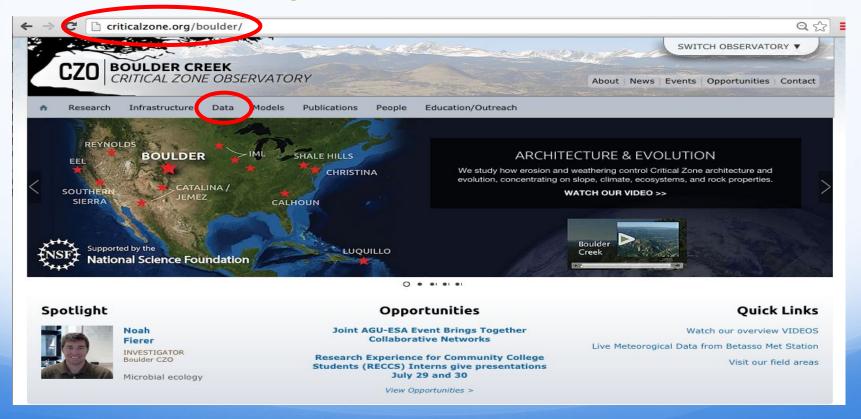
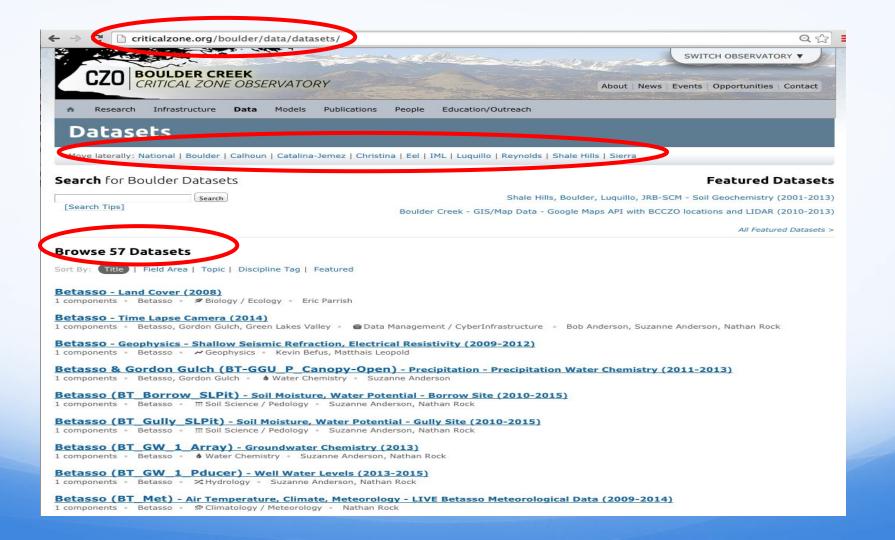
Boulder Creek CZO Data Management

10/15/2015

Where is your BCCZO Data?





Reminders

- As BCCZO Data Manager, my goal is to help you make sure data set file formats and meta data are compliant in following the NSF standards for data submission.
 - Data Sharing Policy
 - Share data with CZO data manager (privately) within 1 year
 - Release that data to the public within 2 years
 - You can submit a request for extension of submission but not beyond 3 years
 - Consult with creators of private CZO datasets prior to use
 - Data Use Policy
 - Use data freely except those labeled Private.
 - Give proper acknowledgement
 - Inform the CZO how the data will be used
 - Both Data Use and Data Sharing Policies are posted on every data set's web page

Requirements

- In transition...
 - In the past all data was required to be submitted in comma separated value (.csv) format with accompanying meta data file in text (.txt) format.
 - Currently the meta data files are being converted to .csv and .xml files in accordance with ISO-19115 Geographic Metadata standards.
 - How to submit data?
 - Meta data template: http://criticalzone.org/boulder/data

Get your BcCZO or BcCZO partner research data published here.

Please fill out our BcCZO data submission form and contact our data manager Jeri Fey Send Mail

BcCZO Data Submission Spreadsheet

• Email: BCCZOData@colorado.edu

Example Meta Data File

	A	В	C	D	E	F	G	Н	1	J	K L				
1			Roulder		Observatory	DATA SURN									
700		Boulder Critical Zone Observatory DATA SUBMISSION FORM													
2	MOTE B. C. L. C.							CIC I .							
	NOTE: Data Submission in a spread sheet is pre	ererrea, comma-dell	mited text file with c	olumn neader is also	acceptable unless there	e is an explicit need t	or another format i.	e GIS data.							
4	*REQUIRED INFORMATION														
	DATACET COFATORS (AUTHORS)				2	Yes				1					
6	DATASET CREATORS/AUTHORS*		1		2		3		4		5				
	INVESTIGATOR(S)*														
	EMAIL*														
	PHONE NUMBER ORGANIZATION														
	ADDRESS (If different from BcCZO Main office					V-									
	LINE 1			-											
	LINE 2			-				<u> </u>							
14	LINE Z														
	DATASET DOI?														
	DOI:#	k.													
17	DOI.W														
11	1														
18	AWARD/GRANT NUMBER(S)	*AWARD/GRANT NUMBER *FUNDING AGENCY *FUNDING AGENCY													
10	Was this dataset funded by an agency other	rivino, cirili	OWNER	TOTOLING MODING!						TOTAL PROCESS					
19	then the BcCZO?														
	the beeco.														
20	, · · · · · · · · · · · · · · · · · · ·														
21	į			1											
22	PLEASE SEE OUR DATA AGREEMENT *	http://criticalzone	.org/national/data/o	zo-data-policies/											
23	YES I HAVE READ, UNDERSTAND AGREE WITH														
24				•											
25	PRIVATE DATA?*														
26	Is the dataset currently private?	If "YES" please make sure to read our data agreement above?													
27															
28	OTHER CZO INVOLVEMENT	1 drop down	2 drop down	3 drop down	4 drop down	5 drop down	6 drop down	7 drop down	8 drop down	9 drop down	10 drop down				
	(Please choose from the dropdown just click														
29	on the cell)														
30		¥				(4.4				111					
31	NATIONAL DISCIPLINE TAG*	1 drop down	2 drop down	3 drop down	4 drop down	5 drop down	6 drop down	7 drop down	8 drop down	9 drop down	10 drop down				
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	on the cell)														
33						-0									
34		1 drop down	2 drop down	3 drop down	Other										
	(Please choose from the dropdown just click														
	on the cell, try to use the provided Topic(s)														
	Sub topic (Limit of 50 Characters)														
37															
38	BcCZO FIELD AREA*	Catchment 1	Catchment 2	Catchment 3	Other	Other Short Descrip	otion								
030	(Please choose from the dropdown just click														
	on the cell)				L										
	FIELD AREA NOTE	Enter Text Here													
41															
42									J .						
43															
44	LOCATION INFORMATION *	D-4 OD UTM	I - Marida OD V	Landitude OD V	1										
45	IF BOUNDING COORDINATES	Datum OR UTM Zone	Latitude OR Y	Longitude OR X											
	Please use Decimal/Degree or UTM	ZUITE													
47	Seeming segree of office				1										
10000	r			1											

1	A	В	C	D	E	F	G	Н	- 1	J	K	L	M	N	0	P	Q
1	DISIPLINE				CZOs			MEASURMENT		National Data Topic		BcCZO Field	Area	Agreement		Location TYPE	Ē
2	Biogeochemis	try			Boulder Cree	k CZO		Water Chemistry		Air Temperature		Betasso BT		Yes		Camera	
3	Biology-Ecolo			Air Pressure Climate				Gordon Gulc	h GG	No		Comunication					
4	Biology-Mole	cular			Christina River Basin CZO		Air Temperature and Humidi		t Diatoms		Gordon Gulch Lower GGL				Groundwater Well		
5	Climatology-N	Neteorology					Communication		Dissolved Organic Ma	tter (DOM)	Gordon Gulch Upper GGU				Meteorologica	al Site	
6	Data Manage	ment-Cyberl	nfrastructure					Conductivity		Electrical Conductivity		Green Lakes Valley GLV		13		Precip. Collector	
7	Engineering-N	Method Deve	lopment		Santa Catalina Mountains & Jemez Rive				Geophysics						Sapflow Plots		
8	Geochemistry-Mineralogy					Incoming Shortwave Radiation								Snow Depth Sensor			
9	Geology-Chronology			Reynolds Creek CZO		Net Radiation		Groundwater Chemistry						Snow Pit			
	Geomorphology			Susquehanna Shale Hills CZO		O18 Isotopes		Intermittent Spring Chemistry						Snow Pole			
11	Geophysics	Geophysics Southern		Southern Sie	ra CZO		Rainfall		Land Cover						Soil Collection		
12	GIS-Remote Sensing						Rock Characterization		Lidar		81				Soil Lysimeter		
13	Hydrology							Sapflow and soil	respiration	Lysimeter Water Samples Chemistry						Soil Pit	
	Modeling-Cor	nputational !	Science					Snow Depth		Meteorology						Spring Site	
	Outreach-Edu							Snow Water Equ	ivalent	Precipitation						Stream Site	
16	Soil Science-P	edology						Soil carbon dioxi		Snow Depth							
	Water Chemis				Soil Characterization		Snow Pits		1								
18		-						Soil Heatflux		Snow Survey		1		-			
19		-						Soil Moisture		Soil Geochemistry		1					
20	1		1					Soil Temperature	•	Soil Microbes		1		-			
21	5				13			Soil Water Poten		Soil Moisture	(- 3)	18			(2
22								SOM Characteria	zation	Soil Respiration							
23								Time-lapse Phot	ography	Soil Temperature							
										Soil Water							
24								Water Chemistry		Chemistry							
										Stream Water							
25								Water Height		Chemistry							
										Streamflow /				-			
26								Wind Speed and	Direction	Discharge							
										Streamflow /							
27										Manual Discharge							
										Surface Water							
28										Chemistry							
29										Time Lapse Camera							
	1									Tree Growth &			7				
30										Physiology							
31			3		13			(8		Water Potential				13			()
32					-					Well Water Levels				-		-	
33										<u>, </u>						-	
34																	

Data Submission/Access

- Data is submitted in .csv format
- That data is then configured and imported into an Oracle relational database using Java Script
 - Data is separated by location, location id, and date_time stamp
 - Meta data submitted with data online
 - CMS is updated
 - Java Script is used to provide searching options to the data set
 - Data is provided in the browser or as a downloadable .csv file
- In Progress:
 - Currently working with Field Manager to get IGSNs for field samples
 - Getting all Surface Water Chem data posted to EarthChem and associated DOIs
 - Reconfiguring back end of <u>www.czo.colorado.edu/query</u> to follow new location id naming convention
 - Determining which non-Chem data repository to use and associated DOIs

Research Infrastructure **Data** Models Publications People Education/Outreach

Dataset Listings

Move laterally: National | Boulder | Calhoun | Catalina-Jemez | Christina | Eel | IML | Luquillo | Reynolds | Shale Hills | Sierra

Search for Boulder Datasets

Featured Datasets

Search [Search Tips]

Shale Hills, Boulder, Luquillo, JRB-SCM - Soil Geochemistry (2001-2013)

Gordon Gulch - Time Lapse Camera - (GG_Camera_Array) (2009-2013)

All Featured Datasets >

Browse 57 Datasets

Sort By: Title | Field Area | Topic | Discipline Tag | Featured

Betasso - Air Temperature, Climate, Meteorology - LIVE Betasso Meteorological Data (BT_Met) (2009-2014)

1 components Betasso Climatology / Meteorology Nathan Rock

Betasso - Groundwater Chemistry - (BT_GW_1) (2013)

1 components Betasso Mater Chemistry Suzanne Anderson, Nathan Rock

Betasso - Land Cover (2008)

1 components Betasso Biology / Ecology Eric Parrish

Betasso - Meteorology - (BT_Met) (2009-2015)

1 components • Betasso • 😩 Climatology / Meteorology • Suzanne Anderson, Nathan Rock

Betasso - Snow Depth, Air Temperature - measured by Judd Snow Sensors (BT SD 1-5 Judd tran (2010-2014)

1 components Betasso Betasso Climatology / Meteorology, 🗷 Hydrology Suzanne Anderson, Noah Molotch, Nathan Rock

Betasso - Snow Pits - Snow Pit Density & Stratigraphy (BT_SN_Met) (2011-2014)

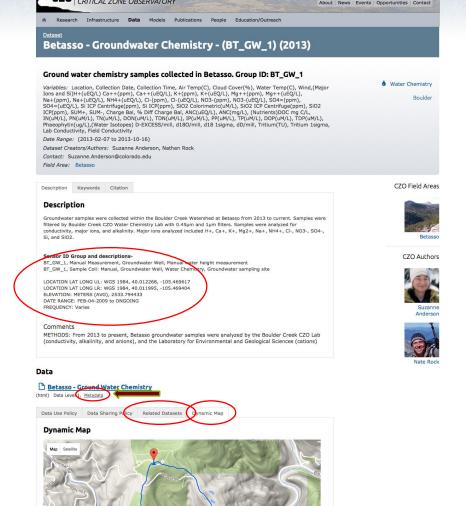
2 components Betasso YHydrology Suzanne Anderson, Nathan Rock

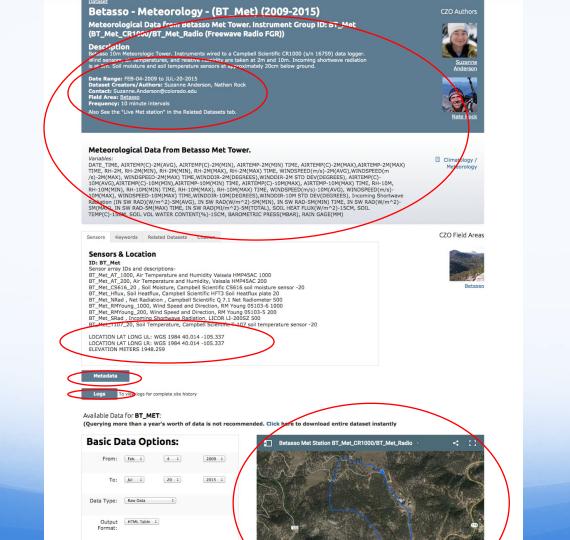
Betasso - Soil Moisture, Water Potential - Borrow Site (BT Borrow EC5/BT Borrow MPS1) (2010-2015)

1 components Betasso | III Soil Science / Pedology | Suzanne Anderson, Nathan Rock

Betasso - Soil Moisture, Water Potential - Gully Site, Soil Pit (BT_Gully_EC5/BT_Gully_MPS1) (2010-2015)

1 components Betasso Fill Science / Pedology Suzanne Anderson, Nathan Rock





														-	-			
	/doc	В	С	D	E	F	G	Н	1	J	K	L	М	N	0	P	Q	R
2	TITLE :	Lower Gordon Gulch I	Gordon Gulch	h: Lower (GG)	NE SD3 4 SE	SD10 Judd	Arrayl - Snow	v Danth Air T	Comporature .	measured by	ludd Snow S	encore (2010	2014)					
3	URL:	http://criticalzone.org				_3F10_Judu	_Array) - Snov	v Deptii, Air i	emperature	- measured by	Judu Silow S	ensors (2010	2014)					
4	AUTHOR	Noah Molotch	s/boulder/dat	a, uataset, 24	23/									1				
5	CONTACT	BCCZOData@colorade	n edu									-						
6		GGL_NF_SP3_Judd_A		entific Cr10v						14				1		-		
7			Judd Snow De															
8		The second secon	Judd Snow De	•														
9			Judd Snow De															
10			Judd Snow De															
11	LOCATION:	Lower Gordon Gulch	Judu Silow B	CP CHISCHES														
12		Gordon Gulch (2590 r	n) lies within	Aranahoe Nat	ional Forest a	nd is divided	into Lower ar	nd Upper Gor	don Guich.	Gordon Guich i	oins the Nor	th Boulder Cr	eek about 16	km downstre	am from Gree	n Lakes Valle	v (GLV). This	site is under
13	LOCATION DESC	it is characterized by										in boulder en			arrinom dice	ii cones rone	/ (GEV)_ 11115	nte is direct
140		Gordon Gulch is withi									100			1				>
15					r Gordon Gulo													
16	LOCATION LAT L			-105.46962														
17	LOCATION LAT L		40.011995	-105.4694										1				
18	ELEVATION	METERS (AVG)	2533.79443											1				
19	DATE RANGE:	FEB-04-2009 to ONG	NING															
20		10 minute intervals)															
21		Level 1																
22	ABSTRACT:	Level 1 snowdepth an	d air tempera	ture data usir	ng Judd snow	depth sensor	s near GGL Po	ole10. 10-min	ute snow dep	oth data are m	easured in cr	n and air tem	perature in	OC.				
23	INVESTIGATOR:	Noah Molotch(Noah.I	Molotch@colo	orado.edu), Si	uzanne Anders	son (Suzanne	.Anderson@c	olorado.edu))					- F6562				
24	MANUALS:	View	http://czo.cc	manual for Ju	udd Snow Dep	th sensors												
25	CITATIONS :									9								
26	KEYWORDS :	Snow sensors, snow o	lepth, hydrolo	gy, precipitat	ion, air tempe	rature												
27	LOG:	View	http://czo.cc	complete log	here	http://czo.co	for bias infor	mation.										
28	MISSING DATA :	View	http://czo.cc	missing data.														
29	VARIABLES:	Date_time, Sensor 1-0	depth(cm), Ser	nsor 1-Air Ter	mp(C), Sensor	2-depth(cm)	Sensor 2-Air	Temp(C), Ser	nsor 3-									
30		depth(cm), Sensor 3-/								T								
31		Plots :	Water Year 2	http://czo.cc	Water Year 2	http://czo.co	Water Year 2	http://czo.co	Water Year 2	http://czo.cc	Water Year 2	http://czo.co	olorado.edu/	logs/snowsen/	plots/lggp3/lg	ggp3.2014.ht	ml	
32																		
33	/header								B	ased or	١.							
34	COL1. label=Date	format =mmddyyyy H	:mm															
35	COL2. label=GGS	units=cm							" <i>F</i>	1 Model	Intorm	nation l	Vlanag	ement S	<i>S</i> ystem	tor Ec	ological	
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39	COL6. label=GGS	CONTRACTOR OF CO								T - 1		4	- /	400		0400	4 0 11	
40	COL7. label=GGS								В	ioScien	ce Vol.	. 47, No	D. 5 (M	lay, 199	1/), pp.	310-31	16"	
41	COL8. label=GGS												,	1				
42	COL9. label=GGS	units=C																
43														1				
44																		

Any Questions?