2018 UNAVCO Short Course Series
InSAR Processing and Theory with GMTSAR

Experience Sharing by a Novice

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# Project 1 - Greenland (Sentinel-1A)

<table>
<thead>
<tr>
<th></th>
<th>Outer</th>
<th>Inner</th>
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</thead>
<tbody>
<tr>
<td>Time</td>
<td>2018-02-04</td>
<td>2018-02-16</td>
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<tr>
<td>Absolute Orbit</td>
<td>20462</td>
<td>20637</td>
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<td>Relative Orbit</td>
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<td>90</td>
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<tr>
<td>Frame</td>
<td>1309</td>
<td>1309a</td>
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<tr>
<td>Fight Direction</td>
<td>Ascending</td>
<td>Ascending</td>
</tr>
<tr>
<td>Polarization</td>
<td>HH+HV</td>
<td>HH+HV</td>
</tr>
</tbody>
</table>

 Took 16 hours
 Unwrap step do not finish yet
Project 1 - Greenland (Sentinel-1A)
Corr_II.kml
Project 1 - Greenland (Sentinel-1A)

unwrap.grd
Project 2 – Taiwan (ERS-2)

Lai et al. (2017)
Project 2 – Taiwan (ERS-2)

Waxi et al. (2017)
Hsu et al. (2018)
Project 2 – Taiwan (ERS-2)

Ching et al. (2007)
Project 2 - Taiwan (ERS-2)

ERS-1/2 - SAR Raw Image Product (SAR_IM_0P)

- Last update: 10 April 2017
- This SAR Level 0 product is acquired in Image Mode. The products consist of the SAR telemetry data and are supplied as full Level 0 segments, unprocessed. This also contains all the required auxiliary data necessary for data processing.
- The product serves two main purposes:
  - For testing SAR processors independently from the HHDR system
  - For users interested in full SAR data processing

Product characteristics

- Scene area: 100 km range, across tracks x full segment length
- Scene size: 30x30 km x full segment length
- Pixel size: 10 m (10 m / 3 bands)
- Projection: Slant range

Data Set Specifications

Dataset available upon positive evaluation of Data Service Request (1 week).
Start to learn GMTSAR time series!

Thank you

Citation: