SARscape® WideSwath Interferometry

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Abstract

SARscape® is a modular set of state−of−the−art functions, integrated within the ArcView® and ENVI® environments, dedicated to the operational processing and generation of products derived from spaceborne Synthetic Aperture Radar (SAR) and multi−spectral data. The addition of the capabilities of generation of phase−preserving ScanSAR SLC products from ASAR and Radarsat−1 raw data as well as specific tools for ScanSAR interferometry makes the package even more complete and up−to−date, extending its capabilities into new hot application areas. The generation of DEMs, coherence and subsidence maps, already supported by SARscape®, is now possible also over large areas as covered by WideSwath acquisitions, through a complete integration of the new modules with the existing ones. An overview of the SARscape package and its extensions is given in this paper. A series of examples and products for different applications generated with SARscape based on ASAR WS interferometry is shown.