



UAVSAR Workshop Agenda March 26th and 27th, 2013
 Location NASA's Jet Propulsion Laboratory
 Pasadena, CA
 180-101

Day 1 Morning

(coffee, tea, doughnuts, and bagels provided for registered attendees only)

8:30 am	Welcome Diane Evans, Craig Dobson
8:45 am	Introduction Instrument Status Yunling Lou (30 min.) Processing Status Scott Hensley (60 min.) Alexander Fore (20 min.) UAVSAR Polarimetric Calibration Data Archive & Distribution Tom Logan (20 min.) UAVSAR Support at the Alaska Satellite Facility
11:10 am – 12:30 pm	Hydrology -Soil Moisture Sab Kim Studies of surface-layer soil moisture using time-series L-band UAVSAR data Mahta Moghaddam (20 min.) AIRMOSS Mission Overview Sermsak Jaruwatanadilok AirMOSS soil moisture retrieval: From forest to backscatter to soil moisture Cryosphere and Oceanography Delwyn Moller (30 min.) The Glacier and Ice Surface Topography Interferometer: UAVSARs Single-pass Ka-Band Interferometer Applications -Archaeology Doug Comer (20 min.) Archaeological Site and Landscape Detection with SAR
12:30 – 1:30 pm	Lunch Break



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Day 1 Afternoon

1:30 pm	<p>Crustal Deformation</p> <p>-Earthquake</p> <p style="padding-left: 20px;">Jay Parker (20 min.) Integrating UAVSAR deformation data with faults and mapping elements through a GIS database server</p> <p style="padding-left: 20px;">Eric Fielding (20 min.) UAVSAR studies of landslides and tectonics in California and Colorado</p> <p style="padding-left: 20px;">Zhen Liu (20 min.) Imaging fault slip variation along the central San Andreas fault</p> <p style="padding-left: 20px;">Ken Hudnut El Mayor – Cucapah 2010 earthquake (M 7.2) UAVSAR (north of US-MX border) and a glimpse of the future</p> <p>-Volcano</p> <p style="padding-left: 20px;">Paul Lundgren (30 min.) Application of UAVSAR to active volcanoes</p> <p style="padding-left: 20px;">Shoichiro Kojima (20 min.) Preliminary observation of the active volcano Mt. Aso by Pi-SAR2 for simultaneous observation by UAVSAR and Pi-SAR2</p> <p>-Landslides</p> <p style="padding-left: 20px;">Joel Scheingross (20 min.) Fault-zone controls on the spatial distribution of slow-moving landslides</p> <p style="padding-left: 20px;">Steve Nelson (20 min.) UAVSAR studies of earthquake-related surface deformation in the Colorado River estuary</p> <p style="padding-left: 20px;">Julien Cohen-Waeber (20 min.) InSAR and GPS Study of Slow Moving Landslides in the Berkeley Hills</p>
5:00 pm	<p>Adjourn</p> <p>6:30 Social Dinner Old Town Pasadena Yard House Paseo Mall</p>



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Day 2 Morning

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8:30 am – 9:30 am	Future Directions and Potential Collaborations
9:45 am – 12:30 pm	<p>Applications</p> <ul style="list-style-type: none"> -Levees and Dams <ul style="list-style-type: none"> Cathleen Jones (20 min.) Application of UAVSAR to Levee and Dam Monitoring Sang Ho Yun (20 min.) InSAR Time Series Analysis of Sacramento-San Joaquin River Delta -Coastal Deformation <ul style="list-style-type: none"> Ron Blom (20 min.) Integration of Geodesy, Geophysical Modeling, and Interferometric Synthetic Aperture Radar Observations Cathleen Jones (20 min.) The UAVSAR Gulf Oil Spill Campaign: 2010-2012 Brent Minchew (20 min.) Near realtime estimates of the mixing of oil and seawater using polarimetric synthetic aperture radar -Subsidence <ul style="list-style-type: none"> Brian Conway (20 min.) Arizona Department of Water Resources Land Subsidence Monitoring Program Using Interferometric Synthetic Aperture Radar (InSAR) in Cochise County, Southeastern Arizona -Rapid Response <ul style="list-style-type: none"> Ken Hudnut UAVSAR can beat satellites for rapid response. However... 1) What obstacles exist? 2) How can these be avoided in a real event? 3) What are rapid response operational priorities, and can areas of interest and mission objectives be effectively pre-scripted? 4) Will emergency managers use UAVSAR damage mapping capabilities?
12:30 pm – 1:30 pm	LUNCH BREAK



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Day 2 Afternoon

1:30 pm – 3:30 pm	<p>Terrestrial Ecology</p> <p>Marc Simard (20 min.) Estimation of Canopy Height using UAVSAR Data in the Réserve Faunique des Laurentides and Penobscott Forests</p> <p>Paul Siqueira (20 min.) Applications of UAVSAR for characterizing above-ground vegetation in the northeastern United States</p> <p>Maxim Neumann (20 min.) Forest Structure Characterization using UAVSAR PolInSAR and Tomography</p> <p>Marco Lavallo (20 min.) Ecological applications with repeat-pass Pol-InSAR</p> <p>Razi Ahmed (20 min.) Analyzing the relationship between radar backscatter and forest biomass through UAVSAR observations</p> <p>Anu Swatantranor via webex (20 min.) Mapping migratory bird prevalence using remote sensing data fusion</p>
3:30 pm – 5:00 pm	<p>Cryosphere and Oceanography</p> <p>Brent Minchew – Iceland (20 min.) Inferring the surface velocity fields of glaciers in central Iceland using UAVSAR repeat-pass interferometry</p> <p>Albert Chen – Greenland (20 min.) UAVSAR Greenland Data: Inferring Accumulation Rates and Comparing with ALOS data</p> <p>Ben Holt Sampling Small Eddies and Fronts with Boats and Planes: Trials, Tribulations and Success</p>
5:00 pm	Adjourn