



1st Annual ASO Workshop
 Agenda (Tentative – June 12 2016)
 28-30 June 2016

Beckman Auditorium, California Institute of Technology, Pasadena, CA

DAY 1, AIRBORNE SNOW OBSERVATORY WORKSHOP

Registration	8:30-9:00		Beckman Auditorium
Introductions	9:00-9:10	Thomas Painter	<i>JPL</i>
	9:10-9:20	Diane Evans	<i>JPL</i>
	9:20-9:30	Jared Entin	<i>NASA HQ</i>
	9:30-9:40	Frank Gehrke	<i>CA DWR</i>
	9:40-10:00	Gary Bardini	<i>CA DWR</i>
ASO Overview	10:00-10:15	Thomas Painter	<i>Science overview of the NASA Airborne Snow Observatory</i>
	10:15-10:30	Jeff Deems	<i>Airborne Snow Observatory: Lidar system</i>
	10:30-10:45		<i>BREAK</i>
	10:45-11:00	S. McKenzie Skiles	<i>ASO Imaging Spectroscopy of Snow Albedo, Grain Size, and Radiative Forcing by Impurities</i>
	11:00-11:15	Paul Ramirez	<i>ASO computing</i>
	11:15-11:30	Danny Marks	<i>ASO density modeling and USDA ARS</i>

ASO Science	11:30-11:45	Kat Bormann	<i>Density assimilation in ASO</i>
	11:45-12:00	Andrew Hedrick	<i>Near-Weekly Assimilation of Lidar Derived Snow Depths into a Physics-Based Snowmelt Model - A Multiyear Hydrological Analysis</i>
	12:00-1:15		<i>LUNCH</i>
	1:15-1:30	Jessica Lundquist	<i>Comparison of high-elevation ASO snow water equivalent and distributed streamflow observations</i>
	1:30-1:45	David Gochis	<i>Using ASO-derived snowpack estimates for model validation and assimilation in Upper Rio Grande water supply forecasts.</i>
	1:45-2:00	Jeff Dozier	<i>Validating Snow Water Equivalent Reconstruction in California's Sierra Nevada Using Measurements from the NASA Airborne Snow Observatory</i>
	2:00-2:15	TBD	<i>TBD</i>
	2:15-2:30	Ty Brandt	<i>Snowfall's Footprints: Using the Airborne Snow Observatory to quantify spatial patterns of precipitation in the central Sierra Nevada</i>
	2:30-2:45	Dominik Schneider	<i>Exploring the effect of terrain roughness on the relationship between fSCA and snowdepth</i>
	2:45-3:00	Delwyn Moller	<i>Snow depth retrievals from Ka-band interferometry (GLISTIN-A): A proof of concept experiment</i>
ASO Applications	3:00-3:30		<i>BREAK</i>
	3:30-3:45	Chris Graham	<i>ASO in the Tuolumne River Basin: Forecasting streamflows using basin wide snow water estimates</i>
	3:45-4:00	David Rizzardo	<i>Directions forward for California Department of Water Resources snowmelt modeling</i>
	4:00-4:15	Joe Busto	<i>Colorado Water Conservation Board directions forward</i>
	4:15-4:30	Kevin Richards	<i>TITLE TBD</i>
	4:30-4:45	Frank Gehrke	<i>Managing Southern Sierra Reservoirs in Drought and Flood</i>
	4:45-5:00	Scott Havens	<i>Developing and transitioning research tools for operational applications</i>
	5:00-5:15	Greg Stock	<i>Yosemite glaciers</i>

DAY 2, AIRBORNE SNOW OBSERVATORY WORKSHOP

ASO ecosystem applications	9:00-9:30	<i>Discussion based on previous day's talks</i>	
	9:30-9:45	David Schimel	<i>Deconstructing California megafires using ASO lidar and spectroscopy</i>
	9:45-10:00	Natasha Stavros	<i>Forest management data products from ASO</i>
	10:00-10:15	Natani Ilangakoon	<i>Full waveform lidar processing of ecosystem structure in the western U.S.</i>
	10:15-10:30	Dan Berisford	<i>Europa landing site analog: Lidar surveys of Devil's Golf Course as a pathological case for the surface morphology of Europa</i>
	10:30-10:45	BREAK	
	10:45-12:00	DISCUSSION	<i>SCIENCE TO APPLICATIONS: How can ASO best be implemented to facilitate synergies of science and applications as implementation grows?</i>
	12:00-1:30	LUNCH	
	1:30-3:00	DISCUSSION	<i>APPLICATIONS IN WATER AND ECOSYSTEM MANAGEMENT: How can ASO be best used to serve regional water management programs?</i>
	1:30-3:00	DISCUSSION	<i>NASA EARTH SCIENCE: How can the ASO program be optimized to support cryosphere, water cycling, water-carbon cycling, and ecosystem science?</i>
	3:00-3:20	BREAK	
3:20-5:00	DISCUSSION	<i>PROGRAMS, SCIENCE, AND APPLICATIONS: How can ASO best be implemented to facilitate synergies of science and applications as implementation grows?</i>	

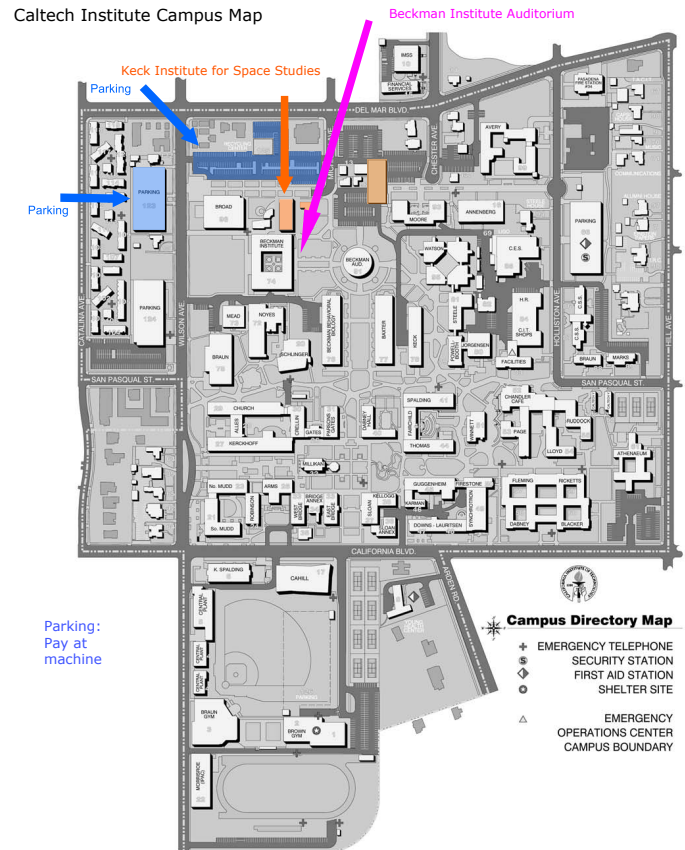
DAY 3, AIRBORNE SNOW OBSERVATORY WORKSHOP

Summary sessions	9:00-12:00	<i>Scientists and managers together</i>	Presentation of breakout groups
	10:15-10:30		<i>BREAK</i>
	10:30-Noon	<i>Scientists and managers together</i>	Discussion and preparation for writing of white papers.
	Noon		CLOSE

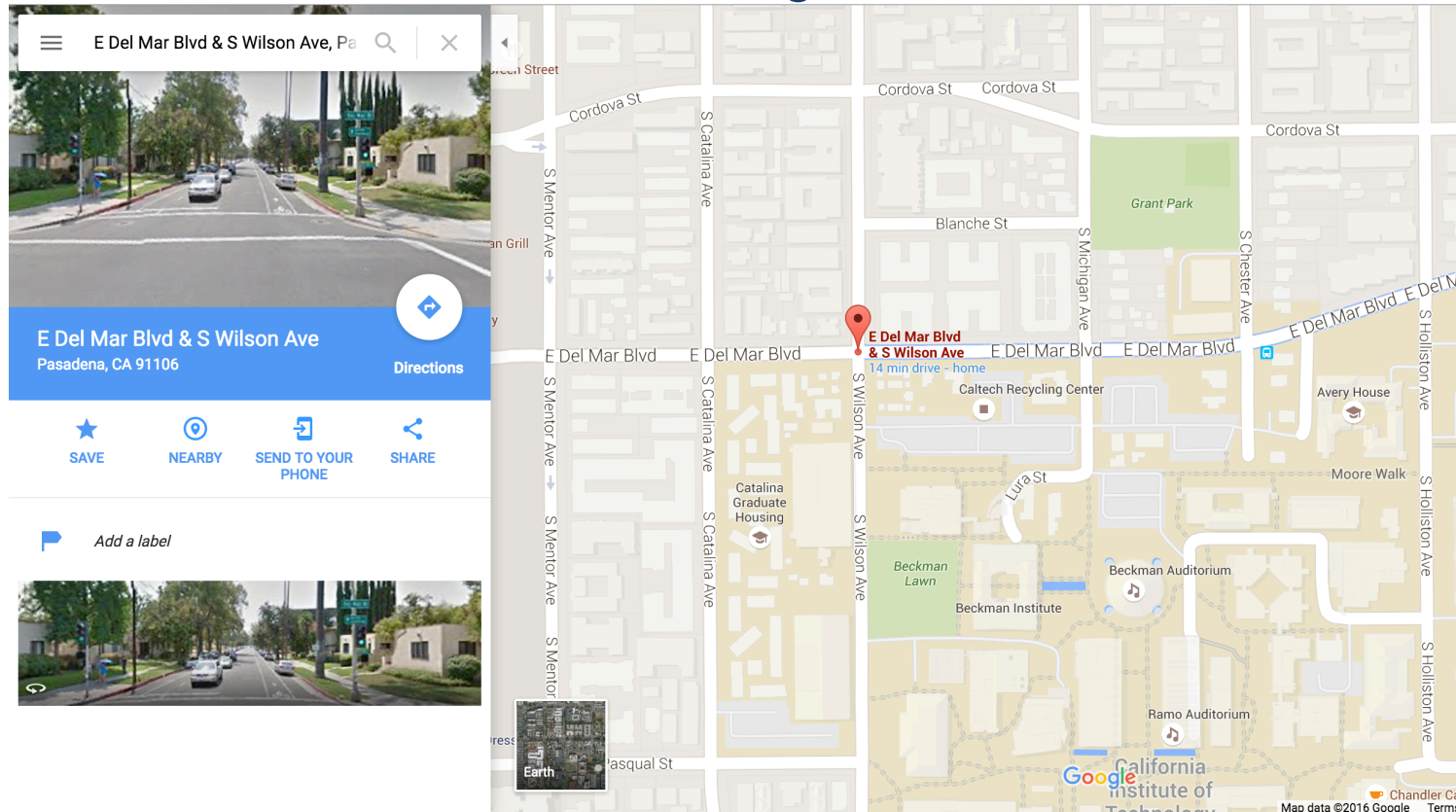
Logistics:

The ASO Workshop will be held at the Beckman Auditorium, California Institute of Technology on 28-30 June, 2016.

Directions to Beckman Auditorium – this figure shows the Beckman Institute Auditorium on campus. The next page shows the directions to the nearest Caltech parking structure:



Parking



<https://www.google.com/maps/place/E+Del+Mar+Blvd+%26+S+Wilson+Ave,+Pasadena,+CA+91106/@34.1405162,-118.1280062,17z/data=!4m5!3m4!1s0x80c2c359174dd0bd:0x8aacfa012ee428c0!8m2!3d34.1409536!4d-118.1280159>

Contact phone numbers:

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