

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

<u>16/03/2020</u>

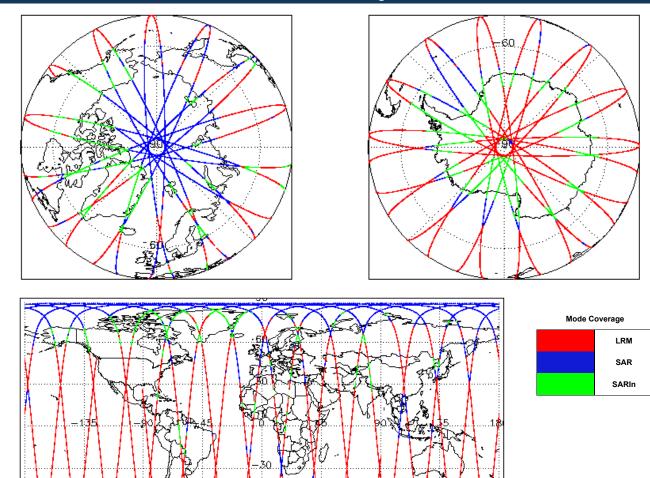
	47.4	Check	L1 & L2	P2P
Report Production:	17-Apr-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor useu.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Dala Oseu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

1. Overview

#### Mission / Instrument News 15-Mar-2020 None 16-Mar-2020 None

17-Mar-2020 Nothing planned

## 2. Global Coverage



# 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

## 4. GOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

60

Tell quarkers are used on parallel training and parallel training	4.2 L1B Product Header Analysis					
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Statistic direction of the statistic direction of the statistic direction and production	I.4 L1B Auxiliary Correction Error Check					
Statistic direction of the statistic direction of the statistic direction and production	CryoSat L1B data includes a correction error flag for each measurement recorr	d. The bit value of this flag indicates any proble	ems when set.			
Circle 11 deal values a measurement readed into the parabolic a de la acord parabolic de la acord parabolic a de la acord parabolic a de la acord parab	umber of products with errors: 0					
Circle 11 deal values a measurement readed into the parabolic a de la acord parabolic de la acord parabolic a de la acord parabolic a de la acord parab	4.5 L1B Measurement Confidence Data Check					
Actional Distance: The flags or anyon for GOVP products due to a configuration same. This is being investigated and allo be policies in the ready specifies of the specifi		nent record. The bit value of this flag indicates	any problems when set			
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A C L I B Waveform Group Data Check.  Crycles L 18 data induites a servedom tata flag for each measurement record. The bit value of the flag induces any problems when set.  Late of EDF Flag: The flag is number of products with errors in the the tas to be operated.  Name of products with errors in it is the servedom in the flag is to be operated.  Crycles AL, 2000 H 17 4924, 2000 H 17 4926, 2000 H 10 4926, 2000 H 19 4926, 2000						
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Lase of the Fug. 1: the day can under your of the one would be the to be expected.           Name         Control Sing CoDMINE_CODD011710441_202003111710452_0001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING CODMINE_CODD011710442_202003111710442_00001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING CODMINE_CODD011710442_202003111711442_202001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING COMINE_CODD011710442_20200311171142_20001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING COMINE_CODD0117111442_20003111711222001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING COMINE_COD00117111142_20003111711222001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING COMINE_COD00117111111_2000311111172_2001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING COMINE_COD0011711111_200031111172_2001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING COMINE_COD0011711111_200031111172_2001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING COMINE_COD0117111111_200031111172_2001         Loss of Exb         The trading exb is mining for one or more records           Co_FUTSING COMINE_	4.6 L1B Waveform Group Data Check					
Name of code code code code code code code code	CryoSat L1B data includes a waveform data flag for each measurement record	d. The bit value of this flag indicates any proble	ms when set.			
Test Failed         Description           C3, DFL, SM, CAPMIR, 2020031871054374, 202001871055574 (2001)         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 202003187121258, 2020031871214144, C001         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 202003187121238, 20200318712124, C001         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 20200318712138, 2020031871191224, C001         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 20200318712382, 20200318721382, C001         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 20200318723882, C001         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 202003187172882, 20200318722882, C001         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 2020031871717274, C001         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 202003187172742, C001         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 202003187172742, C001         Less of Enho         The tracking enho is missing for one or more records           C3, DFL, SM, CAPMIR, 202003187172742, C001	Loss of Echo Flag: This flag is currently set for some products over land, but	this is to be expected.				
Sc. OFTL SIN GOVMET 20203191704877 2020319175887 (2001     Loss of Echo     The tracking echo is missing for one or more records       S2_OFTL SIN GOVMET 20203191704877 2020319177888 (2001     Loss of Echo     The tracking echo is missing for one or more records       S2_OFTL SIN GOVMET 20203191702887 202031917028273 (2001)     Loss of Echo     The tracking echo is missing for one or more records       S2_OFTL SIN GOVMET 20203191701413 (2003)19171114240 (2001)     Loss of Echo     The tracking echo is missing for one or more records       S2_OFTL SIN GOVMET 2020319171143 (2003)191711142, 2003)191711142, 2003)191711142, 2003)191711142, 2003)191711142, 2003)191711142, 2003)191711142, 2003)191711142, 2003)191711142, 2003)191711142, 2003)191711147, 2001     Loss of Echo     The tracking echo is missing for one or more records       S2_OFTL SIN GOVMET 20203191711147, 2003)111117, 2001     Loss of Echo     The tracking echo is missing for one or more records       S2_OFTL SIN GOVMET 20203191711117, 200301     Loss of Echo     The tracking echo is missing for one or more records       S2_OFTL SIN GOVMET 20203191711117, 200301     Loss of Echo     The tracking echo is missing for one or more records       S2_OFTL SIN GOVMET 20203191711117, 200301     Loss of Echo     The tracking echo is missing for one or more records       S2_OFTL SIN GOVMET 20203191712204, 20031191712204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 2003119172204, 200311917	Number of products with errors: 14					
CS_OFFL_SIR_GOPH18_20203161174847_20203161174838_C001         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_202031712558_202003167121444_C001         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_2020317125720_20203167114220_001         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_20203171271449_20203167114220_001         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_2020317171117112_20201117111112_20201         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_20203171711712_20200117111112_C001         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_20203117172204_2020031617722240_001         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_2020311772204_2020031617722240_001         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_20203161772204_202031617722340_001         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_20203161772204_202031617722340_001         Los of Echo         The tacking echo is missing for one or more records           CS_OFFL_SIR_GOPH18_20203161772240_202031617722340_001         Los of Echo         The tacking echo is missing for one or more	Product	Test Failed	Description			
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CS_OFFL_SIR_GOFNIB_20200316T16142_20200316T161824_0001     Less of Exho     The tracking exho is missing for one or more records       CS_OFFL_SIR_GOFNIB_20200316T161142_202001     Less of Exho     The tracking exho is missing for one or more records       CS_OFFL_SIR_GOFNIB_20200316T22342_20200316T22342_0001     Less of Exho     The tracking exho is missing for one or more records       CS_OFFL_SIR_GOFNIB_20200316T22342_20200316T22342_0001     Less of Exho     The tracking exho is missing for one or more records       CS_OFFL_SIR_GOFNIB_20200316T11112_Z20001     Less of Exho     The tracking exho is missing for one or more records       CS_OFFL_SIR_GOFNIB_20200316T171052_0000316T111172Z7_001     Less of Exho     The tracking exho is missing for one or more records       CS_OFFL_SIR_GOFNIB_20200316T122323_000316T122372_0001     Less of Exho     The tracking exho is missing for one or more records       CS_OFFL_SIR_GOFNIB_20200316T122323_0003016T122372_C001     Less of Exho     The tracking exho is missing for one or more records       CS_OFFL_SIR_GOFNIB_20200316T122323_0003016T122372_0001     Less of Exho     The tracking exho is missing for one or more records       SL12Product Format Check     S.COP Level 2 Data Quality Check     The tracking exho is missing for one or more records       SL12 Product Format Check     0     State product with errors:     0       SL12 Product Format Check     State products with errors:     0       SL12 Product Header Analysis     0     State products with errors:						
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CS_OFFL_SIR_GOPNIB_2020316722346_2020316722348_2001     Loss of Echo     The tracking echo is missing for one or more records       CS_OFFL_SIR_GOPNIB_2020331711117_202033167111127_2001     Loss of Echo     The tracking echo is missing for one or more records       CS_OFFL_SIR_GOPRIB_202033167111272_001     Loss of Echo     The tracking echo is missing for one or more records       CS_OFFL_SIR_GOPRIB_2020316711088_202033167112274_0001     Loss of Echo     The tracking echo is missing for one or more records       CS_OFFL_SIR_GOPRIB_20203167122233_202003167122234_0001     Loss of Echo     The tracking echo is missing for one or more records       CS_OFFL_SIR_GOPRIB_20200316712234_00003167122234_0001     Loss of Echo     The tracking echo is missing for one or more records       CS_OFFL_SIR_GOPRIB_20200316712234_00003167122348_0001     Loss of Echo     The tracking echo is missing for one or more records       CS_OFFL_SIR_GOPRIB_20200316712234_00003167122348_0001     Loss of Echo     The tracking echo is missing for one or more records       CS_OFFL_SIR_GOPRIB_20200316712234_00003167122348_0001     Loss of Echo     The tracking echo is missing for one or more records       SI_OFFL_SIR_GOPRIB_20200316712234_0000316712234_0001     Loss of Echo     The tracking echo is missing for one or more records       SI_OFFL_SIR_GOPRIB_20200316712254     Loss of Echo     The tracking echo is missing for one or more records       SI_OFFL_SIR_GOPRIB_20200316712254     Loss of Echo     The tracking echo is missing for one or more records <t< td=""><td></td><td></td><td></td></t<>						
CB_OFFL_SIR_GOPNIB_2020031671223422_022003167122362_001     Loss of Echo     The tracking echo is missing for one or more records       CB_OFFL_SIR_GOPNIB_202003167111117_20200316711127_C001     Loss of Echo     The tracking echo is missing for one or more records       CB_OFFL_SIR_GOPNIB_20200316717081_820200316711227_C001     Loss of Echo     The tracking echo is missing for one or more records       CB_OFFL_SIR_GOPNIB_20200316712206_00031671227260_001     Loss of Echo     The tracking echo is missing for one or more records       CB_OFFL_SIR_GOPNIB_202003167122083_20200316722278_0001     Loss of Echo     The tracking echo is missing for one or more records       CB_OFFL_SIR_GOPNIB_202003167122083_20200316722783_0001     Loss of Echo     The tracking echo is missing for one or more records       CB_OFFL_SIR_GOPNIB_202003167122083_20200316722783_0001     Loss of Echo     The tracking echo is missing for one or more records       CB_OFFL_SIR_GOPNIB_202003167122803     Loss of Echo     The tracking echo is missing for one or more records       CB_OFFL_SIR_GOPNIB_202003167122803_20200316722783_0001     Loss of Echo     The tracking echo is missing for one or more records       CB_OFFL_SIR_GOPNIB_20201671011157_202031     Loss of Echo     The tracking echo is missing for one or more records       SIR_SOPNIB_20201671011157_202031     Loss of Echo     The tracking echo is missing for one or more records       SIR_SOPNIB_2020167101111157_202031     Loss of Echo     The tracking echo is missing for one or more records       SIR_SO						
C2_OFFL_SIR_GOPR18_2020316711117_202003167111127_001       Loss of Echo       The tracking acho is missing for one or more records         C3_OFFL_SIR_GOPR18_2020316712203_20200316712227_001       Loss of Echo       The tracking acho is missing for one or more records         C3_OFFL_SIR_GOPR18_20200316712203_20200316712227_001       Loss of Echo       The tracking acho is missing for one or more records         C3_OFFL_SIR_GOPR18_20200316712203_20200316712227_001       Loss of Echo       The tracking acho is missing for one or more records         C3_OFFL_SIR_GOPR18_20200316712203_20200316712203_48_C001       Loss of Echo       The tracking acho is missing for one or more records         C3_OFFL_SIR_GOPR18_20200316712203_48_C001       Loss of Echo       The tracking acho is missing for one or more records         Science Sign CoORNIS_20200316712203_48_C001         Loss of Echo       The tracking acho is missing for one or more records         Science Sign CoORNIS_20200316712203_48_C001         Loss of Echo       The tracking acho is missing for one or more records         Science Sign CoORNIS         Science Si						
CS_OFFL_SIR_GOPR18_20200316T170261_20200316T171227_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPR18_20200316T172204_2000316T172274_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPR18_20200316T172204_2000316T172274_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPR18_20200316T22203_1020200316T22278_001       Loss of Echo       The tracking echo is missing for one or more records         S.GOP Level 2 Data Quality Check         S.GOP Level 2 Data Quality Check         S.IOP Level 2 Data Quality Check         S.IOP Clevel 2 Data Quality on NUL header file (HDR) and a binary product file (DBL).         Number of products with errors:         0         S.IOP Clevel 2 Data Quality on S.IOP Clevel P.IOP						
CS_OFFL_SIR_GOPR18_20200316T172694_20200316T172754_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR18_20200316T122283_20200316T222726_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR18_20200316T22293_20200316T222946_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR18_20200316T22293_20200316T222946_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR18_20200316T22293_20200316T222946_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR18_20200316T22293_20200316T222946_C001 CS_OFFL_SIR_GOPR18_20200316T22931_20200316T222946_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR18_20200316T22931_20200316T229346_C001 CS_OFFL_SIR_GOPR14_20200316T22931_20200316T229346_C001 CS_OFFL_SIR_GOPR14_20200316T22931_20200316T229346_C001 CS_OFFL_SIR_GOPR14_S						
CS_OFFL_SIR_GOPR18_20200316T22283_20200316T222931_02020316T222931_02020316T222931_02020316T22934_0001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPR18_20200316T222931_02020316T222931_02020316T229344_0001         Less of Echo       The tracking echo is missing for one or more records         SCOPP Level 2 Data Quality Check         S. GOP Level 2 Data Quality Check         Scope Level Check         Scope Level Check         Scope Level Check         Scope Level 2 products with errors:         0         Scope Level 2 products with errors:         0         Scope Level 2 product hedeed for missing Data Set Descriptors with respect to a pre-defermined baseline and also to check the validity of Auxiliary Data Files is correct.         Number of products, the auxiliary correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).		Loss of Echo	The tracking echo is missing for one or more records			
S. GOP Level 2 Data Quality Check         S. GOP Level 2 Data Quality Check         S. CoP Level 2 Data Quality Check         Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (HDR) and a binary product file (DBL).         Number of products with errors:         0         S.12.2 Product Header Analysis         For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.         Number of products with errors:         0         S.12.2 Auxiliary Data File Usage Check         Each product is with errors:         0         S.12.4 Auxiliary Correction Error Check         For all products, the auxiliary corrections error 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 lasses which may are bis form that set.         Vertext Meters Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Inverse Barometric Correction, Wet Tropospheric Correction, Inverse Barometric Correction the LWF and VLWF and VLWF 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 ropoted in the tab	CS_OFFL_SIR_GOPR1B_20200316T222623_20200316T222726_C001	Loss of Echo				
S.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (HDR) and a binary product file (DBL). Number of products with errors: 0  S.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0  S.1 L2 Auxiliary Data File Usage Check Each product so the rors: 0  S.4 L2 Auxiliary Data File Usage Check Each products with errors: 0  S.4 L2 Auxiliary Correction Error Check For all products, the 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. > EdwWF Mete Corrections: Currently, the following corrections are not computed over CONTINENTAL ICE: Dry 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 lable below. > Seate 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 sea ice, but this is to be expected. Number of products with errors: 5 at Sea State Bias PLRM: The error value is currently set for products over land and 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. > Altimetric Wind Speed Error: The error value is currently set for products over sea ice, but this is to be expected. > Altinte	CS_OFFL_SIR_GOPR1B_20200316T222931_20200316T223048_C001	Loss of Echo	The tracking echo is missing for one or more records			
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (HDR) and a binary product file (DBL).         Number of products with errors:       0         5.2 L2 Product Header Analysis         For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.         Number of products with errors:       0         5.3 L2 Auxiliary Data File Usage Check         Each product s with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the 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.         > EXMW Meteo Corrections: Currently, there are some common auxiliary corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, liverse Barometric Correction, 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 lable below.         > Sastate Bias & Sea State Bias PLRM: The error value is currently set for products over saic is, but this is to be expected.         > Altimetric Wind Speed Error: The error value is currently set for products over saic is, but this is to be expected.         > Number of products with errors:       53						
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (HDR) and a binary product file (DBL). Number of products with errors:  0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors:  0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors:  0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary correction swithin 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. > EGNWF Meteo Corrections. Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction at the LWM and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-CO-3) and will be resolved in a future IPF update. The affected products are not computed 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 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. > Altinetric Wind Speed Error: The error value is currently s	5. GC	DP Level 2 Data Quality Ch	eck			
Number of products with errors:       0         5.2 L2 Product Header Analysis         For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.         Number of products with errors:       0         5.3 L2 Auxiliary Data File Usage Check         Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).         Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.         > ECMMF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Corection, 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 repredied in the table below.         > Sea State Bias A 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 sea	5.1 L2 Product Format Check					
5.2 L2 Product Header Analysis         For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.         Number of products with errors:       0         5.3 L2 Auxiliary Data File Usage Check       Each products is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, 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 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 pr	Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML header file (.I	HDR) and a binary product file (.DBL).			
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:	Number of products with errors: 0					
Number of products with errors:       0         5.3 L2 Auxiliary Data File Usage Check         Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).         Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction 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.         > Attimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.         Number of products with errors:       53         Product       Test Failed       Description         CS. OFEL SIR GOPN 2 20200316T0011434_C001       Mean Dynamic Topography (solution 1) for one    <	5.2 L2 Product Header Analysis					
Number of products with errors:       0         5.3 L2 Auxiliary Data File Usage Check         Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).         Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction 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.         > Sas 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.         Number of products with errors:       53         Product       Test Failed       Description         CS. OFEL SIR GOPN 2 20200316T0011436_20200316T0011434_C001       Mean Dynamic Topography (solution 1) for one </td <td></td> <td>d SPH in order to identify any inconsistencies a</td> <td>and/or errors raised by the ground-segment processing chain</td>		d SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain			
Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.          Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).         Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, 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 sea ice, but this is to be expected.         Number of products with errors:       53         Product       Test Failed       Description         Mean Dynamic Topography (solution 1) for one       There is an error with the Mean Dynamic Topography (solution 1) for one			maror errors relaced by the ground-segment processing chain.			
Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.          Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).         Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, 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 sea ice, but this is to be expected.         Number of products with errors:       53         Product       Test Failed       Description         Mean Dynamic Topography (solution 1) for one       There is an error with the Mean Dynamic Topography (solution 1) for one	5.2.1.2 Auviliant Data File Usaga Chaek					
Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).         Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric 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.         Number of products with errors:       53         Product       Test Failed       Description         CS_OEFL_SIR_GOPN_2_20200316T001136_20200316T001434_C001       Mean Dynamic Topography (21)       There is an error with the Mean Dynamic Topography (solution 1) for one						
5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).         Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.         > See 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.         Number of products with errors:       53         Product       Test Failed       Description         CS_OFEL_SIB_GOPN_2_2020316T001136_20200316T0011434_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution 1) for one		e-determined baseline and also to check the va	lidity 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 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. Number of products with errors: 53 Product Test Failed Description CS OFFL SIB GOPN 2 20200316T001436 20200316T001434 C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one	Number of products with errors: 0					
Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.  > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not computed 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. Number of products with errors: 53 Product Test Failed Description CS OFFL SIB GOPN 2 20200316T001136 20200316T001434 C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one	5.4 L2 Auxiliary Correction Error Check					
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.         Number of products with errors:       53         Product       Test Failed       Description         CS_OFEL_SIR_GOPN_2_2020316T001136_20200316T001434_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution 1) for one	For all products, the auxiliary corrections within the Geophysical Group are che	ecked for the default error value (32767).				
> 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.         Number of products with errors:       53         Product       Test Failed       Description         CS_OFEL_SIR_GOPN_2_2020316T001136_20200316T001434_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution 1) for one			to surface type. All common flags are summarised in the list 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. Number of products with errors: 53 Product Test Failed Description CS_OFEL_SIR_GOPN_2_20200316T001136_20200316T001434_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one	> ECMWF Meteo Corrections: Currently the following corrections are not con Correction and the U-Wind and V-Wind components of the ECMWF model win	nputed over CONTINENTAL ICE: Dry Troposp				
> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.           Number of products with errors:         53           Product         Test Failed         Description           CS_OFEL_SIR_GOPN_2_20200316T001136_20200316T001434_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (solution 1) for one		products over sea ice, but this is to be expected	ed.			
Number of products with errors:     53       Product     Test Failed     Description       CS_OFEL_SIR_GOPN_2_20200316T001136_20200316T001434_C001     Mean Dynamic Topography (1)     There is an error with the Mean Dynamic Topography (solution 1) for one						
CS_OFEL_SIR_GOPN_2_20200316T001136_20200316T001434_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one	Number of products with errors: 53					
CS_OFEL_SIR_GOPN_2_20200316T001136_20200316T001434_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one	Product	Test Failed	Description			

or more records

CS_OFFL_SIR_GOPN_2_20200316T002104_20200316T002351_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_20200316T010146_20200316T010439_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_20200316T010439_20200316T010521_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_20200316T024954_20200316T025028_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_20200316T025143_20200316T025300_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_20200316T041748_20200316T041914_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_20200316T051718_20200316T052022_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_20200316T065020_20200316T065327_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_20200316T065618_20200316T065959_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_20200316T083056_20200316T083330_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_20200316T092607_20200316T092725_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_20200316T100552_20200316T101209_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_20200316T110542_20200316T110749_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_20200316T114817_20200316T114951_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_20200316T115845_20200316T120044_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_20200316T124454_20200316T124939_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_20200316T133634_20200316T133903_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_20200316T150732_20200316T151123_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200316T155759_20200316T155856_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_20200316T164715_20200316T165028_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_20200316T182436_20200316T182900_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_20200316T183446_20200316T183605_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_20200316T191413_20200316T191824_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_20200316T201218_20200316T201405_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_20200316T205628_20200316T205729_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_20200316T215025_20200316T215250_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_20200316T223049_20200316T223348_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_20200316T223422_20200316T223632_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_20200316T232029_20200316T232249_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_20200316T232928_20200316T233350_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_20200316T010522_20200316T011448_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_GOPR_2_20200316T024214_20200316T024953_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_20200316T042142_20200316T042814_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_20200316T042814_20200316T043106_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_20200316T055955_20200316T060713_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_20200316T060713_20200316T060934_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_20200316T074128_20200316T074609_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_20200316T074609_20200316T074727_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_20200316T091936_20200316T092448_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_20200316T092448_20200316T092606_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_20200316T110127_20200316T110542_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_20200316T123643_20200316T123724_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_20200316T123724_20200316T124453_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_20200316T141516_20200316T142525_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_20200316T154759_20200316T154937_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_20200316T155856_20200316T160645_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_20200316T173827_20200316T174946_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_20200316T191825_20200316T192618_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_20200316T205730_20200316T210258_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_20200316T222623_20200316T222726_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_20200316T222931_20200316T223048_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20200316T223633_20200316T224326_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:
0

## 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20Hz)

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

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200315T234954_20200316T001131_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_20200316T001434_20200316T001837_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_20200316T001844_20200316T001852_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_20200316T002434_20200316T005100_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_20200316T012532_20200316T015109_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_20200316T015225_20200316T015751_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_20200316T015758_20200316T020123_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_20200316T020338_20200316T023719_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_20200316T030110_20200316T032150_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_20200316T032416_20200316T033052_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_20200316T033226_20200316T034029_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_20200316T034308_20200316T041748_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_20200316T043228_20200316T043312_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_20200316T050052_20200316T051020_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_20200316T051201_20200316T051717_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_20200316T052238_20200316T054531_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_20200316T054817_20200316T055741_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_20200316T060934_20200316T061017_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_20200316T061052_20200316T061352_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_20200316T062118_20200316T062612_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_20200316T062832_20200316T063423_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_20200316T063611_20200316T064926_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_20200316T065328_20200316T065617_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_20200316T070211_20200316T072936_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality	
CS_OFFL_SIR_GOPM_2_20200316T073116_20200316T073420_C001	Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200316T073116_20200316T073420_C001 CS_OFFL_SIR_GOPM_2_20200316T075232_20200316T075922_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records. The Ocean Altimeter 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records. The Ocean Altimeter 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 Ocean Altimeter 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200316T075232_20200316T075922_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records. The Ocean Altimeter 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 Ocean Altimeter 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200316T075232_20200316T075922_C001 CS_OFFL_SIR_GOPM_2_20200316T075936_20200316T082354_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	set for one or more records. The Ocean Altimeter 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 Ocean Altimeter 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 Ocean Altimeter 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. The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_GOPM_2_20200316T075232_20200316T075922_C001 CS_OFFL_SIR_GOPM_2_20200316T075936_20200316T082354_C001 CS_OFFL_SIR_GOPM_2_20200316T083330_20200316T083524_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality	set for one or more records. The Ocean Altimeter 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 Ocean Altimeter 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 Ocean Altimeter 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. 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. 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. The OCOG Altimeter Range, SSHA, SWH 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_20200316T075232_20200316T075922_C001 CS_OFFL_SIR_GOPM_2_20200316T075936_20200316T082354_C001 CS_OFFL_SIR_GOPM_2_20200316T083330_20200316T083524_C001 CS_OFFL_SIR_GOPM_2_20200316T083744_20200316T084018_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range Quality, OCOG         Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality	set for one or more records. The Ocean Altimeter 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 Ocean Altimeter 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 Ocean Altimeter 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. 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. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200316T075232_20200316T075922_C001 CS_OFFL_SIR_GOPM_2_20200316T075936_20200316T082354_C001 CS_OFFL_SIR_GOPM_2_20200316T083330_20200316T083524_C001 CS_OFFL_SIR_GOPM_2_20200316T083744_20200316T084018_C001 CS_OFFL_SIR_GOPM_2_20200316T084156_20200316T084636_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range Quality, OCOG         Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records. The Ocean Altimeter 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 Ocean Altimeter 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 Ocean Altimeter 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 OCCOG 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. 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. The OCOG Altimeter 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH 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_20200316T075232_20200316T075922_C001 CS_OFFL_SIR_GOPM_2_20200316T075936_20200316T082354_C001 CS_OFFL_SIR_GOPM_2_20200316T083330_20200316T083524_C001 CS_OFFL_SIR_GOPM_2_20200316T083744_20200316T084018_C001 CS_OFFL_SIR_GOPM_2_20200316T084156_20200316T084636_C001 CS_OFFL_SIR_GOPM_2_20200316T084727_20200316T085848_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records. The Ocean Altimeter 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 Ocean Altimeter 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 Ocean Altimeter 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 OCCOG 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. 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. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH 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_20200316T093249_20200316T093452_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_20200316T093627_20200316T094810_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_20200316T095450_20200316T100551_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_20200316T101209_20200316T101441_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_20200316T101504_20200316T101930_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_20200316T102111_20200316T103616_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_20200316T103756_20200316T104125_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_20200316T112320_20200316T114739_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_20200316T114952_20200316T115845_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_20200316T120045_20200316T122456_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_20200316T125156_20200316T132658_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_20200316T132922_20200316T133101_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_20200316T133209_20200316T133633_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_20200316T133932_20200316T141312_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_20200316T143341_20200316T150557_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_20200316T151123_20200316T151712_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_20200316T151837_20200316T154511_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_20200316T155622_20200316T155711_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_20200316T160953_20200316T164457_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_20200316T165029_20200316T165543_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_20200316T165720_20200316T170027_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_20200316T170228_20200316T170617_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_20200316T171421_20200316T171646_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_20200316T173301_20200316T173544_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_20200316T174947_20200316T175835_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_20200316T180121_20200316T182351_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_20200316T182900_20200316T183029_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_20200316T183036_20200316T183445_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_20200316T183630_20200316T184953_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_20200316T185120_20200316T185859_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_20200316T185954_20200316T190401_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_20200316T191016_20200316T191150_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_20200316T193021_20200316T193403_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_20200316T193543_20200316T200231_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_20200316T200400_20200316T200927_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_20200316T200947_20200316T201217_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_20200316T202031_20200316T203301_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_20200316T203334_20200316T205045_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_20200316T211415_20200316T212354_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_20200316T212558_20200316T214144_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_20200316T214327_20200316T214824_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_20200316T214903_20200316T215024_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_20200316T215730_20200316T220946_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_20200316T221428_20200316T222548_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_20200316T224935_20200316T225706_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_20200316T230521_20200316T232028_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_20200316T232250_20200316T232737_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_20200316T233350_20200316T235803_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_20200316T235805_20200317T000110_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_20200316T025143_20200316T025300_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_20200316T065618_20200316T065959_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_20200316T074110_20200316T074128_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_20200316T122457_20200316T122503_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_20200316T160645_20200316T160749_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_20200316T173003_20200316T173009_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_20200316T232928_20200316T233350_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_20200316T105305_20200316T105334_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_20200316T132659_20200316T132753_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_20200316T173016_20200316T173301_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_20200316T200928_20200316T200933_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

#### 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.

1

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200316T002104_20200316T002351_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_20200316T010146_20200316T010439_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_20200316T020123_20200316T020243_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_20200316T023719_20200316T024213_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_20200316T024954_20200316T025028_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_20200316T025143_20200316T025300_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_20200316T033102_20200316T033226_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_20200316T034030_20200316T034141_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_20200316T043348_20200316T043510_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_20200316T051036_20200316T051201_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_20200316T051718_20200316T052022_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_20200316T062613_20200316T062832_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_20200316T065020_20200316T065327_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_20200316T065618_20200316T065959_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_20200316T074728_20200316T075100_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_20200316T083056_20200316T083330_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_20200316T083525_20200316T083743_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_20200316T091106_20200316T091315_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_20200316T092607_20200316T092725_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_20200316T093122_20200316T093246_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_20200316T100552_20200316T101209_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_20200316T101931_20200316T102110_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_20200316T110048_20200316T110124_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_20200316T110542_20200316T110749_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_20200316T110848_20200316T111116_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_20200316T111326_20200316T111447_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_20200316T112158_20200316T112320_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_20200316T114817_20200316T114951_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_20200316T122922_20200316T123057_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_20200316T124454_20200316T124939_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_20200316T124454_20200316T124939_C001 CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001		
	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	more records. The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001 CS_OFFL_SIR_GOPN_2_20200316T133101_20200316T133208_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001 CS_OFFL_SIR_GOPN_2_20200316T133101_20200316T133208_C001 CS_OFFL_SIR_GOPN_2_20200316T150732_20200316T151123_C001	OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Backscatter Quality         OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         Ocoan Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Altimeter Range and Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Occan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been have been been been been been been been be
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001 CS_OFFL_SIR_GOPN_2_20200316T133101_20200316T133208_C001 CS_OFFL_SIR_GOPN_2_20200316T150732_20200316T151123_C001 CS_OFFL_SIR_GOPN_2_20200316T155315_20200316T155438_C001	OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Backscatter Quality         OCOG Backscatter Quality         PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range and Backscatter Quality         PLRM         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Occan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Occan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001 CS_OFFL_SIR_GOPN_2_20200316T133101_20200316T133208_C001 CS_OFFL_SIR_GOPN_2_20200316T150732_20200316T151123_C001 CS_OFFL_SIR_GOPN_2_20200316T155315_20200316T155438_C001 CS_OFFL_SIR_GOPN_2_20200316T155550_20200316T155622_C001	OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Backscatter Quality PLRM,         OCOG Backscatter Quality PLRM,         OCOG Backscatter Quality PLRM,         OCOG Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001 CS_OFFL_SIR_GOPN_2_20200316T133101_20200316T133208_C001 CS_OFFL_SIR_GOPN_2_20200316T150732_20200316T151123_C001 CS_OFFL_SIR_GOPN_2_20200316T155315_20200316T155438_C001 CS_OFFL_SIR_GOPN_2_20200316T155550_20200316T155622_C001 CS_OFFL_SIR_GOPN_2_20200316T155759_20200316T155856_C001	OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Backscatter Quality PLRM,         OCOG Backscatter Quality         OCOG Backscatter Quality PLRM,         OCOG Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SHA, SWH	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001 CS_OFFL_SIR_GOPN_2_20200316T133101_20200316T133208_C001 CS_OFFL_SIR_GOPN_2_20200316T150732_20200316T151123_C001 CS_OFFL_SIR_GOPN_2_20200316T155315_20200316T155438_C001 CS_OFFL_SIR_GOPN_2_20200316T155550_20200316T155622_C001 CS_OFFL_SIR_GOPN_2_20200316T155759_20200316T155856_C001 CS_OFFL_SIR_GOPN_2_20200316T160645_20200316T160749_C001	OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocog Altimeter Range and Backscatter Quality PLRM	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001         CS_OFFL_SIR_GOPN_2_20200316T133101_20200316T133208_C001         CS_OFFL_SIR_GOPN_2_20200316T150732_20200316T151123_C001         CS_OFFL_SIR_GOPN_2_20200316T155315_20200316T155438_C001         CS_OFFL_SIR_GOPN_2_20200316T155550_20200316T155622_C001         CS_OFFL_SIR_GOPN_2_20200316T155759_20200316T155856_C001         CS_OFFL_SIR_GOPN_2_20200316T160645_20200316T160749_C001         CS_OFFL_SIR_GOPN_2_20200316T160645_20200316T160749_C001         CS_OFFL_SIR_GOPN_2_20200316T160645_20200316T160953_C001	<ul> <li>OCOG Backscatter Quality</li> <li>OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality</li> <li>OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality</li> <li>OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality</li> <li>Ocean Altimeter Range Auge, SSHA, SWH and Backscatter Quality</li> <li>Ocean Altimeter Range Auge, SSHA, SWH and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH</li> <li>Ocean Altimeter Range, SSHA, SWH</li> <li>Ocean Altimeter Range, SSHA, SWH</li> </ul>	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001         CS_OFFL_SIR_GOPN_2_20200316T133101_20200316T133208_C001         CS_OFFL_SIR_GOPN_2_20200316T150732_20200316T151123_C001         CS_OFFL_SIR_GOPN_2_20200316T155315_20200316T155438_C001         CS_OFFL_SIR_GOPN_2_20200316T155550_20200316T155622_C001         CS_OFFL_SIR_GOPN_2_20200316T155759_20200316T155856_C001         CS_OFFL_SIR_GOPN_2_20200316T160645_20200316T160749_C001         CS_OFFL_SIR_GOPN_2_20200316T160833_20200316T160953_C001         CS_OFFL_SIR_GOPN_2_20200316T182436_20200316T182900_C001	<ul> <li>OCOG Backscatter Quality</li> <li>OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality</li> <li>OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality</li> <li>OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality</li> <li>OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> <li>Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM</li> </ul>	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter 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 Ocean Altimeter 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 OCCG Range and Backscatter Quality Flags have been set for one or more records. The OCCG Range and Backscatter Quality Flags have been set for one or more records. The OCCG Range and Backscatter Quality Flags have been set for one or more records. The OCCG Range and Backscatter Quality Flags have been set for one or more records. The OCCG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200316T125035_20200316T125156_C001         CS_OFFL_SIR_GOPN_2_20200316T133101_20200316T133208_C001         CS_OFFL_SIR_GOPN_2_20200316T150732_20200316T151123_C001         CS_OFFL_SIR_GOPN_2_20200316T155315_20200316T155438_C001         CS_OFFL_SIR_GOPN_2_20200316T155550_20200316T155622_C001         CS_OFFL_SIR_GOPN_2_20200316T155759_20200316T155856_C001         CS_OFFL_SIR_GOPN_2_20200316T160645_20200316T160749_C001         CS_OFFL_SIR_GOPN_2_20200316T160833_20200316T160953_C001         CS_OFFL_SIR_GOPN_2_20200316T182436_20200316T182900_C001         CS_OFFL_SIR_GOPN_2_20200316T183446_20200316T183605_C001	OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Backscatter Quality PLRM,         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM, OCOG         Ocean Altimeter Range and Backscatter Quality         PLRM         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         OCOG Altimeter Range, SSHA, SWH         and Backscatter Quality PLRM,         OCOG Altimeter Range Quality PLRM,         OCOG Backscatter Quality         Ocean Altimeter Range Quality PLRM,         OCOG Backscatter Quality         PLRM         OCOG Backscatter Quality         Ocean Altimeter Range, SSH	<ul> <li>more records.</li> <li>The OCOG Range and Backscatter Quality Flags have been set for one or more records.</li> <li>The OCOG Range and Backscatter Quality Flags have been set for one or more records.</li> <li>The OCOG Range and Backscatter Quality Flags have been set for one or more records.</li> <li>The OCCG Range and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.</li> <li>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.</li> </ul>

CS_OFFL_SIR_GOPN_2_20200316T211055_20200316T211220_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_GOPN_2_20200316T215025_20200316T215250_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_20200316T221056_20200316T221427_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_GOPN_2_20200316T223049_20200316T223348_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_20200316T223422_20200316T223632_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_GOPR_2_20200316T010522_20200316T011448_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_20200316T020244_20200316T020337_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_20200316T024214_20200316T024953_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_20200316T025029_20200316T025143_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_20200316T025301_20200316T025446_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_GOPR_2_20200316T042142_20200316T042814_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_20200316T043313_20200316T043348_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_GOPR_2_20200316T043511_20200316T043558_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_GOPR_2_20200316T045733_20200316T050033_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_GOPR_2_20200316T052023_20200316T052237_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_20200316T055955_20200316T060713_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_20200316T060713_20200316T060934_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_20200316T061352_20200316T061737_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_GOPR_2_20200316T073951_20200316T074110_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_20200316T074128_20200316T074609_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_20200316T075100_20200316T075148_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_20200316T075100_20200316T075148_C001 CS_OFFL_SIR_GOPR_2_20200316T091936_20200316T092448_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20200316T091936_20200316T092448_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20200316T104125_20200316T104505_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter 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 Ocean Altimeter 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 Ocean Altimeter Range, SSHA, SWH 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_20200316T111117_20200316T111157_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_20200316T123724_20200316T124453_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_20200316T141516_20200316T142525_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_20200316T155856_20200316T160645_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_20200316T164458_20200316T164715_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_20200316T170618_20200316T171227_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_20200316T172604_20200316T172754_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_20200316T173827_20200316T174946_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_20200316T201405_20200316T201651_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_20200316T201720_20200316T202031_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_20200316T205730_20200316T210258_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_20200316T210752_20200316T210807_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_20200316T210820_20200316T210942_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_20200316T210945_20200316T211025_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_20200316T215251_20200316T215531_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_20200316T222623_20200316T222726_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_20200316T222931_20200316T223048_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_20200316T223349_20200316T223421_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_20200316T223633_20200316T224326_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_20200316T225706_20200316T230521_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

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

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

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> 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.

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

#### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

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

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20200315T232914_20200316T001848_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_GOP_2_20200316T001848_20200316T010828_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_20200316T010828_20200316T015802_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_20200316T015802_20200316T024742_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_20200316T024742_20200316T033716_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_20200316T033716_20200316T042655_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_20200316T042655_20200316T051629_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_20200316T051629_20200316T060609_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_20200316T060609_20200316T065543_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_20200316T065543_20200316T074522_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_220200316T074522_20200316T083456_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_20200316T083456_20200316T092436_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_20200316T092436_20200316T101410_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_20200316T101410_20200316T110349_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_20200316T110349_20200316T115323_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_20200316T115323_20200316T124303_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_20200316T124303_20200316T133237_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_20200316T133237_20200316T142217_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_220200316T142217_20200316T151151_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200316T151151_20200316T160130_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_20200316T160130_20200316T165104_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_20200316T165104_20200316T174044_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_220200316T174044_20200316T183018_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_220200316T183018_20200316T191957_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_220200316T191957_20200316T200931_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_20200316T200931_20200316T205911_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_220200316T205911_20200316T214845_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_220200316T214845_20200316T223824_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) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records		
CS_OFFL_SIR_GOP_2_20200316T223824_20200316T232758_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_20200316T232758_20200317T001738_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
6.5 P2P Measurement Confidence Data Check				
CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.				
Number of products with errors: 0				
6.6 P2P Measurement Quality Flag Check				
P2P Quality Flags (20Hz)				
CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.				
Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.				

 P2P Quality Flags (20Hz PLRM)

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

 Number of products with errors:
 29

 P2P Quality Flags (1 Hz & 1Hz PLRM)

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

 Number of products with errors:
 30

 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20Hz)

Number of products with errors:

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

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

Number of products with errors:	27
P2P Retracking Flags PLRM	

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

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

Number of products with errors:

30

30