

IDEAS Daily Report for OFFLINE data: 10/08/2012

IDEAS STA

1. Overview

Port Production Date: 21-May-201 Data Used: OFFLINE L1B and L2 Data Aug-2012 Data has been processed with default None Aug-2012 Nothing planned Global Coverage (north particular of the pa	2 Science	Global Coverage	esa.int	Nominal Nominal Nominal Nominal See Section 4.4 and 5.4 See Section 4.5 and 5.5
Data Used: OFFLINE L1B and L2 Data Aug-2012 -Aug-2012 -Aug-2012 None -Aug-2012 Nothing planned Global Coverage (north particular of the second	2 Science	Product Software Check Product Format Check Product Header Analysis Auxiliary Data File Usage Auxiliary Correction Check Measurement Data Set Check measurement Data Set Check Be Concentration files.	<	Nominal Nominal Nominal See Section 4.4 and 5.4 See Section 4.5 and 5.5
Data Used: OFFLINE L1B and L2 Data Aug-2012 Aug-2012 Aug-2012 None Global Coverage (north participation) Global Coverage (north participation) Glo	2 Science	Product Format Check Product Header Analysis Auxiliary Data File Usage Auxiliary Correction Check Measurement Data Set Check re Concentration files.		Nominal Nominal Nominal See Section 4.4 and 5.4 See Section 4.5 and 5.5
Data Used: OFFLINE L1B and L2 Data Aug-2012 Aug-2012 Aug-2012 None Aug-2012 Nothing planned Global Coverage (north particular Global Coverage (north particular)	2 Science	Product Header Analysis Auxiliary Data File Usage Auxiliary Correction Check Measurement Data Set Check re Concentration files.		Nominal Nominal See Section 4.4 and 5.4 See Section 4.5 and 5.5
Data Used: Data	rather than dynamic Sea Ico	Auxiliary Data File Usage Auxiliary Correction Check Measurement Data Set Check re Concentration files. Global Coverage		Nominal See Section 4.4 and 5.4 See Section 4.5 and 5.5
Data Used: Data	rather than dynamic Sea Ico	Auxiliary Correction Check Measurement Data Set Check re Concentration files. Global Coverage		See Section 4.4 and 5.4 See Section 4.5 and 5.5
Aug-2012 Aug-2012 Aug-2012 Aug-2012 Aug-2012 Global Coverage (north po Global Coverage (north po Coverage (n	2.	Measurement Data Set Check re Concentration files. Global Coverage		
Aug-2012 Aug-2012 Aug-2012 Aug-2012 Aug-2012 Global Coverage (north particular Global Coverage (north particular Global Coverage (north particular Global Coverage (north particular Global Coverage (north particular) Global Cov	2.	Global Coverage	erage (south pole v	iew)
Aug-2012 Nothing planned			erage (south pole v	iew)
Global Coverage (north po			erage (south pole v	iew)
And a state of the			erage (south pole v	iew)
And a state of the	and the view)	Global Cove	erage (south pole v	iew)
A Contraction of the contraction				
			$I = \mathbb{N}$	
	Global Coverage		Ň	Mode Coverage(%) LRM 665.96 SAR 20.06 SIN 13.82
Mode Coverage			Jak Zatar	
0%		100%	Surface Type	
		90%		
1%		80%		
		70%		
%		60%		
		50%		
)%		40%		
		30%		
)%		20%		
		10%		
)%		0%		
	nental ice Land		CAD	CADin
LRM SAR	SARin	LRM Land	Continental ice	SARin losed sea ■ Open ocean

	3. Instrument Configuration						
The SIRAL instrument configuration fo	or the day of acquisition is provided below						
SIRAL instrument(s) in use:	SIRAL - A						
Star Tracker(s) in use:	Star Tracker 2						
	4. Lev	vel 1B Data Quality Che	ck				
4.1 L1 Product Format Ch	eck						
	from the science server, is checked to en	nsure it consists of both an XML header	ile (.HDR) and a product file (.DBL).				
Number of products with errors:	0						
4.2 L1B Product Header A	nalysis						
For all products, a series of pre-define	d checks are carried out on the MPH and	SPH in order to identify any inconsisten	cies and/or errors raised by the ground-segment processing chain.				
Number of products with errors:	0						
4.3 L1B Auxilary Data File	Usage Check						
	Data Set Descriptors wrt a pre-determined	baseline and also to check the validity of	f Auxiliary Data Files is correct.				
Number of products with errors:	0						
4.4 L1B Flagged Auxiliary	Correction Error Check						
	ary corrections flagged by the ground-sta	tion processing chain as missing or cont	aining errors				
Number of products with errors:	4						
Product		Test Failed					
S_OFFL_SIR_SAR_1B_20120810T			Dynamic atmosphere correction error				
CS_OFFL_SIR_SAR_1B_20120810T [.] CS_OFFL_SIR_SAR_1B_20120810T [.]			Dynamic atmosphere correction error Dynamic atmosphere correction error				
CS_OFFL_SIR_SIN_1B_20120810T1	75740_20120810T175957_B001	Dynamic atmosphere correct					
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor	175740_20120810T175957_B001	Dynamic atmosphere correct	ion error				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure	175740_20120810T175957_B001 Infidence Data Check Infidence flag word (field 14) for e	Dynamic atmosphere correct					
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors:	175740_20120810T175957_B001	Dynamic atmosphere correct	ion error of this flag indicates any problems when set.				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product	175740_20120810T175957_B001 nfidence Data Check ement confidence flag word (field 14) for e 2	Dynamic atmosphere correct	ion error				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T0	175740_20120810T175957_B001 Infidence Data Check ement confidence flag word (field 14) for e 2 065639_20120810T070215_B001	Dynamic atmosphere correct ach measurement record. The bit value Test Failed	on error of this flag indicates any problems when set. Description				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T0	175740_20120810T175957_B001 Infidence Data Check ement confidence flag word (field 14) for e 2 0656639_20120810T070215_B001 203445_20120810T203601_B001	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error	on error of this flag indicates any problems when set. Description The tracking echo has returned an error The tracking echo has returned an error				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T	175740_20120810T175957_B001 Infidence Data Check ement confidence flag word (field 14) for e 2 0656639_20120810T070215_B001 203445_20120810T203601_B001 5. Le	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error	on error of this flag indicates any problems when set. Description The tracking echo has returned an error The tracking echo has returned an error				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T 5.1 L2 Product Format Che	175740_20120810T175957_B001 Infidence Data Check ement confidence flag word (field 14) for e 2 10656639_20120810T070215_B001 203445_20120810T203601_B001 5. Le eck	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec	on error of this flag indicates any problems when set. Description The tracking echo has returned an error The tracking echo has returned an error				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T: CS_OFFL_SIR_LRM_1B_20120810T: 5.1 L2 Product Format Che Each product, retrieved and unpacked	175740_20120810T175957_B001 Infidence Data Check ement confidence flag word (field 14) for e 2 10656639_20120810T070215_B001 203445_20120810T203601_B001 5. Le eck	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec	of this flag indicates any problems when set.				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T1 CS_OFFL_SIR_LRM_1B_20120810T3 5.1 L2 Product Format Chr Each product, retrieved and unpacked Number of products with errors:	175740_20120810T175957_B001 Infidence Data Check ement confidence flag word (field 14) for e 2 10656639_20120810T070215_B001 203445_20120810T203601_B001 5. Lee eck If rom the science server, is checked to en 0	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec	of this flag indicates any problems when set.				
A.5 L1B Measurement Cor A.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T S.0 L2 Product Format Cha Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header And	175740_20120810T175957_B001 Infidence Data Check ement confidence flag word (field 14) for e 2 0656639_20120810T070215_B001 203445_20120810T203601_B001 5. Le eck If from the science server, is checked to en 0 alysis	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec	ion error of this flag indicates any problems when set.				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T 5.1 L2 Product Format Chr Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header And For all products, a series of pre-define	175740_20120810T175957_B001 Infidence Data Check ement confidence flag word (field 14) for e 2 0656639_20120810T070215_B001 203445_20120810T203601_B001 5. Le eck If from the science server, is checked to en 0 alysis	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec	of this flag indicates any problems when set.				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_2007 CS_OFFL_SIR_LRM_1B_2007 CS_OFFL_SIR_LRM_1B_2007 CS_OFFL_SIR_LRM_1B_2007 CS_OFFL_SIR_LRM_1B_2007 CS_OFFL_SIR_LRM_	175740_20120810T175957_B001 Infidence Data Check Infidence flag word (field 14) for e 2 0656639_20120810T070215_B001 203445_20120810T203601_B001 5. Le eck If from the science server, is checked to en 0 alysis ed checks are carried out on the MPH and 0	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec	ion error of this flag indicates any problems when set.				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T 5.1 L2 Product Format Chr Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header An For all products, a series of pre-define Number of products with errors: 5.3 L2 Auxiliary Data File I	175740_20120810T175957_B001 Infidence Data Check Infidence flag word (field 14) for e 2 0656639_20120810T070215_B001 203445_20120810T203601_B001 5. Le eck If from the science server, is checked to en 0 alysis ed checks are carried out on the MPH and 0	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Cheo nsure it consists of both an XML header	ion error of this flag indicates any problems when set. Description The tracking echo has returned an error The tracking echo has returned an error				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T 5.1 L2 Product Format Chr Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header And For all products, a series of pre-define Number of products with errors: 5.3 L2 Auxiliary Data File I Each product is checked for missing D	175740_20120810T175957_B001 Infidence Data Check Infidence Data Check Infidence flag word (field 14) for e 2 10656399_20120810T070215_B001 203445_20120810T203601_B001 5. Le eck If from the science server, is checked to en 0 alysis If checks are carried out on the MPH and 0 Usage Check	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Cheo nsure it consists of both an XML header	ion error of this flag indicates any problems when set. Description The tracking echo has returned an error The tracking echo has returned an error				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T 5.1 L2 Product Format Chr Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header An For all products, a series of pre-define Number of products with errors: 5.3 L2 Auxiliary Data File I Each product is checked for missing D Number of products with errors:	175740_20120810T175957_B001 Infidence Data Check Infidence Data Check Infidence flag word (field 14) for e 2 1065639_20120810T070215_B001 203445_20120810T203601_B001 5. Lee eck If from the science server, is checked to en 0 alysis If checks are carried out on the MPH and 0 Usage Check Data Set Descriptors wrt a pre-determined 0	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Cheo nsure it consists of both an XML header	ion error of this flag indicates any problems when set. Description The tracking echo has returned an error The tracking echo has returned an error				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T 5.1 L2 Product Format Chr Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header An For all products, a series of pre-define Number of products with errors: 5.3 L2 Auxiliary Data File I Each product is checked for missing D Number of products with errors: 5.4 L2 Flagged Auxiliary C	175740_20120810T175957_B001 Infidence Data Check Infidence Data Check Infidence flag word (field 14) for e 2 1065639_20120810T070215_B001 203445_20120810T203601_B001 5. Lee eck If from the science server, is checked to en 0 alysis If checks are carried out on the MPH and 0 Usage Check Data Set Descriptors wrt a pre-determined 0	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec nsure it consists of both an XML header	ion error of this flag indicates any problems when set.				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T: CS_OFFL_SIR_LRM_1B_20120810T: 5.1 L2 Product Format Chr Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header And For all products, a series of pre-define Number of products with errors: 5.3 L2 Auxiliary Data File I Each product is checked for missing D Number of products with errors: 5.4 L2 Flagged Auxiliary C Each product is checked to spot auxiliary Each product i	175740_20120810T175957_B001 Infidence Data Check Infidence Data Check Infidence flag word (field 14) for e 2 10656399_20120810T070215_B001 203445_20120810T203601_B001 5. Lee eck If from the science server, is checked to er 0 alysis ed checks are carried out on the MPH and 0 Usage Check Data Set Descriptors wrt a pre-determined 0 Correction Error Check	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec nsure it consists of both an XML header	ion error of this flag indicates any problems when set.				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T 5.1 L2 Product Format Chr Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header And For all products, a series of pre-define Number of products with errors: 5.3 L2 Auxiliary Data File I Each product is checked for missing D Number of products with errors: 5.4 L2 Flagged Auxiliary C Each product is checked to spot auxilia Number of products with errors:	ITST40_20120810T175957_B001 Infidence Data Check Infidence Data Check Infidence flag word (field 14) for e 2 0065639_20120810T070215_B001 203445_20120810T203601_B001 5. Le eck If from the science server, is checked to er 0 alysis ed checks are carried out on the MPH and 0 Usage Check Data Set Descriptors wrt a pre-determined 0 Correction Error Check ary corrections flagged by the ground-sta	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec nsure it consists of both an XML header	ion error of this flag indicates any problems when set.				
CS_OFFL_SIR_SIN_1B_20120810T1 4.5 L1B Measurement Cor CryoSat L1B data includes a measure Number of products with errors: Product CS_OFFL_SIR_LRM_1B_20120810T CS_OFFL_SIR_LRM_1B_20120810T 5.1 L2 Product Format Chr Each product, retrieved and unpacked Number of products with errors: 5.2 L2 Product Header An: For all products, a series of pre-define Number of products with errors: 5.3 L2 Auxiliary Data File I Each product is checked for missing D Number of products with errors: 5.4 L2 Flagged Auxiliary C	175740_20120810T175957_B001 Infidence Data Check Infidence Data Check Infidence Data Check Information of the sector of the s	Dynamic atmosphere correct ach measurement record. The bit value Test Failed TRK echo error TRK echo error evel 2 Data Quality Chec nsure it consists of both an XML header SPH in order to identify any inconsisten baseline and also to check the validity of tion processing chain as missing or cont	ion error of this flag indicates any problems when set. Description The tracking echo has returned an error The tracking echo has returned an error Ck iile (.HDR) and a binary product file (.DBL) cies and/or errors raised by the ground-segment processing chain f Auxiliary Data Files is correct aining errors				

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.

2

0

3

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_20120810T034616_20120810T035305_B001	Peakiness error	There is an error in the peakiness derivation
CS_OFFL_SIR_SAR_2A_20120810T170931_20120810T171012_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	20	15	0	15	0
SIR_LRM_1B	118	126	115	11	0
SIR_LRM_2	127	126	0	126	0
SIR_SAR_1B	81	82	0	82	0
SIR_SAR_2A	79	79	3	76	0
SIR_SIN_1B	91	93	0	93	0
SIR_SIN_2	93	93	0	93	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_20120809T222859_20120810T000813_B001

CS_OFFL_SIR_LRM_1B_20120809T235106_20120810T001758_B001

CS_OFFL_SIR_LRM_2__20120809T235106_20120810T001758_B001