GMTSAR Short Course  
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• Objectives:
  
  • run GMT5 and GMT5SAR on your **own** computer  
  • understand the principles of SAR and InSAR  
  • perform 2-pass InSAR processing on your own computer  
  • get data ERS, Envisat, ALOS-1 from UNAVCO and ASF  
  • process ERS, Envisat, ALOS-1, TSX, CSK, RS2, S1A, ALOS-2  
  • prepare large stacks of interferograms  
  • time series
GMTSAR Short Course
OUTLINE

• setup UNIX, GMT, and GMTSAR – test cases
• overview of SAR, InSAR, and GMTSAR
• learn to select SAR scenes at UNAVCO and ASF
• SAR and InSAR theory
• GMTSAR overview, modules, standard InSAR processing
• 2-D phase unwrapping
• batch processing
• student presentations of interferograms
• setup:
  • install UNIX and csh
  • make .tcshrc file
  • install GMT5
  • make topography map
  • install GMT5SAR
  • run test cases
.cshrc
.tcshrc
.bashrc

what is the . for??
#!/bin/tcsh

# set history parameters
set history = 50
set savehist = 50

# create aliases (shortcuts)
alias m more
alias h history
alias la ls -a
alias ll ls -l
alias insar "cd Document/Insar"

setenv GMT5SAR /usr/local/GMT5SAR

# set mask for default file permissions
umask 027

# set paths (shell variable)
set path = ($path ~/units174/bin) # from tutorial
setenv PATH ${PATH}:/opt/local/bin:/opt/local/sbin
setenv PATH ${PATH}:/usr/local/bin
setenv PATH ${PATH}:/usr/texbin
setenv PATH $GMT5SAR/bin:"$PATH"

setenv MANPATH opt/local/share/man
setenv DYLD_LIBRARY_PATH /Applications/MATLAB_R2014b.app/bin/maci64

modified from Yuval Levy
GMTSAR Short Course
UNAVCO

Student Presentations – Wednesday AM

• Group A. – process one of the sample data sets – Wessel, Sandwell

• Group B. – select new SAR data and process – Baker, Feigl

• Group C. – InSAR batch processing – Tong, Xu, Lindsey