

QA4EO Daily Report for GOP data:

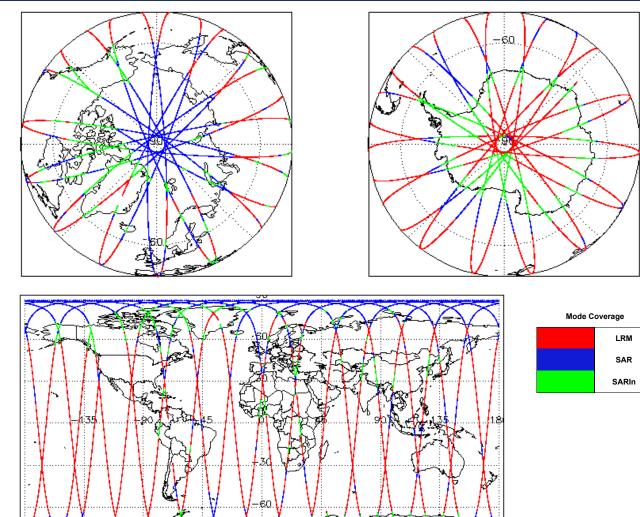
<u>13/01/2021</u>

an aut Duaduation.	12-Feb-2021	Check	L1 & L2	P2P
Report Production:	12-Feb-2021	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

1. Overview

Mission / Instrument News		
12-Jan-2021	None	
13-Jan-2021	None	
14-Jan-2021	Nothing planned	





3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

na i postada esena of postalende en la viel mente en la UI BOPH and EXPH postales teace to III processing coulty of the 3 or detectory dordeney of a local Control or detectory dordeney of an experimental esenance of the postale and entrol of the 3 or detectory dordeney of a local Control or detectory dordeney of a local Co	4.0 L4D Dreduct Has day Average				
<form> By Departing the The The Section for any basic party on the UP DEPA are DEPA ARE</form>	4.2 L1B Product Header Analysis				
3.194 Auxilary Oata File Usage Check The second is devided in through the lips devides in through the specific term is a devide of a darking when the lips devides in through the specific term is a dark in the lips devides in through the specific term is a dark in the lips devides in through the specific term is a dark in the lips devides in through the specific term is a dark in the lips devides in through the specific term is a dark in the lips devides in through the specific term is a dark in the lips devides a dark in	L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1E OSARIn chains. A modification is required in the next release.				
schedule accorder for meaning bala be learce plane interspect to a grie dimension of a do to the the validity of Audiany Usia Ties a control. Here a down a mean of the schedule accorder for the Usia accorder for the grie dischere are producers when and there are a down and the schedule accorder for the Usia accorder for the grie dischere are producers when and there are a down and the schedule accorder for the Usia accorder for the grie dischere are producers when and there are a down and the schedule accorder for the USIA for the grie dischere are producers when and the USIA for the USIA for the schedule accorder for the USIA for the grie dischere are producers when and the USIA for the USIA for the schedule accorder for the USIA					
approximation of the second	4.3 L1B Auxilary Data File Usage Check				
special in a field in a data in a cancer over the gir seak measurement aroad. The list value of this figs indicates any problems when and. 15.11 Bindessurement Confidence Data Check 15.11 Bindessure data membra for commenter metods 15.11 Bindessure data metodate for commenter metods 15.11 Bindessure data metodate f		e-determined baseline and also to cl	neck the validity of Auxiliary Data Files is correct.		
share and another shares and another share and a	4.4 L1B Auxiliary Correction Error Check				
	CryoSat L1B data includes a correction error flag for each measurement recorr	d. The bit value of this flag indicates	any problems when set.		
species 19 data includes a measurement conductor ang for self measurement moord. The 14 value of the high includes any products with event. I I I I I I I I I I I I I	Number of products with errors: 0				
species 19 data includes a measurement conductor ang for self measurement moord. The 14 value of the high includes any products with event. I I I I I I I I I I I I I	4.5.1.1B Measurement Confidence Data Check				
<form>the probability of the second probability o</form>		cont record. The hit value of this flag	n indicates any problems when set		
growner Mererer Mererer <t< td=""><td></td><td></td><td></td></t<>					
Bit Program Control Control Control <tdc< td=""><td>Product</td><td>Test Failed</td><td></td></tdc<>	Product	Test Failed			
The product status and worker during the status measurement records. The bit walks of the flag indicates any problems with next. See of Exp Trigs. This flag is currently set for some products over land, but this is to be expected. See of Exp CoPMIB, 2020101137000430, 2020101137004400, 20001 loss of Exb O The tracking exb Is insing for one or more records. S. OFFL, SR, COPMIB, 2020101137004002, 202010113700440, 2000 SR, OFFL, SR, COPMIB, 202010113700430, 202010113700440, 2001 loss of Exb O The tracking exb Is insing for one or more records. S. OFFL, SR, COPMIB, 20210113700430, 20210113100440, 2001 SR, OFFL, SR, COPMIB, 20210113100430, 20210113100440, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113100430, 20210113103040, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 202101131010400, 20210113103000, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 202101131031010, 20210113103000, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 202101131031010, 20210113103000, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113103000, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113103400, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113103400, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113103400, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113	CS_OFFL_SIR_GOPM1B_20210113T231656_20210113T231718_C001	Power scaling error	-		
The product status and worker during the status measurement records. The bit walks of the flag indicates any problems with next. See of Exp Trigs. This flag is currently set for some products over land, but this is to be expected. See of Exp CoPMIB, 2020101137000430, 2020101137004400, 20001 loss of Exb O The tracking exb Is insing for one or more records. S. OFFL, SR, COPMIB, 2020101137004002, 202010113700440, 2000 SR, OFFL, SR, COPMIB, 202010113700430, 202010113700440, 2001 loss of Exb O The tracking exb Is insing for one or more records. S. OFFL, SR, COPMIB, 20210113700430, 20210113100440, 2001 SR, OFFL, SR, COPMIB, 20210113100430, 20210113100440, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113100430, 20210113103040, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 202101131010400, 20210113103000, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 202101131031010, 20210113103000, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 202101131031010, 20210113103000, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113103000, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113103400, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113103400, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113103400, 2001 loss of Exb O SR, OFFL, SR, COPMIB, 20210113103100, 20210113	4.0.1.4.D.Wesseferme Onesen Data Obser				
a c f a f a f a f a f a f a f a f a f a	4.6 L1B Waveform Group Data Check				
Section of		-	any problems when set.		
Test Pailed Description BS, OFF, BR, COPMIE_20201013700309, 202101131000397, 2001 Loss of Exho The tracking exho is missing for one or more records SS, OFF, BR, COPMIE_20210113701400320, 202101137002542, 2001 Loss of Exho The tracking exho is missing for one or more records SS, OFF, BR, COPMIE_20210113702530, 202101137002542, 2001 Loss of Exho The tracking exho is missing for one or more records SS, OFF, BR, COPMIE_20210113702530, 202101137002542, 2001 Loss of Exho The tracking exho is missing for one or more records SS, OFF, BR, COPMIE_20210113702522, 202101137032074, 2001 Loss of Exho The tracking exho is missing for one or more records SS, OFF, BR, COPMIE_20210113702522, 202101137032074, 2001 Loss of Exho The tracking exho is missing for one or more records SS, OFF, BR, COPMIE_202101137013702, 2021011371032074, 2001 Loss of Exho The tracking exho is missing for one or more records SS, OFF, BR, COPMIE_20210113711371474, 2001 Loss of Exho The tracking exho is missing for one or more records SS, OFF, BR, COPMIE_20210113711371474, 2001 Loss of Exho The tracking exho is missing for one or more records SS, OFF, BR, COPMIE_20210113711371474, 2001 Loss of Exho The tracking exho is missing for one or more records SOFF_SR, BR, COPMIE_202101137121471474, 200					
Sp. OFFL, SiR, GOPHIB, 20210113700309, 20210113700301, C001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 2021011370171310, 20210113700746, 2001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 202101137007219, 202101137072747, C001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 202101137072747, C001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 2021011371072747, 2021011371370274, C001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 202101137127287, 2021011371370320, C001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 202101137127307, C001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 2021011371371832, 202101137137302, C001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 202101137137484, 2021011371374478, 2001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 20210113713749, 20210113723714, 2001 Loss of Exion The tracking ocho is missing for one or more records Sp. OFFL, SiR, COPHIB, 20210113723749, 20210113723744, 2001 Loss of Exion The tracking o		Tost Failed	Description		
Big OFFL SIR OOPNIE 20210113T02340. 20210113T02474. C001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T02330. 20210113T028774. C001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T02330. 20210113T02877. 202101 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T0213720.20210113T023710. C001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T0217227. 2021013T213101. 2001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T023710. 20210113T023710. 2001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T14914. 20210113T14748. 2001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T231910. 20210113T231910. 2001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T231910. 20210113T231910. 2001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T231910. 20210113T231910. 2001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T231910. 20210113T231910. 2001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T231910. 2001 Loss of Exbo The tracking exbo is missing for one or more records Sig OFFL SIR OOPNIE 20210113T231910. 2001 Loss of Exbo The tracking exbo is missing	CS_OFFL_SIR_GOPM1B_20210113T000339_20210113T003610_C001				
B3, OFFSIR_GOPNIB_20210113702136_2021011370247_0001 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_20210113708330_202101137080740_0001 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_20210113718171837_0001 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_202101137181712527_202101137123017_0001 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_20210113718141742.0001 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_20210113718917_922101137199327_0001 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_20210113712347_92201013723191_0001 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_2021011372347_92201013723491_0001 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_2021011372347_92201013723491_0001 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_202101372347_9220101372347_901 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_202101372347_901 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_202101372347_901 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_202101372347_901 Loss of Edva The tracking edva is missing for one or more records B3, OFFSIR_GOPNIB_202101372347_001	CS_OFFL_SIR_GOPN1B_20210113T014000_20210113T014156_C001	Loss of Echo			
Bit OFFL SIN GOPNIB 20210113700330_20210113703074_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 2021011371212277_202101137121307_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 2021011371212277_202101137121307_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 202101137180010_2021011371800330_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 20210113718014_2021011371193215_2021011371193210_001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 20210113718314_2021011371193215_20210113723191_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 202101137193215_20210113723191_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 202101137193215_20210113723191_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 20210113723191_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 2021013723191_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 2021013723191_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 2021013723191_0001 Loss of Echo The tracking echo is missing for one or more records Bit OFFL SIN GOPNIB 2021013723191_0001 Loss of Echo The tracking echo is missing for one or more records B	CS_OFFL_SIR_GOPN1B_20210113T062350_20210113T062854_C001	Loss of Echo	The tracking echo is missing for one or more records		
By OFFL SIR GOPNIB _02101131181137_02101131181337_0011 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPNIB _0210113120207_20210113120010_0011 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPNIB _0210113113010_0010_001113100000_0011 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _0210113113010_0010_0011131100000_0011 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _0210113113114314_02101131144748_0011 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _0210113113114314_021011311319527_0011 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _02101131132145_02101131133194_0001 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _0210113123452_0210113123414_0001 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _0210113123452_0210113123416_0001 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _0210113123452_0210113123416_0001 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _0210113123452_0210113123416_0001 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _0210113123452_0210113123416_0001 Loss of Echo The tracking echo is missing for one or more records By OFFL SIR GOPRIB _0210113123452_0210113123416_001 Loss of Echo The tracking echo is missing for one or more	CS_OFFL_SIR_GOPN1B_20210113T072136_20210113T072747_C001	Loss of Echo	The tracking echo is missing for one or more records		
B2, OFFL_SIR_GOPNIE_2021011371212227_2021011371213017_001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_202101137030101_202101137002016_0001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_202101137108215_202101137108327_0001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_202101137108215_202101137108327_0001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_202101137109215_202101137109321_0001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_20210113712931719_202101137231914_0001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_20210113712931719_202101137231914_0001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_2021011371294252_2021011371294810_0001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_202101137129425 D20101137234810_0001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_202101137129425 D20101137234810_0001 Loss of Erbo The tracking echo is missing for one or more records B2, OFFL_SIR_GOPRIE_202101137129426 D20101137234825_2021011371294810_0001 Loss of Erbo The tracking echo is missing for one or more records B3, OFEL_SIR_GOPRIE_202101137129426 D20101137234826_20210113724810_0001 Loss of Erbo The tracking echo is missing for one or more records B3, OFEL_SIR_GOPRIE_20210113	CS_OFFL_SIR_GOPN1B_20210113T080330_20210113T080740_C001	Loss of Echo	The tracking echo is missing for one or more records		
B3_OFFL_SIR_GOPRIB_20210113T03010_20210113T030010_0001 Loss of Echo The tracking echo is missing for one or more records B3_OFFL_SIR_GOPRIB_20210113T4841_20210113T14434_0001 Loss of Echo The tracking echo is missing for one or more records B3_OFFL_SIR_GOPRIB_20210113T185215_20210113T143514_0001 Loss of Echo The tracking echo is missing for one or more records B3_OFFL_SIR_GOPRIB_20210113T185215_20210113T1353191_0001 Loss of Echo The tracking echo is missing for one or more records CB_OFFL_SIR_GOPRIB_20210113T1231919_2010113T23491_0001 Loss of Echo The tracking echo is missing for one or more records CB_OFFL_SIR_GOPRIB_20210113T23495_20210113T23491_0001 Loss of Echo The tracking echo is missing for one or more records CB_OFFL_SIR_GOPRIB_20210113T23495_20210113T23491_0001 Loss of Echo The tracking echo is missing for one or more records CB_OFFL_SIR_GOPRIB_20210113T23495_20210113T23491_0001 Loss of Echo The tracking echo is missing for one or more records CB_OFFL_SIR_GOPRIB_2021013T23495_20210113T23491_0001 Loss of Echo The tracking echo is missing for one or more records CB_OFFL_SIR_GOPRIB_2021013T23495_20210113T23491_0001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20210113T181137_20210113T181337_C001	Loss of Echo	The tracking echo is missing for one or more records		
B2, OFFL_SIR_GOPRIB_20210113T080030_0201 Less of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T143814_20210113T14474_C001 Loss of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T195215_20210113T1231914_C001 Loss of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T1231914_20101 Loss of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T231914_20101 Loss of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T234625_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T234625_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T234625_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T234625_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T234625_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records B3, OFFL_SIR_GOPRIB_20210113T234625_20210113T234810_C001 0 Singer for for one or more records B3, OFFL_SIR_GOPRIB_20210137234625_20210137234810_C001 0 Singer for for for for for for for for for fo	CS_OFFL_SIR_GOPN1B_20210113T212527_20210113T213017_C001	Loss of Echo	The tracking echo is missing for one or more records		
By OFFL_SIR_GOPRIB_20210113T143814_20210113T14743_G.001 Loss of Echo The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_20210113T1953215_20210113T195327_C001 Loss of Echo The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_20210113T231719_20210113T231914_C001 Loss of Echo The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_20210113T2317234525_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_20210113T234525_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_20210113T23450_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_20210113T23450_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_20210113T23450_20210113T234810_C001 Loss of Echo The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_2021013T23450_2001 Loss of Echo The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_2021013T23450_2001 Ste OEChO The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_2021013T2355 Defta Ste OEChO The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_2021013T2355 Defta Ste OEChO The tracking echo is missing for one or more records By OFFL_SIR_GOPRIB_2021013T2355 Defta Ste OEChO The tracking echo is missing for one or more records By OFFL_SIR_GOPRIE_ELBOPRID_ELBOPRID_ELBOPRID_ELBOPRID_	CS_OFFL_SIR_GOPR1B_20210113T031019_20210113T032016_C001	Loss of Echo	The tracking echo is missing for one or more records		
bis OFFL_SIR_GOPRIB_20210113T195215_20210113T195237_0001 Loss of Echo The tracking echo is missing for one or more records the products with errors The products with errors The tracking echo is missing for one or more records the products with errors The order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors The The MINE ADD THE USABC Check the received for missing Data Set Descriptors with respect to a pre-defined index in error value is checked for missing Data Set Descriptors with respect to a pre-defined index in error value is checked for the default error value (32767). The additional issues which may are fore form this test.	CS_OFFL_SIR_GOPR1B_20210113T080010_20210113T080330_C001				
Bit OpFIL_SIR_GOPRIB_002101131231719_002101131231914_0001 Loss of Echo The tracking echo is missing for one or more records Bit OpFIL_SIR_GOPRIB_002101131234525_202101131234510_0001 Loss of Echo The tracking echo is missing for one or more records Bit OpFIL_SIR_GOPRIB_002101131234525_202101131234510_0001 S. GOP Level 2 Data Quality Check Bit OpE Level 2 Data Quality Check S. GOP Level 2 Data Quality Check S. J. L2 Product Format Check 0 S. J. L2 Product Header Analysis For all products, 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). Rumber of products with errors: 0 S. J. 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. Lumber of product with errors: 0 S. J. L2 Auxiliary Data File Usage Check Gath products, the auxiliary Correction Error Check For all products, with errors: 0 S. L2 Lauxiliary Correction Error Check For all products, the auxiliary corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wel Tropospheric Correction, Nuerse Barometric Corrections: Currently the following corrections are not computed over over acia but bits is to be expected. Checker E Bas Sate Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected. Checker E Marker Checker Error: For all products With errors: <t< td=""><td></td><td></td><td></td></t<>					
Big_OFFL_SIR_GOPRIB_20210113T234525_20210113T234500_000 Loss of Echo The tracking echo is missing for one or more records S. GOP Level 2 Data Quality Check S. L2 Product Format Check S. L2 Product Format Check S. L2 Product Format Check S. L2 Product Header Analysis For all products, with errors: 0 S. 212 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. Lumber of products with errors: 0 S. 12 A Difference Server S. 12 A Difference Server To 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. Lumber of product swith errors: 0 S. 12 A Difference Server S. 12 A Difference Server S. 12 A Division Data File Usage Checks S. 14 Division Data Correction Error Check S. 14 Division Data Correction Error Checks S. 14 Division Data Correction errors raised in the Level 2 products which are expected due to surface type. All common files are summarised in the list before doreword and Viving correction errors raised in the Usevel 2 products which are expected due to surface type. All common files are summarised in the list before doreword and Viving 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 or in products with any Viving components of the ECMWF model wind vector. This is a known anomaly (C					
S. COP Level 2 Data Quality Check S. L2 Product Format Check S. L2 Product Format Check S. L2 Product Format Check S. L2 Product setters 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). Rember of products with errors: 0 S. 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 chein. Lumber of products with errors: 0 S. 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. Lumber of products with errors: 0 S. L2 Auxiliary Correction Error Check For all products, the auxiliary corrections errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list before or reproducts with any additional issues which may arise from this test. ECMVF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Iwerse Barometric for reproducts and but U-Wind and V-Wind components of the ECMVF model wind vector. This is a known anomaly (GRVO-COP-3) and will be resolved in a future IPF update. The affected products over sea ice, but this is to be expected. 4. Minetric Wind Speed Error: The error value is currently set for products over sea ice, but this is to be expected. 4. Minetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. 4. Minetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. 4. Minetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. 4. Minetric Wind Speed Error: The error value is currently set for products over land and					
S.1 L2 Product Format Check Stach 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). Itumber of products with errors: 0 3.2 L2 Product Header Analysis or 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. Itumber of products with errors: 0 3.3 L2 Auxiliary Data File Usage Check ach 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. Itumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check for all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Turrently, 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 beloo 1.4 EVMV Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Inverse Barometric 2. ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Inverse Barometric 3. Ecom He L-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 4. Attimetric Wind Speed Error: The error value is currently set for products over sea ice, but this is to be expected. 4. Attimetric Wind Speed Error: The error value is currently set for products over sea ice, but this is to be expected. 4. Attimetric Wind Speed Error: The error value is currently set for products over sea ice, but this is to be expected. 4. Attimetric Wind Speed Error: The error value is currently set for products over sea ice, but this is to be expected. 4. Att					
isach 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). Itember of products with errors: 0 5.2 L2 Product Header Analysis or 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. Itember of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Itember of products with errors: 0 5.4 L2 Auxiliary Data File Usage Check Itember of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Charrently, 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 beloo Bolowed by a table highlighting any additional issues which may arise from this test. ECMWF Meteo Corrections: Currently the following corrections are not computed wire CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Corection, Inverse Barometric Correction and will be resolved in a future IPF update. The affected products or ersolved in the table below. See State Blas & See State Blas 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. Itember of products with errors: 54	5. GC	DP Level 2 Data Qual	ity Check		
isach 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). Itember of products with errors: 0 5.2 L2 Product Header Analysis or 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. Itember of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Itember of products with errors: 0 5.4 L2 Auxiliary Data File Usage Check Itember of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Charrently, 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 beloo Bolowed by a table highlighting any additional issues which may arise from this test. ECMWF Meteo Corrections: Currently the following corrections are not computed wire CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Corection, Inverse Barometric Correction and will be resolved in a future IPF update. The affected products or ersolved in the table below. See State Blas & See State Blas 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. Itember of products with errors: 54	5.1 L2 Product Format Check				
ior 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. Iumber of products with errors:	Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML he	ader file (.HDR) and a binary product file (.DBL).		
ior 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. Iumber of products with errors:	5.2.1.2 Droduct Header Analysia				
Lumber 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. Lumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list belocololowed 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 over sea ice, but this is to be expected. Altimetric Wind Speed Error: 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 sea ice, but this is to be expected. Autimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Autimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. <td></td> <td></td> <td></td>					
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. Lumber of products with errors: O A L 2 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 belov Dilowed 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, NVet 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 so to 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. Lumber of products with errors: 54	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				
Aumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list belog ollowed 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 or 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. • Autometrors: 54	5.3 L2 Auxiliary Data File Usage Check				
Solution of the second	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.				
 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 belor ollowed 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 is to 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. Attimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Aumber of products with errors: 54 					
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 ollowed 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 of 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. Mumber of products with errors: 54	5.4 L2 Auxiliary Correction Error Check				
ollowed 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 of 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. • Attimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. • Attimetrics: 54	For all products, the auxiliary corrections within the Geophysical Group are che	ecked for the default error value (32			
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 is of 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. Lumber of products with errors: 54			pected due to surface type. All common flags are summarised in the list below,		
Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Iumber of products with errors: 54					
lumber of products with errors: 54	> 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 of	over land and sea ice, but this is to b	e expected.		
roduct Test Failed Description	Number of products with errors: 54				
	Product	Test Failed	Description		

CS_OFFL_SIR_GOPM_2_20210113T074709_20210113T075047_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20210113T213017_20210113T213114_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20210112T235846_20210113T000339_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20210113T003858_20210113T004238_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T021825_20210113T022143_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T022655_20210113T022820_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_20210113T030917_20210113T031018_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T040602_20210113T040709_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_20210113T044825_20210113T044939_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T062350_20210113T062854_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T072136_20210113T072747_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T080330_20210113T080740_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T085217_20210113T085435_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_20210113T090105_20210113T090419_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_20210113T094214_20210113T094603_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_20210113T104158_20210113T104314_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_20210113T122105_20210113T122221_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_20210113T131425_20210113T131546_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_20210113T132053_20210113T132300_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_20210113T135109_20210113T135235_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_20210113T135756_20210113T140104_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T153052_20210113T153250_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T153656_20210113T154026_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T171135_20210113T171410_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T180646_20210113T180801_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20210113T184703_20210113T185258_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T190014_20210113T190151_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_20210113T194109_20210113T194209_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_20210113T194613_20210113T194825_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T194950_20210113T195215_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_20210113T203923_20210113T204121_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_20210113T212527_20210113T213017_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T234940_20210113T235206_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20210113T013003_20210113T013750_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T031019_20210113T032016_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T044939_20210113T045656_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T062854_20210113T063613_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T080740_20210113T081319_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_20210113T081319_20210113T081434_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_20210113T094603_20210113T095434_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T112256_20210113T113039_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T130230_20210113T130849_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T130850_20210113T131148_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T143814_20210113T144748_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T144748_20210113T144926_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T162024_20210113T162646_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T162647_20210113T162815_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T175940_20210113T180532_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T180532_20210113T180645_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T194209_20210113T194308_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T194308_20210113T194613_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T211842_20210113T212527_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T230033_20210113T230553_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210113T231656_20210113T231718_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (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.

99

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210113T000339_20210113T003610_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.
		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210113T004951_20210113T005600_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_20210113T012719_20210113T012834_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_20210113T014156_20210113T021604_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_20210113T022143_20210113T022654_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_20210113T022851_20210113T024836_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_20210113T032016_20210113T035405_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_20210113T035927_20210113T040143_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_20210113T040150_20210113T040601_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_20210113T040755_20210113T040845_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_20210113T040936_20210113T043633_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_20210113T043656_20210113T044425_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_20210113T044643_20210113T044824_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_20210113T050101_20210113T051122_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_20210113T051758_20210113T052743_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_20210113T052934_20210113T053344_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_20210113T053524_20210113T054043_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_20210113T055157_20210113T060418_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_20210113T060623_20210113T061932_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_20210113T062034_20210113T062323_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_20210113T064555_20210113T065455_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_20210113T065727_20210113T070510_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_20210113T070555_20210113T071238_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_20210113T071450_20210113T071945_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_20210113T072019_20210113T072135_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_20210113T072748_20210113T073007_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_20210113T074709_20210113T075047_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_20210113T075133_20210113T075401_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_20210113T075531_20210113T075846_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_20210113T083527_20210113T085150_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_20210113T085436_20210113T085912_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_20210113T090526_20210113T092842_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_20210113T100516_20210113T103129_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_20210113T103310_20210113T103814_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_20210113T104427_20210113T111158_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_20210113T111359_20210113T111657_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_20210113T114038_20210113T114254_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_20210113T114333_20210113T114857_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_20210113T114859_20210113T121109_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_20210113T121251_20210113T121729_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_20210113T121732_20210113T122104_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_20210113T122456_20210113T125850_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_20210113T134123_20210113T134127_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_20210113T134258_20210113T134543_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_20210113T134743_20210113T135037_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_20210113T135235_20210113T135756_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_20210113T140341_20210113T142605_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_20210113T142851_20210113T143814_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_20210113T145032_20210113T145416_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_20210113T151013_20210113T151500_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_20210113T151648_20210113T152834_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_20210113T152846_20210113T153004_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_20210113T153251_20210113T153656_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_20210113T154313_20210113T154904_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.
	1	1

CS_OFFL_SIR_GOPM_2_20210113T154913_20210113T155444_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_20210113T155709_20210113T161506_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_20210113T163426_20210113T164011_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_20210113T164142_20210113T170436_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_20210113T171410_20210113T171603_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_20210113T171908_20210113T172032_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_20210113T172236_20210113T172940_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_20210113T172953_20210113T173904_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_20210113T173906_20210113T174025_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_20210113T174506_20210113T175211_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_20210113T180807_20210113T181137_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_20210113T181337_20210113T181928_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_20210113T182055_20210113T182910_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_20210113T183529_20210113T184631_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_20210113T184633_20210113T184703_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_20210113T185552_20210113T190013_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_20210113T190155_20210113T190859_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_20210113T191014_20210113T191654_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_20210113T191834_20210113T193309_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_20210113T193343_20210113T193345_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_20210113T195646_20210113T195841_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_20210113T200402_20210113T200806_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_20210113T201207_20210113T202759_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_20210113T203047_20210113T203922_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_20210113T204138_20210113T210424_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_20210113T211150_20210113T211200_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	1	•

CS_OFFL_SIR_GOPM_2_20210113T214157_20210113T220725_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_20210113T221247_20210113T221724_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_20210113T222005_20210113T222438_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_20210113T222549_20210113T224959_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_20210113T231914_20210113T234524_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_20210113T235206_20210113T235759_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_20210113T004818_20210113T004932_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210113T094008_20210113T094131_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_20210113T113159_20210113T113237_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210113T210605_20210113T210925_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_20210113T211014_20210113T211132_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_20210113T044429_20210113T044502_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_20210113T045913_20210113T050101_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_20210113T083317_20210113T083320_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_20210113T134127_20210113T134257_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_20210113T142605_20210113T142851_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_20210113T161624_20210113T161808_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_20210113T174026_20210113T174506_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.

80

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20210112T235846_20210113T000339_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_20210113T004818_20210113T004932_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_20210113T010514_20210113T010848_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_20210113T011717_20210113T011918_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_20210113T014000_20210113T014156_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_20210113T021825_20210113T022143_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_20210113T024836_20210113T025150_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_20210113T030917_20210113T031018_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_20210113T035540_20210113T035926_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_20210113T040602_20210113T040709_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_20210113T062350_20210113T062854_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Attimeter Range, SSHA, SWH 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_20210113T064157_20210113T064554_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_20210113T072136_20210113T072747_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_20210113T080330_20210113T080740_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_20210113T082458_20210113T082727_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_20210113T085217_20210113T085435_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_20210113T090105_20210113T090419_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_20210113T094008_20210113T094131_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_20210113T094214_20210113T094603_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_20210113T095645_20210113T095731_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_20210113T100147_20210113T100515_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_20210113T111657_20210113T112256_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_20210113T122105_20210113T122221_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_20210113T125851_20210113T130019_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_20210113T130056_20210113T130230_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_20210113T131953_20210113T132020_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_20210113T150650_20210113T151012_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_20210113T171603_20210113T171907_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_20210113T172032_20210113T172228_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_20210113T175212_20210113T175330_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_20210113T194109_20210113T194209_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_20210113T194613_20210113T194825_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_20210113T194950_20210113T195215_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_20210113T200851_20210113T201207_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_20210113T211014_20210113T211132_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_20210113T221151_20210113T221247_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_20210113T224959_20210113T225105_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_20210113T234810_20210113T234930_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_20210113T235759_20210113T235926_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_20210113T012302_20210113T012620_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_20210113T013003_20210113T013750_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_20210113T013922_20210113T014000_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_20210113T025910_20210113T030015_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_20210113T030031_20210113T030156_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_20210113T030156_20210113T030917_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_20210113T031019_20210113T032016_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_20210113T044939_20210113T045656_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_20210113T045848_20210113T045908_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_20210113T045913_20210113T050101_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_20210113T060419_20210113T060623_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_20210113T062854_20210113T063613_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_20210113T080740_20210113T081319_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_20210113T081319_20210113T081434_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_20210113T082830_20210113T082905_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_20210113T082909_20210113T083314_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_20210113T094603_20210113T095434_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_20210113T104315_20210113T104426_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_20210113T112256_20210113T113039_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_20210113T113237_20210113T113331_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_20210113T122221_20210113T122455_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_20210113T130230_20210113T130849_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_20210113T131343_20210113T131425_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_20210113T131546_20210113T131608_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_20210113T132020_20210113T132043_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_20210113T140105_20210113T140340_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_20210113T143814_20210113T144748_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_20210113T161624_20210113T161808_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_20210113T162024_20210113T162646_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_20210113T162830_20210113T163231_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_20210113T164011_20210113T164142_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_20210113T170437_20210113T171135_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_20210113T175525_20210113T175549_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_20210113T175940_20210113T180532_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_20210113T182911_20210113T183124_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_20210113T194826_20210113T194949_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_20210113T195215_20210113T195327_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_20210113T204121_20210113T204137_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_20210113T211803_20210113T211842_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_20210113T211842_20210113T212527_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_20210113T230033_20210113T230553_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)		

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

205

> 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.

59

153

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.

29

Number of products with errors:

Product Test Failed Description Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20210112T235326_20210113T004302_C001 Topography (1), Total Geocentric Ocea Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records Tide (GOT) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2__20210113T004302_20210113T013241_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20210113T013241 20210113T022216 C001 Topography (1) 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_GOP_2__20210113T022216_20210113T031155_C001 Topography (1) 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 GOP 2 20210113T031155 20210113T040131 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20210113T040131_20210113T045110_C001 Topography (1) 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 GOP 2 20210113T045110 20210113T054045 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2__20210113T054045_20210113T063024_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20210113T063024_20210113T072000_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2_20210113T072000_20210113T080939_C001 Topography (1) 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_GOP_2__20210113T080939_20210113T085915_C001 Topography (1) 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 GOP 2 20210113T085915 20210113T094854 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20210113T094854 20210113T103829 C001 Topography (1) 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 GOP 2 20210113T103829 20210113T112809 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2__20210113T112809_20210113T121744_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20210113T121744_20210113T130723_C001 Topography (1) 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_GOP_2__20210113T130723_20210113T135659_C001 Topography (1) 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_GOP_2_20210113T135659_20210113T144638_C001 Topography (1) Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOP_2_20210113T144638_20210113T153613_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T153613_20210113T162552_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T162552_20210113T171528_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_220210113T171528_20210113T180507_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T180507_20210113T185442_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20210113T185442_20210113T194422_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T194422_20210113T203357_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T203357_20210113T212336_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T212336_20210113T221312_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_0FFL_SIR_GOP_2_20210113T221312_20210113T230251_C001	Mean Sea Surface (1), Mean Dynamic Topography (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_20210113T230251_20210113T235227_C002	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

6.5 P2P Measurement Confidence Data Check

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

 Number of products with errors:
 1

Product Test Failed

Product		Test Failed	Description
CS_OFFL_SIR_GOP_220210113T230251_	_20210113T235227_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
6.6 P2P Measurement Quality F	lag Check		
P2P Quality Flags (20Hz)			
CryoSat P2P data includes Quality Flags for ea	ach 20 Hz, 20 Hz PLRM and 1 Hz m	neasurement record, copied from the corre	sponding L2 products.
Since the P2P Quality Flags are copied dire	ctly from the L2 Quality Flags, ple	ease see Section 5.6 for the full list of p	roducts affected.
Number of products with errors:	30		
P2P Quality Flags (20Hz PLRM)			
Since the P2P Quality Flags are copied dire	ctly from the L2 Quality Flags, ple	ease see Section 5.6 for the full list of p	roducts affected.
Number of products with errors:	27		
P2P Quality Flags (1 Hz & 1Hz PLF	RM)		
Since the P2P Quality Flags are copied dire	ctly from the L2 Quality Flags, ple	ease see Section 5.6 for the full list of p	roducts affected.
Number of products with errors:	30		
6.8 P2P Ocean Retracking Qua	lity Check		
P2P Retracking Flags (20Hz) Cryosat P2P data includes an ocean retracking	g quality flag (field 19) for each 20-H	Iz measurement record. The bit value of th	is flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This	s flag is currently set for products G0	OPR and GOPN products over sea ice, bu	t this is to be expected.
Number of products with errors:	26		
P2P Retracking Flags PLRM			
CryoSat L2 data includes an ocean retracking	quality flag for each 20-Hz PLRM m	easurement record. The bit value of this fla	ag indicates any problems when set.

Description

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.

30

Number of products with errors:

7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	214	214	4	210	0
SIR_GOPR1B	143	143	0	143	0
SIR_GOPN1B	104	104	1	103	0
SIR_GOPM_2	214	214	147	67	0
SIR_GOPR_2	143	143	58	80	5
SIR_GOPN_2	104	104	35	69	0
SIR_GOP_P2P	29	29	0	25	4

7.1 QCC Errors

Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_GOPR_2	5	1	5	5	1	5					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

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

7.2 QCC Warnings

Dueduct Ture	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	ber of occurrences of MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN
Product Type			MIVIOEPFDINCDF	MVIOEPNCDF	MIVIONCOF		RESZOPOEPFDPLRMI
SIR_GOPM1B	210	0	0	0	0	0	0
SIR_GOPM_2	0	0	39	45	1	43	0
SIR_GOPN1B	100	0	0	0	0	0	0
SIR_GOPN_2	0	0	13	32	2	28	30
SIR_GOPR1B	142	0	0	0	0	0	0
SIR_GOPR_2	0	5	22	46	0	20	22
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF				RPEPOPFDSINNCDF
SIR GOPM1B	0		0	0			C C C C C C C C C C C C C C C C C C C
-	34	0	36	0	0	0	0
SIR_GOPM_2		0	30	0	0	0	0
SIR_GOPN1B	0	0	0	0		-	0
SIR_GOPN_2	22	0	0	0	26	0	36
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	10	0	0	42	0	49	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR GOPM1B	0	0	0	0	0	0	0
SIR GOPM 2	28	0	0	4	35	0	1
SIR GOPN1B	0	0	0	0	0	0	0
SIR GOPN 2	0	0	28	19	45	49	25
SIR GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	41	0	3	56	36	12
	0	41	o	5	50	50	12
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR GOPM1B	0	0	0	1	0	0	0
SIR GOPM 2	40	0	3	1	0	0	0
SIR GOPN1B	0	0	0	0	0	49	3
SIR GOPN 2	27	25	9	0	1	0	0
SIR GOPR1B	0	0	0	0	0	143	8
SIR_GOPR_2	28	44	4	0	9	0	0
				1		1	
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	DRBSZOPOEPNCDF
SIR_GOP_2_	17	28	29	3	28	18	28
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNC		RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNC
SIR_GOP_2_	1	15	27	23	22	29	20
Due de st Tru	DESULACIONE	DOWLOEDEDNOCS					
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCD	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR GOP 2	23	29	18	14	29		

Test Description Key:	fest Description Key:				
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean			
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			

SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter
7.3 Missing QC	C Reports	'
Number of products v	vith missing QCC reports: 0	