

UAVSAR Operational Processing and Data Delivery Status

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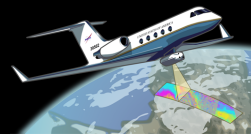
2015 UAVSAR Workshop

Moffett Field, CA

October 16, 2015



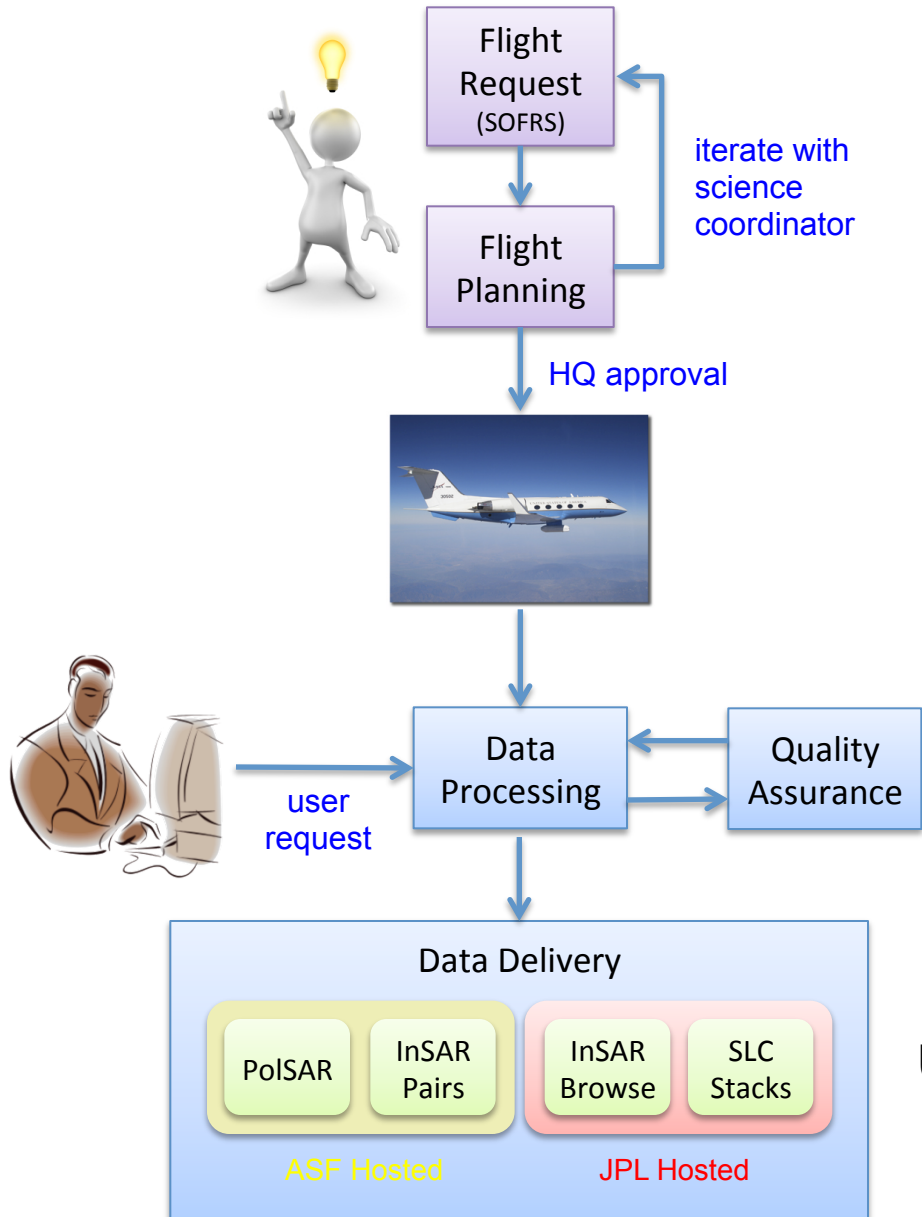
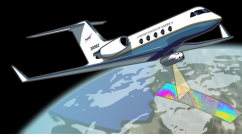
Introduction



- Operational processor overview
- Data products and delivery status
 - PolSAR
 - InSAR Browse
 - InSAR Pair
 - SLC Stack
- FY15 processing improvements
- Future work



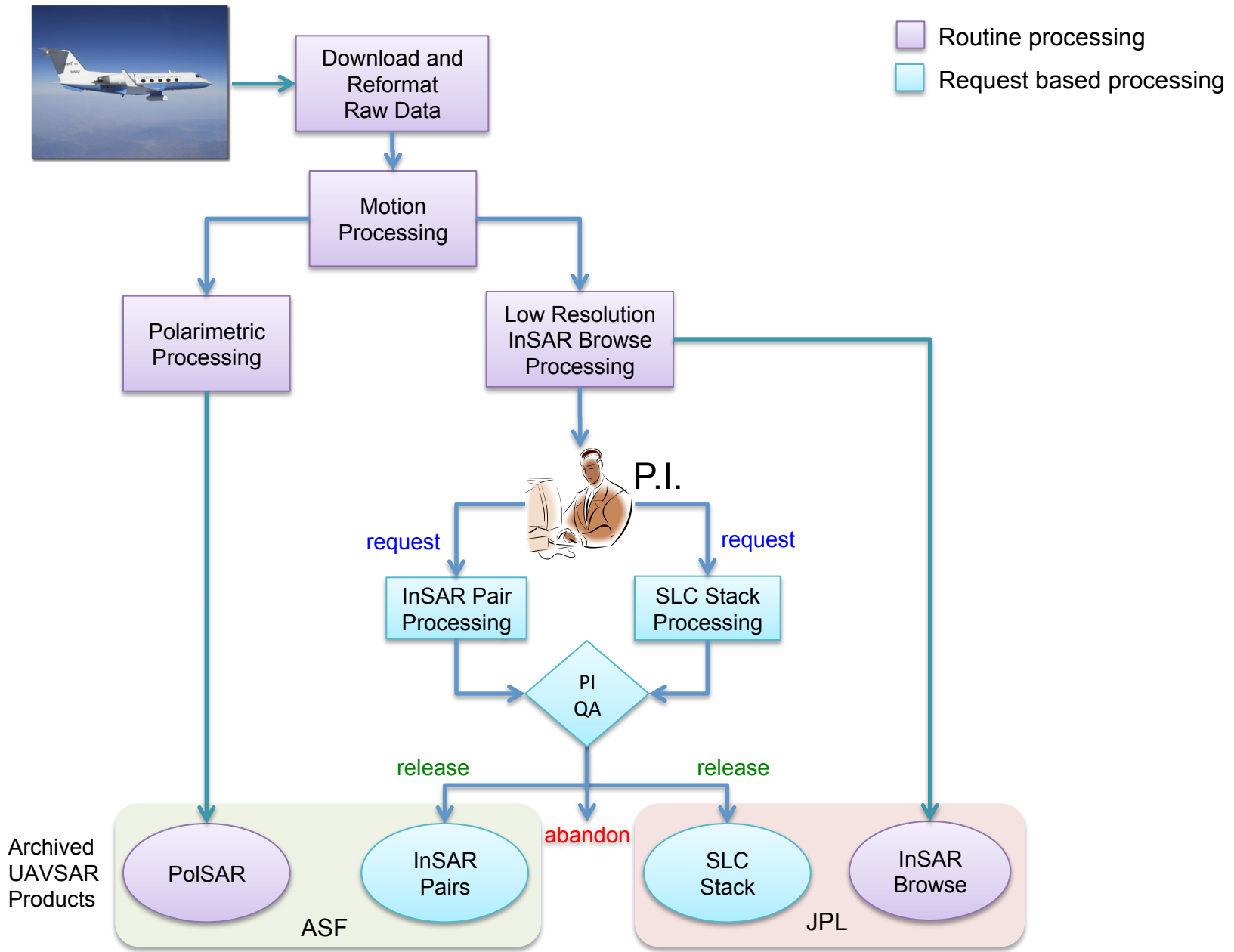
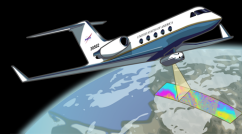
End-to-End Operations Overview



UAVSAR Data Products

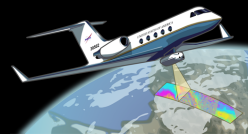


Operational Processing Overview





PoSAR Products



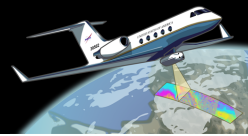
- Slant range multi-looked cross products (.mlc)
 - real data: HHHH, HVHV, VVVV
 - complex data: HHHV, HVVH, HVVV
 - compressed stocks matrix (.dat)
 - 3 looks in range, 12 looks in azimuth
- Ground range products (.grd)
 - ground projected cross products
 - DEM used in projection (.hgt)
 - KML/KMZ files
 - incidence angle file (.inc)
 - slope file (.slope)
- Full resolution slant range single look complex data are available upon request (.slc)
 - 4 polarizations: HH, HV, VH, VV
- Annotation file of metadata



New Orleans levees
April 8, 2014



InSAR Browse Products



- Low resolution, zero-baseline, InSAR browse products in KML/KMZ format that help user quickly evaluate data and prioritize data requests
 - interferogram
 - coherence
 - amplitude of pass 1
 - amplitude of pass 2
 - range offsets
 - azimuth offsets
 - DEM used in ground projection
 - annotation file
 - data quality metrics
- No residual baseline correction applied
- No phase unwrapping

2-year InSAR browse product of Sierra Negra volcano in the Galapagos shows meter level deformation →

Product: GalVol_25104_13039-000_15023-004_0734d_s01_L090_00 ★ Favorite
 RP InSAR Browse image of Galapagos Islands, Ecuador (acquired Mar 14, 2013 and Mar 18, 2015)
 Flight line comments: Galapagos volcanoes RPI lines. Line repeats for redundancy only, temporal baseline does not matter. PI Paul Lundgren.

Instrument: L-band
 Flight line ID: 25104
 Status: Released
 Flight request ID: 15G036

[Download](#) [Data Quality Metrics](#) [Related Data](#)

Browse Image

Browse Interferometric (InSAR) Data Format
 Annotation File

Map	High-res Image	Low-res Image
	Download KMZ (120.9 MB)	Download KML

Browse HH Interferogram

[Map](#) [Display KML](#)

Browse HH Coherence	Download KMZ (110.8 MB)	Download KML
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Browse HH Coherence

[Map](#) [Display KML](#)

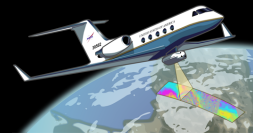
Browse HH Amplitude Track 1	Download KMZ (75.0 MB)	Download KML
Browse HH Amplitude Track 2	Download KMZ (75.1 MB)	Download KML
Browse HH Image Offsets in Azimuth Direction	Download KMZ (7.8 MB)	Download KML

Browse HH Image Offsets in Azimuth Direction

[Map](#) [Display KML](#)



InSAR Browse Data Quality Metrics

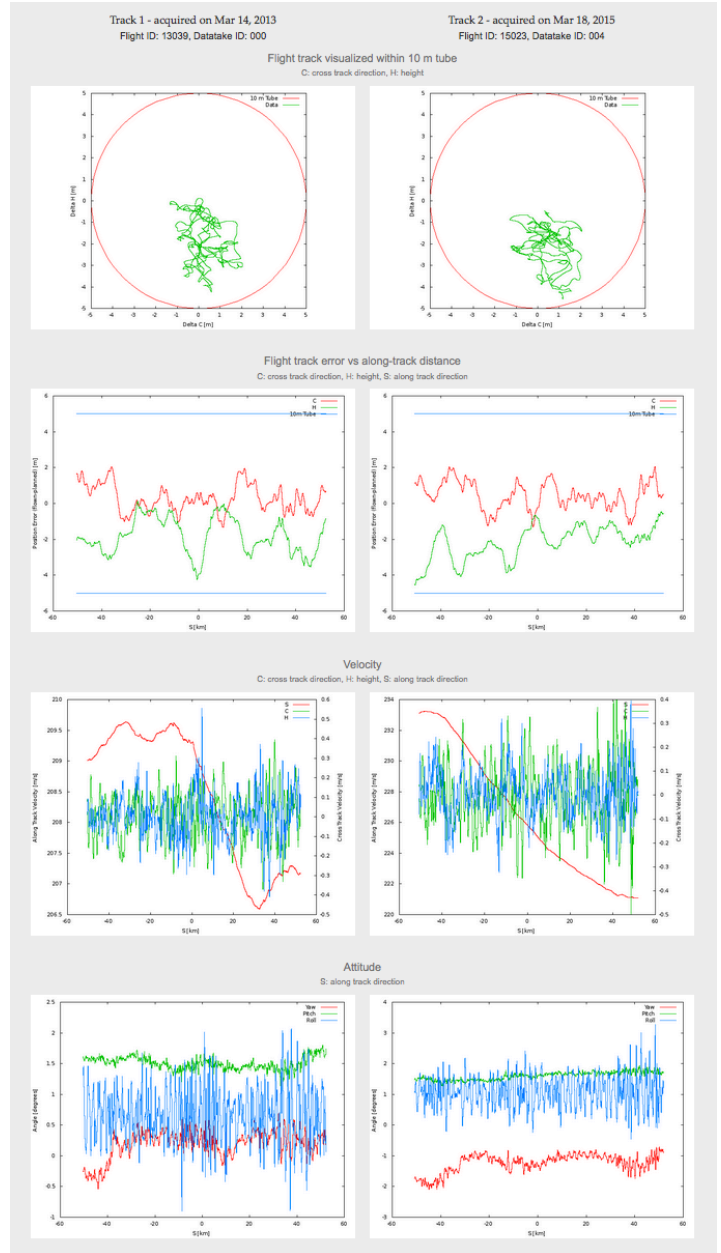
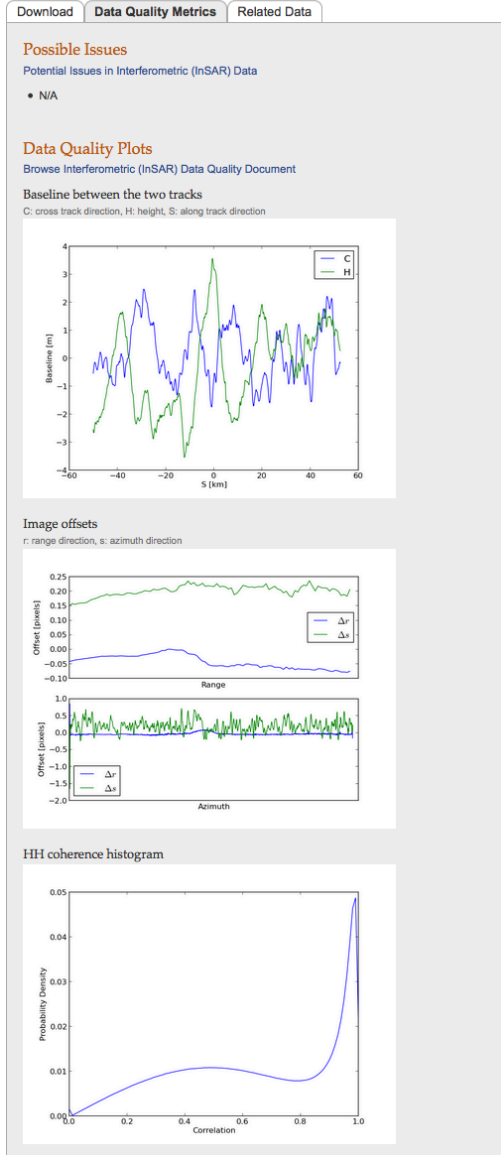


- baseline
- offset profiles in cross track and along track direction
- coherence histogram
- tube performance
- attitude
- velocity

allows for more informed evaluation of data

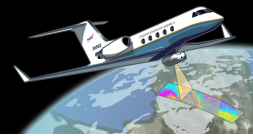
Product: GalVol_25104_13039-000_15023-004_0734d_s01_L090_00

RP InSAR Browse image of Galapagos Islands, Ecuador (acquired Mar 14, 2013 and Mar 18, 2013)
Flight line comments: Galapagos volcanoes RPI lines. Line repeats for redundancy only, temp matter. PI Paul Lundgren.





InSAR Pair Products



- Zero-baseline repeat pass interferometric products
 - slant range and ground range (binary & KML/KMZ)
 - interferogram (.int)
 - unwrapped phase* (.unw)
 - coherence (.cor)
 - amplitude 1 (.amp1)
 - amplitude 2 (.amp2)
 - DEM used in ground projection
 - annotation metadata file

- InSAR pair product is processed with or without residual baseline correction depending on PI choice

Product: [ChiGla_12400_15029-009_15030-003_0002d_s01_L090_01](#) [★ Add to Favorites](#)

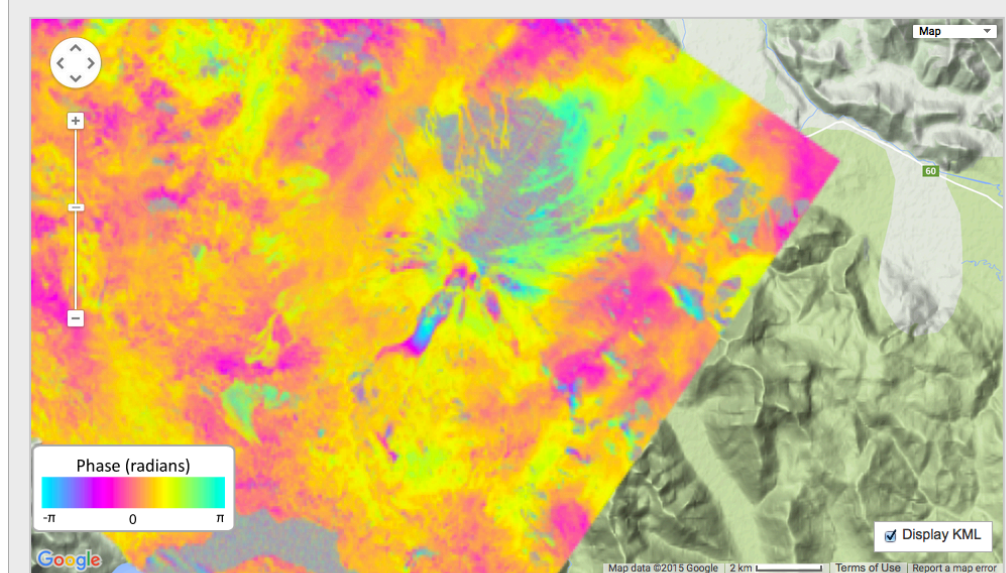
RP InSAR Pair image of Glacier Quetrupillan-Lanin, Chile/Argentina (acquired Mar 28, 2015 and Mar 30, 2015)
Flight line comments: Need to coordinate with Lundgren: This is very similar to lund04_122aa image swath - DataTake 79.kmz, but longer to image 3 volcanic glaciers. Chile Glacier RPI line. Also in the SCIE-SCIE2 sortie. PI

This product: [Version 1 \(processor version c27b5882\)](#)

Other versions: [RP InSAR Browse Image](#)

Instrument: L-band
Flight line ID: 12400
Status: **Released (ASF)**
Flight request ID: 15G036
Baseline: **Corrected**

[Download](#) [Related Data](#) [Comparison](#) [QA Plots](#)



[ChiGla_12400_15029-009_15030-003_0002d_s01_L090HH_01.int.kml](#)

[Download This KML](#)

Precision Data

The NASA data archive at ASF now requires login. If you do not have an account, any user can create one here (this is a separate login from the UAVSAR webpage login).

[Data Format Documentation for InSAR Pair Products](#)

HH Polarization

Metadata

- Annotation file

Slant Range Multi-looked Products (HH)

- Slant range interferogram (0.2353 Gbytes)
- Slant range unwrapped phase (0.1176 Gbytes)
- Slant range coherence (0.1176 Gbytes)
- Slant range amplitude 1 (0.1176 Gbytes)
- Slant range amplitude 2 (0.1176 Gbytes)

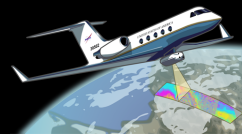
Ground Range Multi-looked Products (HH)

- Ground range interferogram (1.1032 Gbytes)
- Ground range unwrapped phase (0.5516 Gbytes)

3 day InSAR pair interferogram of Quetrupillan-Lanin on the border of Chile & Argentina shows glacier movement



InSAR Pair Product Request Interface



- Pls request and review data using their UAVSAR account
- A single PI can order up to 50 products per week
- **New features**
 - request reprocessing of products processed with outdated processor versions
 - custom along track cropping

Step 1

Request Processing | Processing Status | Stack Management

Request: **Repeat Pass InSAR Pair** | SLC Stack
 Polarizations: HH HV VH VV

RPI-ready flight lines for Admin (see [wiki](#) for pairing criteria)
 You can refine the list below by searching by line ID, line site name, line description

29 flight lines found

To start, select a flight line.

- JapanV_00001 (Honshu Volcanoes, Japan) [preview](#)
- JapanV_00201 (Honshu Volcanoes, Japan) [preview](#)
- JapanV_02202 (Honshu Volcanoes, Japan) [preview](#)
- JapanV_02601 (Honshu Volcanoes, Japan) [preview](#)
- JapanV_02802 (Kyushu Volcanoes, Japan) [preview](#)



Step 2

InSAR Processing Requests


Request Processing | Processing Status | Stack Management

Request: Repeat Pass InSAR Pair SLC Stack
 Polarizations: HH HV VH VV

RPI-ready flight lines for Admin (see [wiki](#) for pairing criteria)
 You can refine the list below by searching by line ID, line site name, line description, flight ID, or SOFRS ID (flight request).

1 flight line found

JapanV_00001 (Honshu Volcanoes, Japan)



1. Select the first data take of your RPI pair.

Date	Flight ID	Data take ID	View	Flight Request
<input checked="" type="radio"/> Oct 8, 2012	12094	8	PoISAR	12G034
<input type="radio"/> Nov 14, 2013	13173	8	PoISAR	14G030

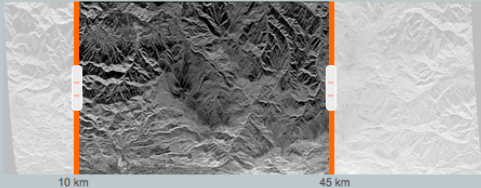
2. Select the second data take of your RPI pair. This list shows **all possible pairs** to the selected "first data take" above.

Time Separation
 30 day 1 month - 1 year Greater than 1 year

Date	Flight ID	Data take ID	Time Separation (days)	View
<input checked="" type="radio"/> Nov 14, 2013	13173	8	402	PoISAR, RPI Browse Version 1 (Outdated)

3. Do you want to crop the data along track? (drag sliders) No Yes

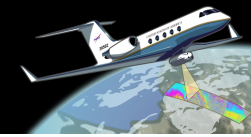
Original length: 66 km Cropped width: 36 km



4. Assign a priority for the processing request. You will be asked for a final confirmation.
 Priority: High Low



InSAR Pair Product Choice Page



Toggle choice buttons to see effects of baseline correction

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UAVSAR Home

Repeat Pass InSAR Pair Product Ordering [Help](#)

Which product version would you like to archive? You will be asked for a final confirmation.

Choice 1* (Baseline corrected) Choice 2 (Baseline NOT corrected) None (Delete this data)

Order

WARNING: This processed data will be deleted in 7 days, 8 hrs, 17 min (Nov 5, 2014) if no order is made

Product: SanAnd_05508_14112-007_14140-005_0053d_s01_L090_01
 RPI image of Hayward Fault, CA (acquired Aug 14, 2014 and Oct 6, 2014)
 Flight line comments: Hayward Fault

Instrument: L-band
 Flight line ID: 05508
 Status: In-review (PI)
 Flight request ID: 15G030

Comparison Common QA Plots

If any UAVSAR imagery does not load correctly on the maps below, please refresh the page.

Map

Choice 1 (corrected) Choice 2 (uncorrected)

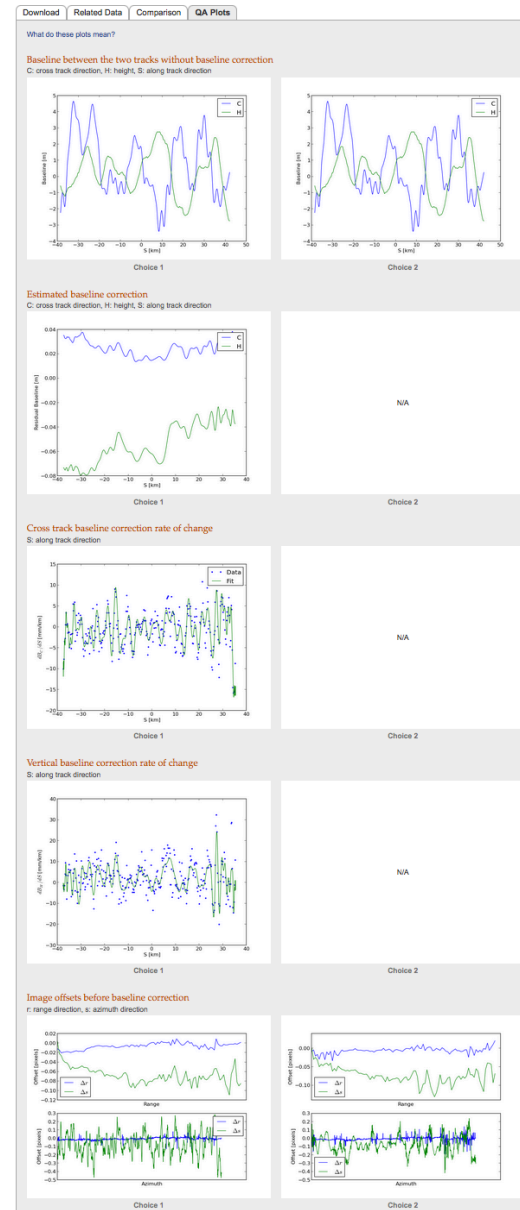
HH Interferogram

HH Coherence

HH Image Offsets in Azimuth Direction

- review deadline clearly marked
- 3 email notifications alert PI that InSAR Pair product is ready for review

QA Plots



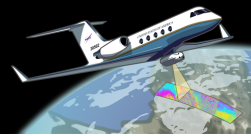
QA plots show



- baseline between the two tracks
- estimated baseline correction and rate of change
- range and azimuth offset profiles before and after baseline correction
- coherence histograms before and after baseline correction



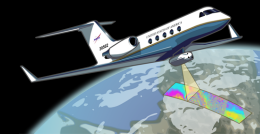
SLC Stack Products



- Co-registered time series of single-look complex (SLC) data
- Data products
 - SLC files
 - lat/lon/height (LLH) file
 - annotation metadata file
 - Doppler file
 - look vector (LKV)
- Choice of 1x1, 1x4, or 2x8 pixel spacing data
- Binary data are segmented into 40 km segments for manageable download
- Stack scenes are chronologically ordered by acquisition date
- PIs can choose between residual baseline corrected and uncorrected versions to be released to the public. Both versions are available to the PI through email link (in the future, the unchosen version will be deleted after 3 months)
- PIs can choose to enable and disable stacks from automatic scene addition
- PIs get 3 email notifications to QA data before the product is deleted
- Single PI can have up to 6 concurrent download sessions and is limited to 5-6 MB/sec total download rate (benchmarked on JPL network)
- **New features:**
 - Custom along track cropping and scene selection
 - Automatic addition of newly acquired scenes that pass QA to enabled stacks
 - Discontinued stacks



SLC Stack Product & Management Pages



Released SLC Stack Product Page

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Product: **Cochis_14605_01**
Coregistered SLC (Single Look Complex data) Stack of Cochise County, AZ

Instrument: L-band
Flight line ID: 14605
Status: Released
Baseline: Corrected

Download | Related Data | Stack Plots | Stack Images

Chose pixel spacing and segment number to download data

- Select a pixel spacing (1x1 is 1.67 m slant range x 0.6 m azimuth): 1 x 1 1 x 4 2 x 8
- Select a segment. Click links to download individual files or select checkboxes to generate a wget script (shown below).

Doppler Centroid vs Slant Range file (view)

HH Amplitude
Click an image to see a larger version.

Track	Date	Thumbnail
Track 1	Oct 23, 2012	
Track 2	Apr 4, 2013	
Track 3	Oct 30, 2013	
Track 4	Apr 8, 2014	

Segment 1

Lat/Lon/Height (download 461MB)
 Look Vector (download 461MB)

Tracks:

Segment 2

3. (Optional) Use wget commands to download data (selected checkboxes above): **20.1GB**.

```
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_01_BC.dop
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_01_BC_s1_2x8.lh
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_01_BC_s1_2x8.lkv
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_12112_006_121023_L090HH_01_BC_s1_1x1.slc
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_12112_006_121023_L090HH_01_BC.ann
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_13054_003_130404_L090HH_01_BC_s1_1x1.slc
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_13054_003_130404_L090HH_01_BC.ann
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_13164_000_131030_L090HH_01_BC_s1_1x1.slc
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_13164_000_131030_L090HH_01_BC.ann
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_14035_000_140408_L090HH_01_BC_s1_1x1.slc
wget http://downloaduav2.jpl.nasa.gov/Release20/Cochis_14605_01/Cochis_14605_14035_000_140408_L090HH_01_BC.ann
```

SLC Stack Management Page

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UAVSAR Home

InSAR Processing Requests

Request Processing | Processing Status | **Stack Management**

You can refine the list below by searching by PI, line ID, line site name, or line description.

118 released stacks found

Enabled stacks will have new data takes automatically added to them. You may disable any stack where you do not want this feature.

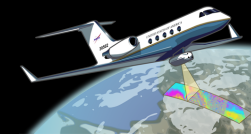
PI	Product ID	Polarizations	Requester	Request Date	Additions to Stack
Burgmann	Haywar_34001_01 - view	HH	Burgmann	2015-05-18	<input type="button" value="Disable"/>
Burgmann	SanAnd_15302_01 - view	HH	Burgmann	2015-05-14	<input type="button" value="Disable"/>
Burgmann	Haywrd_05524_01 - view	HH	Burgmann	2015-05-09	<input type="button" value="Disable"/>
Burgmann	SanAnd_32001_01 - view	HH	Donnellan	2014-12-21	<input type="button" value="Disable"/>
Burgmann	Haywrd_23503_01 - view	HH	Donnellan	2014-12-10	<input type="button" value="Disable"/>
Burgmann	Haywrd_23501_01 - view	HH	Donnellan	2014-12-01	<input type="button" value="Disable"/>
Burgmann	Haywrd_23521_01 - view	HH	Burgmann	2014-11-30	<input type="button" value="Disable"/>
Burgmann	Haywar_23502_01 - view	HH	Burgmann	2014-11-29	<input type="button" value="Discontinued"/>
Burgmann	Haywar_23502_02 - view	HH	Burgmann	2014-11-29	<input type="button" value="Disable"/>
Burgmann	Haywar_05502_01 - view	HH	Burgmann	2014-11-26	<input type="button" value="Disable"/>

Disabled stacks will not have new acquisitions automatically processed and added

Discontinued stacks cannot be enabled. All binary data are removed from archive after duplicate stack is released (new feature)



SLC Stack Review



Review page: *Sequential-pair interferograms are shown, along with coherence and offset maps. PI does product QA using these thumbnail images and QA Plots. Same review deadlines as InSAR Pairs products.*

Comparison Images

QA Plots

Jet Propulsion Laboratory
California Institute of Technology

JPL HOME EARTH SOLAR SYSTEM STARS & GALAXIES SCIENCE & TECHNOLOGY
UAVSAR Home

<< Back to My Account yzheng - Logout

Stack RPI Product Ordering Help

Which product version would you like to archive? You will be asked for a final confirmation.

Choice 1* (Baseline corrected) Choice 2 (Baseline NOT corrected) None (Delete this data)

*This is the default choice for this flight line ID

Product: SanAnd_23513_01
Coregistered SLC (Single Look Complex data) Stack of Northern San Andreas Fault, CA

Instrument: L-band
Flight line ID: 23513
Status: In-review

Comparison Stack QA Plots

18Feb09 / 17Nov09 17Nov09 / 28Oct10 28Oct10 / 13Jul11 13Jul11 / 8Nov11 8Nov11 / 19Apr12 19Apr12 / 5Nov12 5Nov12 / 29May14

Track 1 & 2 Track 2 & 3 Track 3 & 4 Track 4 & 5 Track 5 & 6 Track 6 & 7 Track 7 & 8

HH Interferogram

Choice 1 (corrected)

Choice 2 (uncorrected)

None

view larger view larger view larger view larger view larger view larger view larger

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Stack RPI Product Ordering Help

Which product version would you like to archive? You will be asked for a final confirmation.

Choice 1* (Baseline corrected) Choice 2 (Baseline NOT corrected) None (Delete this data)

*This is the default choice for this flight line ID

Product: SanAnd_23513_01
Coregistered SLC (Single Look Complex data) Stack of Northern San Andreas Fault, CA

Instrument: L-band
Flight line ID: 23513
Status: In-review

Comparison Stack QA Plots

What do these plots mean?

Track 1 (18Feb09) & Track 2 (17Nov09)

Baseline between the two tracks without baseline correction
C: cross track direction, H: height, S: along track direction

Estimated baseline correction
C: cross track direction, H: height, S: along track direction

Image offsets before baseline correction
r: range direction, s: azimuth direction

Image offsets after baseline correction
r: range direction, s: azimuth direction

Track 2 (17Nov09) & Track 3 (28Oct10)

Baseline between the two tracks without baseline correction
C: cross track direction, H: height, S: along track direction

Estimated baseline correction
C: cross track direction, H: height, S: along track direction

Image offsets before baseline correction
r: range direction, s: azimuth direction

Image offsets after baseline correction
r: range direction, s: azimuth direction

Track 3 (28Oct10) & Track 4 (13Jul11)

Baseline between the two tracks without baseline correction
C: cross track direction, H: height, S: along track direction

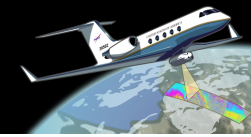
Estimated baseline correction
C: cross track direction, H: height, S: along track direction

Image offsets before baseline correction
r: range direction, s: azimuth direction

Image offsets after baseline correction
r: range direction, s: azimuth direction



New Custom Stack Request Interface



InSAR Processing Requests

Request Processing | Processing Status | Stack Management

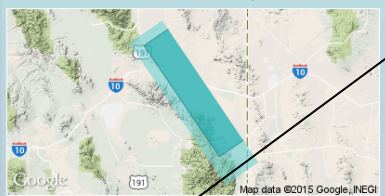
Request: Repeat Pass InSAR Pair SLC Stack
 Polarizations: HH HV VH VV

RPI-ready flight lines for Admin (see wiki for pairing criteria)
 You can refine the list below by searching by line ID, line site name, line description, flight ID, or SOFRS ID (flight request).

Cochis_14605

1 flight line found

Cochis_14605 (Cochise County, AZ)



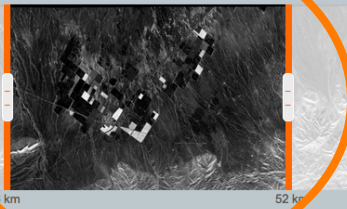
1. Select data takes to add to your stack.

Date	Flight ID	Data take ID	Length*	PolSAR	Stack 1
<input checked="" type="checkbox"/> Oct 23, 2012	12112	6	89 km	view	X
<input checked="" type="checkbox"/> Apr 4, 2013	13054	3	88 km	view	X
<input checked="" type="checkbox"/> Oct 30, 2013	13164	0	90 km	view	X
<input checked="" type="checkbox"/> Apr 8, 2014	14035	0	87 km	view	X
<input checked="" type="checkbox"/> Oct 15, 2014	14149	2	86 km	view	X

*Lengths missing, PolSAR data has not been processed

2. Do you want to crop the azimuth (drag sliders) No Yes

Original length: 90 km | Cropped width: 37 km



3. Assign a priority for the processing request. You will be asked for a final confirmation.
 Priority: High Low

Select acquisitions to be processed in stack

Select section of the line to be processed (cropping in along track)

- improve motion compensation by cutting out water and other decorrelated area and focus on area of interest
- reduce data volume to download and store

Convenient view of other stack versions

Request Processing | Processing Status | Stack Management

You can refine the list below by searching by PI, line ID, line site name, line description, product ID, flight ID, or SOFRS ID (flight request).

Status: InSAR Pair Stack

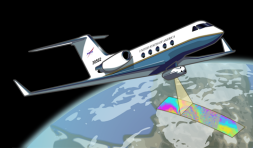
3 requests found

PI	Status	Line	Method	Polarizations	Request Info	Priority	Choice Made	Requester	Request Date
Jones	Rejected	gulfco_00702 - map	SLC Stack	HH	Version 2, 7 Scenes, Crop: 14 to 47 km	High	0	Jones	2015-02-26
Jones	Released - view	gulfco_00702 - map	SLC Stack	HH	Version 1, 7 Scenes	High	2	Jones	2014-11-06
Jones	Rejected	gulfco_14011 - map	SLC Stack	HH	Version 1, 11 Scenes	Low	0	Tung	2013-11-13

UAVSAR website saves selected cropping



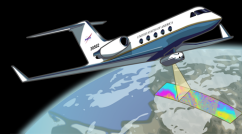
FY15 Processing Improvements Summary



- Request-based processing
 - Enabled custom along track cropping for InSAR pair and SLC stack requests
 - Gave PIs the ability to request reprocessing of released products when significant new processor improvements are available (for example: residual baseline correction algorithm)
 - Implemented Polarimetric interferometric processing and interface
 - SLC Stack improvements
 - Added custom scene selection for SLC stacks
 - Automated addition of newly acquired scenes to enabled stack
 - Added feature to discontinue stacks
- New data flow features
 - Added automated processing restart feature that detects resource related job crashes and automatically re-launch jobs at the last processing stage
 - Improved Emergency response data flow to streamline single product processing for faster processing time
 - Implemented storing raw data on Ames supercomputer to speed up processing
- Other improvements
 - Added ability to indicate favorite data products in UAVSAR user accounts
 - Implemented changes to avoid jobs expiring during holidays of Thanksgiving, Christmas, and July 4th



Polarimetric Interferometric Processing



Quad-pol Interferometric processing (including InSAR Pairs and SLC Stacks) is ready for public release

- co-registered SLCs for all 4 polarizations
- all polarizations use HH residual baseline correction results

InSAR Processing Requests

Request Processing Processing Status Stack Management

Request: Repeat Pass InSAR Pair SLC Stack

Polarizations: HH HV VH VV

RPI-ready flight lines for Admin (see wiki for pairing criteria)

You can refine the list below by searching by line ID, line site name, line description, flight ID, or SOFRS ID (flight request).

SanAnd_05002

1 flight line found

Jet Propulsion Laboratory
California Institute of Technology

<< Back to My Account

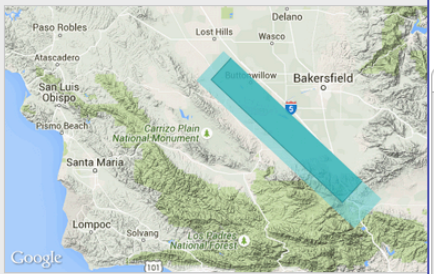
Product: CValle_13300_03

Coregistered SLC (Single Look Complex data) Stack of Central Valley, CA

Other versions: Version 2 (9 Scenes), Version 1 (9 Scenes)

Download Related Data **HH Previews** HV Previews VH Previews VV Previews Stack Plots Amplitudes

Data format documentation for SLC stack products



1. Select a pixel spacing (1x1 is 1.67 m slant range x 0.6 m across track)
 2. Select a segment. Click links to download individual files
- Doppler Centroid vs Slant Range file (view)

HH Amplitude

Click an image to see a larger version.

Apr 2, 2015
Track 1

Segment 1

Lat/Lon/Height (download 465MB)

Look Vector (download 465MB)

Tracks:

HH: 1x1 (download)

HH Annotation

Segment 2

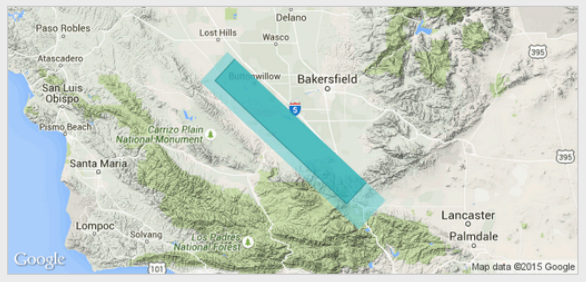
Product: CValle_13300_03

Coregistered SLC (Single Look Complex data) Stack of Central Valley, CA

Other versions: Version 2 (9 Scenes), Version 1 (9 Scenes)

Download Related Data **HH Previews** HV Previews VH Previews VV Previews Stack Plots Amplitudes

If any UAVSAR imagery does not load correctly below, please try refreshing the page.



2Apr14 / 15May14 15May14 / 16Jun14 16Jun14 / 14Aug14 14Aug14 / 6Oct14 6Oct14 / 13Nov14

Track 1 & 2 Track 2 & 3 Track 3 & 4 Track 4 & 5 Track 5 & 6

HH Interferogram (show legend)

view larger view larger view larger view larger view larger

Choice 1 Released (corrected)

Choice 2 (uncorrected)

None

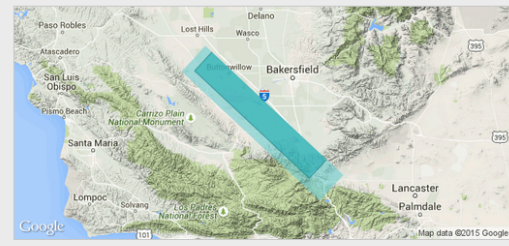
Product: CValle_13300_03

Coregistered SLC (Single Look Complex data) Stack of Central Valley, CA

Other versions: Version 2 (9 Scenes), Version 1 (9 Scenes)

Download Related Data HH Previews **HV Previews** VH Previews VV Previews Stack Plots Amplitudes

If any UAVSAR imagery does not load correctly below, please try refreshing the page.



2Apr14 / 15May14 15May14 / 16Jun14 16Jun14 / 14Aug14 14Aug14 / 6Oct14 6Oct14 / 13Nov14 13Nov14 / 7Jan15 7Jan15 / 27Apr15 27Apr15 / 16May15

Track 1 & 2 Track 2 & 3 Track 3 & 4 Track 4 & 5 Track 5 & 6 Track 6 & 7 Track 7 & 8 Track 8 & 9

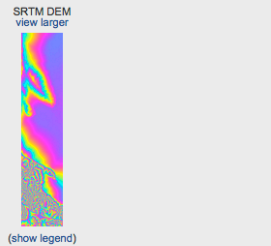
HV Interferogram (show legend)

view larger view larger view larger view larger view larger view larger view larger view larger

Choice 1 Released (corrected)

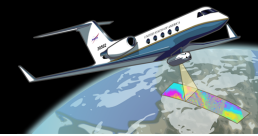
Choice 2 (uncorrected)

None





New Endeavors



- New UAVSAR data search page
 - Two panel view that simultaneously shows map and product list
 - KML image loads directly on Google Map
 - Product search by date range
 - Full product list available while searching
 - Products color coded by band
 - Plus more!
- Further improvements in residual baseline correction
- Non-PI processing request process



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UAVSAR Home

yzheng - Logout

UAVSAR Data Search

Find (line name, line description, flight ID, or SOFRS flight request ID)

Date range: Tue, 1 Jan 2008 to Mon, 14 Sep 2015

Processing modes: PolSAR, InSAR Pair, InSAR Browse, SLC Stack

Band: L-band, P-band, Ka-band

Lat: 39.2546 Lng: -120.6409

12,253 products from 1,061 flight lines found

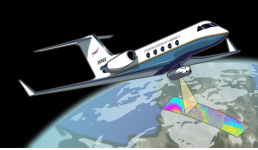
SanAnd_05514 (32) - San Andreas Fault - North, CA
SanAnd_05516 (36) - San Andreas Fault - North, CA
SanAnd_05518 (45) - San Andreas Fault - North, CA

PolSAR: 2014-10-22, DT 4 [download page]
PolSAR: 2014-10-22, DT 4 [download page]
PolSAR: 2014-08-29, DT 9 [download page]
PolSAR: 2014-05-29, DT 11 [download page]
PolSAR: 2013-10-31, DT 2 [download page]
PolSAR: 2013-05-08, DT 9 [download page]
PolSAR: 2012-11-05, DT 8 [download page]
PolSAR: 2012-04-19, DT 0 [download page]
PolSAR: 2012-04-19, DT 0 [download page]
PolSAR: 2011-11-08, DT 0 [download page]
PolSAR: 2011-07-13, DT 0 [download page]
PolSAR: 2010-10-28, DT 2 [download page]
PolSAR: 2010-07-08, DT 9 [download page]
PolSAR: 2009-11-17, DT 2 [download page]
PolSAR: 2009-02-18, DT 3 [download page]
Pair: 2010-07-08, DT 3 & 2011-07-13, DT 0 [download page]
Pair: 2012-04-19, DT 3 & 2013-05-08, DT 9 [download page]
Pair: 2009-02-18, DT 3 & 2009-11-17, DT 2 [download page]
Pair: 2012-11-05, DT 3 & 2013-10-31, DT 2 [download page]
Pair: 2011-07-13, DT 3 & 2012-04-19, DT 0 [download page]
Pair: 2010-10-28, DT 3 & 2011-11-08, DT 0 [download page]
Pair: 2011-11-08, DT 3 & 2012-11-05, DT 8 [download page]
Pair: 2013-10-31, DT 3 & 2014-08-29, DT 9 [download page]
Pair: 2014-08-29, DT 3 & 2014-10-22, DT 4 [download page]
Pair: 2013-10-31, DT 3 & 2014-10-22, DT 4 [download page]
Pair: 2014-05-29, DT 3 & 2014-10-22, DT 4 [download page]
Pair: 2013-05-08, DT 3 & 2014-05-29, DT 11 [download page]
Pair: 2013-10-31, DT 3 & 2014-05-29, DT 11 [download page]
Pair: 2014-05-29, DT 3 & 2014-08-29, DT 9 [download page]
Pair: 2009-11-17, DT 3 & 2010-10-28, DT 2 [download page]
Pair: 2011-11-08, DT 3 & 2012-04-19, DT 0 [download page]
Pair: 2010-07-08, DT 3 & 2010-10-28, DT 2 [download page]
Browse: 2014-08-29, DT 3 & 2014-10-22, DT 4 [download page]
Browse: 2014-05-29, DT 3 & 2014-08-29, DT 9 [download page]
Browse: 2013-10-31, DT 3 & 2014-05-29, DT 11 [download page]
Browse: 2009-11-17, DT 3 & 2010-07-08, DT 9 [download page]
Browse: 2009-02-18, DT 3 & 2009-11-17, DT 2 [download page]
Browse: 2012-11-05, DT 3 & 2013-05-08, DT 9 [download page]
Browse: 2012-04-19, DT 3 & 2012-11-05, DT 8 [download page]
Browse: 2013-05-08, DT 3 & 2013-10-31, DT 2 [download page]
Browse: 2010-07-08, DT 3 & 2010-10-28, DT 2 [download page]
Browse: 2010-10-28, DT 3 & 2011-07-13, DT 0 [download page]
Browse: 2011-07-13, DT 3 & 2011-11-08, DT 0 [download page]
Browse: 2011-11-08, DT 3 & 2012-04-19, DT 0 [download page]
Stack: 2009-02-18 to 2014-10-22, 13 scenes [download page]

SanAnd_07503 (18) - San Andreas Fault - LA Basin, CA
SanAnd_08503 (37) - San Andreas Fault - Salton Trough, CA
SanAnd_08504 (48) - San Andreas Fault - Salton Trough, CA



Science Product Delivery Status

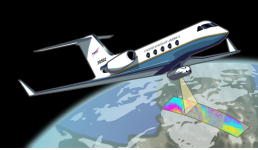


Product Type	Total Products Delivered	FY15 Products Delivered	FY15 Processing Latency (days)
PolSAR	5,027	906	23
InSAR Browse	3,432	435	20
InSAR Pair	1,940	852	15
SLC Stack	143	135	47

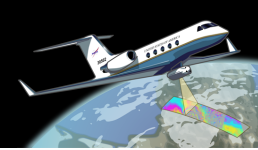
- *Processing latency for InSAR browse and SLC stack products decreased significantly from FY14*
- *SLC Stack demand and processing increased significantly in FY15*



Summary



- FY15 data delivery numbers remain very high due to further efforts to increase automation and data flow efficiency
- Implemented custom processing request features to give PIs more flexibility in processing to improve data quality and reduce unnecessary data volume for download and archive
- Focused mainly on SLC stack processing improvements due to major increased demand and unique features of stack products



Thank You!