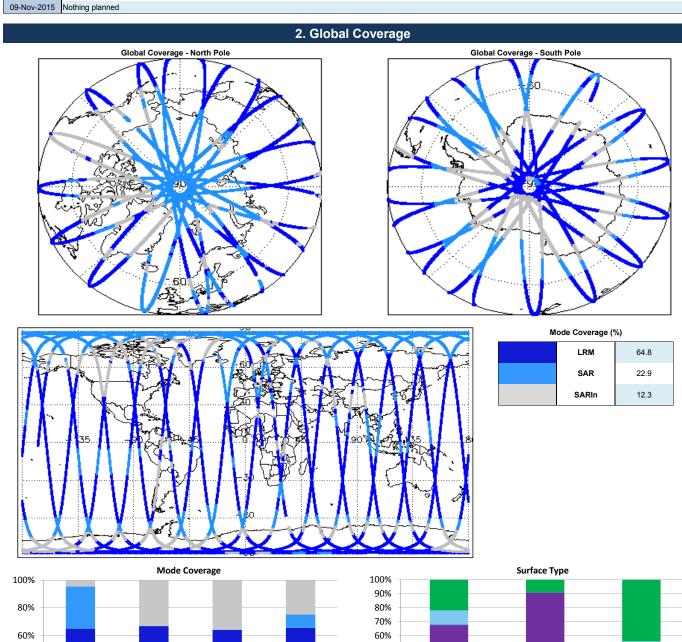


IDEAS+ Daily Report for OFFLINE data:

<u>08/11/2015</u>

1. Overview					
Report Production Date:	09-Dec-2015	Check	Status		
		Server check: science-pds.cryosat.esa.int	Nominal		
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal		
		Product Software Check	Nominal		
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal		
		Product Header Analysis	Nominal		
		Star Tracker Usage Check	Nominal		
		L1B Calibration Usage Check	Nominal		
		L1B & L2 Auxiliary Data File Usage Check	Nominal		
		L1B & L2 Auxiliary Correction Error Check	Nominal		
		L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5		
Mission / Instrument News					
07-Nov-2015 None					
08-Nov-2015 None					



50%

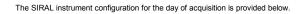
40% 30%

20% 10%

0%

3. Instrument Configuration

LRM SAR SARIN LAND CONTINENTAL_ICE CLOSED_SEA OPEN_OCEAN



CLOSED_SEA

SIRAL instrument(s) in use: SIRAI

LRM

OPEN_OCEAN

40%

20%

0%

SIRAL - A

CONTINENTAL_ICE

SAR

LAND

SARIN

4. 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 product file (.DBL)

Number of products with errors:

4.2 L1B 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-segment processing chain. Number of products with errors:

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing

Number of products with errors:

4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing

0

Number of products with errors:

4.5 L1B Auxilary 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:

4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.

Number of products with errors:

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 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-segment processing chain. Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This hag is currently set for a number of SAR product	is occurring at surface type boundaries, but	this is to be expected.			
Number of products with errors: 103					
Product	Test Failed	Description			
CS_OFFL_SIR_LRM_220151108T004520_20151108T010635_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height erro for Retracker 3 for one or more records			
CS_OFFL_SIR_LRM_220151108T012403_20151108T013351_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records			
CS_OFFL_SIR_LRM_220151108T013538_20151108T014813_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records			

CS_OFFL_SIR_LRM_2_20151108T021008_20151108T024529_C001 CS OFFL SIR LRM 2 20151108T030428 20151108T031659 C001 CS_OFFL_SIR_LRM_2__20151108T031708_20151108T033443_C001 CS_OFFL_SIR_LRM_2__20151108T035213_20151108T040751_C001 CS OFFL SIR LRM 2 20151108T040955 20151108T042504 C001 CS OFFL SIR LRM 2 20151108T044139 20151108T045205 C001 CS OFFL SIR LRM 2 20151108T045826 20151108T051436 C001 CS OFFL SIR LRM 2 20151108T054531 20151108T054545 C001 CS OFFL SIR LRM 2 20151108T054953 20151108T060335 C001 CS OFFL SIR LRM 2 20151108T061915 20151108T063415 C001 CS_OFFL_SIR_LRM_2__20151108T063526_20151108T065250_C001 CS_OFFL_SIR_LRM_2__20151108T072146_20151108T072421_C001 CS_OFFL_SIR_LRM_2__20151108T072432_20151108T074217_C001 CS_OFFL_SIR_LRM_2__20151108T075815_20151108T080910_C001 CS OFFL SIR LRM 2 20151108T081440 20151108T082408 C001 CS_OFFL_SIR_LRM_2__20151108T082411_20151108T082617_C001 CS_OFFL_SIR_LRM_2__20151108T085735_20151108T092138_C001 CS OFFL SIR LRM 2 20151108T093012 20151108T093340 C001 CS OFFL SIR LRM 2 20151108T095354 20151108T101132 C001 CS_OFFL_SIR_LRM_2__20151108T103339_20151108T103655_C001 CS_OFFL_SIR_LRM_2_20151108T103701_20151108T104359_C001 CS OFFL SIR LRM 2 20151108T110503 20151108T111037 C001 CS_OFFL_SIR_LRM_2__20151108T111801_20151108T115034_C001 CS OFFL SIR LRM 2 20151108T121359 20151108T121644 C001 CS_OFFL_SIR_LRM_2__20151108T121827_20151108T123844_C001 CS_OFFL_SIR_LRM_2__20151108T124424_20151108T124932_C001 CS OFFL SIR LRM 2 20151108T125631 20151108T133221 C001 CS OFFL SIR LRM 2 20151108T135412 20151108T141705 C001 CS_OFFL_SIR_LRM_2__20151108T142636_20151108T142836_C001 CS_OFFL_SIR_LRM_2__20151108T143608_20151108T145257_C001 CS_OFFL_SIR_LRM_2__20151108T145738_20151108T151033_C001 CS_OFFL_SIR_LRM_2__20151108T152435_20151108T154228_C001 CS_OFFL_SIR_LRM_2__20151108T154354_20151108T155750_C001 CS_OFFL_SIR_LRM_2__20151108T161449_20151108T163005_C001 CS_OFFL_SIR_LRM_2__20151108T163206_20151108T164128_C001 CS_OFFL_SIR_LRM_2__20151108T170412_20151108T172033_C001 CS_OFFL_SIR_LRM_2__20151108T174349_20151108T175149_C001 CS OFFL SIR LRM 2 20151108T175446 20151108T180912 C001 CS_OFFL_SIR_LRM_2__20151108T184410_20151108T184452_C001 CS_OFFL_SIR_LRM_2__20151108T184506_20151108T190219_C001 CS OFFL SIR LRM 2 20151108T190748 20151108T191846 C001 CS_OFFL_SIR_LRM_2__20151108T192224_20151108T192433_C001 CS OFFL SIR LRM 2 20151108T192500 20151108T193035 C001

Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Surface Model Unavailable

There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records No DEM or Slope Model was used for the location of one or more records

No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_2__20151108T193439_20151108T195427_C001 CS_OFFL_SIR_LRM_2_20151108T203044_20151108T204133_C001 CS_OFFL_SIR_LRM_2__20151108T204702_20151108T205707_C001 CS_OFFL_SIR_LRM_2__20151108T211351_20151108T214059_C001 CS_OFFL_SIR_LRM_2__20151108T214823_20151108T215043_C001 CS OFFL SIR LRM 2 20151108T220415 20151108T223532 C001 CS_OFFL_SIR_LRM_2__20151108T231629_20151108T231841_C001 CS OFFL SIR LRM 2 20151108T234259 20151109T001549 C001 CS OFFL SIR SIN 2 20151108T010849 20151108T011306 C001 CS OFFL SIR SIN 2 20151108T011843 20151108T012007 C001 CS_OFFL_SIR_SIN_2__20151108T024638_20151108T024805_C001 CS_OFFL_SIR_SIN_2__20151108T025626_20151108T025812_C001 CS OFFL SIR SIN 2 20151108T033443 20151108T033602 C001 CS_OFFL_SIR_SIN_2__20151108T034026_20151108T034119_C001 CS_OFFL_SIR_SIN_2__20151108T042542_20151108T042724_C001 CS OFFL SIR SIN 2 20151108T043256 20151108T043303 C001 CS_OFFL_SIR_SIN_2__20151108T043426_20151108T043647_C001 CS_OFFL_SIR_SIN_2__20151108T051821_20151108T052033_C001 CS OFFL SIR SIN 2 20151108T060436 20151108T060640 C001 CS_OFFL_SIR_SIN_2__20151108T061154_20151108T061200_C001 CS_OFFL_SIR_SIN_2__20151108T061209_20151108T061217_C001 CS OFFL SIR SIN 2 20151108T061324 20151108T061757 C001 CS OFFL SIR SIN 2 20151108T070413 20151108T070446 C001 CS_OFFL_SIR_SIN_2__20151108T074449_20151108T074722_C001 CS OFFL SIR SIN 2 20151108T075051 20151108T075059 C001 CS_OFFL_SIR_SIN_2__20151108T075442_20151108T075625_C001 CS OFFL SIR SIN 2 20151108T092335 20151108T092505 C001 CS_OFFL_SIR_SIN_2__20151108T093005_20151108T093012_C001 CS_OFFL_SIR_SIN_2__20151108T093340_20151108T093516_C001 CS OFFL SIR SIN 2 20151108T102226 20151108T102251 C001 CS_OFFL_SIR_SIN_2__20151108T110347_20151108T110503_C001 CS_OFFL_SIR_SIN_2__20151108T111037_20151108T111355_C001 CS OFFL SIR SIN 2 20151108T120152 20151108T120217 C001 CS_OFFL_SIR_SIN_2__20151108T124305_20151108T124424_C001 CS_OFFL_SIR_SIN_2__20151108T124932_20151108T125243_C001 CS OFFL SIR SIN 2 20151108T142358 20151108T142636 C001 CS_OFFL_SIR_SIN_2__20151108T142836_20151108T143407_C001 CS_OFFL_SIR_SIN_2__20151108T151929_20151108T152414_C001 CS OFFL SIR SIN 2 20151108T160745 20151108T160852 C001 CS_OFFL_SIR_SIN_2__20151108T161247_20151108T161426_C001 CS OFFL SIR SIN 2 20151108T165833 20151108T165942 C001 CS_OFFL_SIR_SIN_2__20151108T170051_20151108T170220_C001 CS_OFFL_SIR_SIN_2__20151108T172543_20151108T173634_C001 CS OFFL SIR SIN 2 20151108T174125 20151108T174349 C001 CS_OFFL_SIR_SIN_2__20151108T175149_20151108T175337_C001 CS_OFFL_SIR_SIN_2__20151108T183750_20151108T184343_C001 CS OFFL SIR SIN 2 20151108T192036 20151108T192224 C001 CS_OFFL_SIR_SIN_2__20151108T192433_20151108T192500_C001 CS_OFFL_SIR_SIN_2__20151108T193035_20151108T193258_C001 CS_OFFL_SIR_SIN_2_20151108T201122_20151108T201142_C001

Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailabl SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable

There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records

CS_OFFL_SIR_SIN_220151108T201239_20151108T201310_C001		An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220151108T210004_20151108T210145_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220151108T210252_20151108T210433_C001	ISARIN X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220151108T210911_20151108T210958_C001	ISARIN X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220151108T211028_20151108T211151_C001	ISARIN X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220151108T224010_20151108T224342_C001	SARIN X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220151108T224915_20151108T225030_C001	ISARIN X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records