



		3. Instrument Configurati			
e SIRAL instrument configuration	for the day of acquisition is provided b	elow.			
RAL instrument(s) in use:	SIRAL - A				
Star Tracker(s) in use:	Star Tracker 1 & 2				
	4.	Level 1B Data Quality Cl	neck		
.1 L1 Product Format C	heck				
ach product, retrieved and unpacke	ed from the science server, is checked	to ensure it consists of both an XML head	er file (.HDR) and a product file (.DBL).		
lumber of products with errors:	0				
I.2 L1B Product Header	Analysis				
or all products, a series of pre-defin	ned checks are carried out on the MPH	I and SPH in order to identify any inconsist	encies and/or errors raised by the ground-segment processing chain.		
lumber of products with errors:	0				
4.3 L1B Auxilary Data Fil	le Usage Check				
		nined baseline and also to check the validity	y of Auxiliary Data Files is correct.		
Number of products with errors:	0				
4.4 L1B Flagged Auxiliar	y Correction Error Check				
Each product is checked to spot auxi	iliary corrections flagged by the ground	d-station processing chain as missing or co	ntaining errors		
Number of products with errors:	4				
Product CS OFFL SIR LRM 1B 20130218	T235441 20130219T000014 B001	Test Failed Dynamic atmosphere corr	ection error		
CS_OFFL_SIR_LRM_1B_20130219	T055752_20130219T060821_B001	Dynamic atmosphere corr	Dynamic atmosphere correction error		
_OFFL_SIR_LRM_1B_20130219T113526_20130219T121025_B001 Dynamic atmosphere correction error					
S_OFFL_SIR_SIN_1B_20130219T	n175901_20130219T180422_B001	Dynamic atmosphere corr			
CS_OFFL_SIR_SIN_1B_20130219T 4.5 L1B Measurement Co CryoSat L1B data includes a measur Number of products with errors: Product	r175901_20130219T180422_B001 confidence Data Check rement confidence flag word (field 14) 3	Dynamic atmosphere corr for each measurement record. The bit valu Test Failed	ection error e of this flag indicates any problems when set. Description		
CS_OFFL_SIR_SIN_1B_20130219T 4.5 L1B Measurement Co CryoSat L1B data includes a measur Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20130219 CS_OFFL_SIR_SAR_1B_20130219	F175901_20130219T180422_B001  onfidence Data Check  rement confidence flag word (field 14) 3  IT195327_20130219T201554_B001 IT195323_20130219T195326_B001	Dynamic atmosphere corr for each measurement record. The bit valu	ection error e of this flag indicates any problems when set.		
S_OFFL_SIR_SIN_1B_20130219T I.5 L1B Measurement Co CryoSat L1B data includes a measur lumber of products with errors: Product S_OFFL_SIR_LRM_1B_20130219 S_OFFL_SIR_SAR_1B_20130219	F175901_20130219T180422_B001  Difficence Data Check  rement confidence flag word (field 14) 3  DT195327_20130219T201554_B001  T195323_20130219T195326_B001 F195114_20130219T195323_B001	Dynamic atmosphere corr for each measurement record. The bit valu Test Failed Attitude correction missing Attitude correction missing	e of this flag indicates any problems when set.		
S_OFFL_SIR_SIN_1B_20130219T I.5 L1B Measurement Co CryoSat L1B data includes a measur lumber of products with errors: Product S_OFFL_SIR_LRM_1B_20130219 S_OFFL_SIR_SAR_1B_20130219	F175901_20130219T180422_B001  Difficence Data Check  rement confidence flag word (field 14) 3  DT195327_20130219T201554_B001  T195323_20130219T195326_B001 F195114_20130219T195323_B001	Dynamic atmosphere corr for each measurement record. The bit valu Test Failed Attitude correction missing Attitude correction missing	e of this flag indicates any problems when set.		
CS_OFFL_SIR_SIN_1B_20130219T 4.5 L1B Measurement CC CryoSat L1B data includes a measur Aumber of products with errors: Product CS_OFFL_SIR_LRM_1B_20130219 CS_OFFL_SIR_SAR_1B_20130219T CS_OFFL_SIR_SIN_1B_20130219T	F175901_20130219T180422_B001 onfidence Data Check rement confidence flag word (field 14) 3 0T195327_20130219T201554_B001 IT195323_20130219T195326_B001 F195114_20130219T195323_B001 5.	Dynamic atmosphere corr for each measurement record. The bit valu Test Failed Attitude correction missing Attitude correction missing	e of this flag indicates any problems when set.		
S_OFFL_SIR_SIN_1B_20130219T .5 L1B Measurement Co CryoSat L1B data includes a measur lumber of products with errors: Product S_OFFL_SIR_LRM_1B_20130219 S_OFFL_SIR_SIN_1B_20130219T .5.1 L2 Product Format C Each product, retrieved and unpacked	F175901_20130219T180422_B001  onfidence Data Check  rement confidence flag word (field 14) 3  T195327_20130219T201554_B001 T195323_20130219T195326_B001 F195114_20130219T195323_B001 5.  heck ed from the science server, is checked	Dynamic atmosphere corr for each measurement record. The bit valu Test Failed Attitude correction missing Attitude correction mis	e of this flag indicates any problems when set.		
S_OFFL_SIR_SIN_1B_20130219T <b>4.5 L1B Measurement Co</b> CryoSat L1B data includes a measure <b>humber of products with errors:</b> <b>Product</b> S_OFFL_SIR_LRM_1B_20130219 S_OFFL_SIR_SIN_1B_20130219T <b>5.1 L2 Product Format C</b> Each product, retrieved and unpacked <b>humber of products with errors:</b>	F175901_20130219T180422_B001  onfidence Data Check  rement confidence flag word (field 14) 3  T195327_20130219T201554_B001 T195323_20130219T195328_B001 F195114_20130219T195323_B001 5.  heck ad from the science server, is checked 0	Dynamic atmosphere corr for each measurement record. The bit valu Test Failed Attitude correction missing Attitude correction mis	e of this flag indicates any problems when set.		
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SS_OFFL_SIR_SIN_1B_20130219T  A.5 L1B Measurement CC  CryoSat L1B data includes a measur  Mumber of products with errors:  Product  SS_OFFL_SIR_LRM_1B_20130219  SS_OFFL_SIR_SAR_1B_20130219  SS_OFFL_SIR_SIN_1B_20130219  5.1 L2 Product Format C  Each product, retrieved and unpacked  Number of products with errors:  5.2 L2 Product Header A	F175901_20130219T180422_B001         onfidence Data Check         rement confidence flag word (field 14)         3         0T195327_20130219T201554_B001         IT195323_20130219T195326_B001         F195114_20130219T195323_B001         5.         heck         ed from the science server, is checked         0         nalysis	Dynamic atmosphere corr for each measurement record. The bit valu Test Failed Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing to ensure it consists of both an XML headed	e of this flag indicates any problems when set.		
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SS_OFFL_SIR_SIN_1B_20130219T  4.5 L1B Measurement CC  CryoSat L1B data includes a measur  Aumber of products with errors:  Product  SS_OFFL_SIR_LRM_1B_20130219  SS_OFFL_SIR_SAR_1B_20130219  5.1 L2 Product Format C  Each product, retrieved and unpacked  Aumber of products with errors:  5.2 L2 Product Header A  For all products, a series of pre-defin  Aumber of products with errors:	F175901_20130219T180422_B001  onfidence Data Check  rement confidence flag word (field 14) 3  OT195327_20130219T201554_B001 IT195323_20130219T195326_B001 IT195114_20130219T195323_B001  f. heck ed from the science server, is checked 0  nalysis  hed checks are carried out on the MPH 0	Dynamic atmosphere corr for each measurement record. The bit valu Test Failed Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing to ensure it consists of both an XML headed	ection error e of this flag indicates any problems when set.		
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SS_OFFL_SIR_SIN_1B_20130219T 4.5 L1B Measurement CC CryoSat L1B data includes a measure Number of products with errors: Product SS_OFFL_SIR_LRM_1B_20130219 SS_OFFL_SIR_SAR_1B_20130219T 5.1 L2 Product Format C Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-define Number of products with errors: 5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors: 5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors: Product SS_OFFL_SIR_GDR_2A_20130219	F175901_20130219T180422_B001         onfidence Data Check         rement confidence flag word (field 14)         3         0T195327_20130219T201554_B001         IT195323_20130219T195326_B001         IT195114_20130219T195323_B001 <b>5</b> .         heck         ed from the science server, is checked         0         nalysis         hed checks are carried out on the MPH         0         ed Usage Check         Data Set Descriptors wrt a pre-determ         1         9T232911_20130220T010824_B001	Image: Dynamic atmosphere corr         for each measurement record. The bit value         Image: Dynamic atmosphere corr         Attribute correction missing         to ensure it consists of both an XML heade         and SPH in order to identify any inconsist         mined baseline and also to check the validity         AUX File         CS_OPER_AUX_ORBDOR_2013	ection error e of this flag indicates any problems when set.           Description         g       The attitude has not been corrected         eck       Image: set of the set of		
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SS_OFFL_SIR_SIN_1B_20130219T I.5 L1B Measurement CC CryoSat L1B data includes a measure lumber of products with errors: Product SS_OFFL_SIR_LRM_1B_20130219 SS_OFFL_SIR_SAR_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_SIN_1B_20130219 SS_OFFL_SIR_GDR_2A_20130219 SS_OFFL_SIR_GDR_2A_20130219 SS_OFFL_SIR_GDR_2A_20130219 SS_OFFL_SIR_GDR_2A_20130219 SS_OFFL_SIR_SIN_GDR_2A_20130219 SS_OFFL_SIR_SIN_SIN_1SS_0 SS_OFFL_SIR_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS_OFFL_SIN_1SS_0 SS	F175901_20130219T180422_B001  onfidence Data Check  rement confidence flag word (field 14) 3  T195327_20130219T201554_B001 T195323_20130219T195326_B001 F195114_20130219T195323_B001  5 heck ad from the science server, is checked 0 nalysis hed checks are carried out on the MPH 0  Data Set Descriptors wrt a pre-determ 1  DT232911_20130220T010824_B001  Correction Error Check iliary corrections flagged by the ground 4	Image: Dynamic atmosphere corr         for each measurement record. The bit value         Image: Dynamic atmosphere corr         Image: Dynamic atmosphere corr <tr< td=""><td>ection error e of this flag indicates any problems when set.              <ul> <li>Description</li> <li>The attitude has not been corrected</li> <li>The attitude has not been corrected</li> <li>The attitude has not been corrected</li> </ul>          eck          <ul> <li>The attitude has not been corrected</li> <li>The attitude has not been corrected</li> <li>The attitude has not been corrected</li> </ul>          er file (.HDR) and a binary product file (.DBL)         encies and/or errors raised by the ground-segment processing chain         y of Auxiliary Data Files is correct         20218T215525_20130220T       Coverage missing for intervals [2013-02-20T01:08:24]         ntaining errors</td></tr<>	ection error e of this flag indicates any problems when set. <ul> <li>Description</li> <li>The attitude has not been corrected</li> <li>The attitude has not been corrected</li> <li>The attitude has not been corrected</li> </ul> eck <ul> <li>The attitude has not been corrected</li> <li>The attitude has not been corrected</li> <li>The attitude has not been corrected</li> </ul> er file (.HDR) and a binary product file (.DBL)         encies and/or errors raised by the ground-segment processing chain         y of Auxiliary Data Files is correct         20218T215525_20130220T       Coverage missing for intervals [2013-02-20T01:08:24]         ntaining errors		
CS_OFFL_SIR_SIN_1B_20130219T 4.5 L1B Measurement CC CryoSat L1B data includes a measur Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20130219 CS_OFFL_SIR_SAR_1B_20130219T 5.1 L2 Product Format C Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-define Number of products with errors: 5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors: 5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors: Product CS_OFFL_SIR_GDR_2A_20130219	F175901_20130219T180422_B001  onfidence Data Check  rement confidence flag word (field 14) 3  T195327_20130219T201554_B001 T195323_20130219T195326_B001 F195114_20130219T195323_B001  f195114_20130219T195323_B001  f heck ad from the science server, is checked 0  nalysis hed checks are carried out on the MPH 0  busage Check Data Set Descriptors wrt a pre-determ 1  DT232911_20130220T010824_B001  Correction Error Check iliary corrections flagged by the ground 4  T235441_20130219T000014_B001 T055752_20130219T000014_B001	Image: Dynamic atmosphere corr         for each measurement record. The bit value         Image: Dynamic atmosphere corr         Attitude correction missing         Ito ensure it consists of both an XML header         and SPH in order to identify any inconsists         nined baseline and also to check the validity         AUX File         CS_OPER_AUX_ORBDOR_2013         002325_0001         d-station processing chain as missing or correct	ection error e of this flag indicates any problems when set.           •       Description         •       The attitude has not been corrected         •       •         •		

## 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.

0

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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:

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	17	16	0	16	0
SIR_LRM_1B	157	156	156	0	0
SIR_LRM_2	156	155	2	153	0
SIR_SAR_1B	156	159	0	159	0
SIR_SAR_2A	109	109	5	104	0
SIR_SIN_1B	115	115	0	115	0
SIR_SIN_2	111	111	0	111	0

6.1 QCC Errors			
Number of products with QCC errors:	0		

## 6.2 Missing QCC Reports

Number of products with missing QCC reports:

## Product name

CS\_OFFL\_SIR\_GDR\_2A\_20130218T224048\_20130219T002001\_B001 CS\_OFFL\_SIR\_LRM\_1B\_20130218T235441\_20130219T000014\_B001 CS\_OFFL\_SIR\_LRM\_2\_20130218T235441\_20130219T000014\_B001