UNIVERSITY OF MINNESOTA

University of Minnesota
College of Biological Sciences
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Dataset

BAC: Biodiversity and Climate - Experiment 249

Daily mean iButton soil and air temp, air relative humidity

Years Available: 2009 - 2014

Principle Investigators
Wragg, Peter

View All Experiment and Dataset Methods (methods?e249)

ATTRIBUTES

Field	Name	Definition	Unit	Code
1	Year	Year		
2	Month	Month		
3	Date	Date		
4	Plot	Plot of experiment		
5	Species richness	Count of species originally planted into the plot	number	
6	Heat treatment	Heat treatment applied to subplot		control=Ambient temperature, low=Low heat, high=High heat
7	Depth	Depth of iButton used to record data		1=1 cm below soil surface, 10=10 cm below soil surface, 20=20 cm below soil surface, 30=30 cm below soil surface, -10=10 cm above soil surface, -25=25 cm above soil surface
8	meanTemp	Mean temperature for date	celsius	
9	maximumTemp	Daily maximum temperature for date	celsius	
10	maximumTemp	Maximumn temperature for date	celsius	
11	rangeTemp	Range of temperature for date	celsius	
12	sdTemp	Standard deviation of temperature for date	celsius	
13	meanHumidity	Mean percent relative humidity in air for date	dimensionless	
14	maximumHumidity	Maximum percent relative humidity in air for date	dimensionless	
15	minimumHumidity	Minimum percent relative humidity in air for date	dimensionless	
16	rangeHumidity	Range of percent relative humidity in air for date	dimensionless	
17	sdHumidity	Standard deviation percent relative humidity in air for date	dimensionless	

SAMPLE DATASET

Year	Month	Date	Plot	Species richness	Heat treatment	Depth	meanTemp	maximumTemp	minimumTemp	rangeTemp	sdTemp	meanHumidity	maximumHumidity	minimumHumidi
2009	07	07/02/2009	233	4	high	1	31.2064541	51.595	20.7	30.895	9.536453853			
2009	07	07/02/2009	138	4	control	1	26.6934166	49.594	14.683	34.911	11.16241275			
2009	07	07/02/2009	167	1	high	1	29.2507062	49.588	19.179	30.409	9.37549658			
2009	07	07/02/2009	237	1	high	1	29.6990125	49.116	19.701	29.415	9.338460197			
2009	07	07/02/2009	138	4	low	1	27.1424708	47.58	17.116	30.464	8.923112614			
2009	07	07/02/2009	69	1	high	1	28.7249895	46.628	19.181	27.447	8.520035403			
2009	07	07/02/2009	286	4	low	1	26.9241791	46.126	18.682	27.444	8.050525539			
2009	07	07/02/2009	29	1	high	1	28.1705729	46.074	20.621	25.453	7.11780496			
2009	07	07/02/2009	268	1	control	1	26.5564291	45.586	17.132	28.454	9.138984352			
2009	07	07/02/2009	167	1	control	1	26.2710916	45.152	16.706	28.446	9.148835532			
2009	07	07/02/2009	138	4	high	1	28.6189562	44.697	19.747	24.95	8.069388038			
2009	07	07/02/2009	201	4	high	1	27.6547875	44.653	18.706	25.947	7.963000772			

Download dataset afhe249
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TEXT Format	HTML Format	EML Format*
(data_download?afhe249?TXT)	(http://www.cedarcreek.umn.edu/database/temp_bounce.php?input=afhe249)	(data_download?afhe249?EML)

*Read more about EML (http://knb.ecoinformatics.org/software/eml/eml-2.1.1/index.html)

Report errors in data files here. (http://www.cedarcreek.umn.edu/research/data/errorreporting)

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