

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

<u>03/06/2022</u>

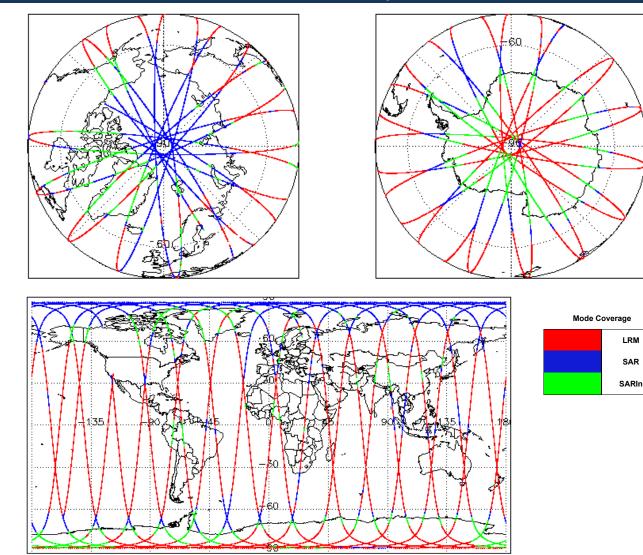
# IDEAS-QA4E0

eport Production:	01-Jul-2022	Check	L1 & L2	P2P
Report Production.	01-Jul-2022	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
Data Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

1. Overview

02-Jun-2022None03-Jun-2022None04-Jun-2022Nothing planned

2. Global Coverage



# 3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

4. GOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

Each products when errors: 0  A LIEA Auxiliary Correction Error Check  CryoSal LIB data includes a correction error fag for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0  A LIEA Auxiliary Correction Error Check  CryoSal LIB data includes a correction error fag for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0  A LIEA Correction Error Check  CryoSal LIB data includes a correction error fag for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 1  Product CryoSal LIB data includes a correction the stag is currently set in error for GOPR products due to a configuration issue. This is being investigated and with be updated in the next SW update. Number of products with errors: 1  Product CryoSal LIB data includes a currently set in error for GOPR products due to a configuration issue. 1  Product CryoSal LIB data includes a currently set of some products due to a configuration issue. 2  Product CryoSal LIB data includes a currently set of some products very link jub to be expected. 2  Product CryoSal LIB data includes a currently set of some products very link jub to be expected. 2  Product CryoSal LIB data includes a currently set of some products very link jub to be expected. 2  Product CryoSal LIB data includes a currently set of some products very link jub to be expected. 2  Product CryoSal LIB data includes a currently set of some products very link jub to be expected. 2  Product CryoSal LIB data includes a currently set of some products very link jub to be expected. 2  Product CryoSal LIB data includes a currently set of some products very link jub to be expected. 2  Product CryoSal LIB data includes a currently set of some products very link jub to be expected. 2  Product CryoSal LIB data includes a currently set of some products very link jub to be expected. 2  Product CryoSal LIB data includes a cur						
<form>  Bit Process Construction of a lange of the Construction of a lange of the Construction of Construc</form>	4.2 L1B Product Header Analysis					
<form>      Coll Control     Coll Control       Coll Control     Control       Control     Contro       Con</form>	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.					
<form>      Second secon</form>		OPR and GOPN products because the I1b	p_processing_quality_hr field is not correctly configured in the OSAR and			
A 11 B Aurian y Data File Usago Check  Categorization and the stream of the stream of the speed the speed therm will be approximate the south the stream of	·					
Response to devide to mixing that is no comparison with nargo of to explosition mixed hashin and also to devide the withing that mixed hashing that hashing that hashing that mixed hashing that hashing thathing that hashing thashing thathing that hashing thathing th	Number of products with errors: 0					
<form>         Additional concerning from the factor of the second second of the second se</form>	4.3 L1B Auxilary Data File Usage Check					
A L1 B Audillary Correction Error Check  Chycle L1 B delt radies a cancel on ten flag for each measurement (accel. The bit radie of this flag radiases may reterms the meast thank of updates a ten measurement of the CMPP produce that in the bit of the flag radiases may reterms where net  A L1 B Audillary Concepto Machine D B Check  Chycle L1 D delta chack of the set of the set of the set of the flag radiases may reterms where net  A L1 B Audillary Concepto Machine D D B Check  Chycle L1 D delta chack of the set of the set of the set of the flag radiases may reterms where net  Chycle L1 D delta chack of the set of the set of the set of the flag radiases may reterms where net  Chycle L1 D delta chack of the set of the set of the set of the flag radiases may reterms where net  Chycle L1 D delta chack of the set of the set of the flag radiases may reterms where net  Chycle L1 D delta chack of the set of the set of the set of the flag radiases may reterms where net  Chycle L1 D delta chack of the set of	Each product is checked for missing Data Set Descriptors with respect to a pre-de	termined baseline and also to check the v	alidity of Auxiliary Data Files is correct.			
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Chine Li B data hadre a consider and male for each measurement resort. The bit wale of this flag indicates any problems when set. Names of products with works in the configuration of the set of the set of Configuration of the set of the set of Configuration of Configuration of the set of Configuration of the set of Configuration of the set of Configuration of Configuration of the set of Configuration of the set of Configuration of the set of Configuration of C						
benergenergenergenergenergenergenergener	4.4 L1B Auxiliary Correction Error Check					
A LI LI Manuar on an analysis of a part of a construction of a part of a construction of a part	CryoSat L1B data includes a correction error flag for each measurement record. T	he bit value of this flag indicates any prob	lems when set.			
Open of the standard and an advance of the OPA product due to be a configuration issue. This is being investigate and will be updated in the rest SW update.         Nameber of products with arrows:       I         Product       The Failed       The Failed       The open one open open	Number of products with errors: 0					
Alter of a contrast of a contr	4.5 L1B Measurement Confidence Data Check					
Alter of a contrast of a contr	CrvoSat I 1B data includes a measurement confidence flag for each measurement	record. The bit value of this flag indicates	s any problems when set			
Name of products with servers     1       Product     Tar Failed     Description       Approx is parting with the standing of the LTB wavefund for one on one of the construction     Description       Ad LEB Waveform Group Data Check     Description on one one of the construction on one one one one of the construction on one one one one one one one one on		-				
Team         Team         Description           CS, OFE, SR, GOMME, 20200001118118100_0001         Perror saling eners         The saling of the LiB wardering of the LiB           CS, OFE, SR, GOMME, 202000011181118100_0001         Perror saling eners         The saling saling of the LiB           CS, OFE, SR, GOMME, 2020000111811118100_0001         Perror saling eners         The saling saling intermation of the LiB           CS, OFE, SR, GOMME, 20200001101515, 2020000011010240, 0001         Leas of Edo         The saling seles in mining for one or none ecords           CS, OFE, SR, GOMME, 202000011010251, 2020000011010250, 00001         Leas of Edo         The saling seles in mining for one or none ecords           CS, OFE, SR, GOMME, 202000011010251, 2020000011010250, 0001         Leas of Edo         The saling seles in mining for one or none ecords           CS, OFE, SR, GOMME, 20200001100251, 20200001100250, 0001         Leas of Edo         The saling seles in mining for one or none ecords           CS, OFE, SR, GOMME, 20200001100251, 20200001100251, 0020001110250, 0001         Leas of Edo         The saling seles in mining for one rone ecords           CS, OFE, SR, GOMME, 20200001100251, 2020001100251, 0020001         Leas of Edo         The saling seles in mining for one rone ecords           CS, OFE, SR, GOMME, 20200001100251, 0020001         Leas of Edo         The saling seles in mining for one rone ecords           CS, OFE, SR, GOMME, 202000011101261, 0020001         Leas of Edo <t< td=""><td></td><td></td><td>аа</td></t<>			аа			
CS_OFFSRGOMMED_2022900371400451_20222000371400450_20201         Power scaling env         There is an error in The scaling of the LIB seadown for one one second environment errors.           4.6 LIB Waveform Group Data Check         Comment of the scaling env         The scaling env         The scaling env           4.6 LIB Waveform Group Data Check         Comment of the scaling env         The scaling env         The scaling env           4.6 LIB Waveform Group Data Check         Comment of the scaling env         The scaling env         The scaling env           6.0 FL_SRGOMMED_202200037000000000000000000000000000000	Product	Toot Foiled	Description			
A CLIP Waveform Group Date Check  A Cycle 11 dual indudes a varyedem take lap for each measurement record. The bit waise of this flag indicates are produces where set.  Lass of Echo Flag: This flag is currently set for some produces over tand, but this is to be expected.  Set 2004 11 dual indicates and waveform take lap for each measurement record. The bit waise of this flag indicates are produces where set.  Lass of Echo Flag: This flag is currently set for some produces over tand, but this is to be expected.  Set 2004 11 dual indicates and waveform take lap for each measurement record.  Set 2004 11 dual indicates are produced waveform take lap for each measurement record.  Set 2004 11 dual indicates are produced waveform take lap for each measurement records  Set 2004 11 dual indicates are produced waveform take lap for each measurement records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform take lap for each mean records  Set 2004 11 dual indicates are produced waveform ta			There is an error in the scaling of the L1B waveform for one or more			
Cycle Li data holdes a wavfort data lag for each measurement record. The la value of his flag ladates any problems when set. Lade of Each Flag: The flag is currently of for some products over land, but this is to be oppodde Source Ling Cycle Flag. Cycle Fl			records			
La de fabre Tier, in the la uneareal per aux en une une une une une une une une une	4.6 L1B Waveform Group Data Check					
La de fabre Tier, in the la uneareal per aux en une une une une une une une une une	CrvoSat L1B data includes a waveform data flag for each measurement record. Th	ne bit value of this flag indicates any probl	ems when set			
Autor of grouts     2       Protection     In a field of the fiel						
Product         Test Pailed         Description           CS, OFFL, SR, ODMIB_202206837104213.022206837104283.02200.001         Loss of Exho         The tracking exho is missing for one or more records           CS, OFFL, SR, ODMIB_202206837104213.022206837104183.02200.001         Loss of Exho         The tracking exho is missing for one or more records           CS, OFFL, SR, ODMIB_202206837104183.02200837104183.02200837104183.02200837104183.02200837104583.02200837104583.0220083710583.0220083700582.0001         Loss of Exho         The tracking exho is missing for one or more records           CS, OFFL, SR, ODMIB_20220803705606, 2022089303020.0001         Loss of Exho         The tracking exho is missing for one or more records           CS, OFFL, SR, ODMIB_2022080370664, 202208930370110.0001         Loss of Exho         The tracking exho is missing for one or more records           CS, OFFL, SR, ODMIB_202208037071032, 202200837114410.0001         Loss of Exho         The tracking exho is missing for one or more records           CS, OFFL, SR, ODMIB_202208037071132, 20220837114418, 2022083		·				
CS, OFFL, SR, OPMIR B, 202200307100151, 2022003710433, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL, SR, OPMIR B, 20220037104312, 20220037104330, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL, SR, OPMIR B, 20220037104332, 20220037104330, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL, SR, OPMIR B, 202200371053021, 2022003711332, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL, SR, OPMIR B, 202200371053031, 20220037108032, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL, SR, OPMIR B, 202200371073034, 20220037108032, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL, SR, OPMIR B, 202200371073042, 022200371074010, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL, SR, OPMIR B, 202200371073042, 0222003717103, 001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL, SR, OPMIR B, 20220037173042, 0222003717143, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL, SR, OPMIR B, 20220037173042, 0222003717143, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL SR, OPMIR B, 20220037173042, 02220037171430, 0001     Loss of Echo     The tracking echo is missing for one or more records       CS, OFFL SR, OPMIR B, 20220037173042, 02220037171	·					
G. OFF, UR, GOPHUB, 202200037104213, 202200037104389_001     Loss of Ech     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 202200037104716, 202200037104113, 001     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 202200037104716, 202200037104113, 001     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 202200037104058, 20220037105000, 0010     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 20220037103004, 2022003700371041720, 0010     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 2022003710304, 20220037103044, 0010     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 20220037117204, 20220037103044, 0010     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 20220037117204, 20220037110406, 001     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 2022003711344, 20220837110406, 0010     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 2022003711344, 20220837110406, 0010     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 2022003711344, 20220837110406, 0010     Loss of Echo     The tracking echo is missing for one or more records       G. OFF, UR, GOPHUB, 2022003711344, 202208037110406, 0010     Loss of Ec						
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G.S. OFFL SIR. GOPHNIB 2022000371060084, 2022000371000085, 2001       Loss of Echo       The tracking echo is missing for one romore records         G.S. OFFL, SIR. OOPNIB, 202200037000841, 202200037100000, 2001       Loss of Echo       The tracking echo is missing for one romore records         G.S. OFFL, SIR. OOPNIB, 202200037003411, 2022000371004110, 2001       Loss of Echo       The tracking echo is missing for one romore records         G.S. OFFL, SIR. OOPNIB, 20220003710349, 20220003710045, 2001       Loss of Echo       The tracking echo is missing for one romore records         G.S. OFFL, SIR. OOPNIB, 20220003710349, 20220003710046, 2001       Loss of Echo       The tracking echo is missing for one romore records         G.S. OFFL, SIR. OOPNIB, 20220003710349, 20220003710046, 2001       Loss of Echo       The tracking echo is missing for one romore records         G.S. OFFL, SIR. OOPNIB, 20220003710349, 202200037100068, 2001       Loss of Echo       The tracking echo is missing for one romore records         S. OFFL SIR. OOPNIB, 20220003710344, 20220003711048, 2001       Loss of Echo       The tracking echo is missing for one romore records         S. OFFL SIR. OOPNIB, 20220003710344, 20220003711048, 2001       Loss of Echo       The tracking echo is missing for one romore records         S. OFFL SIR. OOPNIB, 2022003710344, 20220003711048, 2001       Loss of Echo       The tracking echo is missing for one romore records         S. OFFL SIR. OOPNIB, 2022003710344, 20220003711044, 2002       Loss of Echo       The tracking ech		Loss of Echo				
G.S., OFFL_SIR, GOPNIB, 20220603700304, 20220100370039, C001     Loss of Echo     The tacking echo is missing for one more records       G.S., OFFL, SIR, GOPNIB, 2022003710344, 2020103700342, C001     Loss of Echo     The tacking echo is missing for one more records       G.S., OFFL, SIR, GOPNIB, 202200371172497, 2001     Loss of Echo     The tacking echo is missing for one more records       G.S., OFFL, SIR, GOPNIB, 20220037172497, 2001     Loss of Echo     The tacking echo is missing for one more records       G.S., OFFL, SIR, GOPNIB, 2022003710344, 2022003717140, C001     Loss of Echo     The tacking echo is missing for one more records       G.S., OFFL, SIR, GOPNIB, 202200371344, 2022003717140, C001     Loss of Echo     The tacking echo is missing for one more records       G.S., OFFL, SIR, GOPRIB, 202200371344, 2022003711448, C001     Loss of Echo     The tacking echo is missing for one more records       G.S., OFFL, SIR, GOPRIB, 2022003711344, 2022003711448, C001     Loss of Echo     The tacking echo is missing for one more records       C.S., OFFL, SIR, GOPRIB, 2022003711344, 2022003711448, C001     Loss of Echo     The tacking echo is missing for one more records       C.S., OFFL, SIR, GOPRIB, 2022003711344, 2022003711448, C001     Loss of Echo     The tacking echo is missing for one more records       C.S., OFFL, SIR, GOPRIB, 2022003711344, 2022003711448, C001     Loss of Echo     The tacking echo is missing for one more records       S.S., OFFL, SIR, GOPRIB, 2022003711344, 2022003711448, C001     Loss of Echo     The tacking echo is mi	CS_OFFL_SIR_GOPN1B_20220603T041745_20220603T041931_C001	Loss of Echo	The tracking echo is missing for one or more records			
GS_OFFL_SIR_GOPNIB_202200000000004_202200000000021_C0001       Loss of Echo       The tracking echo is missing for one or more records         GS_OFFL_SIR_GOPNIB_2022000000000000000000000000000000000	CS_OFFL_SIR_GOPN1B_20220603T045638_20220603T050058_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOPNIB_20220603106384_20220603106410_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_20220631172210_2020031172210_20045_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_20220631707034_20220631707046_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_202020631707034_202206331704016_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_202020603110844_202206031114418_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2020206031113844_202206031114418_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2020206031113844_202206031114418_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2020206031113844_202206031114418_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2020206031113844_202206031114418_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2020206031113844_202206031114418_C001       Loss of Echo       The tracking echo is missing for one or more records         SIL22 Product Format Check       Eatho       The tracking echo is missing for one or more records         S						
CS_OFFL_SIR_GOPNIB_20220003T172247_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_20220003T10934_0202003T073045_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2022003T07345_2022003T071040_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2022003T07345_2022003T010068_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2022003T013644_2022003T010068_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2022003T113644_2022003T114418_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2022003T113644_2022003T114418_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2022003T114418_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPNIB_2022003T114418_C002003T114418_C001       Loss of Echo       The tracking echo is missing for one or more records         SIR_SIR_GOPNIB_2022003T114418_C002003T114418_C001       Loss of Echo       The tracking echo is missing for one or more records         SIR_SIR_GOPNIE_2022003T1924_C0020T1141184       Consol Echo       The tracking echo is missing for one or more records         SIR_SIR_GOPNIE_2022003T114418_C0020D3 </td <td></td> <td></td> <td></td>						
CS_OFF_SIR_GOPNIB_202200037109440_202200037109446_001       Loss of Exho       The tracking exho is missing for one or more records         CS_OFFL_SIR_GOPNIB_20220003709346_202200037109466_001       Loss of Exho       The tracking exho is missing for one or more records         CS_OFFL_SIR_GOPNIB_20220003709346_202200037109466_001       Loss of Exho       The tracking exho is missing for one or more records         CS_OFFL_SIR_GOPNIB_202200037113644_2022000371113644_202200037111464_C001       Loss of Exho       The tracking exho is missing for one or more records         SL2Product Format Check         SL2P Product Format Check         SL2P Product Format Check         SL2P Product Header Analysis         For all products, server, is checked to ensure it consists of both an XML header file (HDR) and a NetCDF product file (nc).         Number of products with errors:         0         SL2 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         SL2 Auxiliary Data File Usage Check         Correction: Error Check         For all products, the auxiliary correction swith respect to a pre-defermined base						
CS_OFFL_SIR_GOPR1B_202206031073045_2022060317074016_C001 Loss of Echo Loss of Echo Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_2022060317113644_202206031114418_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_202206031113644_202206031114418_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_202206031113644_202206031114418_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_202206031113644_202206031114418_C001 Loss of Echo CS_OFFL_SIR_GOPR1B_202206031114418_C001 Loss of Echo CS_OFFL_SIR_GOPR1B_20220603114418_C001 Loss of Echo CS_OFFL_SIR_GOPR1B_2020603114418_C001 Loss of Echo CS_OFFL_SIR_GOPR1B_2020604 Loss of Echo CS_OFFL_SIR_GOPR1B_2020604 Loss of Echo CS_OFFL_SIR_GOPR1B_2020604 Loss of Echo CS_OFFL_SIR_GOPR1B_202						
CS_OFFL_SIR_GOPR1B_20220803T095738_20220803T108080_C001       Loss of Echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_GOPR1B_20220803T113441_2020003T114418_C001       Loss of Echo       The tracking echo is missing for one or more records         S_COP Level 2 Data Quality Check         S.112 Product Format Check       Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).         Number of products with errors:       0         S.12 Product Header Analysis       For all products, as eries 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 Auxiliary Data File Usage Check       Each product is checked 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 corrections Error Check       For all products, the auxiliary corrections within the Geophysical Group are checked for missing are summarised in the list below, followed by a table highlighting any additional issues that may arise for mot his test.         > EdWF Meteo Corrections. Currently the following correction server the recolucts with errors are not computed ower CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vectr. This is a known anomaly (CRV-COP-2) and will	CS_OFFL_SIR_GOPR1B_20220603T070343_20220603T071103_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFIE_SIR_GOOPRIB_20220603T113444_20220603T11441e_C001       Los of Echo       The tracking echo is missing for one or more records         S. GOP Level 2 Data Quality Check         S.112 Product Format Check         Each product, refrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (HDR) and a NetCDF product file (nc).         Number of products with errors:       0         S.12 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 product with errors:       0         S.12 Auxiliary Data File Usage Check         Each products with errors:       0         S.12 Auxiliary Correction Error Check         For all products, the availary corrections within the Geophysical Group are checked for the default error value (32767).         Currently, there are some enormon auxiliary correction are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Corection, Inverse Barometric Correction and the Using and Unional issues that may arise for module over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Represed and future IPF update. The effected products are expected, and busits to be expected.         > Setting Baroucts and the Using Bar PLRM: The error value is currently set for products over sea ice, but this is to be expected.         > Set State Blas & Sate Blas PLRM: The error value is or products over sea ice, but this is to b	CS_OFFL_SIR_GOPR1B_20220603T073845_20220603T074016_C001	Loss of Echo	The tracking echo is missing for one or more records			
S. GOP Level 2 Data Quality Check S.1.12 Product Format Check Each product, Ferieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (HDR) and a NetCDF product file (nc). Number of products with errors: 0 S.1.21 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.1.2 Auxiliary Data File Usage Check Each product set of residencies and set on the second 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.1.2 Auxiliary Data File Usage Check Each products with errors: 0 S.1.2 Auxiliary Data File Usage Check For all products with errors: 0 S.1.2 Auxiliary Correction Error Check For all products, the auxiliary correction errors raised for the default error value (32767). Currently, there are some common auxiliary correction errors raised for the default error value (32767). Currently, there are some common auxiliary correction errors raised for the Level 2 products that are expected, due to surface type. All common filegs are summarised in the list below, for etropering ary additional Bises that may arise from this is to be expected. SetWMF Medeo 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 to reported in the able below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over saic is, but this is to be expected. > Alimetric Wind Speed Error: The error value is currently set for products over land and saic, but this is to be expected. > Alimetric Wind Speed Error: The						
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 NetCDF product file (.nc). 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.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 S.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 situary corrections errors raised in the Level 2 products that are expected, due to surface type. All common flags are summarised in the list below, forlowed by a table highlighting any additional issues that may arise from this test. > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: DY 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-CDP-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 products over sea ice, but this is to be expected. > Altimetric Wind Speed Error: The eror value is	CS_OFFL_SIR_GOPR1B_202206031113644_202206031114418_C001	Loss of Echo	The tracking echo is missing for one or more records			
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). Number of products with errors: 0 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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test. > COMPY Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Inverse Barometric Correction in 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. > Attimetric 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: 9	5. GOP	Level 2 Data Quality Ch	leck			
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). Number of products with errors: 0 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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test. > COMPY Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Inverse Barometric Correction in 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. > Attimetric 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: 9						
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 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 correction errors raised in the Level 2 products that are expected, due to surface type. All common flags are summarised in the list below, followed by atable highlighting any additional issues that may arise from this test.   > Correction and W-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 Level 2. Drive Corection, Wet Tropospheric Correction, Inverse Barometric Correction in 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.   > Sas State Blas & Sea State Blas PLRM: The error value is currently set for products over sea ice, but this is to be expected.   > Atimetric Wind Speed Error: The error value is currently set for products over sea ice, but this is to be expected.   > Marce of products with errors: 26	5.1 L2 Floduct Format Gleck					
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		ire it consists of both an XML header file (	.HDR) and a NetCDF product file (.nc).			
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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test. > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected. > Altimetric Wind Speed Error: The error value is currently set for products over sea ice, but this is to be expected. Number of products with errors: 58	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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.         > Sea State Bias & 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 sea ice, but this is to be expected.         Number of products with errors:       28	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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.         > Sea State Bias & 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 sea ice, but this is to be expected.         Number of products with errors:       28	For all products a series of pre-defined checks are performed on the MPH and SE	PH in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain			
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 corrections rors raised in the Level 2 products that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction the U-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.         > Mumber of products with errors:       58		····· · · · · · · · · · · · · · · · ·				
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:						
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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test.         > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.         > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.         > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.         Number of products with errors:       58	5.3 L2 Auxiliary Data File Usage Check					
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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test. > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected. > 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:	Each product is checked for missing Data Set Descriptors with respect to a pre-de	termined baseline and also to check the v	alidity 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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test.  > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected. > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Number of products with errors:	Number of products with errors: 0					
For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Currently, there are some common auxiliary correction errors raised in the Level 2 products that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test.  > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected. > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Number of products with errors:	5.4 L2 Auxiliary Correction Error Check					
Currently, there are some common auxiliary correction errors raised in the Level 2 products that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that may arise from this test. > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected. > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Number of products with errors: 58		ad for the default error value (20767)				
<ul> <li>&gt; 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.</li> <li>&gt; Sea State Bias &amp; Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.</li> <li>&gt; Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.</li> <li>Number of products with errors:</li> </ul>	Currently, there are some common auxiliary correction errors raised in the L	evel 2 products that are expected, due	to surface type. All common flags are summarised in the list below,			
<ul> <li>&gt; Sea State Bias &amp; Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.</li> <li>&gt; Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.</li> <li>Number of products with errors: 58</li> </ul>	>ECMWF Meteo Corrections: Currently the following corrections are not comput Correction and the U-Wind and V-Wind components of the ECMWF model wind very service of the CMWF model wind very service of the CM	ed over CONTINENTAL ICE: Dry Tropos				
<ul> <li>&gt; Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.</li> <li>Number of products with errors: 58</li> </ul>		ducts over sea ice, but this is to be expec	ted.			
Number of products with errors: 58						
		•				
	Product	Test Failed	Description			

	reatraileu	Description
CS_OFFL_SIR_GOPM_2_20220603T000151_20220603T000243_C001		There is an error with the Total Geocentric Ocean Tide height (solution 1 GOT) for one or more records

CS_OFFL_SIR_GOPM_2_20220603T115522_20220603T115628_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20220603T183030_20220603T184245_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20220603T230348_20220603T230605_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_20220603T005252_20220603T005606_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_20220603T010119_20220603T010237_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_20220603T024026_20220603T024139_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_20220603T031937_20220603T032209_C001	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 Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220603T045638_20220603T050058_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220603T050201_20220603T050309_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_20220603T055603_20220603T055835_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_20220603T063641_20220603T064110_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220603T064110_20220603T064207_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220603T073514_20220603T073845_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_20220603T081639_20220603T082030_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_20220603T091623_20220603T091805_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_20220603T122533_20220603T122655_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_20220603T123222_20220603T123534_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_20220603T140505_20220603T140620_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_20220603T141120_20220603T141439_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_20220603T154557_20220603T154833_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_20220603T155026_20220603T155651_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_20220603T164110_20220603T164230_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220603T172330_20220603T172728_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_20220603T181533_20220603T181556_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_20220603T182026_20220603T182130_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_20220603T190328_20220603T190523_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_20220603T191343_20220603T191530_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_20220603T195940_20220603T200445_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220603T204302_20220603T204420_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_20220603T222428_20220603T222628_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20220603T000427_20220603T001215_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_20220603T014419_20220603T015516_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_20220603T032400_20220603T032709_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_20220603T032710_20220603T033139_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_20220603T050310_20220603T050832_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_20220603T055836_20220603T060053_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20220603T064208_20220603T064908_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_20220603T070343_20220603T071103_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_20220603T082030_20220603T082537_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_20220603T095736_20220603T100608_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_20220603T113644_20220603T114418_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_20220603T115336_20220603T115521_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_20220603T131152_20220603T132210_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_20220603T132211_20220603T132336_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_20220603T145420_20220603T150108_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_20220603T150109_20220603T150534_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_20220603T163352_20220603T163957_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_20220603T163958_20220603T164109_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_20220603T181358_20220603T181446_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_20220603T181452_20220603T181532_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_20220603T181557_20220603T181756_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_20220603T181756_20220603T182025_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_20220603T195346_20220603T195939_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_20220603T213455_20220603T214000_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
1

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220603T180451_20220603T181339_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

### 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20 Hz)

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

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

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

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

94

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220603T001540_20220603T004924_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220603T010417_20220603T010607_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_20220603T010640_20220603T012225_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_20220603T013333_20220603T013445_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_20220603T013834_20220603T013914_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_20220603T014051_20220603T014129_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_20220603T015517_20220603T020415_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_20220603T020627_20220603T022252_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_20220603T022303_20220603T022824_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_20220603T023425_20220603T023607_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_20220603T023615_20220603T024026_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_20220603T024359_20220603T030436_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_20220603T030511_20220603T030949_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_20220603T031004_20220603T031753_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_20220603T032210_20220603T032237_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_20220603T033548_20220603T033555_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_20220603T033559_20220603T035027_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_20220603T035223_20220603T040044_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_20220603T040142_20220603T040746_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_20220603T040944_20220603T041507_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_20220603T041527_20220603T041745_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_20220603T042613_20220603T043839_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_20220603T043946_20220603T045638_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_20220603T051028_20220603T051406_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_20220603T051939_20220603T052939_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_20220603T053142_20220603T054638_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_20220603T054911_20220603T055406_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_20220603T055444_20220603T055603_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_20220603T060255_20220603T061412_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

Displant	CS_OFFL_SIR_GOPM_2_20220603T062007_20220603T063157_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
CH DPFL SIR COPM 2 30220037107144 2022003717244 2000       PCD DDD Attracts Flags and Bockettr Calaby Flags Non-Sci Minister Trays and Sci Calaborating Plags Non-Sci Minister Trays Non-Sci Minister Trays and Sci Calaborating Plags Non-	CS_OFFL_SIR_GOPM_2_20220603T065522_20220603T065828_C001	0 0	
COUNT_CRE_COUNT_2_RECOUNT_2_RECOUNT VALUE_UNIT         Recisited Calify         Inter or an encoded           CS_OPT_CRE_COUNT_2_RECOUNT_2_RECOUNT_CREE_COUNT_RECEIPTION         Deer Allmater Range RES ADDR         The Count Allmater Range RES ADDR           CS_OPT_DRE_COUNT_2_RECOUNT_CREE_COUNT_CREE_COUNT_RES         Deer Allmater Range RES ADDR         The Count Allmater Range RES ADDR           CS_OPT_DRE_COUNT_2_RECOUNT_CREE_COUNT_C	CS_OFFL_SIR_GOPM_2_20220603T071104_20220603T072549_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2: 0FH, SH, GOM, 2 20220001(VHI/ 20220001(VHI/ 20220001(VHI/ 20220001(VHI/ 20220001)) C3: 0FH, SH, GOM, 2 20220001(VHI/ 20220001(VHI/ 20220001)) C4: 0FH, SH, GOM, 2 20220001(VHI/ 20220001)) C4: 0FH, SH, GOM, 2 20220001(VHI/ 20220001)) C5: 0FH, SH, GOM, 2 20220001(VHI/ 2022001)) C5: 0FH, SH, GOM, 2 20220001(VHI/ 2022000)) C5: 0FH, SH, GOM, 2 20220001(VHI/ 2022000)) C5: 0FH, SH, GOM, 2 20220001(VHI/ 2022000)) C5: 0FH, SH, GOM, 2 20	CS_OFFL_SIR_GOPM_2_20220603T072844_20220603T073321_C001		
DFL_DFL_SR_GOPM_2_S2226007100103_202200007100011_0001     where Backwaher Quality COOD Minuse Rungs and Minuse Rungs and Min	CS_OFFL_SIR_GOPM_2_20220603T074017_20220603T080639_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
City, OPFL_SR_COPFL_2_2022000071001034_202200007101034_00001         Indicates Record Cuality, COC00         Indicates Record Cuality, Cucling Cuality, CUC00         Indicates Record Cuality, Cucling	CS_OFFL_SIR_GOPM_2_20220603T084016_20220603T090041_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DS JPTL_SPL_CUMPL_2.02200031100005_01220_0001     Basksoster Quality     Evr or or now noods       CB_OPTL_SPL_QOPM_2_202200031100123_0001     Basksoster Quality     Evr or or now nexcels       CB_OPTL_SPL_QOPM_2_202200031100123_0001     Basksoster Quality     CCOG Alimeter Range Quality, CCOD     The COOR Alimeter Range, SPLA, SWH and Basksoster Quality, Flags Nave been set basksoster Quality, Flag	CS_OFFL_SIR_GOPM_2_20220603T090134_20220603T090456_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description         Description         Description         Description         Description           DS_0FL_SR_00PM_2_0020803109152_0020803109152_0001         Backscatter Quality         Description         Description <td>CS_OFFL_SIR_GOPM_2_20220603T090852_20220603T091236_C001</td> <td></td> <td></td>	CS_OFFL_SIR_GOPM_2_20220603T090852_20220603T091236_C001		
Display         Display <t< td=""><td>CS_OFFL_SIR_GOPM_2_20220603T091242_20220603T091251_C001</td><td>0 0</td><td></td></t<>	CS_OFFL_SIR_GOPM_2_20220603T091242_20220603T091251_C001	0 0	
CS_OFFL_SIR_GOPM_2_20220803T101931_0220803T104517_C001       and backstatter Quality, COOG Antimeter Range, SSH, SSH, The Does Antimeter Range and Backstatter Quality Flags have been set for the OOC Antimeter Range, SSH, SSH, The Does Antimet	CS_OFFL_SIR_GOPM_2_20220603T091258_20220603T091623_C001		
CS_OFFL_SR_GOPM_2_20220803T101044_20220803T104513_0001       and the XCOGG       and the XCOGG         CS_OFFL_SR_GOPM_2_20220803T105914_20220803T113326_0001       Cosm Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range Altimeter Range Altimeter Range and Backscatter Quality Flags have been at the XCOGG Altimeter Range Altithe Coulit Flags have been at the Altimeter Range Altime	CS_OFFL_SIR_GOPM_2_20220603T091931_20220603T094617_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2.00220003T108014_20220003T113328_C001       and Backscatter Quality, COCG Allmeter Range and Backscatter Quality Flags have been all and core or more records         CS_OFFL_SIR_GOPM_2.20220603T122265_20220603T122255_C001       Ocean Allmeter Range and Backscatter Quality Flags have been all and backscatter Quality Flags have been all and backscatter Quality Flags have been all backscatter Quality Flags have been all advects and COG Allmeter Range and Backscatter Quality Flags have been all advects and the COG Allmeter Range and Backscatter Quality Flags have been all advects and the COG Allmeter Range and Backscatter Quality Flags have been all advects and the COG Allmeter Range and Backscatter Quality Flags have been all advects and the COG Allmeter Range and Backscatter Quality Flags have been all advects and the COG Allmeter Range and Backscatter Quality Flags have been all advects and the COG Allmeter Range and Backscatter Quality Flags have been all advects and the COG Allmeter Range and Backscatter Quality Flags have been all advects and the COG Allmeter Range and Backscatter Quality Flags have been all advects and the COG Allmeter Range and Backscatter Quality Flags have been all advects and the Quality Flags have been all advects and the Quality Flags have been all advects and the COG Allmeter Range Allmeter	CS_OFFL_SIR_GOPM_2_20220603T101904_20220603T104513_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220003T12104_20220003T12205_C001       and Backscatter Quality, COCG Attemeter Range and Backscatter Quality, Flags have been and Backscatter Quality, COCG Attemeter Range and Backscatter Quality, COCG Attemeter Range and Backscatter Quality, Flags have been at for one or more records         CS_OFFL_SIR_GOPM_2_20220003T12205_20220003T122355_C001       CCG Attemeter Range Quality, COCG Attemeter Range and Backscatter Quality, Flags have been attemeter Quality, COCG Attemeter Range and Backscatter Quality, Flags have been atter Construction or more records         CS_OFFL_SIR_GOPM_2_20220003T122845_20220003T123241_C001       CCG Attemeter Range Quality, COCG Backscatter Quality, COCG Attemeter Range SNA, SWH and Backscatter Quality, Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220003T122845_20220003T123245_C001       CCG Attemeter Range SNA, SWH and Backscatter Quality, Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220003T132845_20220003T13151_C001       Coean Attemeter Range, SSNA, SWH and Backscatter Quality, Flags have been atter Constituter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20220003T132743_C001       Coean Attemeter Range, SSNA, SWH and Backscatter Quality, COCG Attemeter Range and Backscatter Quality, COCG Attemeter Range and Backscatter Quality, Flags have been atter or on or more records         CS_OFFL_SIR_GOPM_2_20220003T132743_C001       Coean Attemeter Range, SSNA, SWH and Backscatter Quality, COCG Attemeter Range and Backscatter Quality, Flags have been atter or on or more records         CS_OFFL_SIR_GOPM_2_20220003T14424_20220003T140249_C001       Coean Attemeter Range, SSNA, SWH and Backscatter Quality, COCG Attemeter Ran	CS_OFFL_SIR_GOPM_2_20220603T105914_20220603T113326_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220803T12205_20220603T122355_0001       and Backscatter Quality. OCOG Attimeter Range and Backscatter Quality. COCOG Backscatter Quality. Flags have been set for one or more records       The Ocoan Attimeter Range and Backscatter Quality. Flags have been set for one or more records       The Ocoan Attimeter Range and Backscatter Quality. Flags have been set for one or more records       The Ocoan Attimeter Range and Backscatter Quality. Flags have been set for one or more records       The Ocoan Attimeter Range and Backscatter Quality. Flags have been set for one or	CS_OFFL_SIR_GOPM_2_20220603T121842_20220603T122005_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_GOPM_2_20220803T128645_20220803T130025_C001       Backscatter Quality       for one or more records         GS_OFFL_SIR_GOPM_2_20220803T128645_20220803T130025_C001       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 at for one or more records         GS_OFFL_SIR_GOPM_2_20220803T130009_20220803T131151_C001       Ocean Altimeter Range. SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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 have been at for one or more records         CS_OFFL_SIR_GOPM_2_20220803T130269_20220803T140249_C001       Ocean Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been at for one or more records         CS_OFFL_SIR_GOPM_2_20220803T140249_C001       Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been at for one or more records         CS_OFFL_SIR_GOPM_2_20220803T140249_C001       OCGG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been at for one or more records         CS_OFFL_SIR_GOPM_2_20220803T140620_20220803T141120_C001       OCGG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been at for one or more records         CS_OFFL_SIR_GOPM_2_20220803T1405030_C001       OCGG Altimeter	CS_OFFL_SIR_GOPM_2_20220603T122205_20220603T122355_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220603T123845_20220603T130025_C001       and Backscatter Quality. COG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality ACOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality ACOG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, CSA, SWL and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Q	CS_OFFL_SIR_GOPM_2_20220603T122655_20220603T123221_C001		
CS_OFFL_SIR_GOPM_2_20220603T130309_20220603T131151_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality       Figure 2         CS_OFFL_SIR_GOPM_2_20220603T132509_20220603T132743_C001       Doean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Figure 2         CS_OFFL_SIR_GOPM_2_20220603T134424_20220603T140249_C001       Ocean Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figgs have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T140620_20220603T141120_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Figgs have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T141736_20220603T141736_20220603T145030_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Figgs have been set for one or more records       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Figgs have been and the OCCO Altimeter Range and Backscatter Quality Figgs have been and the OCCO Altimeter Range and Backscatter Quality Figgs have been and the OCCO Altimeter Range and Backscatter Quality Figgs have been and the OCCO Altimeter Range and Backscatter Quality Figgs have been and the OCCO Altimeter Range and Backscatter Quality Figgs have been and the OCCO Altimeter Range and Backscatter Quality Figgs have been and th	CS_OFFL_SIR_GOPM_2_20220603T123845_20220603T130025_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220603T132509_20220603T132743_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20220603T134424_20220603T140249_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T140620_20220603T141120_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T1410620_20220603T14102_001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and	CS_OFFL_SIR_GOPM_2_20220603T130309_20220603T131151_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220603T134424_20220603T140249_C001       and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPM_2_20220603T140620_20220603T141120_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_20220603T1410620_20220603T141736_20220603T145030_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T151603_20220603T153858_C001       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_GOPM_2_20220603T151603_20220603T153858_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T154833_20220603T155025_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T15503T161324_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The OCCGA Altimeter Range, SSHA, SWH and Backscatter	CS_OFFL_SIR_GOPM_2_20220603T132509_20220603T132743_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220603T1410620_20220603T141120_C001       Backscatter Quality       for one or more records         CS_OFFL_SIR_GOPM_2_20220603T141736_20220603T145030_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been altimeter Range Quality, OCOG Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T155737_20220603T161324_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altimeter Range 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 altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Q	CS_OFFL_SIR_GOPM_2_20220603T134424_20220603T140249_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220603T141736_20220603T145030_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T151603_20220603T153858_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, 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_20220603T154833_20220603T155025_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_20220603T155737_20220603T161324_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, 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 and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter	CS_OFFL_SIR_GOPM_2_20220603T140620_20220603T141120_C001		
CS_OFFL_SIR_GOPM_2_20220603T151603_20220603T153858_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T154833_20220603T155025_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_20220603T155737_20220603T161324_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T161927_20220603T161927_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flag	CS_OFFL_SIR_GOPM_2_20220603T141736_20220603T145030_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220603T154633_20220603T154633_20220603T155025_C001       Backscatter Quality       for one or more records         CS_OFFL_SIR_GOPM_2_20220603T155737_20220603T161324_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG       The Ocean Altimeter Range, and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been         CS_OFFL_SIR_GOPM_2_20220603T161927_20220603T161927_C001       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 Backscatte	CS_OFFL_SIR_GOPM_2_20220603T151603_20220603T153858_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220603T155737_20220603T161324_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPM_2_20220603T161927_20220603T161927_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_GOPM_2_20220603T154833_20220603T155025_C001		
CS_OFFL_SIR_GOPM_2_20220603T161927_20220603T162907_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20220603T155737_20220603T161324_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20220603T161927_20220603T162907_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20220603T164231_20220603T164516_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_20220603T164704_20220603T170330_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_20220603T170544_20220603T172021_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_0FFL_SIR_GOPM_2_20220603T173026_20220603T173440_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_20220603T173640_20220603T174848_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_20220603T174900_20220603T175150_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_20220603T175351_20220603T180312_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_20220603T183030_20220603T184245_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_20220603T184813_20220603T190151_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_20220603T190523_20220603T191342_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_20220603T191615_20220603T193246_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_20220603T193510_20220603T193721_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_20220603T201442_20220603T201830_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_20220603T201832_20220603T204106_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_20220603T204421_20220603T204620_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_20220603T204705_20220603T205207_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_20220603T205547_20220603T212026_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_20220603T212234_20220603T212236_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_20220603T215243_20220603T221955_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_20220603T222628_20220603T223229_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_20220603T223416_20220603T230253_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_20220603T232528_20220603T235852_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_20220603T012226_20220603T012414_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_20220603T023010_20220603T023425_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_20220603T054728_20220603T054911_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (20 Hz PLRM)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20220602T235850_20220603T000012_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T001215_20220603T001329_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 bee set for one or more records
CS_OFFL_SIR_GOPN_2_20220603T005252_20220603T005606_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 bee set for one or more records
CS_OFFL_SIR_GOPN_2_20220603T012226_20220603T012414_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T023010_20220603T023425_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T045638_20220603T050058_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T050201_20220603T050309_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T051620_20220603T051822_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T054728_20220603T054911_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 bee set for one or more records
CS_OFFL_SIR_GOPN_2_20220603T055603_20220603T055835_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_20220603T060054_20220603T060221_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_20220603T061527_20220603T062007_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T063303_20220603T063426_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T063641_20220603T064110_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 bee set for one or more records
CS_OFFL_SIR_GOPN_2_20220603T073352_20220603T073358_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T073514_20220603T073845_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T081639_20220603T082030_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 bee set for one or more records
CS_OFFL_SIR_GOPN_2_20220603T082537_20220603T082615_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_20220603T091623_20220603T091805_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T104534_20220603T104658_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_20220603T113327_20220603T113443_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T120728_20220603T120815_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T132336_20220603T132444_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records
CS_OFFL_SIR_GOPN_2_20220603T132744_20220603T132945_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one more records

CS_OFFL_SIR_GOPN_2_20220603T133151_20220603T133213_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_20220603T133252_20220603T133350_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_20220603T134131_20220603T134424_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_20220603T140505_20220603T140620_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_20220603T154557_20220603T154833_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_20220603T155026_20220603T155651_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_20220603T164110_20220603T164230_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_20220603T172330_20220603T172728_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_20220603T172938_20220603T173026_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_20220603T180312_20220603T180450_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_20220603T182453_20220603T182659_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_20220603T184245_20220603T184753_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_20220603T194024_20220603T194411_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_20220603T194449_20220603T194540_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_20220603T195940_20220603T200445_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_20220603T222226_20220603T222346_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_20220603T000427_20220603T001215_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_20220603T001329_20220603T001410_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_20220603T004925_20220603T005252_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_20220603T010237_20220603T010416_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_20220603T013522_20220603T013554_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_20220603T014129_20220603T014349_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_20220603T014419_20220603T015516_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_20220603T022825_20220603T023010_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_20220603T024139_20220603T024359_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_20220603T032400_20220603T032709_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_20220603T032710_20220603T033139_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_20220603T041931_20220603T042613_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_20220603T050310_20220603T050832_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_20220603T055836_20220603T060053_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_20220603T064208_20220603T064908_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_20220603T070343_20220603T071103_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_20220603T073845_20220603T074016_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_20220603T080639_20220603T080858_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_20220603T082030_20220603T082537_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_20220603T082616_20220603T082820_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_20220603T091806_20220603T091931_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_20220603T095736_20220603T100608_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_20220603T113444_20220603T113524_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_20220603T113644_20220603T114418_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_20220603T114423_20220603T114631_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_20220603T123535_20220603T123844_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_20220603T131152_20220603T132210_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_20220603T132211_20220603T132336_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_20220603T132945_20220603T133132_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_20220603T140249_20220603T140505_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_20220603T141440_20220603T141735_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_20220603T145420_20220603T150108_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_20220603T150109_20220603T150534_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_20220603T153858_20220603T154556_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_20220603T162907_20220603T163043_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_20220603T163352_20220603T163957_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_20220603T174849_20220603T174859_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_20220603T181358_20220603T181446_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_20220603T181452_20220603T181532_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_20220603T181557_20220603T181756_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_20220603T181756_20220603T182025_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_20220603T182303_20220603T182452_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_20220603T191530_20220603T191614_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_20220603T195346_20220603T195939_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_20220603T200452_20220603T200744_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_20220603T204107_20220603T204302_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_20220603T213048_20220603T213247_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 & 1 Hz PLRM)		- -
Currently, there are several common flags raised in the Level 2 products,	which are summarised below.	
> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for	products over sea ice, which is to be expecte	ed.
Number of products with errors: 202		
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20 Hz) CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measu	rement record. The bit value of this flag indic	ates any problems when set
Ocean Retracking Quality Flag: This flag is currently set for products over land		
Number of products with errors: 59		
L2 Retracking Flags (20 Hz PLRM)		
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM	measurement record. The bit value of this fla	g 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: 147		
6. GOP L2	2 Pole-to-Pole Data Quality	/ Check

## 6.1 P2P Product Format Check

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

#### 6.2 P2P Product Header Analysis

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

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#### 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).

0

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

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

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

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

30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20220602T231747_20220603T000723_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220603T000723_20220603T005702_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_20220603T005702_20220603T014638_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_20220603T014638_20220603T023616_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_220220603T023616_20220603T032553_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220603T032553_20220603T041531_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_20220603T041531_20220603T050507_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220603T050507_20220603T055445_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_20220603T055445_20220603T064422_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220603T064422_20220603T073400_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_20220603T073400_20220603T082337_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_20220603T082337_20220603T091315_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_20220603T091315_20220603T100251_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_20220603T100251_20220603T105230_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_20220603T105230_20220603T114206_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_20220603T114206_20220603T123144_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_20220603T123144_20220603T132121_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_220220603T132121_20220603T141059_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_20220603T141059_20220603T150035_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_20220603T150035_20220603T155014_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_20220603T155014_20220603T163950_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_220220603T163950_20220603T172928_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220603T172928_20220603T181905_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_20220603T181905_20220603T190843_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_20220603T190843_20220603T195820_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_220220603T195820_20220603T204758_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220603T204758_20220603T213734_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_20220603T213734_20220603T222713_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220603T222713_20220603T231649_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_20220603T231649_20220604T000627_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

## 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:	1		
Product		Test Failed	Description
CS_OFFL_SIR_GOP_220220603T172928_20220	603T181905_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
6.6 P2P Measurement Quality Flag C	Check		
P2P Quality Flags (20 Hz)			
CryoSat P2P data includes Quality Flags for each 20	Hz, 20 Hz PLRM and 1 Hz m	easurement record, copied from the corres	sponding L2 products.
Since the P2P Quality Flags are copied directly from	om the L2 Quality Flags, ple	ase see Section 5.6 for the full list of pr	roducts affected.
Number of products with errors:	30		
P2P Quality Flags (20 Hz PLRM)			
Since the P2P Quality Flags are copied directly from	om the L2 Quality Flags, ple	ase see Section 5.6 for the full list of pr	roducts affected.
Number of products with errors:	30		
P2P Quality Flags (1 Hz & 1 Hz PLRM)			
Since the P2P Quality Flags are copied directly from	om the L2 Quality Flags, ple	ase see Section 5.6 for the full list of pr	roducts affected.
Number of products with errors:	30		
6.8 P2P Ocean Retracking Quality C	heck		
<b>P2P Retracking Flags (20 Hz)</b> Cryosat P2P data includes an ocean retracking qualit	y flag (field 19) for each 20 H	z measurement record. The bit value of thi	is flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This flag is	currently set for products GC	PR 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 me	easurement record. The bit value of this fla	g indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This flag is	currently set for products GC	OPR and GOPN products over sea ice, but	this is to be expected.

Number of products with errors:

30

# 7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	149	149	3	146	0
SIR_GOPR1B	131	131	0	131	0
SIR_GOPN1B	91	91	0	91	0
SIR_GOPM_2	149	149	92	57	0
SIR_GOPR_2	131	131	33	95	3
SIR_GOPN_2	91	91	29	62	0
SIR_GOP_P2P	29	29	0	26	3

## 7.1 QCC Errors

Number of QCC reports with errors: 6											
					Total number of occurrences of each error						
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	3	3	3	3							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	3	3	3	3							
Test Descriptio	n Key:										
Abbreviation	Test na	me		Details							
RLOBOPNCDF	RangeLa	titudeOrBlankOP_	7NetCDF	Latitude should be	Latitude should be between -90E7 and 90E7						
RL	RangeLa	titude_7		Latitude should be between -90E7 and 90E7							
RLOBOPNCDF	RangeLo	ngitudeOrBlankOl	P_7NetCDF	Longitude should be between -180E7 and 180E7							
RL	RangeLo	ngitude_7		Long tude should be between -180E7 and 180E7							

# 7.2 QCC Warnings

#### Number of QCC reports with warnings

Number of QCC repo	orts with warnings	2261					
			Total nu	mber of occurrences of e	each warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	146	0	0	0	0	0	0
SIR_GOPM_2	0	0	39	41	1	39	0
SIR_GOPN1B	89	0	0	0	0	0	0
SIR_GOPN_2	0	0	9	28	7	23	23
SIR_GOPR1B	124	0	0	0	0	0	0
SIR_GOPR_2	0	3	41	49	0	34	29
			•		*	•	
Product Type	RBSZOPOEPNCDF	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	30	4	0	29	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	16	37	1	0	0	24	0
SIR GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	10	40	2	0	50	0	60
					*		
Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	21	0	0	4	31	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	29	0	0	26	17	32	49
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	0	50	0	1	72	36

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	
0	0	0	0	0	1	0	0	
	3	36	0	1	1	0	0	
_	0	0	0	0	0	0	43	
	31	25	28	14	0	1	0	
	0	0	0	0	0	0	131	
SIR_GOPR_2	12	43	53	0	1	4	0	
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN		
	19	27	29	6	29	17	28	
				-				
Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	
SIR_GOP_2_	29	3	18	28	24	17	29	
	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF		SPHLPQWNCDF	-	
SIR_GOP_2_	19	25	29	18	14	29		
Test Description Key:								
	Test name			Details				
	BurstCounterStep20HzNetC				one higher with regard to th			
BCSHNCDF	Bursicounierstepzonziverc	JUF		The burst counter should be	one nigher with regard to th	e previous burst counter		
IOHHMOOR	IndexOf1Hzin20HzMapping	OutOfRange		The mapping of 20 Hz to 1 H	Iz measurements should be	in the range 0 to (number	of 1 Hz samples - 1)	
MVIOEPFDNCDF	MissingValueIntOceanExclu	udingPolarFD2NetCDF		The value should not be a 'r	nissing value' for surface typ	e 0 only for latitudes betwe	en -70 and 70 degrees	
MVIOEPNCDF	MissingValueIntOceanExclu	udingPolarNetCDF		The value should not be a 'r	nissing value' for surface typ	e 0 only for latitudes betwe	een -70 and 70 degrees	
	J	J			5 · • ()P	,		
MVIONCDF	MissingValueIntOceanNetC	DF		The value should not be a 'r	nissing value' for surface typ	e 0 only		
RBSZOPOEPFDNCDF	PangeBackscotterSigm=7-	roOPOceanExcludingPolarF		The backscatter sigma zero	should be between 700 and	7500 (or missing) for surfa	ace type = ocean for latitude	
	RangebackscallerSigmaze	roopoceanexcludingpolar	DZINEICDF	between -70 and 70 degrees				
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZe	roOPOceanExcludingPolarF	D2PLRMNetCDF		should be between 700 and	7500 (or missing) for surfa	ace type = ocean for latitude	
NCDF				between -70 and 70 degrees The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF			between -70 and 70 degrees		rood (or missing) for sum		
RLPTONCDF	RangeLongPeriodTideOceanNetCDF			The Long period tide height	should be between -50mm a	and 50mm (or missing) for	surface type = ocean	
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF			surface type = ocean	eriod ocean loading tide heig	nt snould be between -40n	nm and 40mm (or missing) f	
					etween 0 and 6400 (or missir	ng) for surface type = ocea	n for latitudes between -70	
RPEPOPFDLRMNCDF				and 70 degrees				
RPEPOPFDPLRMSAR	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF				etween 0 and 15000 (or miss	ing) for surface type = oce	an for latitudes between -70	
NCDF RPEPOPFDPLRMSINN				and 70 degrees	etween 0 and 90000 (or miss	ing) for surface type = oce	an for latitudes between -70	
CDF	RangePeakinessExcludingF	PolarOPFD2PLRMSINNetCD	F	and 70 degrees		ing) for surface type - ooe		
RPEPOPFDSARNCDF	RangePeakinessExcludingF				etween 0 and 15000 (or miss	ing) for surface type = oce	an for latitudes between -70	
	ranger earniesezkolaarigi			and 70 degrees		· · · · · · · · · · · · · · · · · · ·	- for latitudes hat was 70	
RPEPOPFDSINNCDF	RangePeakinessExcludingF	PolarOPFD2SINNetCDF		and 70 degrees	etween 0 and 90000 (or miss	ing) for surface type = oce	an for latitudes between -/U	
	Panga Panking an Evelusity of			The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70				
RPEPOPLRMNCDF	RangePeakinessExcludingF	OlarOPLRMINETCDF		and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingF	PolarOPSARNetCDF			ne Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70			
	о о			and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -				
RPEPOPSINNCDF	RangePeakinessExcludingF	PolarOPSINNetCDF		and 70 degrees			an or randoo betweell -/(	
RSSBCONCDF	RangeSeaStateBiasCorrect	tionOceanNetCDF		The sea state bias correction	n should be between -500mr	m and 0mm (or missing) fo	r surface type = ocean	
RSSHAOFDNCDF	RangeSeaSurfaceHeightAn	omalyOceanFD3NetCDF		The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD	Danage Can Courfe and Industry			ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type =				
F	kangeSeaSurfaceHeightAn	iomalyOceanFD3PLRMNetC	DF	ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAn	omalyOceanNetCDF			maly should be between -300	00mm and 3000mm (or mis	ssing) for surface type =	
		·		ocean The significant wave beight	should be between Omm on	1 15000mm (or missing) fo	r surface type = ocean for	
RSWHOEPFDNCDF	RangeSignificantWaveHeig	htOceanExcludingPolarFD2N	letCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC	RangeSignificantWaveHeig	htOceanExcludingPolarFD2F	PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for				
DF				latitudes between -70 and 7	-			
RSWHOEPNCDF	RangeSignificantWaveHeig	htOceanExcludingPolarNetC	DF	The significant wave height latitudes between -70 and 7	should be between 0mm and 0 degrees	d 15000mm (or missing) fo	r surface type = ocean for	
					-			
SPHRTASCNSNCDF	F SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF Rel_Time_ASC_Node_Stop mismatch							
	SameOrOneHigher1HzInde	exFor20HzData		The 1 Hz index of a 20 Hz s	ample should be the same o	r 1 higher than its previous	sample	
SOOHHIFHD								
SOOHHIFHD								

Number of products with missing QCC reports:

0