ALOS PALSAR Quality Disclaimer

Title:

ECC to UTM coordinate conversion bug

Description:

The current ALOS_IPF highlights a known problem for scenes straddle the -180/+180 degree line of longitude.

Degradation types:

Products not generated

Degradation percentage:

Not known

Impacted products:

- **Product types:** all Product type GEC
- **Polarizations**: All
- **IPF version:** PALSAR processor v4.19p9
- **Beginning/end of the issue**: Entire mission

Cause:

The IPF converts from ECC to UTM using a routine that converts from lat/long to UTM, using a reference zone - the conversion is calculated at various points over a master point grid, fitting a bicubic to the relevant transformation parameters. An oversight/bug in the code is that a common UTM zone is calculated from the central location for subsequent master point conversions - this and subsequent fitting blows up when one of the master points is given as e.g. -179 degrees when others are at e.g. +177 degrees

Status:

IPF will be corrected with new version delivery.

References:

- IDEAS ART ref: IDEAS+ AR 508 - ECC to UTM coordinate conversion bug