ALOS PALSAR Quality Disclaimer

Title:

Product inconsistency names

Description:

During the generation of some ALOS PALSAR FBS L1.5 (GEC) products at OTF level an issue has been identified with the product naming, in particular an inconsistency with the expected row number and the L1.0 RAW filename. After investigation, the origin has the issue has been found in ESA ALOS PALSAR IPF: the problem was a coding fault (zero day) that misread the acquisition mode in the L0->L1 transcription process. This potentially causes problems with the L1.0 RAW CEOS file-naming and a further possible knock-on re the row number in the product SIP zip filenames, although the L1.5 product generation is unaffected.
Moreover, in the L0 transcription CEOS names there is a further problem with the IPF interpretation of the SSM.XML data. In fact, the IPF inspects the SSM data to determine a row number compatible with GMV databases etc, based on the requested image centre time, making some assumptions that are not valid for products shorter than nominal (i.e. 16.4 secs). For this reason, the returned row number is misreported by 10 nodes w.r.t. the correct one.

Degradation types:

Products affected present a wrong filename (row number), but the content is not impacted.

Degradation percentage:

Very low (only filename) and very rare (only products shorter than nominal are impacted).

Impacted products:

- **Acquisition modes**: FBS, FBD, PLR, WB1
- **Product types**: L1.0, L1.1, L1.5
- **Polarizations**: All
- **IPF version**: V04.16p9
- **Beginning/end of the issue**: Entire mission

Cause:

The JAXA World Reference System is misreported by 10 nodes, in the L1 product SIP filenames and associated metadata, for short datasets.

Status:

The issue will be fixed in future IPF version.

References:

- [IDEAS+ AR 475] Correct product SIP and L1.0 CEOS filenaming errors, implement robustness to non-heterogenous L0 SIP datasets