

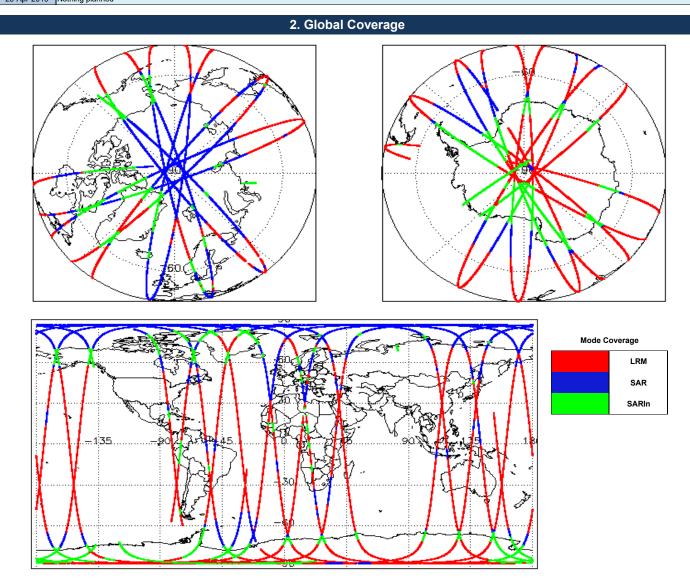
IDEAS+ Daily Report for GOP data:

25/04/2019



1. Overview				
Demant Developetions	04 May 0040	Check	L1 & L2	P2P
Report Production:	24-May-2019	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Due eee eeu liee di	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Product Software Check	Nominal	Nominal
Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal	
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

Mission / Instrument News 24-Apr-2019 None 25-Apr-2019 SIRAL unavailability on 25-Apr-2019 from approximately 03:29:00 to 06:52:10 and also from approximately 16:01:00 to 19:11:39 due to a planned roll campaign. 26-Apr-2019 Nothing planned



3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

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 inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:
0

4.3 L1B Auxilary Data File Usage Check	1	
Each product is checked for missing Data Set Descriptors with respect to a pre Number of products with errors: 0	e-determined baseline and also to check t	the validity of Auxiliary Data Files is correct.
umber of products with errors.		
.4 L1B Auxiliary Correction Error Check		
ryoSat L1B data includes a correction error flag for each measurement recor	d. The bit value of this flag indicates any p	problems when set.
lumber of products with errors: 0		
I.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measurer	nent record. The bit value of this flag indic	cates any problems when set.
ttitude Correction Missing: This flag is currently set in error for GOPR prod	-	
lumber of products with errors: 0		
I.6 L1B Waveform Group Data Check		
· ·	d. The hit velue of this flag indicates any g	
ryoSat L1B data includes a waveform data flag for each measurement record oss of Echo Flag: This flag is currently set for some products over land, but		orodiems when set.
umber of products with errors: 8	tins is to be expected.	
	Test Foiled	Description
roduct S_OFFL_SIR_GOPN1B_20190425T011056_20190425T011217_C001	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20190425T091721_20190425T091821_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20190425T110007_20190425T110312_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20190425T141457_20190425T141757_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20190425T141910_20190425T142125_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPR1B_20190425T013317_20190425T013531_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPR1B_20190425T125200_20190425T125525_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPR1B_20190425T223302_20190425T224017_C001	Loss of Echo	The tracking echo is missing for one or more records
5. G(OP Level 2 Data Quality	Check
	OP Level 2 Data Quality	Check
5.1 L2 Product Format Check		
5.1 L2 Product Format Check		
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to end Number of products with errors: 0		
5.1 L2 Product Format Check		
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to end unber of products with errors: 0 5.2 L2 Product Header Analysis	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to experiment of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a lumber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and lumber of products with errors: 0	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to a number of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check	ensure it consists of both an XML header i	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain.
6.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to elumber of products with errors: 0 6.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 6.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre-	ensure it consists of both an XML header i	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a lumber 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 lumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a product with errors: 0	ensure it consists of both an XML header i	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to end unber 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 lumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-lumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check	ensure it consists of both an XML header d SPH in order to identify any inconsistent e-determined baseline and also to check t	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to elember of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a predumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are chemical products.	ensure it consists of both an XML header d SPH in order to identify any inconsistent e-determined baseline and also to check t	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check Sach product, retrieved and unpacked from the science server, is checked to end unber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Sach product is checked for missing Data Set Descriptors with respect to a predumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are chemical products.	ensure it consists of both an XML header d SPH in order to identify any inconsistent e-determined baseline and also to check t	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check Sach product, retrieved and unpacked from the science server, is checked to end unber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and unber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Cach product is checked for missing Data Set Descriptors with respect to a predumber 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 products with errors:	ensure it consists of both an XML header d SPH in order to identify any inconsistent e-determined baseline and also to check t	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a science 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 lumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a product of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are chemical products.	ensure it consists of both an XML header is d SPH in order to identify any inconsistence e-determined baseline and also to check t ecked for the default error value (32767).	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct.
5.1 L2 Product Format Check iach product, retrieved and unpacked from the science server, is checked to end unber of products with errors: 0 5.2 L2 Product Header Analysis ior all products, a series of pre-defined checks are performed on the MPH and unber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check iach product is checked for missing Data Set Descriptors with respect to a pre-lumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check ior all products, the auxiliary corrections within the Geophysical Group are checked for products with errors: 0 5.4 L2 Auxiliary Correction Error Check ior all products, the auxiliary corrections within the Geophysical Group are checked for products with errors: 0 5.4 L2 Measurement Confidence Data Check	ensure it consists of both an XML header is d SPH in order to identify any inconsistence e-determined baseline and also to check t ecked for the default error value (32767).	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct.
5.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to elumber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre- umber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are che- umber of products with errors: 0 5.4 L2 Measurement Confidence Data Check tryoSat L2 data includes a measurement confidence flag for each 20-Hz mea- lumber of products with errors:	ensure it consists of both an XML header is d SPH in order to identify any inconsistence e-determined baseline and also to check t ecked for the default error value (32767).	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct.
6.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to a sumber of products with errors: 0 6.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre-lumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are chelumber of products with errors: 0 5.5 L2 Measurement Confidence Data Check tryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement of products with errors: 0 5.6 L2 Range Measurement Check	ensure it consists of both an XML header d SPH in order to identify any inconsistent e-determined baseline and also to check t ecked for the default error value (32767).	file (.HDR) and a binary product file (.DBL). cles and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct.
A L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to a umber of products with errors: 0 3.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 3.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre-umber of products with errors: 0 3.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are che-umber of products with errors: 0 5.4 L2 Measurement Confidence Data Check ryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement of products with errors: 0 5.6 L2 Range Measurement Check ryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for eurrently, there are two common status flags raised in the Level 2 produ	ensure it consists of both an XML header d SPH in order to identify any inconsistent e-determined baseline and also to check t ecked for the default error value (32767). isurement record. The bit value of this flag	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. g indicates any problems when set.
.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to e umber of products with errors: 0 .2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 .3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre-umber of products with errors: 0 .4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are che- umber of products with errors: 0 .4 L2 Measurement Confidence Data Check ryoSat L2 data includes a measurement confidence flag for each 20-Hz mea- umber of products with errors: 0 .6 L2 Range Measurement Check ryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for e- urrently, there are two common status flags raised in the Level 2 produ- uble highlighting any additional issues which may arise from this test.	ensure it consists of both an XML header is d SPH in order to identify any inconsistence e-determined baseline and also to check t ecked for the default error value (32767). Isurement record. The bit value of this flag each measurement record. The bit value o cts which are expected due to surface	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. g indicates any problems when set. of this flag indicates any problems when set. type. All common flags are summarised in the list below, followed by a
A L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to a umber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre-umber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are che-umber of products with errors: 0 5.4 L2 Measurement Confidence Data Check ryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement of products with errors: 0 6.4 L2 Range Measurement Check ryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for eurorently, there are two common status flags raised in the Level 2 produuble highlighting any additional issues which may arise from this test.	ensure it consists of both an XML header d SPH in order to identify any inconsistent e-determined baseline and also to check t ecked for the default error value (32767). isurement record. The bit value of this flag each measurement record. The bit value o cts which are expected due to surface over land and sea ice, but this is to be exp	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. g indicates any problems when set. of this flag indicates any problems when set. type. All common flags are summarised in the list below, followed by a
A L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to e umber of products with errors: 0 A L2 Product Header Analysis 0 or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 A L2 Auxiliary Data File Usage Check 0 ach product is checked for missing Data Set Descriptors with respect to a pre-umber of products with errors: 0 A L2 Auxiliary Correction Error Check 0 or all products, the auxiliary corrections within the Geophysical Group are che-umber of products with errors: 0 5.4 L2 Measurement Confidence Data Check 0 ryoSat L2 data includes a measurement confidence flag for each 20-Hz measumber of products with errors: 0 6.4 L2 Range Measurement Check 0 7.5 L2 Range Measurement Check 0 7.6 L2 Range Measurement Check 0 7.7 Sat L2 data includes an Ocean and Ice Range Averaging Status flag for eurrently, there are two common status flags raised in the Level 2 products or bie highlighting any additional issues which may arise from this test. 1.8 can Range Averaging Status Flag: This flag is currently s	ensure it consists of both an XML header d SPH in order to identify any inconsistent e-determined baseline and also to check t ecked for the default error value (32767). isurement record. The bit value of this flag each measurement record. The bit value o cts which are expected due to surface over land and sea ice, but this is to be exp	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. g indicates any problems when set. of this flag indicates any problems when set. type. All common flags are summarised in the list below, followed by a
.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to a umber of products with errors: 0 .2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 .3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre-umber of products with errors: 0 .4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are che-umber of products with errors: 0 .5 L2 Measurement Confidence Data Check ryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement of products with errors: 0 .6 L2 Range Measurement Check ryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for eurrently, there are two common status flags raised in the Level 2 produuble highlighting any additional issues which may arise from this test. cean Range Averaging Status Flag: This flag is currently set for products over umber of products with errors: 59	ensure it consists of both an XML header is d SPH in order to identify any inconsistent e-determined baseline and also to check t ecked for the default error value (32767). Isurement record. The bit value of this flag each measurement record. The bit value of this flag each measurement record. The bit value of this flag	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. g indicates any problems when set. of this flag indicates any problems when set. type. All common flags are summarised in the list below, followed by a sected.
.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to a unber of products with errors: 0 .2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and umber of products with errors: 0 .3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre-umber of products with errors: 0 .4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are che-umber of products with errors: 0 .5 L2 Measurement Confidence Data Check ryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement of products with errors: 0 .6 L2 Range Measurement Check ryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for eurorenty, there are two common status flags raised in the Level 2 produuble highlighting any additional issues which may arise from this test. cean Range Averaging Status Flag: This flag is currently set for products over umber of products with errors: 59 reduct 59	ensure it consists of both an XML header is d SPH in order to identify any inconsistent e-determined baseline and also to check t ecked for the default error value (32767). isurement record. The bit value of this flag each measurement record. The bit value of this flag	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. g indicates any problems when set. of this flag indicates any problems when set. type. All common flags are summarised in the list below, followed by a pected. Description The Ocean Range Averaging Status Flag has been set for one or mo
6.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to a number of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre-lumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are chelumber of products with errors: 0 5.5 L2 Measurement Confidence Data Check aryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement of products with errors: 0 5.6 L2 Range Measurement Check aryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for exproduable highlighting any additional issues which may arise from this test. brogean Range Averaging Status Flag: This flag is currently set for products over the products with errors: brog at L2 data includes an ICean and Ice Range Averaging Status flag for exproduable highlighting any additional issues which may arise from this test. brogean Range Averaging Status Flag: This flag is currently set for products over there of products with errors: 59 roduct 59	ensure it consists of both an XML header is d SPH in order to identify any inconsistent e-determined baseline and also to check t ecked for the default error value (32767). surement record. The bit value of this flag each measurement record. The bit value of this flag each measurement record. The bit value of this flag over land and sea ice, but this is to be exp ver land and sea ice, but this is to be exp i land, but this is to be expected. Test Failed Ocean Range Averaging Status	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. g indicates any problems when set. f this flag indicates any problems when set. type. All common flags are summarised in the list below, followed by a pected. Description The Ocean Range Averaging Status Flag has been set for one or more records.
5.1 L2 Product Format Check iach product, retrieved and unpacked from the science server, is checked to elumber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and lumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check iach product is checked for missing Data Set Descriptors with respect to a pre-lumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check ior all products, the auxiliary corrections within the Geophysical Group are chellumber of products with errors: 0 5.5 L2 Measurement Confidence Data Check CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement of products with errors: 0 5.6 L2 Range Measurement Check CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for examples of products with errors: 0 5.6 L2 Range Measurement Check CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each 22 product able highlighting any additional issues which may arise from this test. Decean Range Averaging Status Flag: This flag is currently set for products or care ange Averaging Status Flag: This flag is currently set for products or care ange Averaging Status Flag: This flag is currently set for products or care and products or care ange A	ensure it consists of both an XML header is d SPH in order to identify any inconsistent e-determined baseline and also to check t ecked for the default error value (32767). isurement record. The bit value of this flag each measurement record. The bit value of this flag	file (.HDR) and a binary product file (.DBL). cies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. g indicates any problems when set. of this flag indicates any problems when set. type. All common flags are summarised in the list below, followed by a vected. Description The Ocean Range Averaging Status Flag has been set for one or mo

Ocean Range Averaging Status

Ocean Range Averaging Status

Ocean Range Averaging Status

Ice Range Averaging Status

Ice Range Averaging Status

CS_OFFL_SIR_GOPM_2_20190425T004915_20190425T005657_C001

CS_OFFL_SIR_GOPM_2_20190425T011217_20190425T011522_C001

CS_OFFL_SIR_GOPM_2_20190425T011749_20190425T013317_C001

CS_OFFL_SIR_GOPM_2_20190425T013531_20190425T015024_C001

CS_OFFL_SIR_GOPM_2_20190425T020004_20190425T020423_C001

records

The Ocean Range Averaging Status Flag has been set for one or more records.

The Ocean Range Averaging Status Flag has been set for one or more

The Ocean Range Averaging Status Flag has been set for one or more records.

The loc Range Averaging Status Flag has been set for one or more records.

The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20190425T020610_20190425T022102_C001 CS OFFL SIR GOPM 2 20190425T022241 20190425T023850 C001 CS_OFFL_SIR_GOPM_2_20190425T030050_20190425T031231_C001 CS_OFFL_SIR_GOPM_2_20190425T031708_20190425T032900_C001 CS OFFL SIR GOPM 2 20190425T065610 20190425T070206 C001 CS OFFL SIR GOPM 2 20190425T070339 20190425T072709 C001 CS OFFL SIR GOPM 2 20190425T074005 20190425T074203 C001 CS OFFL SIR GOPM 2 20190425T075454 20190425T082906 C001 CS_OFFL_SIR_GOPM_2_20190425T083517_20190425T084037_C001 CS_OFFL_SIR_GOPM_2_20190425T084218_20190425T084554_C001 CS OFFL SIR GOPM 2 20190425T084713 20190425T084835 C001 CS_OFFL_SIR_GOPM_2_20190425T091821_20190425T092217_C001 CS OFFL SIR GOPM 2 20190425T093443 20190425T094321 C001 CS_OFFL_SIR_GOPM_2_20190425T094607_20190425T100824_C001 CS_OFFL_SIR_GOPM_2_20190425T101525_20190425T101932_C001 CS OFFL SIR GOPM 2 20190425T102129 20190425T103438 C001 CS OFFL SIR GOPM 2 20190425T103625 20190425T104231 C001 CS_OFFL_SIR_GOPM_2_20190425T111333_20190425T114647_C001 CS OFFL SIR GOPM 2 20190425T114913 20190425T115417 C001 CS_OFFL_SIR_GOPM_2_20190425T115437_20190425T115743_C001 CS_OFFL_SIR_GOPM_2_20190425T120153_20190425T120222_C001 CS OFFL SIR GOPM 2 20190425T120517 20190425T123610 C001 CS_OFFL_SIR_GOPM_2_20190425T125525_20190425T130402_C001 CS OFFL SIR GOPM 2 20190425T130540 20190425T132617 C001 CS OFFL SIR GOPM 2 20190425T132808 20190425T133315 C001 CS OFFL SIR GOPM 2 20190425T133353 20190425T133521 C001 CS_OFFL_SIR_GOPM_2_20190425T134258_20190425T135252_C001 CS_OFFL_SIR_GOPM_2_20190425T135912_20190425T141053_C001 CS_OFFL_SIR_GOPM_2_20190425T143313_20190425T144902_C001 CS OFFL SIR GOPM 2 20190425T145041 20190425T150506 C001 CS_OFFL_SIR_GOPM_2_20190425T150726_20190425T151225_C001 CS_OFFL_SIR_GOPM_2_20190425T151250_20190425T151300_C001 CS OFFL SIR GOPM_2_20190425T152413_20190425T153617_C001 CS_OFFL_SIR_GOPM_2_20190425T153620_20190425T154250_C001 CS_OFFL_SIR_GOPM_2_20190425T193429_20190425T194044_C001 CS OFFL SIR GOPM 2 20190425T195737 20190425T200357 C001 CS_OFFL_SIR_GOPM_2_20190425T200546_20190425T201129_C001 CS OFFL SIR GOPM 2 20190425T201704 20190425T205048 C001 CS OFFL SIR GOPM 2 20190425T210422 20190425T210519 C001 CS OFFL SIR GOPM 2 20190425T212103 20190425T214315 C001 CS_OFFL_SIR_GOPM_2_20190425T214512_20190425T215022_C001 CS_OFFL_SIR_GOPM_2_20190425T215619_20190425T223049_C001 CS_OFFL_SIR_GOPM_2_20190425T224236_20190425T224342_C001 CS OFFL SIR GOPM 2 20190425T230020 20190425T231913 C001 CS_OFFL_SIR_GOPM_2_20190425T233623_20190426T000605_C001 CS_OFFL_SIR_GOPN_2_20190425T065356_20190425T065609_C001 CS OFFL SIR GOPN 2 20190425T074324 20190425T074341 C001 CS_OFFL_SIR_GOPN_2_20190425T083202_20190425T083517_C001 CS_OFFL_SIR_GOPN_2_20190425T123632_20190425T123749_C001 CS OFFL SIR GOPN 2 20190425T200423 20190425T200546 C001 CS_OFFL_SIR_GOPR_2_20190425T091521_20190425T091654_C001

Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status

The Ocean Range Averaging Status Flag has been set for one or more record The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more record The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set

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

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected 60

Number of products with errors:

Product CS_OFFL_SIR_GOPM_2_20190424T234212_20190425T000845_C001 CS OFFL SIR GOPM 2 20190425T002709 20190425T004309 C001 CS_OFFL_SIR_GOPM_2_20190425T004312_20190425T004433_C001 CS OFFL SIR GOPM 2 20190425T004915 20190425T005657 C001 CS_OFFL_SIR_GOPM_2_20190425T011217_20190425T011522_C001 CS_OFFL_SIR_GOPM_2_20190425T011749_20190425T013317_C001 CS OFFL SIR GOPM 2 20190425T013531 20190425T015024 C001 CS_OFFL_SIR_GOPM_2_20190425T020610_20190425T022102_C001 CS_OFFL_SIR_GOPM_2_20190425T022241_20190425T023850_C001 CS OFFL SIR GOPM 2 20190425T030050 20190425T031231 C001 CS_OFFL_SIR_GOPM_2_20190425T031708_20190425T032900_C001 CS_OFFL_SIR_GOPM_2_20190425T065610_20190425T070206_C001 CS OFFL SIR GOPM 2 20190425T070339 20190425T072709 C001 CS_OFFL_SIR_GOPM_2_20190425T074005_20190425T074203_C001 CS OFFL SIR GOPM 2 20190425T075454 20190425T082906 C001 CS_OFFL_SIR_GOPM_2_20190425T083517_20190425T084037_C001 CS OFFL SIR GOPM 2 20190425T084218 20190425T084554 C001 CS_OFFL_SIR_GOPM_2_20190425T084713_20190425T084835_C001 CS_OFFL_SIR_GOPM_2_20190425T091821_20190425T092217_C001 CS_OFFL_SIR_GOPM_2_20190425T093443_20190425T094321_C001 CS OFFL SIR GOPM 2 20190425T094607 20190425T100824 C001 CS_OFFL_SIR_GOPM_2_20190425T101407_20190425T101519_C001 CS_OFFL_SIR_GOPM_2_20190425T101525_20190425T101932_C001 CS OFFL SIR GOPM 2 20190425T102129 20190425T103438 C001 CS_OFFL_SIR_GOPM_2_20190425T103625_20190425T104231_C001 CS OFFL SIR GOPM 2 20190425T111333 20190425T114647 C001 CS OFFL SIR GOPM 2 20190425T114913 20190425T115417 C001 CS_OFFL_SIR_GOPM_2_20190425T115437_20190425T115743_C001 CS OFFL SIR GOPM 2 20190425T120153 20190425T120222 C001 CS OFFL SIR GOPM 2 20190425T120517 20190425T123610 C001 CS_OFFL_SIR_GOPM_2_20190425T125525_20190425T130402_C001 CS_OFFL_SIR_GOPM_2_20190425T130540_20190425T132617_C001 CS OFFL SIR GOPM 2 20190425T132808 20190425T133315 C001 CS_OFFL_SIR_GOPM_2_20190425T133353_20190425T133521_C001 CS_OFFL_SIR_GOPM_2_20190425T134258_20190425T135252_C001 CS_OFFL_SIR_GOPM_2_20190425T135912_20190425T141053_C001 CS_OFFL_SIR_GOPM_2_20190425T143313_20190425T144902_C001 CS OFFL SIR GOPM 2 20190425T145041 20190425T150506 C001 CS_OFFL_SIR_GOPM_2_20190425T150726_20190425T151225_C001 CS_OFFL_SIR_GOPM_2_20190425T151250_20190425T151300_C001 CS OFFL SIR GOPM 2 20190425T152103 20190425T152331 C001 CS OFFL SIR GOPM 2 20190425T152413 20190425T153617 C001 CS_OFFL_SIR_GOPM_2_20190425T153620_20190425T154250_C001 CS OFFL SIR GOPM 2 20190425T193429 20190425T194044 C001

Test Failed	Description
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
Ice Backscatter Averaging Status	records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status, Ocean	more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records.
Backscatter Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
Daunscaller Averaging Sidlus	

	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20190425T195737_20190425T200357_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOPM_2_20190425T200546_20190425T201129_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190425T201704_20190425T205048_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190425T210422_20190425T210519_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190425T212103_20190425T214315_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190425T214512_20190425T215022_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190425T215619_20190425T223049_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190425T224236_20190425T224342_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190425T230020_20190425T231913_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190425T233623_20190426T000605_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190425T065356_20190425T065609_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190425T074324_20190425T074341_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190425T083202_20190425T083517_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190425T123632_20190425T123749_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190425T200423_20190425T200546_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190425T091521_20190425T091654_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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:

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

6.1 P2P Product Format Check

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

6.2 P2P Product Header Analysis

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

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

0

0

38

Number of products with errors:

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 22

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20190424T233006_20190425T001940_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T001940_20190425T010920_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T010920_20190425T015854_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T015854_20190425T024833_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T024833_20190425T033807_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T065635_20190425T074614_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T074614_20190425T083548_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T083548_20190425T092528_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T092528_20190425T101502_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
CS_OFFL_SIR_GOP_220190425T101502_20190425T110441_C001	Range Averaging Status	or more records.
CS_OFFL_SIR_GOP_2_20190425T110441_20190425T115415_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T115415_20190425T124355_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T124355_20190425T133329_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T133329_20190425T142308_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T142308_20190425T151242_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T151242_20190425T160222_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T192049_20190425T201023_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T201023_20190425T210003_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T210003_20190425T214937_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T214937_20190425T223916_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T223916_20190425T232850_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T232850_20190426T001830_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 22

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20190424T233006_20190425T001940_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T001940_20190425T010920_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T010920_20190425T015854_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T015854_20190425T024833_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T024833_20190425T033807_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T065635_20190425T074614_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T074614_20190425T083548_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T083548_20190425T092528_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T092528_20190425T101502_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T101502_20190425T110441_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T110441_20190425T115415_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T115415_20190425T124355_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T124355_20190425T133329_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T133329_20190425T142308_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T142308_20190425T151242_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T151242_20190425T160222_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T192049_20190425T201023_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T201023_20190425T210003_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T210003_20190425T214937_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190425T214937_20190425T223916_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOP_2__20190425T232850_20190426T001830_C001

SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status

The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: 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: 20

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220190425T001940_20190425T010920_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T010920_20190425T015854_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T015854_20190425T024833_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T024833_20190425T033807_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T065635_20190425T074614_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T074614_20190425T083548_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T092528_20190425T101502_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T101502_20190425T110441_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T110441_20190425T115415_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T115415_20190425T124355_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T124355_20190425T133329_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T133329_20190425T142308_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T142308_20190425T151242_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T151242_20190425T160222_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T192049_20190425T201023_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T201023_20190425T210003_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T210003_20190425T214937_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T214937_20190425T223916_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190425T223916_20190425T232850_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190425T232850_20190426T001830_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.