

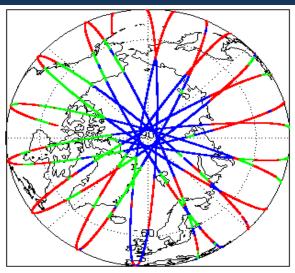
1. Overview

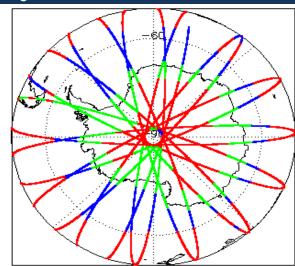
Report Production Date:	02-Dec-2019
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

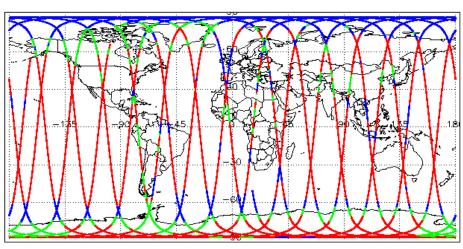
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5

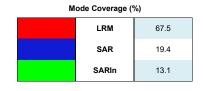
Mission / Instru	ument News
28-Oct-2019	None
29-Oct-2019	None
30-Oct-2019	Nothing planned

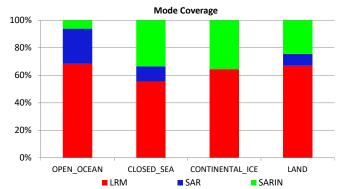
2. Global Coverage

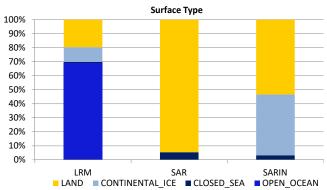












3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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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.

0

0

Number of products with errors:

4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

Number of products with errors: 8

Test Failed Description	
CS_OFFL_SIR_LRM_18_2019102971013907_2019102971021021020000000000000000000000	more records
CS_OFFSIR_LRM_18_2019102971013007_201910297102910291030_0001 CS_OFFSIR_LRM_18_2019102971031344_2019102971033417_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971033422_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971033422_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971033422_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971033422_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971043200_2019102971044551_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971042300_2019102971044550_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_201910297104230_2019102971045000_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_201910297104230_2019102971045000_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971045200_2019102971045000_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971045200_2019102971045000_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971045712_00102971045900_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971045712_00101 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971045713_201910297104590_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_2019102971045713_201910297104590_D001 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_201910297105712_D0011 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_201910297106278_201910297106279_D0011 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_201910297106278_201910297106279_D0011 Loss of echo The tracking echo is missing for one or CS_OFFSIR_LRM_18_201910297106278_201910297106279_D0011	more records
CS_OFFL_SIR_LRM_1B_201910297033341_201910297033412_D001 CS_OFFL_SIR_LRM_1B_2019102970333301_201910297033412_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297033320_201910297033320_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297033320_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297033340_201910297033350_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_2019102970432350_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029704230_201910297045050_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029704230_201910297045050_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297045246_20191029704500_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297045246_20191029704500_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_2019102970450502_201910297045050_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297045712_201910297045050_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297045714_D0010 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297045712_20191029704595_D0011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297050572_201910297104595_D0011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297050575_2019102971059742_D0011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297050575_20191029710597542_D0011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_2019102970506051_2019102971060585_D0011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297060252_2019102971060585_D0011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_201910297	more records
CS_OFFL_SIR_LRM_18_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_20191029703342_201910297043861_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029704283_001910297044851_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029704233_00191029704480_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029704233_00191029704580_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029704580_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029704580_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029704503_D019029704500_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297045713_201910297045053_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297054751_D01010297054053_D0101 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297054751_D010297054053_D01020102000000000000000000000000000000	more records
CS_OFFL_SIR_LRM_18_201910297033420_201910297033422_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297033405_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029704230_201910297042116_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029704230_201910297042910_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029704230_201910297046903_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297046230_201910297046907_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297045603_201910297045697_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297045712_D019029704571_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297045712_D019029704571_D0101 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297050527_D0190297054915_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297050527_D0190297054915_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060218_201910297060219_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060228_201910297060228_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060228_201910297060228_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060228_201910297060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060228_201910297060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060228_201910297060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060238_2001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060338_2001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_	more records
CS_OFFL_SIR_LRM_18_20191029703342_20191029704516_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297046080_201910297044053_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297045080_201910297044053_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297045080_201910297046080_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297045080_201910297045080_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297045080_201910297045710_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297045713_201910297045710_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297050257_201910297054583_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297050257_201910297054583_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297050257_2019102970545810_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_20191029705027_2019102970545810_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060218_20191029705049_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060228_201910297060259_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060228_201910297060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060255_20010 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060351_201910297060355_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297060355_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297063348_201910297063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_18_201910297063348_201910297076335_D001 Loss of echo The tracking echo is missing	more records
CS_OFFL_SIR_LRM_1B_20191029T038640_20191029T044951_D001 Loss of echo The tracking echo is missing for one or TS_OFFL_SIR_LRM_1B_20191029T042330_20191029T045600_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T045602_20191029T045600_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T045602_20191029T045607_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T045612_20191029T045603_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T054737_20191029T054915_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T054737_20191029T054915_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T054737_20191029T054915_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050215_20191029T05029_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050215_20191029T050242_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050225_20191029T050242_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050225_20191029T050242_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050255_20191029T050245_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050355_D011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050348_20191029T0503342_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050348_20191029T0503352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T05335_D01029T057302_D01029T057302_D01029T057302_D01029T057302_D01029T057302_D01029T057302_D01029T057302_D01029T057302_D01029T057302_D01029T057302_D01029T	more records
CS_OFFL_SIR_LRM_1B_20191029T040800_20191029T042116_D001 CS_OFFL_SIR_LRM_1B_20191029T045240_20191029T045500_D001 CS_OFFL_SIR_LRM_1B_20191029T045502_20191029T045500_D001 CS_OFFL_SIR_LRM_1B_20191029T045602_20191029T04570D001 CS_OFFL_SIR_LRM_1B_20191029T045602_20191029T04570D001 CS_OFFL_SIR_LRM_1B_20191029T045712_20191029T04570D001 CS_OFFL_SIR_LRM_1B_20191029T045712_20191029T045953_D001 CS_OFFL_SIR_LRM_1B_20191029T045773_20191029T045953_D001 CS_OFFL_SIR_LRM_1B_20191029T054737_20191029T054915_D001 CS_OFFL_SIR_LRM_1B_20191029T054737_20191029T054915_D001 CS_OFFL_SIR_LRM_1B_20191029T054737_20191029T054754_D001 CS_OFFL_SIR_LRM_1B_20191029T054737_20191029T056742_D001 CS_OFFL_SIR_LRM_1B_20191029T0567473_20191029T056742_D001 CS_OFFL_SIR_LRM_1B_20191029T0560218_20191029T060219_D001 CS_OFFL_SIR_LRM_1B_20191029T060218_20191029T060219_D001 CS_OFFL_SIR_LRM_1B_20191029T060225_20191029T060219_D001 CS_OFFL_SIR_LRM_1B_20191029T060225_20191029T060205_D001 CS_OFFL_SIR_LRM_1B_20191029T060250_20191029T060708_D001 CS_OFFL_SIR_LRM_1B_20191029T060250_20191029T060708_D001 CS_OFFL_SIR_LRM_1B_20191029T060250_20191029T060708_D001 CS_OFFL_SIR_LRM_1B_20191029T060250_20191029T060708_D001 CS_OFFL_SIR_LRM_1B_20191029T060305_20191029T060708_D001 CS_OFFL_SIR_LRM_1B_20191029T06335_20191029T0604014_D001 CS_OFFL_SIR_LRM_1B_20191029T06335_20191029T064014_D001 CS_OFFL_SIR_LRM_1B_20191029T06335_20191029T064014_D001 CS_OFFL_SIR_LRM_1B_20191029T075802_20191029T064519_D001 CS_OFFL_SIR_LRM_1B_20191029T075802_20191029T065055_D001 CS_OFFL_SIR_LRM_1B_20191029T075802_20191029T065055_D001 CS_OFFL_SIR_LRM_1B_20191029T075802_20191029T065055_D001 CS_OFFL_SIR_LRM_1B_20191029T063355_20191029T064014_D001 CS_OFFL_SIR_LRM_1B_20191029T063355_20191029T064014_D001 CS_OFFL_SIR_LRM_1B_20191029T065335_20191029T064014_D001 CS_OFFL_SIR_LRM_1B_20191029T075802_20191029T075804_D001 CS_OFFL_SIR_LRM_1B_20191029T075802_20191029T075804_D001 CS_OFFL_SIR_LRM_1B_20191029T075802_20191029T075804_D001 CS_OFFL_SIR_LRM_1B_20191029T075802_20191029T075805_D001	more records
CS_OFFL_SIR_LRM_1B_20191029T042330_20191029T044050_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T04500_20191029T04500_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T04500_20191029T04500_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T04501_20191029T045903_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T045071_20191029T045903_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050727_20191029T051321_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T050574_20191029T055742_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0505151_20191029T055742_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060218_20191029T060219_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060218_20191029T060219_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060225_20191029T060248_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060259_20191029T060748_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060259_20191029T060748_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060259_20191029T060748_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060359_20191029T060748_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063355_20191029T063350_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063350_20191029T060350_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0763412_20191029T0760419_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075322_20191029T075540_D001 Loss of echo The tracking ech	more records
CS_OFFL_SIR_LRM_IB_20191029T045246_20191029T045500_D001	more records
CS_OFFL_SIR_LRM_IB_20191029T045603_20191029T045607_D001	more records
CS_OFFL_SIR_LRM_1B_20191029T045612_20191029T045710_D001 CS_OFFL_SIR_LRM_1B_20191029T045713_20191029T045953_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T055172_0191029T051321_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T055172_0191029T054915_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T055151_20191029T05472_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060212_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060212_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060252_D0191029T060219_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060252_D0191029T060256_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060255_D0191029T060256_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T06029T060708_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0603057_20191029T060356_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063057_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063355_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063355_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0763352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T076335_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095535_	more records
CS_OFFL_SIR_LRM_18_20191029T045713_20191029T045953_D001 CS_OFFL_SIR_LRM_18_20191029T050257_20191029T054915_D001 CS_OFFL_SIR_LRM_18_20191029T050515_20191029T054915_D001 CS_OFFL_SIR_LRM_18_20191029T050515_20191029T054915_D001 CS_OFFL_SIR_LRM_18_20191029T060218_20191029T060219_D001 CS_OFFL_SIR_LRM_18_20191029T060218_20191029T060219_D001 CS_OFFL_SIR_LRM_18_20191029T060225_20191029T060219_D001 CS_OFFL_SIR_LRM_18_20191029T060225_20191029T060255_D001 CS_OFFL_SIR_LRM_18_20191029T060255_20191029T060255_D001 CS_OFFL_SIR_LRM_18_20191029T060255_20191029T060255_D001 CS_OFFL_SIR_LRM_18_20191029T060255_20191029T060255_D001 CS_OFFL_SIR_LRM_18_20191029T060255_20191029T060256_D001 CS_OFFL_SIR_LRM_18_20191029T060255_20191029T060340_D001 CS_OFFL_SIR_LRM_18_20191029T060055_20191029T060340_D001 CS_OFFL_SIR_LRM_18_20191029T060055_20191029T060340_D001 CS_OFFL_SIR_LRM_18_20191029T060055_20191029T060345_D001 CS_OFFL_SIR_LRM_18_20191029T060055_20191029T060345_D001 CS_OFFL_SIR_LRM_18_20191029T0603057_20191029T063345_D001 CS_OFFL_SIR_LRM_18_20191029T060335_20191029T063345_D001 CS_OFFL_SIR_LRM_18_20191029T060335_20191029T063345_D001 CS_OFFL_SIR_LRM_18_20191029T06335_20191029T06335_201001 CS_OFFL_SIR_LRM_18_20191029T06335_20191029T06335_201001 CS_OFFL_SIR_LRM_18_20191029T064412_20191029T064014_D001 CS_OFFL_SIR_LRM_18_20191029T07433_20191029T074606_D001 CS_OFFL_SIR_LRM_18_20191029T07233_20191029T075701_D001 CS_OFFL_SIR_LRM_18_20191029T07503_2020191029T075701_D001 CS_OFFL_SIR_LRM_18_20191029T0750502_20191029T075701_D001 CS_OFFL_SIR_LRM_18_20191029T0750502_20191029T0750544_D001 CS_OFFL_SIR_LRM_18_20191029T0765052_20191029T075844_D001 CS_OFFL_SIR_LRM_18_20191029T0765052_20191029T075844_D001 CS_OFFL_SIR_LRM_18_20191029T0765052_20191029T075844_D001 CS_OFFL_SIR_LRM_18_20191029T0765052_20191029T075851_D001 CS_OFFL_SIR_LRM_18_20191029T075505_20191029T075851_D001 CS_OFFL_SIR_LRM_18_20191029T0955052_0191029T095505_D001 CS_OFFL_SIR_LRM_18_20191029T0955052_0191029T095505_D001 CS_OFFL_SIR_LRM_18_20191029T0955052_0191029T	more records
CS_OFFL_SIR_LRM_1B_20191029T050257_20191029T054915_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T054915_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T055742_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060218_20191029T060214_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060225_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060225_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060225_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060259_20191029T060708_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060951_20191029T061539_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T064014_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0764014_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0775302_D0191029T07510_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_D0191029T07504_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_D019029T075844_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0750452_D019029T075844_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095353_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095132_D01905353_D001 Loss of	more records
CS_OFFL_SIR_LRM_1B_20191029T054737_20191029T054915_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060218_20191029T060219_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060218_20191029T060245_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060225_20191029T060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060225_20191029T060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060255_20191029T060708_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060355_20191029T060708_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063355_20191029T063355_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063355_20191029T064014_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063355_20191029T064014_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T064014_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T076312_20191029T071060_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075332_20191029T07500_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075332_20191029T075701_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075332_20191029T075701_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075342_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075342_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T08545_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T08545_20191029T09535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095452_2019102	more records
CS_OFFL_SIR_LRM_1B_20191029T055151_20191029T056742_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060218_20191029T060218_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060252_D191029T060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060251_20191029T060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060259_20191029T060708_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060951_20191029T061539_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060951_20191029T063345_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063348_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063348_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063355_20191029T064014_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0643519_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T076332_20191029T07606_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T072333_20191029T07500_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_20191029T075844_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075844_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075842_20191029T075844_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T085526_20191029T08555_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T085526_20191029T08555_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095784_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_2019102	more records
CS_OFFL_SIR_LRM_1B_20191029T060218_20191029T060249_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060255_20191029T060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060255_20191029T060708_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060255_20191029T060708_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060357_20191029T063535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063057_20191029T063345_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063057_20191029T063345_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063345_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063345_20191029T06319_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063345_20191029T064519_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T072333_20191029T07606_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_20191029T075100_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_20191029T075701_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075824_20191029T075844_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0955852_20191029T085851_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095157_20191029T095535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0955852_20191029T095535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0956821_20191029T095535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0956821_20191029T095750_D001 Loss	more records
CS_OFFL_SIR_LRM_1B_20191029T060225_20191029T060248_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060259_20191029T061539_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060951_20191029T063345_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063348_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T064312_D011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T064412_D011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0764412_D011 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T076406_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075332_20191029T075701_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075824_20191029T075701_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075824_20191029T084851_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T085526_20191029T085851_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095535_20191029T08535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095535_20191029T08535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095535_20191029T095535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095535_20191029T095535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095535_20191029T095535_D001 Loss of echo The tracking echo	more records
CS_OFFL_SIR_LRM_1B_20191029T060251_20191029T060255_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T060359_20191029T060345_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063345_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063345_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063348_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T064348_20191029T064014_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T064412_20191029T064014_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0764412_20191029T071606_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T072333_20191029T075100_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_20191029T075701_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_20191029T075701_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_20191029T075701_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075824_20191029T075701_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T08556_20191029T085851_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095745_20191029T0958555_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095745_20191029T095736_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095745_20191029T095750_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T09582_1019029T095750_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T102958_20191029T103757_D001 Loss of echo The tracking echo is missing for one or CS_OFFL	more records
CS_OFFL_SIR_LRM_1B_20191029T060259_20191029T060708_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063057_20191029T063345_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063348_20191029T063352_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T063355_20191029T064014_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T0643412_20191029T064519_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T071213_20191029T071606_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T072333_20191029T07100_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_20191029T07510_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075302_20191029T07501_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T075824_20191029T075844_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T081410_20191029T081851_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T09568_20191029T095535_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T095745_20191029T095815_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T09582_1_20191029T103510_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T102958_20191029T103757_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T10345_20191029T103757_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T113345_20191029T113441_D001 Loss of echo The tracking echo is missing for one or CS_OFFL_SIR_LRM_1B_20191029T113345_20191029T113441_D001 Loss of echo The tracking echo is missing for o	more records
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CS_OFFL_SIR_LRM_1B_20191029T114055_20191029T114147_D001 Loss of echo The tracking echo is missing for one or	more records
CS_OFFL_SIR_LRM_1B_20191029T114330_20191029T114342_D001 Loss of echo The tracking echo is missing for one or	more records
CS_OFFL_SIR_LRM_1B_20191029T114347_20191029T114513_D001 Loss of echo The tracking echo is missing for one or	more records
CS_OFFL_SIR_LRM_1B_20191029T114658_20191029T114928_D001 Loss of echo The tracking echo is missing for one or	more records
CS_OFFL_SIR_LRM_1B_20191029T115021_20191029T115400_D001 Loss of echo The tracking echo is missing for one or	more records

CS_OFFL_SIR_LRM_1B_20191029T124542_20191029T125726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T131634_20191029T131813_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T131845_20191029T132345_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T132550_20191029T133152_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T140108_20191029T143023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T143132_20191029T143440_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T143443_20191029T143540_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T143545_20191029T143722_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T153059_20191029T153253_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T153503_20191029T153755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T154417_20191029T160634_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T161046_20191029T161306_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T161309_20191029T161701_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T163003_20191029T164600_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T164843_20191029T165113_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T165217_20191029T165745_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T170935_20191029T171211_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T174232_20191029T175007_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T175010_20191029T175037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T175049_20191029T175653_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T180839_20191029T181052_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T181215_20191029T181805_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T182049_20191029T182341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T182344_20191029T184336_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T185949_20191029T192222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T192229_20191029T192307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T192547_20191029T192643_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T192810_20191029T193213_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T194708_20191029T194801_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T194923_20191029T202255_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T203908_20191029T210239_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T210242_20191029T211256_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T222500_20191029T223316_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T223319_20191029T223423_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T223459_20191029T223955_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T224101_20191029T224229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T224417_20191029T224518_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T224657_20191029T225011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T225256_20191029T225309_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20191029T230725_20191029T234027_D001	Loss of echo	The tracking echo is missing for one or more records
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4.5 L1B Calibration Usage Check

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

Number of products with errors: 0

4.6 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:

4.7 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:

4.8 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).

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.

0

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 flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220191028T235842_20191029T000832_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T001027_20191029T003145_D001	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_220191029T004921_20191029T010531_D001	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_220191029T013507_20191029T021028_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T022941_20191029T030125_D001	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_220191029T031344_20191029T032819_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T033301_20191029T033417_D001	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_220191029T033640_20191029T034951_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T040800_20191029T042116_D001	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_220191029T042330_20191029T044053_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T044108_20191029T044156_D001	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_220191029T050257_20191029T051321_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T051501_20191029T052833_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T055151_20191029T055742_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T060259_20191029T060708_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T060831_20191029T060912_D001	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_220191029T060951_20191029T061539_D001	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_220191029T061702_20191029T061907_D001	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_220191029T064712_20191029T070708_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T072333_20191029T075100_D001	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_220191029T082302_20191029T084630_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T090245_20191029T093501_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T095021_20191029T095048_D001	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_220191029T100513_20191029T101841_D001	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_220191029T104336_20191029T111505_D001	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_220191029T122202_20191029T124256_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T124542_20191029T125726_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2, a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191029T130632_20191029T131111_D001	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_220191029T132550_20191029T133152_D001	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_220191029T133340_20191029T134331_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface Model Unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191029T140108_20191029T143023_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T143132_20191029T143440_D001	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_220191029T145709_20191029T152123_D001	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_220191029T154022_20191029T154328_D001	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_220191029T154417_20191029T160634_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T163003_20191029T164600_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T165217_20191029T165745_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T172003_20191029T173343_D001	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_220191029T173523_20191029T173805_D001	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_220191029T175010_20191029T175037_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220191029T180839_20191029T181052_D001	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_220191029T181215_20191029T181805_D001	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_220191029T182049_20191029T182341_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T182344_20191029T184336_D001	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_220191029T185949_20191029T192222_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T194923_20191029T202255_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T203908_20191029T210239_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T211401_20191029T211629_D001	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_220191029T213056_20191029T220037_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T222500_20191029T223316_D001	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 error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220191029T224417_20191029T224518_D001	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_220191029T225346_20191029T225528_D001	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_220191029T230725_20191029T234027_D001	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 error for Retracker 3 for one or more records