

Sarscape Training content

- INTRODUCTION
- OVERVIEW
- WHAT IS ENVI?
- ENVI + IDL, ENVI, and IDL
- WHAT IS SARSCAPE?
- SARscape Modules
- KEY FEATURES THAT DISTINGUISH SARSCAPE
- ENVI RESOURCES
- Contacting Exelis Visual Information Solutions
- ENVI Support
- Online Resources
- ABOUT THIS TRAINING MANUAL
- MASTERING THE BASICS: GETTING AROUND IN ENVI
- WHAT YOU WILL LEARN IN THIS CHAPTER
- FUNDAMENTALS
- CREATING AND MANAGING IMAGE DISPLAYS
- Displaying Images
- CUSTOMIZING THE ENVI CONFIGURATION
- CLOSING FILES
- CHAPTER REVIEW
- GENERAL RADAR CONCEPTS
- WHAT YOU WILL LEARN IN THIS CHAPTER
- WHAT IS RADAR?
- Real Aperture Radar – Resolution
- WHAT IS SAR?
- Scattering Mechanisms
- Dielectric Properties
- Acquisition Modes
- Speckle
- Data Statistics
- Geometry
- CHAPTER REVIEW
- SARSCAPE BASIC MODULE
- WHAT YOU WILL LEARN IN THIS CHAPTER
- OVERVIEW
- PROCESSING A SINGLE IMAGE USING THE BASIC MODULE
- Background information on TerraSAR-X:
- Overview of Speckle Filtering with the SARscape Filtering Module
- MULTIPLE IMAGE PROCESSING WITH THE BASIC MODULE
- Background

- Baseline estimation
- Semi-automated process: Interferogram to Phase Unwrapping
- Interferogram Stacking: Dual Pair Differential Interferometry
- Manual Interferometry process:
 - Interferogram generation with or without DEM
 - Interferogram Flattening
 - Adaptive Filter and Coherence Generation
 - Phase Unwrapping
 - Orbital refinement
 - Phase to Height Conversion and Geocoding
 - Interferogram reflattening if creating a displacement map
 - Phase to Displacement Conversion and geocoding
- Interferometry Tools