

See Tracker(1) in use: See Tracker(2) A. Level 12 Data Quality Check A. Level 12 Data Qual	3. Instrument Configuration							
Star Tracker (s) in use Star Tracker 1	The SIRAL instrument configuration	on for the day of acquisition is provide	d below.					
A Lovel 1B Data Quality Check A Li Product Format Check List is product, where and unasked from the vience server, is dreaded is erase it consists of forth an XXII, header file (HOR) and a product file (EDX). Number of products with errors:	SIRAL instrument(s) in use:	SIRAL - A						
All 11 Product Format Chock 	Star Tracker(s) in use:	Star Tracker 1						
All 11 Product Format Chock 			4. Level 1B Data Quality Check					
Each product, referred and urpacket from the science server, is checked to ensure it consists of both an XXA, header file (1-RR) and a product file (.OBL). Number of products with ensure:	4111 Product Format							
Number of products with errors:			red to ansure it consists of both an XML beader file (HDR) and a product file (DRL)					
For all products, a series of pre-defined each are seried out on the MPH and SPH is order to identify any inconsistencies and/or enrors calced by the ground segment processing chain. Number of products with errors: 3 4.3 LTB Auxiliary Data File Usage Check Each product is decided for missing Data Set Descriptors with a pre-defermined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 3 Freedom Free								
Number of products with errors: 0 4.3 L1B Auxiliary Data File Usage Check 0 Auxiliary Data File Usage Check 0 4.4 L1B Flagged Auxiliary Correction Error Check 0 4.4 L1B Flagged Auxiliary Correction Error Check 0 7.000000000000000000000000000000000000	4.2 L1B Product Heade	ər Analysis						
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4.1 LP Flagged Auxiliary Correction Error Check Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors Number of products with errors: 3 Co., OFFL, SHL, MA, Tag, 201301 201302 201302 10000200, B001 Dynamic atmosphere correction error CS_, OFFL, SHL, MA, Tag, 201301 201301 201302 201302 1001 201301 Dynamic atmosphere correction error CS_, OFFL, SHL, MA, Tag, 201301 201301 201301 201301 201301 Dynamic atmosphere correction error CS_, OFFL, SHL, MA, Tag, 201301 201301 201301 201301 201301 Dynamic atmosphere correction error CS_, OFFL, SHL, MA, Tag, 201301 201301 201301 201301 201301 Dynamic atmosphere correction error A.5 L1B Measurement Confidence Data Check CryoSal L1B data includes a measurement confidence flag word (fled 14) for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0 S.12 Product Format Check Each product, retireed and upgacked from the solence server, is checked to ensure it consists of both an XML header file (HDR) and a braary product file (DBL) Number of products with errors: 0 S.12 Auxillary Data File Usage Check Each product is checked for missing Data Set Descriptors wit a pre-determined baseline and also to check the validity of Auxiliary Data Files is	Each product is checked for missi	ng Data Set Descriptors wrt a pre-dete	ermined baseline and also to check the validity of Auxiliary Data Files is correct.					
Each product is obtacked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors Number of products with errors: 3 Product Test Failed OS_OFFL_SIL_LSM_B_001191235655_201301207008020_09001 Dynamic atmosphere correction error CS_OFFL_SIL_LSM_B_001191235655_201301207008020_09001 Dynamic atmosphere correction error CS_OFFL_SIL_SIL_SM_B_0118_20130120111923565_201301011201108 Dynamic atmosphere correction error Chyclassic_LSM_B_001_100_00000_0000_00000_0000_0000_0	Number of products with errors	:: 0						
Number of products with errors: 3 Product Test Failed CS, OFFL, SIR, LRM, *B, 2013031919235055, 2013012000820, B001 Dynamic atmosphere correction error CS, OFFL, SIR, LRM, *B, 2013031919235055, 2013012011201083, B001 Dynamic atmosphere correction error CS, OFFL, SIR, SIN, *B, 201301201119233, 20130120112010, B001 Dynamic atmosphere correction error A.5. L1B Measurement Confidence Data Check Crossal L1B data includes a measurement confidence flag word (field 14) for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0 S. Level 2 Data Quality Check 5.12 Product Format Check Scal 12 Product with errors: 0 S.12 Product Header Analysis For all products, with errors: 0 S.12 Product Header Analysis For all products with errors: 0 S.12 Auxiliary Data File Usage Check Each products of products with errors: 1 Product Quarity Concection Error Check Each products with errors: 1 Product Socked for missing Data Set Descriptors with a pro-determined baseline and also to check the valuidy of Auxiliary Data Files is correct Number of products with error	4.4 L1B Flagged Auxili	ary Correction Error Chec	ck					
Product Test Failed CS_OFF_SIL_SIN_150_130119725553_20130120T066020_B001 Dynamic atmosphere correction envor CS_OFF_SIL_SIN_18_20130120755533_20130120T061038_B001 Dynamic atmosphere correction envor CS_OFF_SIL_SIN_18_20130120T19033_20130120T120104_B001 Dynamic atmosphere correction envor 4.5 L1B Measurement Confidence Data Check Environment confidence flag word (field 14) for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0 S. Level 2 Data Qualify Check Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" S. Level 2 Data Qua	Each product is checked to spot a	auxiliary corrections flagged by the gro	und-station processing chain as missing or containing errors					
CS_OFFL_SIL_LAW_18_20130117235553_20130120T000820_0001 Dynamic atmosphere correction error CS_OFFL_SIL_RM_18_201301207135553_20130120T120104_B001 Dynamic atmosphere correction error Dynamic atmosphere correction error Dynamic atmosphere correction error CS_OFFL_SIL_RM_18_20130120T115833_20130120T120114_B001 Dynamic atmosphere correction error 4.5 L1B Measurement Confidence Data Check CryoSat L1B data includes a measurement confidence flag word (field 14) for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors:	Number of products with errors	:: 3						
CS_OFFSIR_LENA_IS_20130120T05403_20130120T105403_B001 Dynamic atmosphere correction error Dynamic atmosphere correction error A.S.LENA_IS_20130120T115933_20130120T102014_B001 Dynamic atmosphere correction error A.S.LENA_IS_20130120T115933_20130120T102014_B001 Dynamic atmosphere correction error A.S.LENA_IS_20130120T115933_20130120T102014_B001 CryoSat L1B data includes a measurement confidence flag word (field 14) for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0 S.LEVEI 2 Data Quality Check S.LL2 Product Format Check Fach product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (HDR) and a binary product file (DBL) Number of products with errors: 0 S.L2 Product Header Analysis For al products, series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain Number of products with errors: 0 S.L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors wit a pre-defined baseline and also to check the validity of Auxiliary Data Files is correct Number of products with errors: 1 Product CS_OFFL_SIR_LSR_GBR_2A_2013011917231730_20130120005644_B001 CS_OFEL_XUX_ORBDOR_201301181215525_201301207 Coverage missing for intervals [2013-01- 20702325, 2013-01-20100-56:44] CS_OFEL_SIR_LSR_GBR_2A_201301191723553_2013012070056284_B001 CS_OFEL_SIR_LSR_MC_2013001181215525_201301207 Coverage missing for intervals [2013-01- 20702325, 2013-01-20100-56:44] CS_OFEL_SIR_LSR_MC_20130011817215525_201301207 Coverage missing for intervals [2013-01- 20702325, 2013-01-20100-56:44] CS_OFEL_SIR_LSR_MC_20130011817215525_201301207 Coverage missing for intervals [2013-01- 20702325, 2013-01-20100-56:44] CS_OFEL_SIR_LSR_MC_20130011817215525_201301207 Coverage missing for intervals [2013-01- 20702325, 2013-01-20100-56:44] CS_OFEL_SIR_LSR_MC_2013001187215525_201301207 Coverage missin	Product		Test Failed					
CS_OFFL_SIR_SIN_1B_20130120T115833_20130120T120104_B001 Dynamic atmosphere correction error 4.5 L1B Measurement Confidence Data Check CryoSat L1B data includes a measurement confidence flag word (field 14) for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0 5. Level 2 Data Quality Check Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (HDR) and a binary product file (DBL) Number of products with errors: 0 5. L2 Product Header Analysis For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-ægment processing chain Number of products with errors: 0 For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-ægment processing chain Number of products with errors: 0 For all products is checked for missing Data Set Descriptors wrt a pre-defermined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 1 For all product is checked for missing Data Set Descriptors wrt a pre-defermined baseline and also to check the validity of Auxiliary Data Files is correct. Set L2 Flagged Auxiliary Correction Error Check Each product is checked to got auxiliary corrections flagged by the ground-staton processing chain as missing or containing errors Number of prod								
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Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct Number of products with errors: 1 Product AUX File Comment CS_OFFL_SIR_GDR_2A_20130119T231730_20130120T005644_B001 CS_OPER_AUX_ORBDOR_20130118T215525_20130120T Coverage missing for intervals [2013-01- 20T00:23:25, 2013-01-20T00:56:44] 5.4 L2 Flagged Auxiliary Correction Error Check Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors Number of products with errors: 3 Product Test Failed Comment CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001 Opamic atmosphere correction error Opamic atmosphere correction error	5.2 L2 Product Header	Analysis						
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Number of products with errors: 1 Product AUX File Comment CS_OFFL_SIR_GDR_2A_20130119T231730_20130120T005644_B001 CS_OPER_AUX_ORBDOR_20130118T215525_20130120T 002325_0001 Coverage missing for intervals [2013-01- 20T00:23:25, 2013-01-20T00:56:44] 5.4 L2 Flagged Auxiliary Correction Error Check Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors Number of products with errors: 3 Product Test Failed CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001 Dynamic atmosphere correction error CS_OFFL_SIR_LRM_2_20130120T0054031_20130120T0061038_B001 Dynamic atmosphere correction error	5.3 L2 Auxiliary Data F	ile Usage Check						
Product AUX File Comment CS_OFFL_SIR_GDR_2A_20130119T231730_20130120T005644_B001 CS_OPER_AUX_ORBDOR_20130118T215525_20130120T 002325_0001 Coverage missing for intervals [2013-01- 20T00:23:25, 2013-01-20T00:56:44] S.4 L2 Flagged Auxiliary Correction Error Check Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors Number of products with errors: 3 Product Coverage missing for intervals [2013-01- 20T00:23:25, 2013-01-20T00:56:44] OR Product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors Number of products with errors: 3 Product CoseFIL_SIR_LRM_2_20130119T235553_20130120T000820_B001 Opnamic atmosphere correction error CS_OFFL_SIR_LRM_2_20130120T0064031_20130120T0061038_B001	Each product is checked for missi	ing Data Set Descriptors wrt a pre-dete	ermined baseline and also to check the validity of Auxiliary Data Files is correct					
CS_OFFL_SIR_GDR_2A_20130119T231730_20130120T005644_B001 CS_OPER_AUX_ORBDOR_20130118T215525_20130120T 002325_0001 Coverage missing for intervals [2013-01- 20T00:23:25, 2013-01-20T00:56:44] 5.4 L2 Flagged Auxiliary Correction Error Check Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors Number of products with errors: 3 Product Test Failed CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001 Dynamic atmosphere correction error CS_OFFL_SIR_LRM_2_20130120T054031_20100138_B001 Dynamic atmosphere correction error Dynamic atmosphere correction error	Number of products with errors	: 1						
CCS_OFFL_SIR_GDR_ZA_201301191231730_201301201003644_B001 002325_0001 20T00:23:25, 2013-01-20T00:56:44] 5.4 L2 Flagged Auxiliary Correction Error Check Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors Number of products with errors: 3 Product Test Failed CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001 Dynamic atmosphere correction error CS_OFFL_SIR_LRM_2_20130120T054031_20130120T0061038_B001 Dynamic atmosphere correction error Dynamic atmosphere correction error	Product							
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Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors Number of products with errors: 3 Product Test Failed CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001 Dynamic atmosphere correction error CS_OFFL_SIR_LRM_2_20130120T054031_20130120T061038_B001 Dynamic atmosphere correction error	5.4 L2 Flagged Auxilia	ry Correction Error Check	< colored and set of the set of t					
Product Test Failed CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001 Dynamic atmosphere correction error CS_OFFL_SIR_LRM_2_20130120T054031_20130120T061038_B001 Dynamic atmosphere correction error								
CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001 Dynamic atmosphere correction error CS_OFFL_SIR_LRM_2_20130120T054031_20130120T061038_B001 Dynamic atmosphere correction error	Number of products with errors	:: 3						
CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001 Dynamic atmosphere correction error CS_OFFL_SIR_LRM_2_20130120T054031_20130120T061038_B001 Dynamic atmosphere correction error	Product		Test Failed					

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag word (field 43) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the ground-segment processing chains

Presently, there are several common data Quality Flag errors raised by the Level 2 products which are either expected due to changes made to the IPF processor in Baseline B or else are due to known issues with the data processors. The investigation of the known issues are on-going and are due to be resolved with the next update of the Level 2 processors. All common known issues are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Freeboard Error: This Quality Flag is correctly set in all products as this parameter is currently not provided in the L2 products and the Freeboard value is presently set to the default value of -9999

SARin x-track angle error: Currently there is an on-going investigation into the high number of errors from the 'SARIn x-track Error' Quality Flag over Antarctica.

Height error and Backscatter error: It has been noted that the number of errors arising from the 'Backscatter Error' and 'Height Error' Quality Flag is much higher than expected over land areas and this is currently part of an on-going investigation by expert teams.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_SAR_2A_20130120T132739_20130120T133154_B001	Peakiness error	There is an error in the peakiness derivation

6. QCC Check

The QCC is a CryoSat facility that 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.

Nb. There is currently a discrepancy between the number of QCC reports and the number of products reported. This is a known issue and investigation is on-going.

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_GDR_2A	16	14	0	14	0
SIR_LRM_1B	154	153	120	33	0
SIR_LRM_2	153	152	1	151	0
SIR_SAR_1B	158	158	0	158	0
SIR_SAR_2A	110	110	6	104	0
SIR_SIN_1B	103	102	0	102	0
SIR_SIN_2	101	101	0	101	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name

CS_OFFL_SIR_GDR_2A_20130119T231730_20130120T005644_B001 CS_OFFL_SIR_LRM_1B_20130119T235553_20130120T000820_B001

4

CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001 CS_OFFL_SIR_LRM_2_20130119T235553_20130120T000820_B001