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

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

DAY 2, AIRBORNE SNOW OBSERVATORY WORKSHOP

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

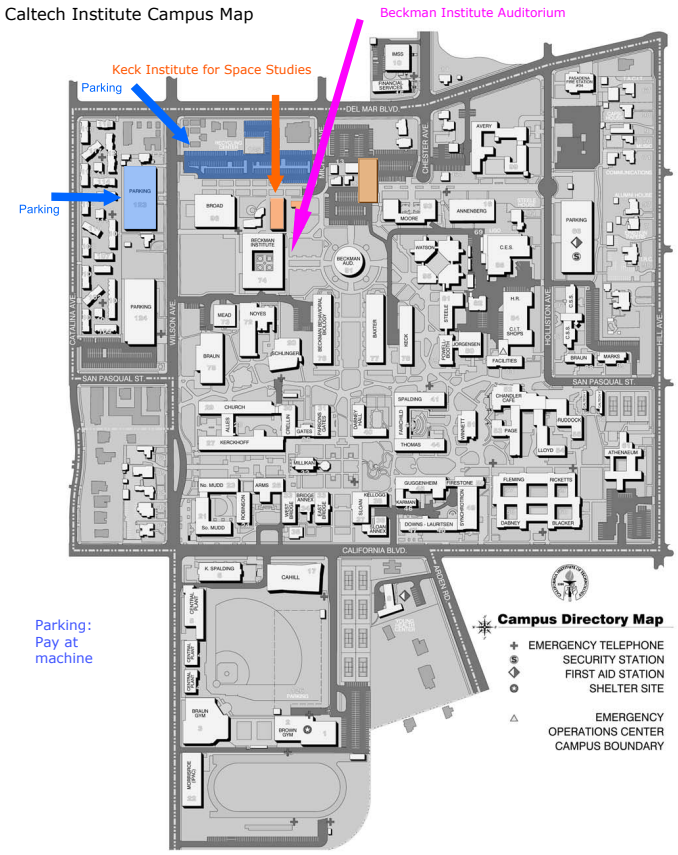
DAY 3, AIRBORNE SNOW OBSERVATORY WORKSHOP

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

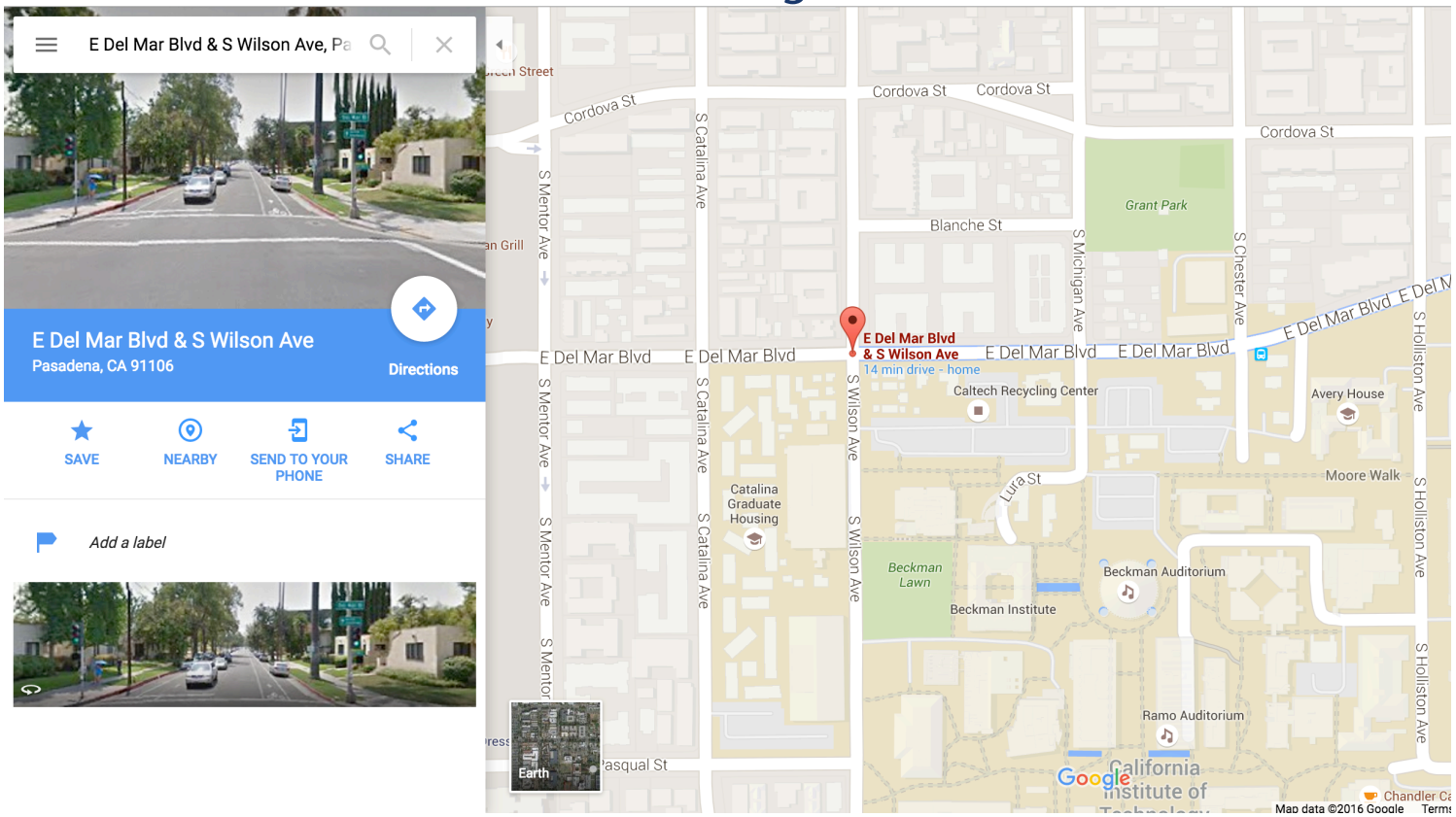
Logistics:

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



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Contact phone numbers:
In case you run into any issues, please call any of the following people –

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