

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

<u>15/01/2023</u>

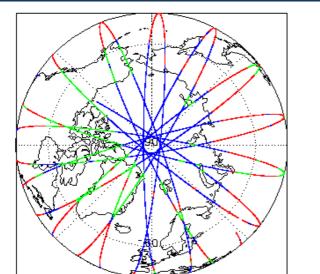
# IDEAS-QA4E0

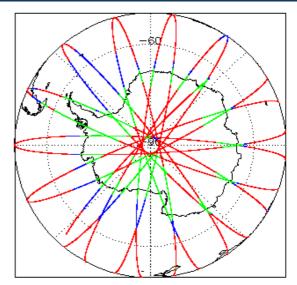
Poport Broduction	16-Feb-2023	Check	L1 & L2	P2P
Report Production: 16-Feb-2023		Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used: CryoSat Ocean Processor		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor useu:	CryoSat Ocean Processor	Product Software Check	Nominal	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
We would	love to hear from you!	Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Please let us know	your feedback about these daily	Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to		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
cs2_qc_t	eam@telespazio.com	QCC Error/ Warning Check	See Section 7.2	See Section 7.2

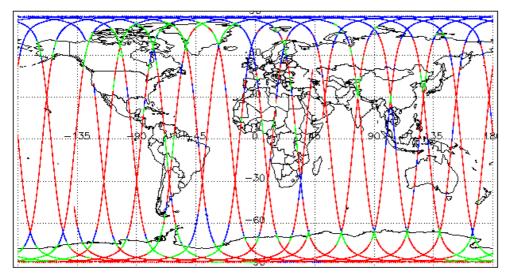
1. Overview

Mission / Instrument News				
14-Jan-2023	None			
15-Jan-2023	None			
16-Jan-2023	Nothing 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).

Number of products with errors:

4.2 L1B Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH	and SPH in order to identify any inc	onsistencies and/or errors raised by the ground-segment processing chain.		
OSARIn chains. A modification is required in the next release.	L1B GOPR and GOPN products be	cause the I1b_processing_quality_hr field is not correctly configured in the OSAR and		
Number of products with errors: 0				
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a	a pre-determined baseline and also to	o check the validity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.				
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measu	rement record. The bit value of this	flag indicates any problems when set.		
Attitude Correction Missing: This flag is currently set in error for GOPR p				
Number of products with errors: 0				
4.6 L1B Waveform Group Data Check				
CryoSat L1B data includes a waveform data flag for each measurement rec	cord. The bit value of this flag indica	es any nrohleme when set		
Loss of Echo Flag: This flag is currently set for some products over land,	-			
Number of products with errors: 13				
Product CS_OFFL_SIR_GOPM1B_20230115T142157_20230115T142801_C001	Loss of Echo	Description The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20230115T044914_20230115T045324_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20230115T063107_20230115T063339_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20230115T080731_20230115T080951_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20230115T120939_20230115T121326_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20230115T124816_20230115T125009_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS OFFL SIR GOPN1B 20230115T131042 20230115T131221 C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20230115T161908_20230115T162026_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20230115T175348_20230115T175749_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20230115T175812_20230115T175939_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20230115T193411_20230115T193831_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20230115T063604_20230115T063823_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPR1B_20230115T193105_20230115T193315_C001	Loss of Echo	The tracking echo is missing for one or more records		
5	GOP Level 2 Data Qu	ality Check		
5.1 L2 Product Format Check				
Each product, retrieved and unpacked from the science server, is checked	to ensure it consists of both an XMI	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 i followed by a table highlighting any additional issues that may arise to		pected, due to surface type. All common flags are summarised in the list below,		
> ECMWF Meteo Corrections: Currently the following corrections are not	computed over CONTINENTAL ICE	: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric ly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are		
> Sea State Bias & Sea State Bias PLRM: The error value is currently set	t for products over sea ice, but this i	s to be expected.		
> Altimetric Wind Speed Error: The error value is currently set for produce				
Number of products with errors: 56				
•				

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230115T093811_20230115T093830_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_20230115T093830_20230115T093849_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_20230115T003307_20230115T003432_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_20230115T004220_20230115T004333_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230115T013403_20230115T013451_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20230115T021235_20230115T021401_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_20230115T021912_20230115T022215_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_20230115T035256_20230115T035556_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_20230115T035815_20230115T040332_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_20230115T044914_20230115T045324_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_20230115T053253_20230115T053527_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_20230115T062806_20230115T062920_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1), Total	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_20230115T063107_20230115T063339_C001	Geocentric Ocean Tide (GOT), 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_20230115T070755_20230115T071353_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_20230115T080731_20230115T080951_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_20230115T081024_20230115T081213_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20230115T085011_20230115T085200_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_20230115T094708_20230115T095147_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_20230115T102950_20230115T103127_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_20230115T113346_20230115T113450_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20230115T120939_20230115T121326_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_20230115T124816_20230115T125009_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_20230115T134916_20230115T135232_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_20230115T135744_20230115T135906_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_20230115T144011_20230115T144056_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_20230115T153654_20230115T153801_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_20230115T161553_20230115T161807_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), 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_GOPN_2_20230115T161908_20230115T162026_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_20230115T175348_20230115T175749_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_20230115T175812_20230115T175939_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_20230115T185226_20230115T185505_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_20230115T185529_20230115T185841_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230115T193411_20230115T193831_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_20230115T203143_20230115T203505_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_20230115T211304_20230115T211654_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_20230115T235153_20230115T235313_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution 1) or more records         CS_OFFL_SIR_GOPR_2_20230115T012314_20230115T013003_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the GPD Wet Tropospheric correction, the N height (solution 1) and tidal corrections for one or more records	MSS Dynamic
	Dynamic
CS_OFFL_SIR_GOPR_2_20230115T013004_20230115T013312_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records	ynamic
CS_OFFL_SIR_GOPR_2_20230115T030150_20230115T030903_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_20230115T030904_20230115T031111_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records	lynamic
CS_OFFL_SIR_GOPR_2_20230115T044335_20230115T044758_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records	lynamic
CS_OFFL_SIR_GOPR_2_20230115T044759_20230115T044914_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records	lynamic
CS_OFFL_SIR_GOPR_2_20230115T062134_20230115T062628_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	lynamic
CS_OFFL_SIR_GOPR_2_20230115T062629_20230115T062806_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	lynamic
CS_OFFL_SIR_GOPR_2_20230115T080121_20230115T080730_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	ynamic
CS_OFFL_SIR_GOPR_2_20230115T094254_20230115T094708_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	lynamic
CS_OFFL_SIR_GOPR_2_20230115T112009_20230115T112752_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records	lynamic
CS_OFFL_SIR_GOPR_2_20230115T130052_20230115T130839_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records	lynamic
CS_OFFL_SIR_GOPR_2_20230115T144057_20230115T145113_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records	ynamic
CS_OFFL_SIR_GOPR_2_20230115T162027_20230115T162755_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records	lynamic
CS_OFFL_SIR_GOPR_2_20230115T175939_20230115T180500_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records	lynamic
CS_OFFL_SIR_GOPR_2_20230115T193831_20230115T194155_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	lynamic
CS_OFFL_SIR_GOPR_2_20230115T194155_20230115T194538_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records	ynamic
CS_OFFL_SIR_GOPR_2_20230115T211654_20230115T212210_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records	lynamic

### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
0

# 5.6 L2 Measurement Quality Flag Check

# L2 Quality Flags (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.

97

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230115T000313_20230115T002104_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_20230115T002623_20230115T003224_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_20230115T003432_20230115T004018_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_20230115T004610_20230115T011911_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_20230115T013312_20230115T013402_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_20230115T014759_20230115T014941_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_20230115T015518_20230115T015713_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_20230115T015736_20230115T021144_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_20230115T021401_20230115T021912_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_20230115T022452_20230115T024725_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_20230115T024911_20230115T025924_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_20230115T032918_20230115T034937_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_20230115T040511_20230115T043643_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_20230115T043943_20230115T044148_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_20230115T045406_20230115T051303_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_20230115T051330_20230115T052629_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_20230115T053527_20230115T053724_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_20230115T054403_20230115T055947_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_20230115T060150_20230115T061111_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_20230115T063339_20230115T063603_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_20230115T063824_20230115T065032_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_20230115T071353_20230115T071648_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_20230115T071657_20230115T072128_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_20230115T072339_20230115T073817_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_20230115T075048_20230115T075113_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_20230115T082523_20230115T084928_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_20230115T085201_20230115T090030_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_20230115T090258_20230115T092832_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_20230115T093216_20230115T093648_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_20230115T100142_20230115T102746_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_20230115T103414_20230115T103831_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_20230115T104146_20230115T110824_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_20230115T110923_20230115T111140_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_20230115T111939_20230115T112009_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_20230115T113450_20230115T120659_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_20230115T121327_20230115T121912_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_20230115T122038_20230115T122652_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_20230115T125102_20230115T125233_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_20230115T125814_20230115T125902_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_20230115T131222_20230115T134647_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_20230115T135232_20230115T135744_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_20230115T135941_20230115T141904_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_20230115T145113_20230115T151941_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_20230115T151952_20230115T152508_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_20230115T153239_20230115T153653_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20230115T153848_20230115T154005_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_20230115T153848_20230115T154005_C001 CS_OFFL_SIR_GOPM_2_20230115T154011_20230115T160620_C001	and Backscatter Quality, OCOG	
	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230115T154011_20230115T160620_C001	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230115T154011_20230115T160620_C001 CS_OFFL_SIR_GOPM_2_20230115T160751_20230115T161444_C001	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20230115T154011_20230115T160620_C001 CS_OFFL_SIR_GOPM_2_20230115T160751_20230115T161444_C001 CS_OFFL_SIR_GOPM_2_20230115T161445_20230115T161517_C001	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230115T154011_20230115T160620_C001 CS_OFFL_SIR_GOPM_2_20230115T160751_20230115T161444_C001 CS_OFFL_SIR_GOPM_2_20230115T161445_20230115T161517_C001 CS_OFFL_SIR_GOPM_2_20230115T161808_20230115T161908_C001	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality OCOG Attimeter Range Quality, OCOG Backscatter Quality OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20230115T154011_20230115T160620_C001 CS_OFFL_SIR_GOPM_2_20230115T160751_20230115T161444_C001 CS_OFFL_SIR_GOPM_2_20230115T161445_20230115T161517_C001 CS_OFFL_SIR_GOPM_2_20230115T161808_20230115T161908_C001 CS_OFFL_SIR_GOPM_2_20230115T163220_20230115T163345_C001	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality OCOG Attimeter Range Quality, OCOG Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range 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 and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range Alter Alter Q
CS_OFFL_SIR_GOPM_2_20230115T154011_20230115T160620_C001 CS_OFFL_SIR_GOPM_2_20230115T160751_20230115T161444_C001 CS_OFFL_SIR_GOPM_2_20230115T161445_20230115T161517_C001 CS_OFFL_SIR_GOPM_2_20230115T161808_20230115T161908_C001 CS_OFFL_SIR_GOPM_2_20230115T163220_20230115T163345_C001 CS_OFFL_SIR_GOPM_2_20230115T163429_20230115T164404_C001	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality OCOG Attimeter Range Quality, OCOG Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags 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 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 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 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 Range and Back
CS_OFFL_SIR_GOPM_2_20230115T154011_20230115T160620_C001 CS_OFFL_SIR_GOPM_2_20230115T160751_20230115T161444_C001 CS_OFFL_SIR_GOPM_2_20230115T161445_20230115T161517_C001 CS_OFFL_SIR_GOPM_2_20230115T161808_20230115T161908_C001 CS_OFFL_SIR_GOPM_2_20230115T161802_20230115T163345_C001 CS_OFFL_SIR_GOPM_2_20230115T163429_20230115T164404_C001 CS_OFFL_SIR_GOPM_2_20230115T163429_20230115T164404_C001	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range Quality, OCOG Attimeter Range Quality, OCOG Backscatter Quality OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, 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, 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, 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 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 Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backsc
CS_OFFL_SIR_GOPM_2_20230115T154011_20230115T160620_C001 CS_OFFL_SIR_GOPM_2_20230115T160751_20230115T161444_C001 CS_OFFL_SIR_GOPM_2_20230115T161445_20230115T161517_C001 CS_OFFL_SIR_GOPM_2_20230115T161808_20230115T161908_C001 CS_OFFL_SIR_GOPM_2_20230115T163220_20230115T163345_C001 CS_OFFL_SIR_GOPM_2_20230115T163429_20230115T164404_C001 CS_OFFL_SIR_GOPM_2_20230115T164650_20230115T164404_C001 CS_OFFL_SIR_GOPM_2_20230115T164650_20230115T164911_C001	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range Quality, OCOG Attimeter Range Quality, OCOG Backscatter Quality OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records The OCCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags 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 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 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 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 A

CS_OFFL_SIR_GOPM_2_20230115T173642_20230115T174536_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_20230115T174703_20230115T175348_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_20230115T175750_20230115T175812_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_20230115T180713_20230115T180723_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_20230115T181551_20230115T182609_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_20230115T182812_20230115T182952_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_20230115T183116_20230115T183550_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_20230115T183645_20230115T184330_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_20230115T184538_20230115T185033_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_20230115T185109_20230115T185226_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_20230115T185841_20230115T190248_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_20230115T190901_20230115T190954_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_20230115T191635_20230115T192608_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_20230115T200700_20230115T202235_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_20230115T202517_20230115T203002_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_20230115T203613_20230115T210310_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_20230115T210459_20230115T211053_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_20230115T212834_20230115T213201_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_20230115T213618_20230115T220221_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_20230115T220507_20230115T220902_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_20230115T221511_20230115T224245_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_20230115T234332_20230115T234817_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_20230115T234822_20230115T235152_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_20230115T235552_20230116T002946_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (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.

72

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20230115T011955_20230115T012313_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_20230115T013403_20230115T013451_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_20230115T014941_20230115T015126_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_20230115T021912_20230115T022215_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_20230115T035256_20230115T035556_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_20230115T044914_20230115T045324_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_20230115T061112_20230115T061448_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_20230115T062806_20230115T062920_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_20230115T063107_20230115T063339_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_20230115T065032_20230115T065427_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_20230115T070755_20230115T071353_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_20230115T072129_20230115T072312_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_20230115T092832_20230115T093215_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_20230115T094229_20230115T094254_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_20230115T094708_20230115T095147_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_20230115T095233_20230115T095355_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_20230115T112752_20230115T113343_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_20230115T113346_20230115T113450_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_20230115T120939_20230115T121326_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_20230115T123952_20230115T124130_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_20230115T125517_20230115T125639_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_20230115T125954_20230115T130051_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_20230115T134916_20230115T135232_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_20230115T141905_20230115T142157_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_20230115T144011_20230115T144056_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_20230115T152633_20230115T153035_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_20230115T161553_20230115T161807_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_20230115T161908_20230115T162026_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_20230115T171403_20230115T171546_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_20230115T175348_20230115T175749_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_20230115T175812_20230115T175939_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_20230115T180500_20230115T180527_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_20230115T181237_20230115T181551_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_20230115T191019_20230115T191634_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_20230115T193316_20230115T193353_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_20230115T193411_20230115T193831_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_20230115T202314_20230115T202517_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_20230115T203143_20230115T203505_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_20230115T012314_20230115T013003_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_20230115T013516_20230115T013852_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_20230115T021144_20230115T021235_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_20230115T030011_20230115T030033_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_20230115T030150_20230115T030903_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_20230115T043644_20230115T043846_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_20230115T044335_20230115T044758_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_20230115T044759_20230115T044914_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_20230115T052629_20230115T053252_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_20230115T062134_20230115T062628_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_20230115T062629_20230115T062806_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_20230115T070339_20230115T070425_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_20230115T073817_20230115T074456_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_20230115T074632_20230115T074706_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_20230115T080121_20230115T080730_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_20230115T093850_20230115T094112_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_20230115T112009_20230115T112752_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_20230115T130052_20230115T130839_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_20230115T131007_20230115T131042_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_20230115T143129_20230115T143231_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_20230115T143231_20230115T143720_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_20230115T144057_20230115T145113_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_20230115T162027_20230115T162755_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_20230115T175939_20230115T180500_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_20230115T180528_20230115T180638_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_20230115T182952_20230115T183116_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_20230115T193353_20230115T193411_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_20230115T194155_20230115T194538_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_20230115T210310_20230115T210459_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_20230115T211654_20230115T212210_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_20230115T212239_20230115T212512_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_20230115T221402_20230115T221511_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_20230115T225347_20230115T230244_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_20230115T230305_20230115T230535_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
12 Quality Flags (1 Hz & 1 Hz PI RM)		

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

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

191

64

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

Number of products with errors:

## 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

### L2 Retracking Flags (20 Hz PLRM)

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

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

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

#### 6.1 P2P Product Format Check

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

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

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

0

147

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

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220230114T234927_20230115T003904_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_GOP_220230115T003904_20230115T012842_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_220230115T012842_20230115T021819_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_20230115T021819_20230115T030757_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_220230115T030757_20230115T035733_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_220230115T035733_20230115T044711_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_220230115T044711_20230115T053648_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_20230115T053648_20230115T062626_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_220230115T062626_20230115T071603_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), 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_220230115T071603_20230115T080541_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_220230115T080541_20230115T085517_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_220230115T085517_20230115T094455_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_220230115T094455_20230115T103432_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_20230115T103432_20230115T112410_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_220230115T112410_20230115T121347_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_220230115T121347_20230115T130325_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_220230115T130325_20230115T135302_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_220230115T135302_20230115T144239_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_220230115T144239_20230115T153216_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_20230115T153216_20230115T162154_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), 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_20230115T162154_20230115T171131_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_20230115T171131_20230115T180109_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_20230115T180109_20230115T185045_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_20230115T185045_20230115T194023_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_20230115T194023_20230115T203000_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_20230115T203000_20230115T211938_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_20230115T211938_20230115T220915_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_20230115T220915_20230115T225853_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_20230115T225853_20230115T234830_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_20230115T234830_20230116T003808_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
6 5 P2P Measurement Confidence Data Check	'	

# 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.

0

Number of products with errors:

P2P Quality Flags (20 Hz)	
CryoSat P2P data includes Quality Flags fo	r each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.
Since the P2P Quality Flags are copied of	directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	30
P2P Quality Flags (20 Hz PLRM)	
Since the P2P Quality Flags are copied of	directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	27
P2P Quality Flags (1 Hz & 1 Hz F	PLRM)
Since the P2P Quality Flags are copied of	directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	30
6.8 P2P Ocean Retracking Qu	uality Check
P2P Retracking Flags (20 Hz)	
Cryosat P2P data includes an ocean retract	king quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM):	This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.
Number of products with errors:	26

#### P2P Retracking Flags PLRM

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

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

30

0

Number of products with errors:

# 7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	220	220	3	217	0
SIR_GOPR1B	130	130	0	130	0
SIR_GOPN1B	106	106	1	105	0
SIR_GOPM_2	220	220	164	56	0
SIR_GOPR_2	130	130	60	70	0
SIR_GOPN_2	106	106	38	68	0
SIR_GOP_P2P	29	29	0	29	0

## 7.1 QCC Errors

Number of QCC reports with errors:

#### 7.2 QCC Warnings

Number of QCC reports with warnings 2199

Total number of occurrences of each warning							
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_GOPM1B	217	0	0	0	0	0	0
SIR_GOPM_2	0	39	38	0	46	0	38

SIR GOPN1B	102	0	0	0	0	0	0
SIR GOPN 2	0	11	39	8	30	29	18
SIR GOPR1B	122	0		0	0	0	0
SIR GOPR 2	0	29	39	0	24	22	6
	1-			ļ•	<u> </u>		1-
Product Type	RPEPOPFDLRMNCDF		RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	31	0	0	0	0	24	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	28	0	38	0	0
SIR GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	39	0	45	0	0	39
Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNC
SIR GOPM1B	0	0	0	0	0	0	0
SIR GOPM 2	0	4	24	0	3	33	0
SIR GOPN1B	0	0	0	0	0	0	0
SIR GOPN 2	34	14	40	56	33	33	34
		0		0	0	0	0
SIR_GOPR1B	0		-	-			-
SIR_GOPR_2	0	3	58	35	11	29	40
	801110581-5-5	001000000000000000000000000000000000000			00070000		
Product Type	RSWHOEPNCDF	SPHRTASCNSNCDF		SCSTODHRNCDF	SCSTODNCDF		-
SIR_GOPM1B	0	1	0	0	0		
SIR_GOPM_2	3	1	0	0	0		
SIR_GOPN1B	0	0	0	51	2		
SIR_GOPN_2	18	0	0	0	0		
SIR_GOPR1B	0	0	0	130	6		
SIR GOPR 2	1	0	2	0	0		
	4	4					1
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	DRBSZOPOEPNCDF
SIR GOP 2	13	29	29	8	29	18	28
Product Type	RPEPOPFDPLRMSINNCI	DIRPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR GOP 2							
	116	27	23	16	29	17	25
	16	27	23	16	29	17	25
	16 RSWHOEPFDNCDF	27 RSWHOEPFDPLRMNCDF	ł	16 SPHLPQWNCDF	29	-	-
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-	-
			ł	ł	-	-	-
Product Type SIR_GOP_2_	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	•	25 -
Product Type SIR_GOP_2_ Test Description Key:	RSWHOEPFDNCDF 28	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF 29	-	•	-
Product Type SIR_GOP_2_ Test Description Key: Abbreviation	RSWHOEPFDNCDF 28 Test name	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF 29 Details	•	•	-
Product Type SIR_GOP_2_ Test Description Key: Abbreviation	RSWHOEPFDNCDF 28	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF 29 Details	29 - e one higher with regard to th	•	25
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF 29 Details The burst counter should be	e one higher with regard to th	e previous burst counter	- -
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF	RSWHOEPFDNCDF 28 Test name	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF 29 Details The burst counter should be	•	e previous burst counter	- -
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet MissingValueIntOceanExc	IRSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a '	e one higher with regard to th	previous burst counter     poe 0 only for latitudes betwee	en -70 and 70 degrees
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet	IRSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a '	e one higher with regard to th	previous burst counter     poe 0 only for latitudes betwee	en -70 and 70 degrees
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF	RSWHOEPFDNCDF         28         Test name         BurstCounterStep20HzNet         MissingValueIntOceanExc         MissingValueIntOceanExc	IS IN THE INFORMATION INTERVALUE INTER	RSWHOEPNCDF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The value should not be a '	e one higher with regard to th missing value' for surface ty missing value' for surface ty	e previous burst counter be 0 only for latitudes betwe	en -70 and 70 degrees
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet MissingValueIntOceanExc	IS IN THE INFORMATION INTERVALUE INTER	RSWHOEPNCDF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The value should not be a '	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty	e previous burst counter pe 0 only for latitudes betwee pe 0 only for latitudes betwee pe 0 only	en -70 and 70 degrees en -70 and 70 degrees
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNel MissingValueIntOceanExc MissingValueIntOceanExc MissingValueIntOceanNet	IS IN THE INFORMATION INTERVALUE INTER	RSWHOEPNCDF 17	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The value should not be a ' The value should not be a ' The backscatter sigma zero	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 and	e previous burst counter pe 0 only for latitudes betwee pe 0 only for latitudes betwee pe 0 only	en -70 and 70 degrees en -70 and 70 degrees
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNel MissingValueIntOceanExc MissingValueIntOceanExc MissingValueIntOceanNet	RSWHOEPFDPLRMNCDF 18 CDF IludingPolarFD2NetCDF IludingPolarNetCDF CDF	RSWHOEPNCDF 17	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The value should not be a ' The value should not be a ' The backscatter sigma zero between -70 and 70 degree	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty should be between 700 and ts	e previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only d 7500 (or missing) for surfa	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latitud
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOCPFONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet MissingValueIntOceanExc MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ	RSWHOEPFDPLRMNCDF 18 CDF IludingPolarFD2NetCDF IludingPolarNetCDF CDF	RSWHOEPNCDF 17 D2NetCDF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The value should not be a ' The value should not be a ' The backscatter sigma zerc The backscatter sigma zerc	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty b should be between 700 and is s should be between 700 and	e previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only d 7500 (or missing) for surfa	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latitud
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet MissingValueIntOceanExc MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ	RSWHOEPFDPLRMNCDF 18 tCDF iludingPolarFD2NetCDF iludingPolarFD2NetCDF CDF cDF cDF	RSWHOEPNCDF 17 D2NetCDF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The value should not be a ' The value should not be a ' The backscatter sigma zero between -70 and 70 degree Dre backscatter sigma zero between -70 and 70 degree	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty should be between 700 and s should be between 700 and s	he previous burst counter be 0 only for latitudes betwee be 0 only for latitudes betwee be 0 only 1 7500 (or missing) for surfa	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latitud ce type = ocean for latitud
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOCPFONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet MissingValueIntOceanExc MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ	RSWHOEPFDPLRMNCDF 18 tCDF iludingPolarFD2NetCDF iludingPolarFD2NetCDF CDF cDF cDF	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The value should not be a ' The value should not be a ' The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty should be between 700 and so should be between 700 and so should be between 700 and so should be between 700 and	he previous burst counter be 0 only for latitudes betwee be 0 only for latitudes betwee be 0 only 1 7500 (or missing) for surfa	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RBSZOPOEPNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ RangeBackscatterSigmaZ	RSWHOEPFDPLRMNCDF 18 18 18 10 18 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The value should not be a ' The value should not be a ' The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree between -70 and 70 degree	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 and so should be between 700 and so	he previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RBSZOPOEPNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ RangeBackscatterSigmaZ	RSWHOEPFDPLRMNCDF 18 18 18 10 18 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty should be between 700 and so should be between 700 and so should be between 700 and so should be between 700 and	he previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latitud ce type = ocean for latitud ce type = ocean for latitud
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RBSZOPOEPNCDF RBSZOPOEPNCDF RBSZOPOEPNCDF	RSWHOEPFDNCDF           28           Test name           BurstCounterStep20HzNet           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           RangeBackscatterSigmaZ           RangeBackscatterSigmaZ           RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The backscatter sigma zero between -70 and 70 degree The Peakiness should be b and 70 degrees	e one higher with regard to the missing value' for surface ty missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 and so should be between 700 and so	reprevious burst counter     pe 0 only for latitudes betwee     o only for latitudes betwee     c 0 only for latitudes betwee     c 0 only     17500 (or missing) for surfa     17500 (or missing) for surfa     17500 (or missing) for surfa     ng) for surface type = ocean	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPRCDF MVIOCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRM NCDF RBSZOPOEPNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR	RSWHOEPFDNCDF           28           Test name           BurstCounterStep20HzNet           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           RangeBackscatterSigmaZ           RangeBackscatterSigmaZ           RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 18 10 18 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degree The Peakiness should be b and 70 degrees	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 and so should be between 700 and so	reprevious burst counter     pe 0 only for latitudes betwee     o only for latitudes betwee     c 0 only for latitudes betwee     c 0 only     17500 (or missing) for surfa     17500 (or missing) for surfa     17500 (or missing) for surfa     ng) for surface type = ocean	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latitud ce type = ocean for latitud ce type = ocean for latitud n for latitudes between -70
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRM NCDF RBSZOPOEPNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNel MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangePeakinessExcluding RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 10 18 10 18 10 10 18 10 10 10 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The value should not be a ' The value should not be a ' The backscatter sigma zero between -70 and 70 degree The Peakiness should be b and 70 degrees	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 and so o should be between 700 and so should be between 700 and so should be between 700 and so	he previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc n for latitudes between -70 an for latitudes between -7
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF WVIOEPFDNCDF WVIOEPNCDF WVIONCDF RBSZOPOEPFDPLCDF RBSZOPOEPFDPLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDPLRMSAR NCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNel MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangePaakinessExcluding RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to the missing value' for surface ty missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 and so should be between 700 and so	he previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc n for latitudes between -70 an for latitudes between -7
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOCPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RBSZOPOEPNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCOF	RSWHOEPFDNCDF         28         Test name         BurstCounterStep20HzNet         MissingValueIntOceanExc         MissingValueIntOceanExc         MissingValueIntOceanNet         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangePeakinessExcluding         RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 10 10 10 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degree The Packiness should be b and 70 degrees The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty should be between 700 and so should be between 700 and so setween 0 and 6400 (or miss wetween 0 and 90000 (or mis	Previous burst counter     previous burst     r500 (or missing) for surfa     17500 (or missing) for surfa     r500 (or missing) for surfa     ng) for surface type = ocear     sing) for surface type = ocear	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc n for latitudes between -7 an for latitudes between -7
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOCPNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RBSZOPOEPNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCOF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNel MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangePaakinessExcluding RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 10 10 10 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degree The Packiness should be b and 70 degrees The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 and so o should be between 700 and so should be between 700 and so should be between 700 and so	Previous burst counter     previous burst     r500 (or missing) for surfa     17500 (or missing) for surfa     r500 (or missing) for surfa     ng) for surface type = ocear     sing) for surface type = ocear	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc n for latitudes between -7 an for latitudes between -7
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIORCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN CDF RPEPOPFDPLRMSINN CDF	RSWHOEPFDNCDF         28         Test name         BurstCounterStep20HzNel         MissingValueIntOceanExc         MissingValueIntOceanExc         MissingValueIntOceanExc         MissingValueIntOceanExc         MissingValueIntOceanExc         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangePeakinessExcluding         RangePeakinessExcluding         RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 10 18 18 18 18 18 18 18 18 18 18 18 18 18	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty should be between 700 and so should be between 700 and so setween 0 and 6400 (or miss wetween 0 and 90000 (or mis	e previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa ing) for surface type = ocea sing) for surface type = ocea sing) for surface type = ocea	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc an for latitudes between -7 an for latitudes between -7 an for latitudes between -7
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSINN CDF RPEPOPFDPLRMSINN CDF	RSWHOEPFDNCDF         28         Test name         BurstCounterStep20HzNet         MissingValueIntOceanExc         MissingValueIntOceanExc         MissingValueIntOceanNet         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangePeakinessExcluding         RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 10 18 18 18 18 18 18 18 18 18 18 18 18 18	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to the missing value' for surface type missing value' for surface type missing value' for surface type missing value' for surface type should be between 700 and so should be between 700 and so s	e previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa 1 7500 (or missing) for surfa ing) for surface type = ocea sing) for surface type = ocea sing) for surface type = ocea	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc an for latitudes between -7 an for latitudes between -7 an for latitudes between -7
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDPLRMSAN CDF RPEPOPFDPLRMSINN CDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet MissingValueIntOceanExc MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangePeakinessExcluding RangePeakinessExcluding RangePeakinessExcluding RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 10 10 10 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The Peakiness should be b and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to the missing value' for surface type missing value' for surface type missing value' for surface type missing value' for surface type should be between 700 and so should be between 700 and so s	he previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surface type = ocea sing) for surface type = ocea sing) for surface type = ocea	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc an for latitudes between -7 an for latitudes between -7 an for latitudes between -7 an for latitudes between -7
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDPLRMSAN CDF RPEPOPFDPLRMSINN CDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF	RSWHOEPFDNCDF         28         Test name         BurstCounterStep20HzNel         MissingValueIntOceanExc         MissingValueIntOceanExc         MissingValueIntOceanExc         MissingValueIntOceanExc         MissingValueIntOceanExc         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangePeakinessExcluding         RangePeakinessExcluding         RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 10 10 10 10 10 10 10 10 10 10 10 10 10	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty should be between 700 and so should be b	he previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surface type = ocea sing) for surface type = ocea sing) for surface type = ocea	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc ce type = ocean for latituc an for latitudes between -70 an for latitudes between -7 an for latitudes between -7 an for latitudes between -7 an for latitudes between -7
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPNCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSAR RPEPOPFDSARNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF	RSWHOEPFDNCDF           28           Test name           BurstCounterStep20HzNet           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanNet           RangeBackscatterSigmaZ           RangeBackscatterSigmaZ           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 10DF 18 10DF 10UdingPolarFD2NetCDF 10UdingPolarFD2NetCDF 10UdingPolarNetCDF 10UdingPolarNetCDF 10UdingPolarNetCDF 10UdingPolarOPFD2LRMNetCDF 10UdingPolarOPFD2PLRMSINNetCDF 10UdingPolarOPFD2SARNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPLRMINetCDF 10UdingPolarOPLRMINNetCDF 10UdingPolarOPLRMINetCDF 10Ud	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty should be between 700 and so should be b	reprevious burst counter     pe 0 only for latitudes betwee     pe 0 only for latitudes betwee     pe 0 only for latitudes betwee     pe 0 only     17500 (or missing) for surfa     17500 (or missing) for surfa     17500 (or missing) for surfa     ng) for surface type = ocea     sing) for surface type = ocea	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latitud ce type = ocean for latitud ce type = ocean for latitud n for latitudes between -70 an for latitudes between -7 an for latitudes between -7 an for latitudes between -70 an for latitudes between -70
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM NCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR NCDF RPEPOPFDPLRMSAN CDF RPEPOPFDPLRMSINN CDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF	RSWHOEPFDNCDF 28 Test name BurstCounterStep20HzNet MissingValueIntOceanExc MissingValueIntOceanExc MissingValueIntOceanNet RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangeBackscatterSigmaZ RangePeakinessExcluding RangePeakinessExcluding RangePeakinessExcluding RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 10DF 18 10DF 10UdingPolarFD2NetCDF 10UdingPolarFD2NetCDF 10UdingPolarNetCDF 10UdingPolarNetCDF 10UdingPolarNetCDF 10UdingPolarOPFD2LRMNetCDF 10UdingPolarOPFD2PLRMSINNetCDF 10UdingPolarOPFD2SARNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPFD2SINNetCDF 10UdingPolarOPLRMINetCDF 10UdingPolarOPLRMINNetCDF 10UdingPolarOPLRMINetCDF 10Ud	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 and so o should be between 700 and so should be between 700 and so so so so so so so so so so so so so	he previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surface type = ocea 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ee type = ocean for latitud ce type = ocean for latitud ce type = ocean for latitud an for latitudes between -70 an for latitudes between -7 an for latitudes between -7 an for latitudes between -7 an for latitudes between -70 an for latitudes between -70
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSAR RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF RPEPOPFDSARNCDF	RSWHOEPFDNCDF         28         Test name         BurstCounterStep20H2Net         MissingValueIntOceanExc         MissingValueIntOceanExc         MissingValueIntOceanNet         RangeBackscatterSigmaZ         RangeBackscatterSigmaZ         RangePeakinessExcluding         RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 10DF 18 18 18 18 18 18 18 18 18 18 18 18 18	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should be The value should not be a ' The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degree The backscatter sigma zero between -70 and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to the missing value' for surface type missing value' for surface type missing value' for surface type should be between 700 and so should be between 700 and 90000 (or missing so should be and 9000	he previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surface type = ocea 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latitud ce type = ocean for latitud ce type = ocean for latitud an for latitudes between -70 an for latitudes between -7 an for latitudes between -7 an for latitudes between -7 an for latitudes between -7 an for latitudes between -70 an for latitudes between -70 an for latitudes between -70 an for latitudes between -70
Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF MVIORCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRMNCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSAR NCDF RPEPOPFDPLRMSAR RPEPOPFDSARNCDF RPEPOPFDSINNCDF RPEPOPFDSINNCDF	RSWHOEPFDNCDF           28           Test name           BurstCounterStep20HzNet           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanExc           MissingValueIntOceanNet           RangeBackscatterSigmaZ           RangeBackscatterSigmaZ           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding           RangePeakinessExcluding	RSWHOEPFDPLRMNCDF 18 18 10DF 18 18 18 18 18 18 18 18 18 18 18 18 18	RSWHOEPNCDF 17 D2NetCDF D2PLRMNetCDF letCDF DF	SPHLPQWNCDF 29 Details The burst counter should bu The value should not be a ' The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degree The backscatter sigma zerc between -70 and 70 degrees The Peakiness should be b and 70 degrees	e one higher with regard to th missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 and so o should be between 700 and so should be between 700 and so so so so so so so so so so so so so	he previous burst counter be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only for latitudes betwe be 0 only 1 7500 (or missing) for surfa 1 7500 (or missing) for surface type = ocea 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	en -70 and 70 degrees en -70 and 70 degrees en -70 and 70 degrees ce type = ocean for latitud ce type = ocean for latitud ce type = ocean for latitud an for latitudes between -70 an for latitudes between -7 an for latitudes between -7 an for latitudes between -7 an for latitudes between -7 an for latitudes between -70 an for latitudes between -70 an for latitudes between -70 an for latitudes between -70

ocean

ocean

ocean

latitudes between -70 and 70 degrees

Rel\_Time\_ASC\_Node\_Start mismatch (DBL ASC, rounded up to 0.1)

The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type =

The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type =

The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type =

The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for

The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample

The sequence counter should be modulo 4 higher with regard to the previous sequence counter

SCSTODNCDF SequenceCounterStepTODNetCDF

RangeSeaStateBiasCorrectionOceanNetCDF

RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF

RangeSeaSurfaceHeightAnomalyOceanNetCDF

SPH\_Rel\_Time\_ASC\_Node\_Start\_v2\_NetCDF

SameOrOneHigher1HzIndexFor20HzData

SequenceCounterStepTODHRNetCDF

RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF

RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF

RangeSignificantWaveHeightOceanExcludingPolarNetCDF

RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF

7.3 Missing QCC Reports

RSSBCONCDF

RSSHAONCDF

DF

RSSHAOFDNCDF

RSSHAOFDPLRMNCD

RSWHOEPFDNCDF

RSWHOEPNCDF

SOOHHIFHD

SPHRTASCNSNCDF

SCSTODHRNCDF

RSWHOEPFDPLRMNC

Number of products with missing QCC reports:

0