

Title:

S-1A mis synchronisation with impact on azimuth bandwidth synchronisation for InSAR applications

Description:

Due to an instrument anomaly, a mis-synchronisation of 30ms was observed, corresponding to 15% of IW bandwidth and 30% to 35% of EW bandwidth.

This mis-synchronisation only has an impact for InSAR applications and thus for the datatakes having counterparts in previous/next cycles.

The list of impacted datatakes and products is provided in appendix of this quality disclaimer

Degradation types:

- | | |
|---|---|
| <input type="checkbox"/> DEGRADED_PRODUCT_RADIOMETRY | <input type="checkbox"/> DEGRADED_PRODUCT_GEOLOCATION |
| <input type="checkbox"/> DEGRADED_RADIOMETRIC_CALIBRATION | <input type="checkbox"/> DEGRADED_PLATFORM_POINTING |
| <input type="checkbox"/> DEGRADED_ORBIT_CONTROL | <input checked="" type="checkbox"/> DEGRADED_PERFORMANCE_INSTRUMENT_ANOMALY |
| <input type="checkbox"/> COMPLETE_PRODUCT_DEGRADATION | <input type="checkbox"/> SLICE_PRODUCT_NON_CONCATENABLE |
| <input checked="" type="checkbox"/> OTHER | |

Degradation percentage¹:

25%

Impacted products:

- | | | | | | |
|-----------------------------|--|--|---|---|-----------------------------|
| Platform: | <input checked="" type="checkbox"/> S-1A | <input type="checkbox"/> S-1B | | | |
| Acquisition mode: | <input checked="" type="checkbox"/> EW | <input checked="" type="checkbox"/> IW | <input type="checkbox"/> SM | <input type="checkbox"/> WV | <input type="checkbox"/> RF |
| Product type: | <input checked="" type="checkbox"/> RAW | <input checked="" type="checkbox"/> SLC | <input type="checkbox"/> GRD | <input type="checkbox"/> OCN | |
| Resolution class: | <input type="checkbox"/> MR | <input type="checkbox"/> HR | <input type="checkbox"/> FR | <input checked="" type="checkbox"/> N/A | |
| Polarization: | <input checked="" type="checkbox"/> SH (Single pol. H) | <input checked="" type="checkbox"/> SV (Single pol. V) | | | |
| | <input checked="" type="checkbox"/> DH (Double pol. H) | <input checked="" type="checkbox"/> DV (Double pol. V) | | | |
| Processing facility: | <input checked="" type="checkbox"/> PAC1 / UPA | <input checked="" type="checkbox"/> PAC2 / DPA | | | |
| | <input checked="" type="checkbox"/> CGS1 / Matera | <input checked="" type="checkbox"/> CGS2 / Svalbard | <input checked="" type="checkbox"/> CGS3 / Maspalomas | | |

IPF version: N/A

Instrument Configuration ID (RDB): N/A

ADF files:

AUX_INS	N/A
AUX_CAL	N/A
AUX_PP1	N/A
AUX_PP2	N/A
AUX_SCS	N/A

Beginning of the issue:

Start acquisition date: 2015/05/17 00:03:40
Start generation date: N/A
Orbit: 005953
Datatake (hex): 007ABF

End of the issue:

☐ not yet defined ☒ available
End acquisition date: 2015/05/18 23:14:45
End generation date: N/A
Orbit: 005982
Datatake (hex): 007B6C

¹ Percentage of degradation of the data in the product (100% means that the product should be masked in the product catalogue)

Cause:

Instrument anomaly inducing a mis synchronisation.

Status:

This anomaly was solved at instrument level for next acquisitions.

The quality of RAW and SLC products impacted will not be recovered.

References:

- **MPC ref:** MPCS-970
- **PDGS ref:** N/A
- **ARTS ref:** N/A

List of Impacted DataTakes and products

DataTake 0071D8

S1A_IW_RAW__OSDV_20150517T073253_20150517T073326_005958_007AD8_4FB6
 S1A_IW_RAW__OSDV_20150517T073318_20150517T073350_005958_007AD8_0BAA
 S1A_IW_SLC__1SDV_20150517T073253_20150517T073323_005958_007AD8_0284
 S1A_IW_SLC__1SDV_20150517T073321_20150517T073351_005958_007AD8_AE1A

DataTake 007ADA

S1A_EW_RAW__OSSH_20150517T082238_20150517T082310_005958_007ADA_90CC
 S1A_EW_RAW__OSSH_20150517T082138_20150517T082246_005958_007ADA_5AF5
 S1A_EW_RAW__OSSH_20150517T081938_20150517T082046_005958_007ADA_8627
 S1A_EW_RAW__OSSH_20150517T082038_20150517T082146_005958_007ADA_8005
 No SLC produced

DataTake 007AD8

S1A_EW_RAW__OSDH_20150517T104933_20150517T105032_005960_007AE2_808C
 S1A_EW_RAW__OSDH_20150517T104833_20150517T104941_005960_007AE2_0CE2
 S1A_EW_RAW__OSDH_20150517T104733_20150517T104841_005960_007AE2_2C32
 No SLC produced

DataTake 007AE4

No RAW produced

No SLC produced

DataTake 007AE9

S1A_EW_RAW__OSDH_20150517T135901_20150517T140009_005962_007AE9_8F73
 S1A_EW_RAW__OSDH_20150517T135701_20150517T135809_005962_007AE9_74D2
 S1A_EW_RAW__OSDH_20150517T135501_20150517T135609_005962_007AE9_EE16
 S1A_EW_RAW__OSDH_20150517T140001_20150517T140114_005962_007AE9_F966
 S1A_EW_RAW__OSDH_20150517T135801_20150517T135909_005962_007AE9_71F0
 S1A_EW_RAW__OSDH_20150517T135601_20150517T135709_005962_007AE9_CACD
 No SLC produced

DataTake 007AF4

S1A_EW_RAW__OSSH_20150517T181316_20150517T181424_005964_007AF4_E921
 S1A_EW_RAW__OSSH_20150517T181416_20150517T181503_005964_007AF4_F24D
 S1A_EW_RAW__OSSH_20150517T181216_20150517T181324_005964_007AF4_B4BF
 No SLC produced

DataTake 007AF7

S1A_EW_RAW__OSDH_20150517T185122_20150517T185230_005965_007AF7_F4B5
 S1A_EW_RAW__OSDH_20150517T185222_20150517T185338_005965_007AF7_FE93
 No SLC produced

DataTake 007AF8

S1A_EW_RAW__OSDH_20150517T185625_20150517T185728_005965_007AF8_C8C7

S1A_EW_RAW__OSDH_20150517T185525_20150517T185633_005965_007AF8_4001

No SLC produced

DataTake 007AFA

S1A_EW_RAW__OSSH_20150517T195304_20150517T195412_005965_007AFA_89C2

S1A_EW_RAW__OSSH_20150517T195404_20150517T195427_005965_007AFA_387C

S1A_EW_RAW__OSSH_20150517T195204_20150517T195312_005965_007AFA_4057

S1A_EW_RAW__OSSH_20150517T195104_20150517T195212_005965_007AFA_80A5

No SLC produced

DataTake 007B1A

S1A_EW_RAW__OSDV_20150518T020153_20150518T020301_005969_007B1A_3724

S1A_EW_RAW__OSDV_20150518T020253_20150518T020358_005969_007B1A_12B5

S1A_EW_RAW__OSDV_20150518T020053_20150518T020201_005969_007B1A_C12D

S1A_EW_RAW__OSDH_20150518T125945_20150518T130054_005976_007B45_ACB6

No SLC produced

DataTake 007B1A

S1A_IW_RAW__OSDV_20150518T032505_20150518T032537_005970_007B1E_4E98

S1A_IW_RAW__OSDV_20150518T032620_20150518T032652_005970_007B1E_D0D9

S1A_IW_RAW__OSDV_20150518T032825_20150518T032857_005970_007B1E_F85C

S1A_EW_RAW__OSDH_20150518T125945_20150518T130054_005976_007B45_ACB6

S1A_IW_RAW__OSDV_20150518T032415_20150518T032447_005970_007B1E_7068

S1A_IW_RAW__OSDV_20150518T032850_20150518T032922_005970_007B1E_36C5

S1A_IW_RAW__OSDV_20150518T032440_20150518T032512_005970_007B1E_66B4

S1A_IW_RAW__OSDV_20150518T032800_20150518T032832_005970_007B1E_897C

S1A_IW_RAW__OSDV_20150518T032915_20150518T032933_005970_007B1E_B229

S1A_IW_RAW__OSDV_20150518T032710_20150518T032742_005970_007B1E_E917

S1A_IW_RAW__OSDV_20150518T032530_20150518T032602_005970_007B1E_AE61

S1A_IW_RAW__OSDV_20150518T032645_20150518T032717_005970_007B1E_0060

S1A_IW_RAW__OSDV_20150518T032735_20150518T032807_005970_007B1E_1DF9

S1A_IW_SLC__1SDV_20150518T032507_20150518T032534_005970_007B1E_EA73

S1A_IW_SLC__1SDV_20150518T032852_20150518T032919_005970_007B1E_3AA2

S1A_IW_SLC__1SDV_20150518T032349_20150518T032419_005970_007B1E_57CA

S1A_IW_SLC__1SDV_20150518T032622_20150518T032649_005970_007B1E_1FE7

S1A_IW_SLC__1SDV_20150518T032532_20150518T032559_005970_007B1E_939D

S1A_IW_SLC__1SDV_20150518T032442_20150518T032510_005970_007B1E_4E50

S1A_IW_SLC__1SDV_20150518T032557_20150518T032624_005970_007B1E_115F

S1A_IW_SLC__1SDV_20150518T032713_20150518T032740_005970_007B1E_DC81

S1A_IW_SLC__1SDV_20150518T032647_20150518T032715_005970_007B1E_981A

S1A_IW_SLC__1SDV_20150518T032802_20150518T032829_005970_007B1E_1AAB

S1A_IW_SLC__1SDV_20150518T032827_20150518T032854_005970_007B1E_D316

S1A_IW_SLC__1SDV_20150518T032917_20150518T032934_005970_007B1E_03F1

S1A_IW_SLC__1SDV_20150518T032737_20150518T032804_005970_007B1E_A1AE

S1A_IW_SLC__1SDV_20150518T032417_20150518T032444_005970_007B1E_DB2E

DataTake 007B1F

S1A_IW_RAW__0SSV_20150518T033430_20150518T033503_005970_007B1F_A42B
 S1A_IW_RAW__0SSV_20150518T033250_20150518T033323_005970_007B1F_7A40
 S1A_EW_RAW__0SDH_20150518T125945_20150518T130054_005976_007B45_ACB6
 S1A_IW_RAW__0SSV_20150518T033455_20150518T033521_005970_007B1F_0C9D
 S1A_IW_RAW__0SSV_20150518T033340_20150518T033413_005970_007B1F_87E2
 S1A_IW_RAW__0SSV_20150518T033405_20150518T033438_005970_007B1F_D4F4
 S1A_IW_RAW__0SSV_20150518T033315_20150518T033348_005970_007B1F_19A4
 S1A_IW_SLC__1SSV_20150518T033433_20150518T033500_005970_007B1F_D674
 S1A_IW_SLC__1SSV_20150518T033342_20150518T033410_005970_007B1F_0CEA
 S1A_IW_SLC__1SSV_20150518T033250_20150518T033320_005970_007B1F_3CAC
 S1A_IW_SLC__1SSV_20150518T033458_20150518T033521_005970_007B1F_3466
 S1A_IW_SLC__1SSV_20150518T033318_20150518T033345_005970_007B1F_B74D
 S1A_IW_SLC__1SSV_20150518T033408_20150518T033435_005970_007B1F_1D74

DataTake 007B4B

S1A_EW_RAW__0SDH_20150518T144230_20150518T144338_005977_007B4B_FD90
 S1A_EW_RAW__0SDH_20150518T144130_20150518T144238_005977_007B4B_7284
 S1A_EW_RAW__0SDH_20150518T144330_20150518T144410_005977_007B4B_5082

No SLC produced

DataTake 007B19

S1A_IW_RAW__0SSV_20150518T014936_20150518T015009_005969_007B19_344F
 S1A_IW_RAW__0SSV_20150518T014756_20150518T014829_005969_007B19_AF01
 S1A_IW_RAW__0SSV_20150518T014706_20150518T014739_005969_007B19_801C
 S1A_EW_RAW__0SDH_20150518T125945_20150518T130054_005976_007B45_ACB6
 S1A_IW_RAW__0SSV_20150518T014846_20150518T014919_005969_007B19_8E8E
 S1A_IW_RAW__0SSV_20150518T014911_20150518T014944_005969_007B19_C843
 S1A_IW_RAW__0SSV_20150518T015001_20150518T015037_005969_007B19_1D59
 S1A_IW_RAW__0SSV_20150518T014731_20150518T014804_005969_007B19_0D8C
 S1A_IW_RAW__0SSV_20150518T014821_20150518T014854_005969_007B19_C767
 S1A_IW_SLC__1SSV_20150518T014758_20150518T014826_005969_007B19_891C
 S1A_IW_SLC__1SSV_20150518T014849_20150518T014916_005969_007B19_407D
 S1A_IW_SLC__1SSV_20150518T015003_20150518T015038_005969_007B19_E0CB
 S1A_IW_SLC__1SSV_20150518T014824_20150518T014851_005969_007B19_FF89
 S1A_IW_SLC__1SSV_20150518T014938_20150518T015005_005969_007B19_E135
 S1A_IW_SLC__1SSV_20150518T014914_20150518T014941_005969_007B19_097B
 S1A_IW_SLC__1SSV_20150518T014706_20150518T014736_005969_007B19_A87D
 S1A_IW_SLC__1SSV_20150518T014733_20150518T014800_005969_007B19_9C80

DataTake 007B20

S1A_EW_RAW__0SSH_20150518T040317_20150518T040408_005970_007B20_0F38
 S1A_EW_RAW__0SDH_20150518T125945_20150518T130054_005976_007B45_ACB6

No SLC produced