SIR_GOPN1B_20191202T03250_20191202T032419_C001 CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T032419_C001 CS_OFFL_SIR_GOPN1B_20191202T035940_20191202T040409_C001 CS_OFFL_SIR_GOPN1B_20191202T045711_20191202T050042_C001 CS_OFFL_SIR_GOPN1B_20191202T154406_20191202T154454_C001 CS_OFFL_SIR_GOPN1B_20191202T172133_20191202T172636_C001 CS_OFFL_SIR_GOPN1B_20191202T204355_20191202T204715_C001 CS_OFFL_SIR_GOPN1B_20191202T235231_20191202T204715_C001 CS_OFFL_SIR_GOPN1B_20191202T00340_20191202T000710_C001 CS_OFFL_SIR_GOPN1B_20191202T044801_20191202T044835_C001 CS_OFFL_SIR_GOPR1B_20191202T040409_20191202T044835_C001 CS_OFFL_SIR_GOPR1B_20191202T040409_20191202T044835_C001 CS_OFFL_SIR_GOPR1B_20191202T040409_20191202T044835_C001 CS_OFFL_SIR_GOPR1B_20191202T040409_20191202T044835_C001 CS_OFFL_SIR_GOPR1B_20191202T040409_20191202T044835_C001 CS_OFFL_SIR_GOPR1B_20191202T040409_20191202T044835_C001 CS_OFFL_SIR_GOPR1B_20191202T0144801_20191202T044835_C001 CS_OFFL_SIR_GOPR1B_20191202T081905_20191202T044835_C001 CS_OFFL_SIR_GOPR1B_20191202T081905_20191202T082209_C001 CS_OFFL_SIR_GOPR1B_20191202T014555_20191202T082209_C001 CS_OFFL_SIR_GOPR1B_20191202T155553_20191202T15575_C001 CS_OFFL_SIR_GOPR1B_20191202T155553_20191202T15575_C001 CS_OFFL_SIR_GOPR1B_20191202T154850_20191202T15575_C001 CS_OFFL_SIR_GOPR1B_20191202T155553_20191202T15553_C001 CS_OFFL_SIR_GOPR1B_20191202T154850_20191202T15555_C001 CS_OFFL_SIR_GOPR1B_20191202T154850_20191202T15555_C001	Loss of EchoLoss of Echo <td>The tracking echo is missing for one or more records</td>	The tracking echo is missing for one or more records

# 5. GOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

#### 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:

### 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).

0

0

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_20191202T220500_20191202T220539_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_20191202T000227_20191202T000340_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T004139_20191202T004409_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), Tota Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocea Tide for one or more records
CS_OFFL_SIR_GOPN_2_20191202T004442_20191202T004604_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T021843_20191202T022306_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), Tota Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocea Tide for one or more records
CS_OFFL_SIR_GOPN_2_20191202T022402_20191202T022513_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T031801_20191202T032035_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T035940_20191202T040409_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 heigi (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20191202T045711_20191202T050042_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T053839_20191202T054231_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T063820_20191202T064002_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_20191202T094726_20191202T094849_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_20191202T095415_20191202T095728_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_20191202T112659_20191202T112813_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_20191202T113313_20191202T113633_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T130748_20191202T131024_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T140305_20191202T140425_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 heig (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20191202T144510_20191202T144919_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T154220_20191202T154325_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T162517_20191202T162712_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_20191202T163533_20191202T163720_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_20191202T172133_20191202T172636_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 heig (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20191202T180450_20191202T180609_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_20191202T194613_20191202T194816_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), Tota Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocea Tide for one or more records
CS_OFFL_SIR_GOPN_2_20191202T212403_20191202T212723_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T213247_20191202T213405_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_20191202T222254_20191202T222616_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_20191202T230258_20191202T230618_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T235231_20191202T235519_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20191202T004604_20191202T004836_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOPR_2_20191202T004836_20191202T005333_C001	Topography (1)	Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20191202T022513_20191202T023035_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T032035_20191202T032250_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20191202T040409_20191202T041105_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T042447_20191202T043116_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_20191202T054231_20191202T054736_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T071929_20191202T072809_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T085843_20191202T090753_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_20191202T090958_20191202T091155_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_20191202T091535_20191202T091721_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_20191202T103432_20191202T104409_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T104409_20191202T104534_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T121622_20191202T122307_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T122307_20191202T122851_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T135557_20191202T140128_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (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_GOPR_2_20191202T140128_20191202T140304_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T153553_20191202T153726_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_20191202T153753_20191202T153952_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T153952_20191202T154220_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T171539_20191202T172133_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T185647_20191202T190153_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T202445_20191202T202543_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_20191202T203032_20191202T203210_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_20191202T203544_20191202T204355_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T221436_20191202T222254_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T235010_20191202T235231_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPR_2_20191202T235519_20191203T000311_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

### 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.

85

0

Product	Test Failed	Description
		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20191202T000710_20191202T002640_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_20191202T002711_20191202T004003_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_20191202T005819_20191202T011228_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_20191202T011628_20191202T012319_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_20191202T012342_20191202T012947_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_20191202T013143_20191202T013707_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_20191202T014814_20191202T020032_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_20191202T020154_20191202T021843_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_20191202T024110_20191202T025139_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_20191202T025342_20191202T030843_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_20191202T031109_20191202T031605_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_20191202T031642_20191202T031801_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_20191202T032452_20191202T033005_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_20191202T034229_20191202T035402_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_20191202T043302_20191202T044801_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_20191202T045042_20191202T045518_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_20191202T050207_20191202T052017_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_20191202T052020_20191202T052839_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_20191202T060210_20191202T062226_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_20191202T062318_20191202T062712_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_20191202T063046_20191202T063432_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_20191202T064133_20191202T070817_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_20191202T074034_20191202T080606_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_20191202T080854_20191202T081346_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_20191202T082209_20191202T085524_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_20191202T090754_20191202T090958_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_20191202T094031_20191202T094159_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_20191202T094849_20191202T095415_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_20191202T100052_20191202T102220_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_20191202T102507_20191202T103432_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_20191202T104650_20191202T104948_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_20191202T110619_20191202T112322_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_20191202T112813_20191202T113312_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_20191202T113943_20191202T121305_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_20191202T123757_20191202T130050_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_20191202T131025_20191202T131217_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_20191202T131927_20191202T132630_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_20191202T132633_20191202T133501_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_20191202T134122_20191202T134949_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_20191202T135334_20191202T135340_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_20191202T140425_20191202T140713_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_20191202T140907_20191202T142522_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_20191202T145216_20191202T145631_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_20191202T145823_20191202T151344_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_20191202T151544_20191202T152506_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_20191202T154325_20191202T154406_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_20191202T155235_20191202T160436_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_20191202T160940_20191202T162349_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_20191202T162712_20191202T163532_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_20191202T163811_20191202T165448_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_20191202T165703_20191202T165915_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_20191202T170817_20191202T170845_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_20191202T173634_20191202T180251_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_20191202T180854_20191202T181354_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

D. COTT, URL, COTT, 2019. 2019 102111 SIGL, 2019         Cott, Aller Core, Sigl, Sigl, Winner Resp., Sigl, Cott, Sigl, Sigl, Winner Resp., Sigl, Cott, Sigl, Sigl, Winner Resp.,	CS_0FFL_SIR_GOPM_2_20191202T181720_20191202T184223_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.
Octom         Description         Residue         term of a mode metal           CB         GHL SR GOWL 2 2019/22/15642 (001)         D/DD Amoor Ampp Cash, COD         The COD Amoor Ampp Cash, COD         The COD Amoor Ampp Cash, COD           CB         GHL SR GOWL 2 2019/22/15642 (001)         D/DD Amoor Ampp Cash, COD         The COD Amoor Ampp Cash, Cod Amp Cash, Cod Ampp Cash, Cod Amp Cash, Cod Ampp Cash, Cod Amp Cash	CS_0FFL_SIR_GOPM_2_20191202T191523_20191202T194048_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Control         Residuation         Residuation         Provide and a control           CD, DTL, SR, QOM, 2, 2019120212024.00101         Set 201900010000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20191202T194534_20191202T194613_C001		
Dig. OFFL_SR_COPN_2_2019100719688_20191027120044_001     wind the SOCIA Allinease Range and Backaster Caulty Flags have been and b	CS_OFFL_SIR_GOPM_2_20191202T194816_20191202T195416_C001		
Control         Control <t< td=""><td>CS_OFFL_SIR_GOPM_2_20191202T195636_20191202T202444_C001</td><td>and Backscatter Quality, OCOG</td><td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td></t<>	CS_OFFL_SIR_GOPM_2_20191202T195636_20191202T202444_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CBL_GRFL_SR_GOPR_2_0019120712002_001     Mol Balaccant Cuality, COCG     and Balaccant Cuality, COCG       CBL_GRFL_SR_GOPR_2_00191207121202_001     Cock Afference Range, SBLA, SWL     The COCGA Afference Range, SBLA, SWL       CBL_GRFL_SR_GOPR_2_00191207121202_0112017212021_214042_001     Cock Afference Range, SBLA, SWL     The COCGA Afference Range, SBLA, SWL       CBL_GRFL_SR_GOPR_2_001912071212021_214042_001     Cock Afference Range, SBLA, SWL     The COCGA Afference Range, SBLA, SWL       CBL_GRFL_SR_GOPR_2_001912071214031_01192071214042_001     Cockar Afference Range, SBLA, SWL     The COCGA Afference Range, SBLA, SWL       CBL_GRFL_SR_GOPR_2_001912071214031_01192071214032_001     COCGA Afference Range, SBLA, SWL     The COCGA Afference Range, SBLA, SWL       CBL_GRFL_SR_GOPR_2_001912071214031_01192071214032_001     COCGA Afference Range, SBLA, SWL     The COCGA Afference Range, SBLA, SWL       CBL_GRFL_SR_GOPR_2_001912071214032_011912071214032_0001     COCGA Afference Range, SBLA, SWL     The COCGA Afference Range, SBLA, SWL       CBL_GRFL_SR_GOPR_2_001912071221052_0119207122007_0001     COCGA Afference Range, SBLA, SWL     The COCGA Afference Range, SBLA, SWL and Backconter Cuality Flags have been at the SULE Range Range Range, SBLA, SWL and Backconter Cuality Flags have been at the SULE Range Range, SBLA, SWL and Backconter Cuality Flags have been at the SULE Range Range Range, SBLA, SWL and Backconter Cuality Flags have been at the SULE Range Range Range Range, SBLA, SWL and Backconter Cuality Flags have been at the SULE Range Range Range Range Range, SBLA, SWL and Backconter Cuality Flags have been at the SULE Range Range Range Range, SBLA, SWL and Bac	CS_OFFL_SIR_GOPM_2_20191202T202639_20191202T202755_C001		
CBUTH_DBR_QUARC_2001012011212012120120120120120120120120	CS_OFFL_SIR_GOPM_2_20191202T204716_20191202T212022_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2_OFFL_SIR_GOPM_2_20191022712103820191227121434C001 All mode Range and Backacather Quality Flags have been all more or new roots. C3_OFFL_SIR_GOPM_2_20191027121433_20191207121470_C001 DC0O Allments Range Quality.C000 The OCOO Allments Range and Backacather Quality Flags have been all more or new roots. C3_OFFL_SIR_GOPM_2_20191027121046_20191207121430_C001 DC0O Allments Range Quality.C000 The OCOO Allments Range and Backacather Quality Flags have been all more or new roots. C3_OFFL_SIR_GOPM_2_20191027121046_20191207121435_C001 DC0O Allments Range And Backacather Quality Flags have been all more or new roots. C3_OFFL_SIR_GOPM_2_20191027122046_20191207121435_C001 DC0O Allments Range and Backacather Quality Flags have been all more or new roots. C3_OFFL_SIR_GOPM_2_20191027122046_201912071221435_C001 DC0O Allments Range and Backacather Quality Flags have been all for or or new roots. C3_OFFL_SIR_GOPM_2_20191027122046_201912071220372_C001 DC0O Allments Range and Backacather Quality Flags have been all for or or new roots. C3_OFFL_SIR_GOPM_2_20191027122046_201912071220372_C001 DC0O Allments Range and Backacather Quality Flags have been all for or or new roots. C3_OFFL_SIR_GOPM_2_20191027122046_201912071220372_C001 DC0O Allments Range and Backacather Quality Flags have been all for or or new roots. C3_OFFL_SIR_GOPM_2_201910271220412_20104_C001 DC0O Allments Range and Backacather Quality Flags have been all for or or new roots. C3_OFFL_SIR_GOPM_2_201910271220412_20120_2012001 DC0O Allments Range All Backacather Quality Flags have been all for or or new roots. C3_OFFL_SIR_GOPM_2_20191027120312_20192072120312_C001 DC0O Allments Range All Backacather Quality C3_OFFL_SIR_GOPM_2_20191027120312_2019207120312_201920 DC0O Allments Range All Backacather Quality Flags have been all for or or new roots. C3_OFFL_SIR_GOPM_2_20191027120142_20192 DC0O Allments Range SIA_SVI and Backacather Quality Flags have been all for or or new roots. C3_OFFL_SIR_GOPM_2_20191027120142_20192 DC0O Allments Range SIA_SVI The Ocon Allments Range S	CS_OFFL_SIR_GOPM_2_20191202T212724_20191202T213247_C001	0 5	
Concern, Ser, Son, Conn, Z. 2019 (2012) (2012) (2012) (2012)         Badascatter Quality         for origon in more records.           CS, OFFL, SR, GOPM 2, 2019 (2012) (201	CS_OFFL_SIR_GOPM_2_20191202T213628_20191202T214042_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Column Country	CS_OFFL_SIR_GOPM_2_20191202T214331_20191202T214702_C001		
C8_OFFL_SIR_GOPM_2_20191202T22064_20191202T223527_C001 and Backstatter Duality, COOG Altereter Range SSHA. SWH and Backstatter Duality Flage have been Altered Range SSHA. SWH and Backstatter Duality Flage Altered Range SSHA. SWH and Backstatter Duality Flage have been Altered Range SSHA. SWH and Backstatter Duality Flage Altered Range SSHA. SWH and Backstatter Duality Flage Altered Range SSHA. SWH and Backstatter Duality Flage Altered Range S	CS_OFFL_SIR_GOPM_2_20191202T215645_20191202T215830_C001		
CS_OFFL_SIR_GOPM_2_20191202T22842_20191202T23312_0001       and Backscatter Quality Flags have been addition frames and Backscatter Quality Flags have been additor frames and Backscatter Quality Flags have been add	CS_OFFL_SIR_GOPM_2_20191202T221054_20191202T221435_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20191202T223812_20191202T230004_0001       and Backscatter Quality COCG       and Backscatter Quality COCG       and Backscatter Quality Flags have been at Attimeter Range and Backscatter Quality Flags have been at for one or more records.         CS_OFFL_SIR_GOPM_2_20191202T230618_20191202T230736_0001       OCCG Attimeter Range Quality, OCCG       The OCCG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191202T230731_20191202T231138_0001       OCCG Attimeter Range Quality, OCCG       The OCCG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20191202T231628_20191202T232645_0001       Occean Attimeter Range, SSH, SWH and Backscatter Quality Flags have been at the OCCGA Attimeter Range, SSH, SWH and Backscatter Quality Flags have been at the OCCGA Attimeter Range, SSH, SWH and Backscatter Quality Flags have been at the OCCGA Attimeter Range, SSH, SWH and Backscatter Quality Flags have been at the OCCGA Attimeter Range, SSH, SWH and Backscatter Quality Flags have been at the OCCGA Attimeter Range, SSH, SWH and Backscatter Quality Flags have been at the OCCGA Attimeter Range, SSH, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20191202T050339_20191202T0506210_C001       OCCGA Attimeter Range Quality, OCCGA Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20191202T0506000_20191202T060210_C001       OCCGA Attimeter Range Quality, OCCGA Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20191202T153535_C001       OCCGA	CS_OFFL_SIR_GOPM_2_20191202T222642_20191202T223527_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OS_OFFL_SIR_GOPM_2_20191202T230731_20191202T231139_C001         Backscatter Quality         for one or more records.           CS_OFFL_SIR_GOPM_2_20191202T230731_20191202T23139_C001         OCOG Altimeter Range Quality, OCOG Backscatter Quality         The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPM_2_20191202T231582_20191202T2332645_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_20191202T232333_20191202T233315_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20191202T060000_20191202T060210_C001         OCOGA Altimeter Range Quality, OCOG Backscatter Quality         The OCOGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20191202T153535_20191202T153553_C001         OCOGA Altimeter Range Quality, OCOG Backscatter Quality         The OCOGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPR_2_20191202T154816_20191202T0548656_C001         OCOGA Altimeter Range Quali	CS_OFFL_SIR_GOPM_2_20191202T223812_20191202T230004_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20191202T23626_20191202T232645_C001         Backscatter Quality         for one or more records.           CS_OFFL_SIR_GOPM_2_20191202T231626_20191202T232645_C001         Common Attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, SSHA, SWH, and Backscatter Quality Flags have been attimater Range, GOPN_2_20191202T153553_C001         CCGC Attimeter Range Quality, CCGG         The COCG Attimeter Range and Backscatter Quality Flags have been ast for one or more records.           CS_OFFL_SIR_GOPN_2_20191202T153553_C001         CCGC Attimeter Range Quality, CCGG         The CCGC Attimeter Range and Backscatter Quality Flags have been ast for one or more records.           CS_OFFL_SIR_GOPN_2_20191202T153553_C011         CCGC Attimeter Range Quality, CCGG         The CCGC Attimeter Range	CS_OFFL_SIR_GOPM_2_20191202T230618_20191202T230726_C001		
CS_OFFL_SIR_GOPM_2_20191202T232645_001       and Backscatter Quality       and the OCCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Altity Altimeter Range Altimeter Range Altimeter Range Altime	CS_OFFL_SIR_GOPM_2_20191202T230731_20191202T231139_C001		
CS_OFFL_SIR_GOPM_2_20191202T232833_20191202T2323315_C001       and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20191202T060000_20191202T060210_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20191202T153553_2001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20191202T233315_20191202T233640_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T142215_20191202T144301_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T142215_20191202T144301_C001       OCGG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T	CS_OFFL_SIR_GOPM_2_20191202T231626_20191202T232645_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20191202T053839_20191202T054231_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been         CS_OFFL_SIR_GOPN_2_20191202T060000_20191202T060210_C001       CCOG 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_20191202T153536_20191202T153553_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_20191202T153536_20191202T153553_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_20191202T153536_20191202T233840_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_20191202T054816_20191202T054958_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_20191202T144215_20191202T144301_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T151344_20191202T151521_C001 <td>CS_OFFL_SIR_GOPM_2_20191202T232833_20191202T233315_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_GOPM_2_20191202T232833_20191202T233315_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20191202T153536_20191202T153553_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPN_2_20191202T153536_20191202T153553_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_GOPN_2_20191202T153536_20191202T233640_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_GOPR_2_20191202T054816_20191202T054958_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_GOPR_2_20191202T144215_20191202T144301_C001       OCGA Altimeter Range, SSHA, SWH 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_GOPR_2_20191202T144215_20191202T144301_C001       OCean Altimeter Range, SSHA, SWH 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_GOPR_2_20191202T151324_20191202T151521_C001       OCCGA Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153852_20191202T154220_C001       OCCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20191202T053839_20191202T054231_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20191202T133330_20191202T133330_20011       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPN_2_20191202T233315_20191202T233640_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_GOPR_2_20191202T054816_20191202T054958_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_GOPR_2_20191202T144215_20191202T144301_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T151344_20191202T151521_C001       Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T152950_C001	CS_OFFL_SIR_GOPN_2_20191202T060000_20191202T060210_C001		
CS_OFFL_SIR_GOPN_2_201912021233315_201912021233040_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T054816_20191202T054958_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_GOPR_2_20191202T144215_20191202T144301_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T151344_20191202T151521_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T151344_20191202T151521_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001       Ocean Altimeter Range and Backscatter Quality flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T152352_20191202T1524220_C001       Ocean Altimeter Range and Backscatter Quality.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_2019	CS_OFFL_SIR_GOPN_2_20191202T153536_20191202T153553_C001		
CS_OFFL_SIR_GOPR_2_20191202T054816_20191202T054958_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T144215_20191202T144301_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags nave been ad the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T151344_20191202T151521_C001       OCOG Altimeter Range Quality, OCOG Backscatter 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_20191202T153952_20191202T154220_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T152952_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags nave been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T152952_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags nave been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T172637_20191202T172936_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_0FFL_SIR_GOPN_2_20191202T233315_20191202T233640_C001		
CS_OFFL_SIR_GOPR_2_20191202T144215_20191202T144301_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T151344_20191202T151521_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_20191202T153952_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T152637_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T172637_20191202T172936_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPR_2_20191202T054816_20191202T054958_C001		
CS_OFFL_SIR_GOPR_2_20191202T151344_20191202T151521_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set         CS_OFFL_SIR_GOPR_2_20191202T152637_20191202T152956_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPR_2_20191202T144215_20191202T144301_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been ocog Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPR_2_20191202T151344_20191202T151521_C001		
	CS_OFFL_SIR_GOPR_2_20191202T153952_20191202T154220_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records.	CS_OFFL_SIR_GOPR_2_20191202T172637_20191202T172936_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_20191202T185243_20191202T185437_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_20191202T203024_20191202T203029_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20191202T235010_20191202T235231_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20191202T000227_20191202T000340_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_20191202T004139_20191202T004409_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_20191202T021843_20191202T022306_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_20191202T030927_20191202T031109_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_20191202T031801_20191202T032035_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_20191202T033646_20191202T034208_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_20191202T035506_20191202T035629_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_20191202T035845_20191202T035908_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_20191202T035940_20191202T040409_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_20191202T044835_20191202T045042_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_20191202T045711_20191202T050042_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_20191202T053839_20191202T054231_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_20191202T055723_20191202T055903_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_20191202T060000_20191202T060210_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_20191202T062819_20191202T063046_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_20191202T063820_20191202T064002_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_20191202T080730_20191202T080817_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_20191202T081722_20191202T081904_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_20191202T095415_20191202T095728_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_20191202T104948_20191202T105144_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_20191202T105343_20191202T105407_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_20191202T105450_20191202T105549_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_20191202T110318_20191202T110618_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_20191202T112659_20191202T112813_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_20191202T131217_20191202T131844_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_20191202T140305_20191202T140425_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_20191202T140714_20191202T140835_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_20191202T152506_20191202T152621_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_20191202T154220_20191202T154325_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_20191202T154406_20191202T154454_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_20191202T160436_20191202T160940_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_20191202T162517_20191202T162712_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_20191202T172133_20191202T172636_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_20191202T185627_20191202T185647_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_20191202T213247_20191202T213405_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_20191202T214702_20191202T214825_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_20191202T230258_20191202T230618_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_20191202T233315_20191202T233640_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_20191202T235231_20191202T235519_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_20191202T000340_20191202T000710_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_20191202T004836_20191202T005333_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_20191202T005445_20191202T005721_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_20191202T012947_20191202T013018_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_20191202T014129_20191202T014814_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_20191202T020042_20191202T020154_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_20191202T022513_20191202T023035_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_20191202T023613_20191202T023702_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_20191202T032035_20191202T032250_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.

	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPR_2_20191202T035724_20191202T035845_C001	OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH	more records.
CS_OFFL_SIR_GOPR_2_20191202T040409_20191202T041105_C001	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_20191202T042447_20191202T043116_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_20191202T052840_20191202T053102_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_20191202T054816_20191202T054958_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_20191202T064002_20191202T064132_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_20191202T071929_20191202T072809_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_20191202T081905_20191202T082209_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_20191202T085643_20191202T085657_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_20191202T090958_20191202T091155_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_20191202T094416_20191202T094726_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_20191202T095729_20191202T100052_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_20191202T103432_20191202T104409_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_20191202T104409_20191202T104534_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_20191202T105144_20191202T105328_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_20191202T113633_20191202T113943_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_20191202T121306_20191202T121344_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_20191202T121622_20191202T122307_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_20191202T122307_20191202T122851_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_20191202T130050_20191202T130748_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_20191202T135119_20191202T135219_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_20191202T135557_20191202T140128_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_20191202T140128_20191202T140304_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_20191202T142523_20191202T142736_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_20191202T151536_20191202T151544_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_20191202T153553_20191202T153726_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_20191202T153952_20191202T154220_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_20191202T154850_20191202T155235_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_20191202T162349_20191202T162517_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_20191202T165915_20191202T170139_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_20191202T171539_20191202T172133_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_20191202T172637_20191202T172936_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_20191202T180251_20191202T180450_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_20191202T185243_20191202T185437_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_20191202T195547_20191202T195636_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_20191202T202631_20191202T202639_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_20191202T203544_20191202T204355_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_20191202T212022_20191202T212402_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_20191202T220724_20191202T220947_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_20191202T221436_20191202T222254_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_20191202T230005_20191202T230258_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_20191202T235519_20191203T000311_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

#### L2 Quality Flags (1 Hz & 1Hz PLRM)

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

191

55

155

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

Number of products with errors:

#### 5.8 L2 Ocean Retracking Quality Check

## L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

#### L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors:

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

### 6.1 P2P Product Format Check

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

#### Number of products with errors:

### 6.2 P2P Product Header Analysis

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

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products 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 Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOP_220191201T235759_20191202T004739_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20191202T004739_20191202T013713_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T013713_20191202T022652_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20191202T022652_20191202T031626_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T031626_20191202T040606_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 heigh (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20191202T040606_20191202T045540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T045540_20191202T054519_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T054519_20191202T063453_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T063453_20191202T072433_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T072433_20191202T081407_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T081407_20191202T090347_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T090347_20191202T095321_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T095321_20191202T104300_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T104300_20191202T113234_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T113234_20191202T122214_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T122214_20191202T131148_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T131148_20191202T140127_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T140127_20191202T145101_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 heigh (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220191202T145101_20191202T154041_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T154041_20191202T163015_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T163015_20191202T171954_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T171954_20191202T180929_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 heigh (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20191202T180929_20191202T185908_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T185908_20191202T194842_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20191202T194842_20191202T203822_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T203822_20191202T212756_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T212756_20191202T221735_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220191202T221735_20191202T230709_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20191202T235649_20191203T004623_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

6.5 P2P Measurement Confide	6.5 P2P Measurement Confidence Data Check			
CryoSat P2P data includes a measurement of	onfidence flag for each 20-Hz measurement record. The bit value of this flag indicates 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 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.			
Since the P2P Quality Flags are copied directly	ectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.			
Number of products with errors:	29			
P2P Quality Flags (20Hz PLRM)				
Since the P2P Quality Flags are copied directly	ectly 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 (1 Hz & 1Hz PL	RM)			
Since the P2P Quality Flags are copied dia	ectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.			
Number of products with errors:	30			
6.8 P2P Ocean Retracking Qua	ality Check			
<b>P2P Retracking Flags (20Hz)</b> Cryosat P2P data includes an ocean retracki	ng 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): Th	is flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.			
Number of products with errors:	26			
P2P Retracking Flags PLRM				
CryoSat L2 data includes an ocean retracking	g 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): Th	is 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			