

Mosaic product overview

- An intermediate product
 - Not a science product
 - Will facilitate science activities with ALOS PALSAR data
- A descendent of what was done for the GRFM
- New technology
 - Routine generation of path images
 - Routine orthorectification and calibration with DEM data
 - Routine mosaicking as a standard product
- Improves accessibility to source data
 - This makes it possible for the general science community to use this continental-scale data for applications that we have perhaps not thought of. Realistically, this would not be possible without mosaics.
 - Open access to the source data will improve the perception of the robustness of the derived products

Mosaic product overview

- Path images
 - Scansar slant range (~70mx70m), separate file for each of the 5 beams
 - Fine resolution slant range (35x52m and 70x52m)
 - Date and time of acquisition image
 - Coherence image paths
 - No texture

Mosaic product overview

- Scansar mosaics
 - Prototype areas: Kalimantan, Amazon, Alaska
 - Output projection : geographic, albers equal area
 - Output format: geotiff
 - Project to DEM (use best available for boreal regions)
 - Incidence angle map
 - Date and time map
 - Concentrate on wetland mosaics
 - Calibration issues will need to be resolved
 - Large incidence angle variation
 - Pixel spacing : ~100m
 - Number of looks: 20
 - Frequency: every cycle for wetlands acquisitions

Mosaic product overview

- Fine Resolution mosaics
 - Output pixel size: ~50m
 - Output projection: geographic or albers equal area
 - Output format: geotiff
 - Incidence angle map
 - Date and time map
 - Number of looks : 64
 - Project to SRTM DEM or alternative DEM for boreal region where possible.

Mosaic product overview

- Fine Resolution mosaics
 - Shimada: SE Asia, Japan, all areas not covered by others
 - Frequency: at least once for each area
 - Chapman : Amazon basin, Alaska, North and South America
 - Frequency: twice for North and South America, periodically for Amazon and Alaska
 - Paillou and Degrandi: Africa
 - Frequency: once in first 3 year period, once in following 2 year period.
 - Degrandi: Siberia, Eurasia
 - Frequency: once in first 3 year period, once in following 2 year period
 - Smith: Australia
 - Frequency: TBD

Mosaic product overview

- Browse mosaics (500m)
 - Verification of coverage and first looks
 - Will be on website
 - Fine resolution
 - Scansar

Mosaic product overview

- Proprietary period?
- Formats and projections?
- Calibration?
- Software?
- Distribution?