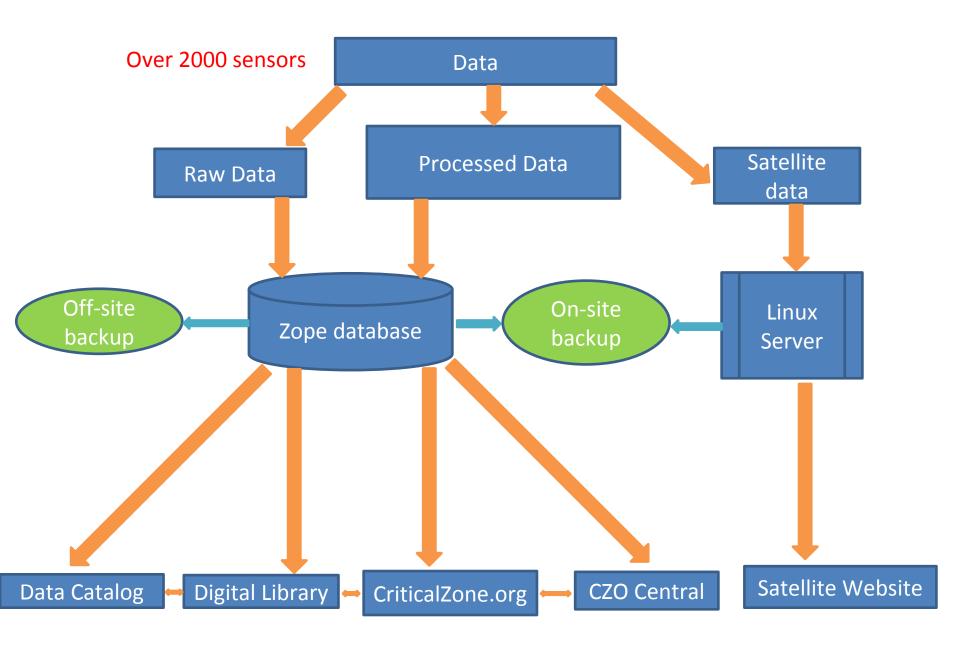
SSCZO Data Management

Data Management Infrastructure



SSCZO Digital Library

https://eng.ucmerced.edu/snsjho/files/MHWG/Field/Southern Sierra CZO KREW

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Metadata and Tools

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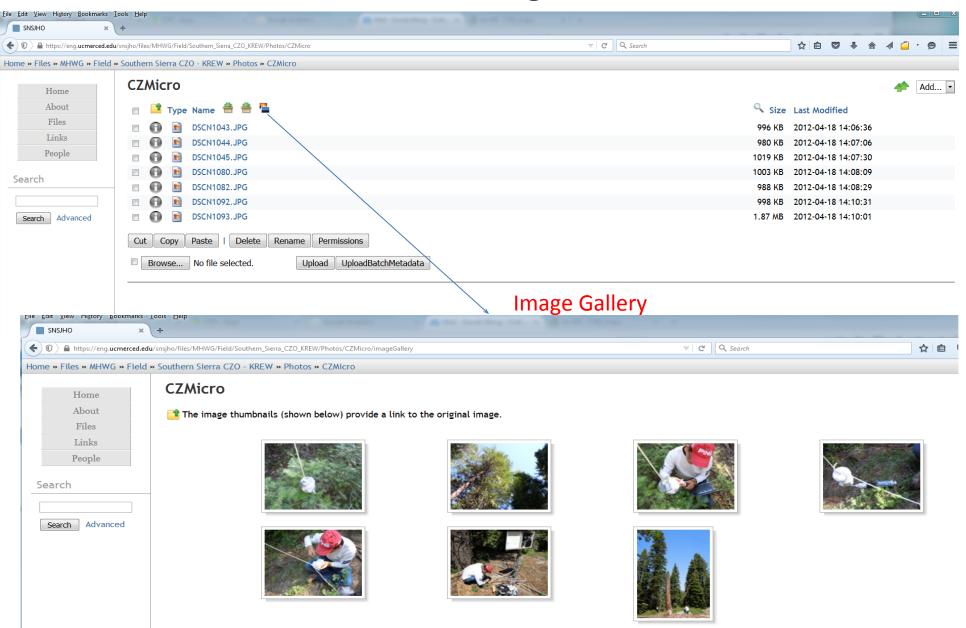
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Data Catalog

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	Southern Sierra Critical Zone Observatory (CZO)							*
	Data Overview							
	Data Levels							
	Public access data: "Level 1" is formatted with noise removed. "Level 2" is gap filled, also averaged (hourly, daily). Some "Level 0" (raw) data are also available.							
	Private access data: Requires a login to access other data. For more information, email our data manager.							
	A document defining data levels in more detail is available here.							
	Time Series data							
	CZO water-balance instrument-cluster data are available in the Sierra Nevada San Joaquin Hydrologic Observatory (SNSJHO) <u>digital library</u> . Direct link: <u>field data</u>							
	Note: Some data in the Digital Library are public and some are available to those with a registered username/password. Please <u>register</u> first in order to have access to the password-protected data.							
	Digital Library overview, Sept 2007							
	Samples of snow depth & soil moisture data: UpMetN Open							
	Selected KREW discharge & meteorological data are available through the USFS: <u>HydroDB</u>							
	Spatial data							
	The CZO is located in the Sierra National Forest, which maintains many spatial data layers. See SNF's 2007 <u>data</u> <u>dictionary</u>	ata						
	Note that the CZO is part of the King's River Experimental Watersheds (KREW), which lies within the larger King's River Project (KRP). More detailed data layers are available for KRP vegetation and soils, and some other forest attributes. See 2003 KRP <u>data dictionary</u>	er						=
	CZO watershed boundaries: Arc GIS 9 zip file same for Bull SJER							
	Metadata							
	Metadata for the Southern Sierra CZO are in the Digital Library, along with the data.							
	The 3 CZO's are moving toward a common metadata standard. Following are some background documents.							
	Link to LTER EML metadata info <u>NWT metadata</u>							
	Other background information							
	Southern Sierra CZO draft publication & data policy							
	Data-model integration papers from Chris Duffy: <u>1.</u> Shared Data Model to Support Environment Sensor Network Data in Hydrologic Models <u>2.</u> Bridging the Gap between Geohydrologic Data and Distributed Hydrologic Modeling <u>3.</u> An Object Oriented Shared Data Model for GIS and Distributed Hydrologic Models							
	analysis0405							
	Planning							
	Dec 2008: Maidment Ppointe notes (Winword) data summary (Winword)							
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Photos/Images



Data Recovery and Backup

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This application's transactional feature allows you to easily undo changes made to the application's settings or data. You can revert the application to a "snapshot" of its state at a previous point in time.

Select one or more transactions below and then click on the "Undo" button to undo those transactions. Note that even though a transaction is shown below, you may not be able to undo it if later transactions modified objects that were modified by a selected transaction.

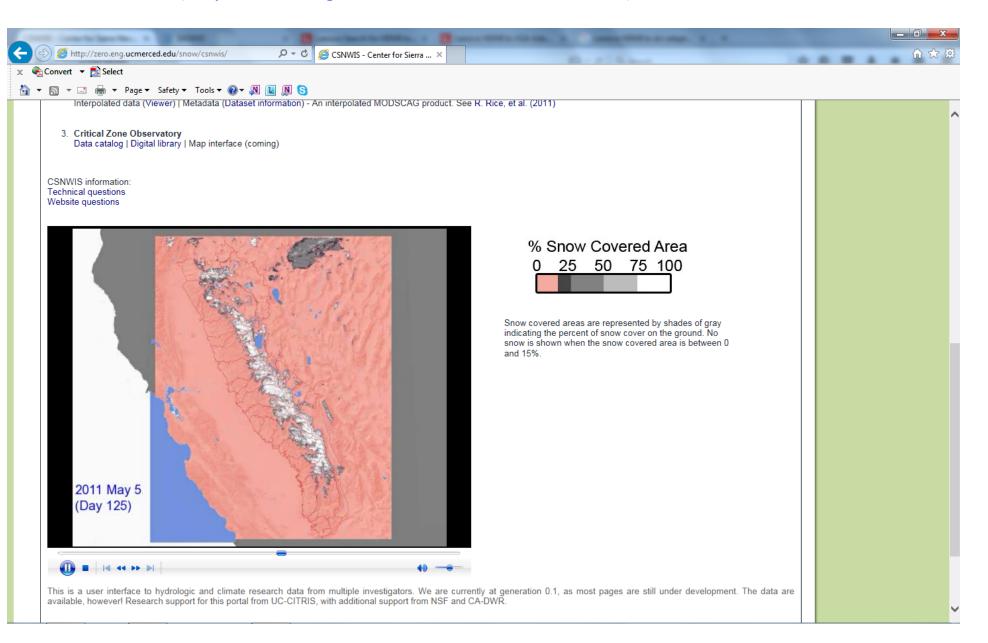
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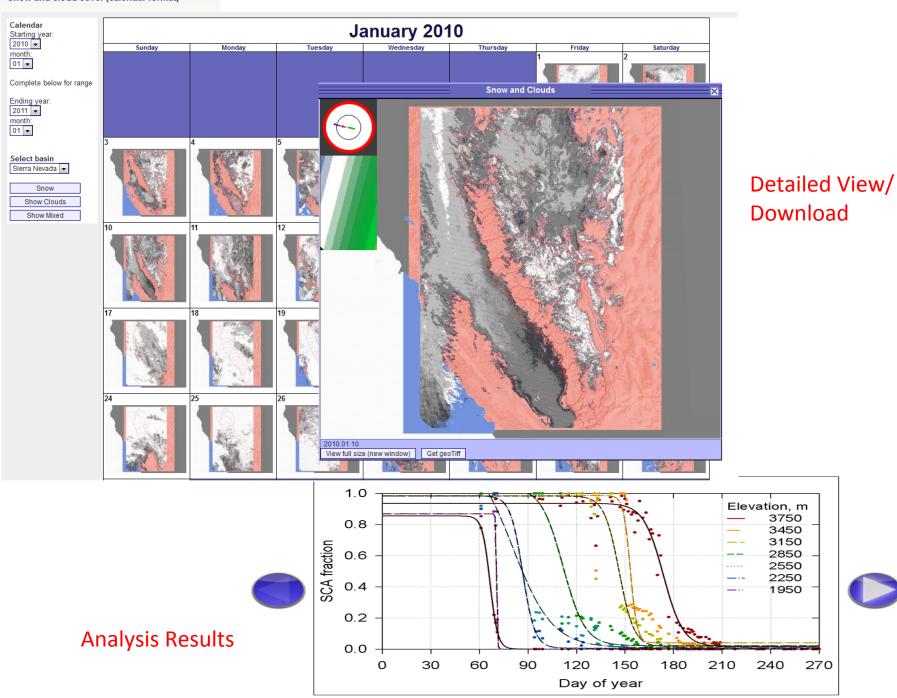
Undo

Hourly, daily, weekly and monthly on-site backup and daily off-site backup with SDSC

Satellite Data System

(http://zero.eng.ucmerced.edu/snow/csnwis/)





Snow and cloud cover (calendar format)

Data Types from SSCZO

•text/csv, spreadsheets, binary files (climate, soil, sap flow, stream flow and etc.)

•spatial layers (DEM, boundaries and sensor location)

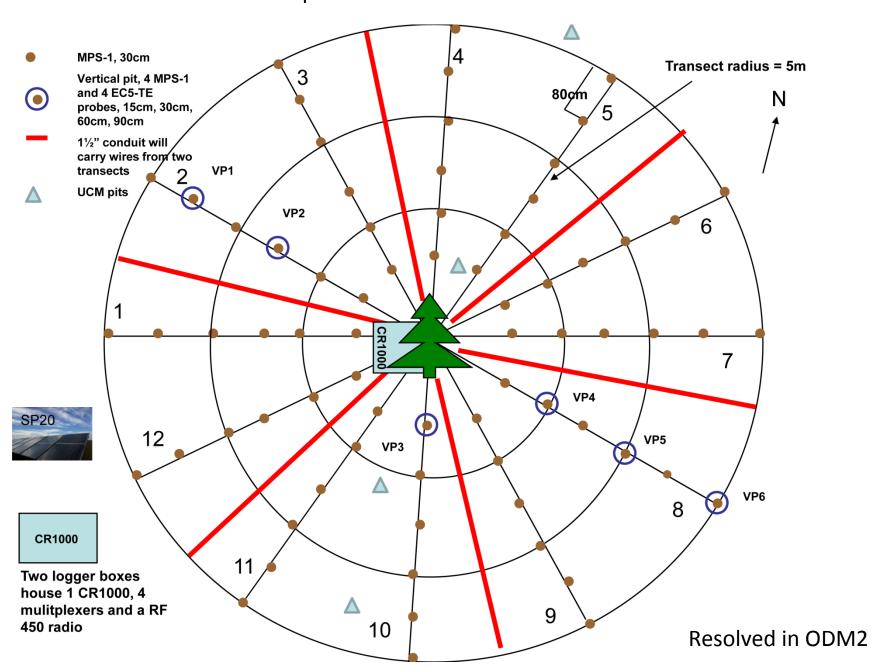
•images/photos (satellite data and photos)

model results (RHESSys)

•video files

•reports and software/programs for data collection and processing

• Total about 30GB yearly, plus satellite images



Some problems with ODM database harvest

Help find right terms for the highlighted variables from CZO controlled vocabularies

Header	Decription with units	Range typical min	Range typical max
'TIME'	date	1-Jan-06	
'USTAR'	Friction velocity (m/s)	-0.2	
'WDIR'	Wind Direction (degrees)	0	3
'WSPD'	Wind Speed (m/s)	0	
'T_HMP'	Air temperature, actual (C)	-30	
TSONIC'	Sonic Temperature (°C)	-30	
'TACTUAL'	Sonic temperature adjusted for water content (K)	243	3
'RAIN'	Total per 30 minutes (mm)	0	
'RH'	Relative Humidity (fraction)	0	
'H2O HMP'	Water Vapor Concentration Measured by Relative Humidity Probe	0	
'PAR IN'	micromol photons /m2 /s	-50	
'PAR OUT'	micromol photons /m2 /s	-50	10
'SOLAR IN'	Solar Radiation Incoming (W/m2)	-30	
'SOLAR OUT'	Solar Radiation Reflected (W/m2)	-30	
'RNET	Radiation, net(W/m2)	-300	
'G'	Ground heat flux (W/m2)	-200	
SENSIBLE HEAT	Sensible heat flux(W/m2)	-400	
LATENT HEAT	Latent Heat Flux(W/m2)	-600	
'CO2_FLUX'	micromol CO2 /m2/s	-40	
'H2O FLUX'	millimol H2O / m2/s	-15	
'NDVI'	Normalized Difference Vegetation Index	0	
T Soil Surface'	Soil surface temperature (C)	-10	
'Soil Moisture 1'	Soil Moisture in top 30 cm (m3 water/m3 soil)	0	
'Soil Moisture 2'	Soil Moisture in top 30 cm (m3 water/m3 soil)	0	
Soil Moisture 3	Soil Moisture in top 30 cm (m3 water/m3 soil)	0	
'Soil_Moisture_3	Soil Moisture in top 30 cm (m3 water/m3 soil)	0	
StartT 5cm	Initial Temperature (before heating) Soil Matric Potential Sensor at 5 cm Depth (C)	-10	
'StartT_10cm'	Initial Temperature (before heating) Soil Matric Potential Sensor at 5 Chi Depth (C)	-10	
Start 25cm	Initial Temperature (before heating) Soil Matric Potential Sensor at 25 cm Depth (C)	-10	
'StartT_50cm'	Initial Temperature (before heating) Soil Matric Potential Sensor at 25 cm Depth (C)	-10	
StartT_50cm	Initial Temperature (before heating) Soil Matric Potential Sensol at 50 cm Depth (C)	-10	
Start 200cm			
	Initial Temperature (before heating) Soil Matric Potential Sensor at 200 cm Depth (C)	-10	
'DelT_5cm' 'DelT_10cm'	Temperature Change of Soil Matric Potential Sensor at 5 cm Depth (C)	0	
	Temperature Change of Soil Matric Potential Sensor at 10 cm Depth (C)	0	
'DelT_25cm'	Temperature Change of Soil Matric Potential Sensor at 25 cm Depth (C)	0	
'DelT_50cm'	Temperature Change of Soil Matric Potential Sensor at 50 cm Depth (C)	0	
'DelT_100cm'	Temperature Change of Soil Matric Potential Sensor at 100 cm Depth (C)	0	
'DelT_200cm'	Temperature Change of Soil Matric Potential Sensor at 200 cm Depth (C)	0	
'USTAR_SOURCE_FLAG'	Diagnostic	1	
'SENSIBLE_HEAT_SOURCE_FLAG'	Diagnostic	1	
'LATENT_HEAT_SOURCE_FLAG'	Diagnostic	1	
'CO2_FLUX_SOURCE_FLAG'	Diagnostic	1	

Questions

- 1. How can CZOData team help publish datasets to public archival data centers with DOI? The same type of data from all CZOs better goes to the same data center, and the YODA-file format should meet the data center needs.
- 2. what, where and how to publish level 1, level 2 data and the same level with different versions? (need cross-czo recommendations)
- 3. All CZOs should follow the same data level standard for the publications. Can CZOData team make the data level definitions for CZOs?
- 4. Preferred portals for data publications with some notes (not just a list), and need a sustainable archive and guidance on how to package the data, how big of a package (5 years, all data to date, etc.), how to add data? Should we publish one year at a time, by topic (all water balance together, e.g.)?
- 5. To improving access need acompact data catalog with links into digital library, also compact cross-czo searcher-friendly instead of programmer friendly one page catalog versus 20 page catalog.
- 6. Is there a way to organize photos, videos, publications through the data archive so one can view all photo albums at once like flicker? Same for all videos and talks? this is an issue for the data servers and web-based organization

Questions (Cont.)

- 7. How can we update the metadata which has been already harvested into the central CZO database (ODM1/ODM2)? (E.g., we got more accurate locations (lat/lon) of some sensors, how can we overwrite the old data with the more accurate data in the central CZO database?)
- 8. How can we provide an open access link to papers as well as the journal link?
- 9. are data sets associated with model inputs and outputs being archived/shared through the CZO system? E.g. RHESSys
- 10. Can the current data systems handle bioinformatical data (DNA/RNA sequence information) from microorganisms?