AmeriFlux Website Overview

Data Team: Deb Agarwal, You-Wei Cheah, Danielle Svehla Christianson, Housen Chu, **Rachel Hollowgrass**, Marty Humphrey, **Fianna O'Brien**, Yeongshnn Ong, Gilberto Pastorello

AMERIFLUX
MANAGEMENT PROJECT

AmeriFlux

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Quick Sites: Recents | Favorites

Site Search

Include: Sites with and without Available Data | Sites with Data | Sites without Data

Search Results: 471 sites

Search sites and their content

Site Sets

Clear Search | Copy search results to clipboard

Saved Searches

Advanced Filters

Show Map

Only Show Checkmarked Sites

Site Id	Name	Data	Lat	Long	Elev (m)	Veg	Clim	MAT (°C)	MAP (mm)	Data Start	Data End
AR-TF1	Rio Moat bog	●	-54.9733	-66.7335	40	WET				2016	2018
AR-TF2	Rio Pipo bog	●	-54.826852	-68.454856	60	WET		5.5	530	2016	2018
BR-CMT	Capuaba farm Mato Grosso		-13.2875	-56.0882	427	CRO	Aw	26.8	1566		
BR-CST	Caatinga Serra Talhada	●	-7.9682	-38.3842	468	DNF	Bsh	25.2	642	2014	2015
BR-Cui	Micrometeorological studies project in Amazonian mangroves		-0.66611	-47.2833	21	WET	Am	26.4	457.2		
BR-Ma2	Manaus - ZF2 K34		-2.609097222	-60.20929722	130	EBF	Af	26.68	2252		
BR-Npw	Northern Pantanal Wetland		-16.4980	-56.4120	120	WSA	Aw	24.9	1486		

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Search Results: 6 sites

Search sites and their content

Site Sets

Clear Search | Copy search results to clipboard

Saved Searches

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Show Map

Only Show Checkmarked Sites

Change Map Size

Site Id	Name	Data	Lat	Long	Elev (m)	Veg	Clim	MAT (°C)	MAP (mm)	Start	End
US-Dia	Diablo	●	37.68	-121.53	323	GRA	Csa	15.6	265	2010	2012
US-SCg	Southern California Climate Gradient - Grassland	●	33.74	-117.69	465	GRA				2006	2016
US-Snd	Sherman Island	●	38.04	-121.75	-5	GRA	Csa	15.6	358	2007	2014
US-Sne	Sherman Island Restored Wetland	●	38.04	-121.75	-5	GRA	Csa	16.09	311	2016	2018
US-Snf	Sherman Barn		38.04	-121.73	-4	GRA	Csa				
US-Var	Vaira Ranch, Ione	●	38.41	-120.95	129	GRA	Csa	15.8	559	2000	2018

Advanced Filters

Filters

Return sites with: "All Chosen Filters"

Return sites with

- (●) All Chosen Filters
- ( ) Any Chosen Filters

Submit

To select multiple items

General

Keyword(s)

e.g., river, fire

Search for keywords in

- (●) Site Id, Name, and Description
- ( ) Site Id
- ( ) Site Name
- ( ) Site Description

Tower Team Member

e.g., Litwak, Wofsy

Affiliated Networks

- All
- Fluxnet-Canada
- LBA
- LTAR
- LTER
- MexFlux
- NEON
- Phenocam

Geography

Country, State, Province

e.g., California, CA, Ohio

Elevation

e.g., 0 to 10, -50 to -10, >10 m

IGBP Class (vegetation)

- All IGBP Classes
- CSH - Closed Shrublands: Lands with woo
- CVM - Cropland/Natural Vegetation Mosai
- DBF - Deciduous Broadleaf Forests: Lands
- WSA - Woody Savannas: Lands with herba
- DNF - Deciduous Needleleaf Forests: Lanc
- EBF - Evergreen Broadleaf Forests: Lands
- ENF - Evergreen Needleleaf Forests: Land

Koeppen Climate Class

- All Climate Classes
- Mediterranean: mild with dry, warm summe
- Mediterranean: mild with dry, hot summer
- Marine West Coast: mild with no dry seaso
- Marine West Coast: mild with no dry seaso
- Humid Subtropical: mild with no dry seaso
- Desert: very cold winter Bwk
- Desert: warm winter Bwh

Precipitation & Air Temp.

Precipitation (annual cumulative)

e.g., 100 to 200, or >200 mm

Air Temp. (average annual)

e.g., 0 to 10, or >10 c

▼ **Flux/Met Measurements**

Gas Species Measured as reported in BADM

- Isotopes
- Other
- CO2
- CH4
- H
- H2O
- N2O
- O3

Available BASE Flux/Met Data

Filter by Data Variables and Years

▼ **Disturbance and Management**

- All
- Agriculture
- Land cover change
- Hydrologic event
- Grazing
- Forestry
- Fire
- Drought

Filter by Flux/Met Data Variables and Years

To filter by years, enter years and select any or all. To filter by variables, select any or all variables. Use the table to check specific variables to include in the filter. Leave all variables unchecked to search all variables. Click Apply Filter.

Include
- Any Variables
- All Variables

Has BASE data from the year(s)
2017-2018
Leave field blank to see all years

Must have data from
- Any year in range
- All years in range

BIOLOGICAL
- DBH
- LEAF_WET
- SAP_DT
- SAP_FLOW
- STEMFLOW
- T_BOLE
- T_CANOPY
- THROUGHFALL

FOOTPRINT
- FC_SSITC_TEST
- FCH4_SSITC_TEST
- FETCH_70
- FETCH_80
- FETCH_90
- FETCH_FILTER
- FETCH_MAX
- FN2O_SSITC_TEST
- FNO_SSITC_TEST
- FNO2_SSITC_TEST
- FO3_SSITC_TEST

- CO2_SIGMA
- FC
- FCH4
- FN2O
- FNO
- FNO2
- FO3
- H2O
- H2O_SIGMA
- N2O
- NO
- NO2
- O3
- SC
- SCH4
- SN2O
- SNO
- SNO2
- SO2
- SO3

HEAT
- G
- H

- SG
- SH
- SLE

MET_ATM
- PA
- PBLH
- RH
- T_SONIC
- T_SONIC_SIGMA
- TA
- VPD

MET_PRECIP
- D_SNOW
- P
- P_RAIN
- P_SNOW
- RUNOFF

MET_RAD
- ALB
- APAR
- FAPAR

- NDVI
- NETRAD
- PPFD_BC_IN
- PPFD_BC_OUT
- PPFD_DIF
- PPFD_DIR
- PPFD_IN
- PPFD_OUT
- PRI
- R_UVA
- R_UVB
- SPEC_NIR_IN
- SPEC_NIR_OUT
- SPEC_NIR_REFL
- SPEC_PRI_REF_IN
- SPEC_PRI_REF_OUT
- SPEC_PRI_REF_REFL
- SPEC_PRI_TGT_IN
- SPEC_PRI_TGT_OUT
- SPEC_PRI_TGT_REFL
- SPEC_RED_IN
- SPEC_RED_OUT
- SPEC_RED_REFL

- SW_OUT

MET_SOIL
- SWC
- SWP
- TS
- TSN
- TW
- WTD

MET_WIND
- MO_LENGTH
- TAU
- TAU_SSITC_TEST
- U_SIGMA
- USTAR
- V_SIGMA
- W_SIGMA
- WD
- WS
- WS_MAX
- ZL

PRODUCTS

Apply Filter | Cancel

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Quick Sites: Recents | Favorites

Site Search

Include: ○ Sites with and without Available Data ● Sites with Data ○ Sites without Data

Search Results: 36 sites

Search sites and their content

▸ Site Sets

Clear Search

Copy search results to clipboard

▸ Saved Searches

▾ Advanced Filters

Filters

Return sites with: "All Chosen Filters"

✖ BADM: "CO2" ✖ BADM: "CH4"

Has Data: "Yes"

Return sites with

● All Chosen Filters

○ Any Chosen Filters

Submit

To select multiple items

▸ General

▸ Geography

▾ Flux/Met Measurements

▸ IGBP Class (vegetation)

▸ Koeppen Climate Class

▸ Precipitation & Air Temp.

Gas Species Measured as reported in BADM

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Available BASE Flux/Met Data

Filter by Data Variables and Years

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Site Search

Include: Sites with and without Available Data | Sites with Data | Sites without Data

Search Results: 84 sites

Search sites and their content

Site Sets

Clear Search | Copy search results to clipboard

Saved Searches

Save Current Search

Load a Saved Search SEARCH 1 Load

To view and edit saved searches, go to Saved Searches page.

Advanced Filters

Show Map

Only Show Checkmarked Sites

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CA-ARB	Attawapiskat River Bog	●	52.694999	-83.945226	90	WET	Dfb	-1.3	700	2011	2015
CA-ARF	Attawapiskat River Fen	●	52.70078	-83.955045	88	WET	Dfb	-1.3	700	2011	2015

Saved Searches

Edit List

ID	Saved	Name
1	2019-10-25	SEARCH 1

To **load** a saved search, select its row and click Load Search.
To **rename** a saved search, select its row and click Edit.
To **delete** a search, click the "Edit List" button.
To **save** a new search, go to Site Search, add filters and click Save Search.
To **adjust** search filters: Once a search has been saved, its filters cannot be edited. To create a related search, use the Load Search button to reload the search onto the Site Search page, adjust the filters there, and then save the new search.

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Quick Sites: Recents | Favorites

Site Search

Include: Sites with and without Available Data | Sites with Data | Sites without Data

Search Results: 10 sites

Search sites and their content

Site Sets

Clear Search

Copy search results to clipboard

Saved Searches

Advanced Filters

Filters

Return sites with: "All Chosen Filters"

✖ : "CSH"

Return sites with

- All Chosen Filters
- Any Chosen Filters

Submit

To select multiple items

General

Geography

Flux/Met Measurements

Disturbance and Management

IGBP Class (vegetation)

All IGBP Classes
CSH - Closed Shrublands: Lands with woo
CVM - Cropland/Natural Vegetation Mosai
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WSA - Woody Savannas: Lands with herba
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ENF - Evergreen Needleleaf Forests: Land

Koeppen Climate Class

Precipitation & Air Temp.

Show Map

Search Results: 10 sites

Only Show Checkmarked Sites

Site Id	Name	Data	Lat	Long	Elev (m)	Veg	Clim	MAT (°C)	MAP (mm)	Data Start	Data End
MX-EMg	El Mogor		32.0298	-116.6045	409	CSH	BSh	17	281		
US-Ced	Cedar Bridge	●	39.8379	-74.3791	58	CSH	Cfa	11.04	1138	2005	2014

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Search sites and their content

Clear Search | Copy search results to clipboard

Site Sets

View and Edit Site Sets

Load Sites from a Set: Select | Load

Add Search Results to

New Set

Saved Set: Select | Add

Saved Searches

Advanced Filters

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AmeriFlux

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Quick Sites: Recents Favorites

Site Sets List

+ Add Set | Edit List

ID	Favorite	Name	Number of Sites
1	○	A new Test	9
2	○	All	413
3	○	AmeriFlux_FID_used	65
4	○	Ankur	30
5	○	BSV	2
6	○	CRO	51
7	○	CSH	13
8	○	CVM	1
9	◉	Data Tech	50
10	○	DBF	25
11	○	dennis	12
12	○	EmptyValues	8
13	○	Evergreen Broadleaf	8
14	○	GRA	50
15	○	Mass	6
16	○	MF	10
17	○	SAV	1
18	○	seb	100
19	○	SNO	1

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8	○	CVM	1
9	●	Data Tech	50
10	○	DBF	25
11	○	dennis	12
12	○	EmptyValues	8
13	○	Evergreen Broadleaf	8
14	○	GRA	50
15	○	Mass	6
16	○	MF	10
17	○	SAV	1
18	○	seb	100
19	○	SNO	1

Data Tech | Edit Set

CA-MR3	Mattheis Ranch - E3 South
CA-MR5	Mattheis Ranch - E5 North
US-ARM	ARM Southern Great Plains site- Lamont
US-BCM	Blue Cypress Marsh
US-Bi1	Bouldin Island Alfalfa
US-Bi2	Bouldin Island corn

Notes

Enter Text

Download for Set: Data | OK

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15	○	Mass	6
16	○	MF	10
17	○	SAV	1
18	○	seb	100
19	○	SNO	1

Data Tech

Edit Set

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Notes

Enter Text

Download for Se

OK

- Set as ASCII
- ✓ Data
- Acknowledgments as ASCII
- DOIs as ASCII
- PI Email addresses as ASCII
- Site Info & Citations

Site Set Downloads

- Set as ASCII
  - Site ID, Site name, Link to Site Info Page, & Lat-Long
- Data
  - Links to Data Download Page
- DOI as ASCII
  - Site ID, Site name, DOI, & Citation
- PI Email addresses as ASCII
  - Site ID, Site name, PI Name, Email, & Institution
- Site Info & Citations
  - Citation files for Bibtex & EndNote
  - Citation Info as CSV
  - Latex Code & PDF

```
#Set Name:     Data Tech
#Content: Ameriflux Site PI Emails

Site ID    Site Name        PI Name  Email        Institution
CA-MR3  Mattheis Ranch - E3 South      John Gamon    jgamon@gmail.com  University of Alberta
CA-MR5  Mattheis Ranch - E5 North      John Gamon    jgamon@gmail.com  University of Alberta
US-ARM  ARM Southern Great Plains site- Lamont  Sebastien Biraud     SCBiraud@lbl.gov    Lawrence
Berkeley National Laboratory
US-BCM  Blue Cypress Marsh Charless Ross Hinkle       rhinkle@ucf.edu       University of Central Florida
US-Bi1     Bouldin Island Alfalfa Dennis Baldocchi     Baldocchi@berkeley.edu  University of California, Berkeley
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journal = {Journal of Geophysical Research},
volume = {115},
year = {2010},
number = {G3},
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US-MMS: Morgan Monroe State Forest

Tower_team:

PI:	Kim Novick knovick@indiana.edu - Indiana University
PI:	Rich Phillips rpp6@indiana.edu - Indiana University
FluxContact:	Mallory Barnes malbarn@iu.edu - Indiana University
BADMContact:	Mike Voyles mpvoyles@indiana.edu - Indiana University
DataManager:	Michael Benson micbenso@iu.edu - Indiana University
Technician:	Steven Scott stlscott@indiana.edu - Indiana University
Lat, Long:	39.3232, -86.4131
Elevation(m):	275
Network Affiliations:	AmeriFlux, Phenocam
Vegetation IGBP:	DBF (Deciduous Broadleaf Forests: Lands dominated by woody vegetation with a percent cover >60% and height exceeding 2 meters. Consists of broadleaf tree communities with an annual cycle of leaf-on and leaf-off periods.)
Climate Koeppen:	Cfa (Humid Subtropical: mild with no dry season, hot summer)
Mean Annual Temp (°C):	10.85
Mean Annual Precip. (mm):	1032
Flux Species Measured:	CO2, H, H2O
Years Data Collected:	AmeriFlux: 1999 - Present

Site Photo More Site Images

AmeriFlux

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US-MMS: Morgan Monroe State Forest

Overview | Windroses | DOI | Data Use Log | Image Gallery | MODIS | Publications | BADM

Wind Roses

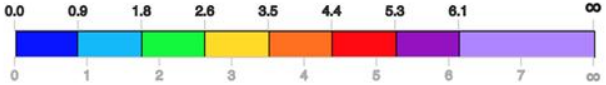
Click an image below to enlarge it, or use the navigation panel.

Image scale: 785m x 785m
Data Collected: 1999 - 2018

Wind roses use variables **'WS'** and **'WD'**.

Download Data

Wind Speed (m/s)



Navigation

All	Annual	Mar-Jun	Jun-Sep	Sep-Dec	Dec-Mar
	Annual Average	6AM to 6PM / 6PM to 6AM	6AM to 6PM / 6PM to 6AM	6AM to 6PM / 6PM to 6AM	6AM to 6PM / 6PM to 6AM

Graph Type: Sector
Wind Speed Scale: Per Site
Wind Direction Scale (%): Per Site

- [x] Show Satellite Image
- [x] Show Wind Rose

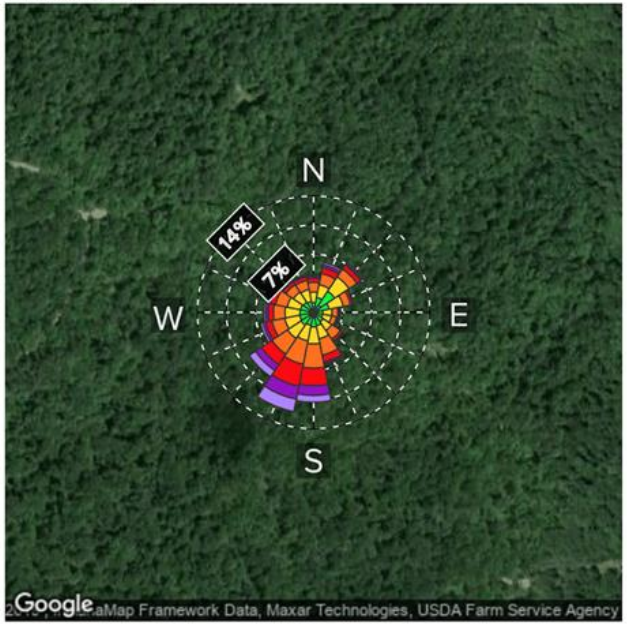
Annual Average

About Ameriflux Wind Roses

Wind Rose Explanation

A **wind rose** gives a succinct view of how wind speed and direction are typically distributed at a particular location. Presented in a circular format, a wind rose shows the frequency and intensity of winds blowing from particular directions. The length of each "spoke" around the circle indicates the amount of time (frequency) that the

Annual Average



About Ameriflux Wind Roses

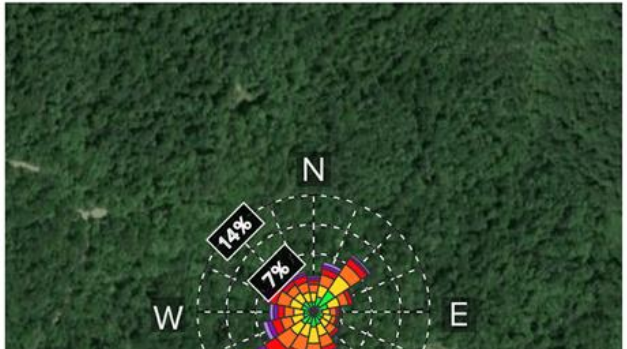
Wind Rose Explanation

A **wind rose** gives a succinct view of how wind speed and direction are typically distributed at a particular location. Presented in a circular format, a wind rose shows the frequency and intensity of winds blowing from particular directions. The length of each "spoke" around the circle indicates the amount of time (frequency) that the wind blows from a particular direction. Colors along the spokes indicate categories of wind speed (intensity). Each concentric circle represents a different frequency, emanating from zero at the center to increasing frequencies at the outer circles

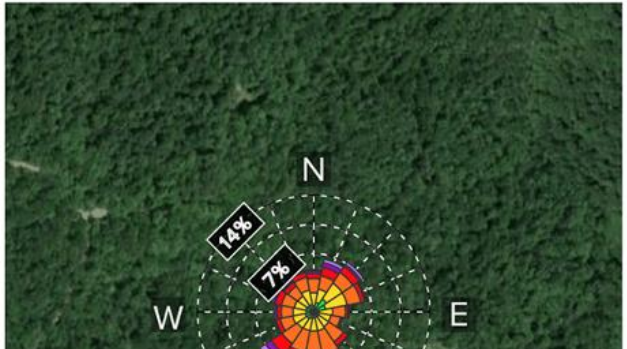
Utility

This information can be useful to gain insight into regions surrounding a flux tower that contribute to the measured fluxes, and how those regions change in dependence of the time of day and season. The wind roses presented here are for four periods of the year, and in 16 cardinal directions. Graphics are available for all sites in the AmeriFlux network based on reported wind measurements at each site.

Mar - Jun; 6am - 6pm



Mar - Jun; 6pm - 6am



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Quick Sites: Recents | Favorites

US-MMS: Morgan Monroe State Forest

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Wind Roses

Image scale: 1570m x 1570m

Data Collected: 1999 - 2018

Wind roses use variables **'WS'** and **'WD'**

Download Data | Download Wind Rose as Image File (PNG)

Wind Speed (m/s)

0.0 0.9 1.8 2.6 3.5 4.4 5.3 6.1 ∞

0 1 2 3 4 5 6 7 ∞

Navigation

All	Annual	Mar-Jun	Jun-Sep	Sep-Dec	Dec-Mar
	Annual Average	6AM to 6PM	6AM to 6PM	6AM to 6PM	6AM to 6PM
		6PM to 6AM	6PM to 6AM	6PM to 6AM	6PM to 6AM

Graph Type: Sector

Wind Speed Scale: Per Site

Wind Direction Scale (%): Per Site

☑ Show Satellite Image

☑ Show Wind Rose

Annual Average

AmeriFlux

Home | About | Community | Sites | Data | Tech | Year of Methane | Resources

Home / Sites / Siteinfo / US-MMS

Quick Sites: Recents Favorites

US-MMS: Morgan Monroe State Forest

Overview | Windroses | DOI | Data Use Log | Image Gallery | MODIS | Publications | BADM

This page displays the list of downloads of data for the site US-MMS.

NOTE: Version refers to the version of the AmeriFlux BASE-BADM product for the site was downloaded by the user and the download count indicates the number of times the person downloaded that version. The download count indicates the number of times the person downloaded the data.

Export to Excel | Export to CSV

Year Range Start Year -

Search

Showing 1 to 10 of 2599 results

Products

First < 1 > Last

All BASE FLUXNET2015 LaThuile 2007

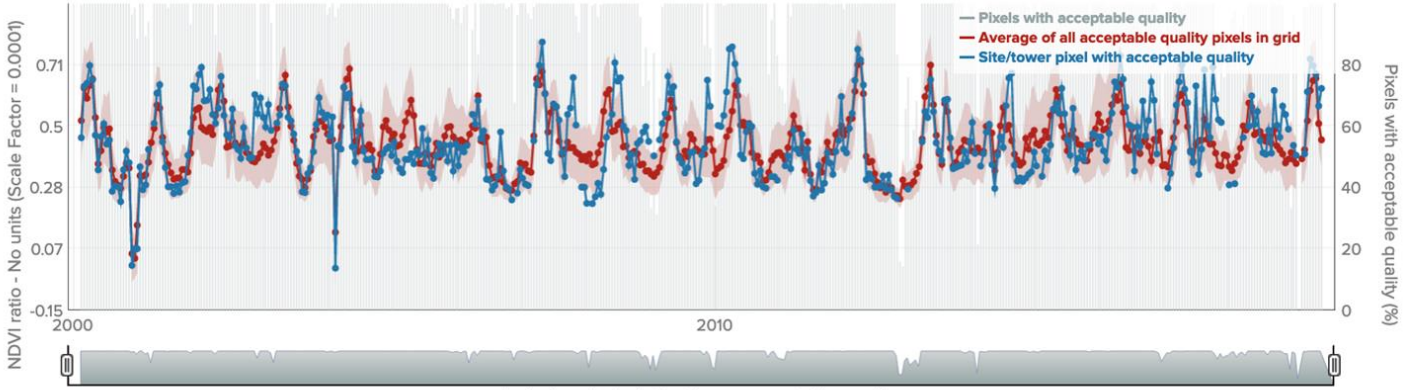
Items Per Page: 10 25 50 View All

Date	Name	Product	Version	Intended Use	Intended Use Description	Download Count
2019-10-22	Wei Zhao	FLUXNET2015	1-3	Research - Multi-site synthesis	research on the carbon storage in native forests across the worldwide scale.	1
2019-10-22	Hirofumi Hashimoto	BASE	13-5	Research - Remote sensing	Modeling carbon flux using Ameriflux data.	4
2019-10-22	Z Liu	BASE	13-5	Other	climate change and carbon cycle	4

US-MMS: Morgan Monroe State Forest

MODIS NDVI

The time series shows the 16-day **Normalized Difference Vegetation Index** (NDVI) average from the MOD13Q1 data product.
Use the slider below the time series to zoom in and out.



Includes all pixels that have acceptable quality

To view / download these data and other MOD13Q1 products for this site, visit MODIS/Terra Vegetation Indices.

For other related products, visit MODIS/VIIRS Fixed Sites Subsets Tool.

US-MMS: Morgan Monroe State Forest

Overview	Windroses	DOI	Data Use Log	Image Gallery	MODIS	Publications	BADM

BADM for This Site

Access the Biological, Ancillary, Disturbance and Metadata (BADM) information and data for this site.

BADM contain information for many uses, such as characterizing a site's vegetation and soil, describing disturbance history, and defining instrumentation for flux processing. They complement the flux/met data.

- Download BADM for this site*
- View Site General Info for this site (Overview tab)*
- Use Online Editor to update Site General Info or DOI Authorship
- Update information about submitted data (Variable Information tool)
- More BADM resources

*Online updates are shown on the Overview tab real time. However, downloaded BADM files will not reflect those updates until they have been reviewed for QA/QC.

AmeriFlux

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BADM Editor: Site General Info

US-Ton: Tonzi Ranch

* *indicates required field*

get more information

GRP_TEAM_MEMBER

Add New Entry

TEAM_MEMBER_NAME
Dennis Baldocchi
TEAM_MEMBER_ROLE
PI
TEAM_MEMBER_EMAIL
Baldocchi@berkeley.edu
TEAM_MEMBER_INSTITUTION
University of California, Berkeley
TEAM_MEMBER_ADDRESS
Department of Environmental Science, Policy and Management, 137 Mulford Hall, 345 Hilgard Hall,Berkeley, CA USA 94720-3110

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TEAM_MEMBER_ROLE
FluxContact
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syma@berkeley.edu
TEAM_MEMBER_INSTITUTION
University of California, Berkeley
TEAM_MEMBER_ADDRESS

TEAM_MEMBER_NAME
Daphne Szutu
TEAM_MEMBER_ROLE
Technician
TEAM_MEMBER_EMAIL
daphneszutu@berkeley.edu
TEAM_MEMBER_INSTITUTION
UC Berkeley
TEAM_MEMBER_ADDRESS

TEAM_MEMBER_NAME
Joe Verfaillie

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US-MMS: Morgan Monroe State Forest

Overview | Windroses | DOI | Data Use Log | Image Gallery | MODIS | Publications | BADM

Search Publications for this Site | Publications Found: 24 | AmeriFlux Publications | Add Publication

Site Publication: To set a publication as the Site Publication, click the Set button next to it. If you want to select a publication not available in the tab, add the publication using the Add Publications, and make sure to link it to your site ID. Then refresh this tab.

Site Pub	Citation	Year	Publication
Set	Set	2019	Sullivan, R. C., Cook, D. R., Ghate, V. P., Kotamarthi, V. R., Feng, Y. (2019) Improved Spatiotemporal Representativeness And Bias Reduction Of Satellite-Based Evapotranspiration Retrievals Via Use Of In Situ Meteorology Research: Biogeosciences, 124(2), 342-352.
Set	Set	2019	Sullivan, R. C., Kotamarthi, V. R., Feng, Y. (2019) Recovering Evapotranspiratio Climate Over North America, Journal Of Hydrometeorology, 20(8), 1619-1633
Set	Set	2018	Zhang, Q., Phillips, R. P., Manzoni, S., Scott, R. L., Oishi, A. C., Finzi, A., Daly, E Moisture Drive The Seasonal Soil Respiration-Temperature Hysteresis Relati
Set	Set	2018	Chu, H., Baldocchi, D. D., Poindexter, C., Abraha, M., Desai, A. R., Bohrer, G., Zhang, Q., Burns, S. P., Frank, J. M., Christian, D., Brown, S., Black, T. A., Goug K., Hatfield, J., Prueger, J., Bracho, R., Baker, J. M., Martin, T. A. (2018) Tempo Covariance Momentum Flux Data Across North American Flux Networks, Ge
Set	Set	2018	Baldocchi, D., Penuelas, J. (2018) The Physics And Ecology Of Mining Carbo Biology, .

Site Publication: Describes the Site

Citation: Publication used when citing site data.

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US-MMS: Morgan Monroe State Forest

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Search Images for this Site Images found : 6 AmeriFlux Images Add Image

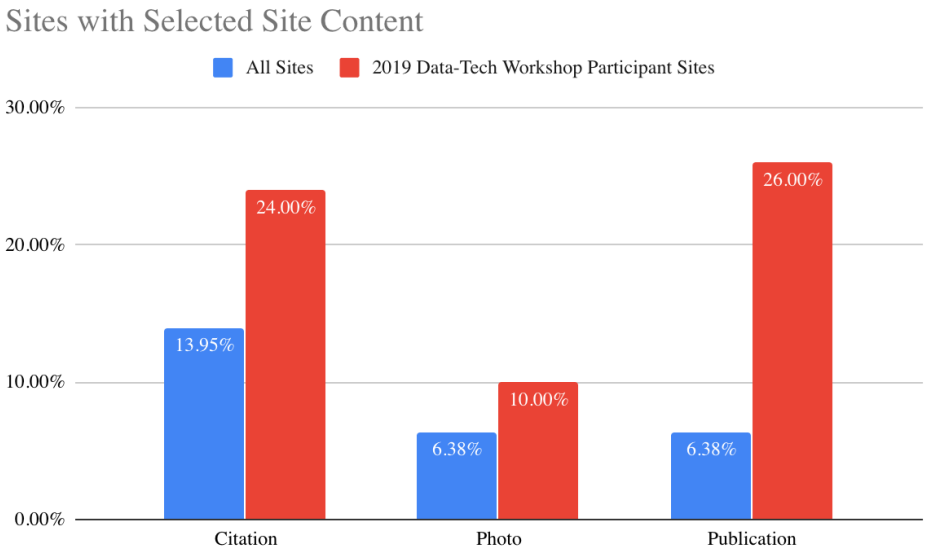
Site Photo: The current Site Photo, if designated, is indicated by a check mark. To set a photo as the Site Photo, click the photo to view details. Then click the "Set as Site Photo" button. If you want to select a photo not available in the tab, add the photo using the Image Gallery and make sure to link it to your siteID. Then refresh this tab.

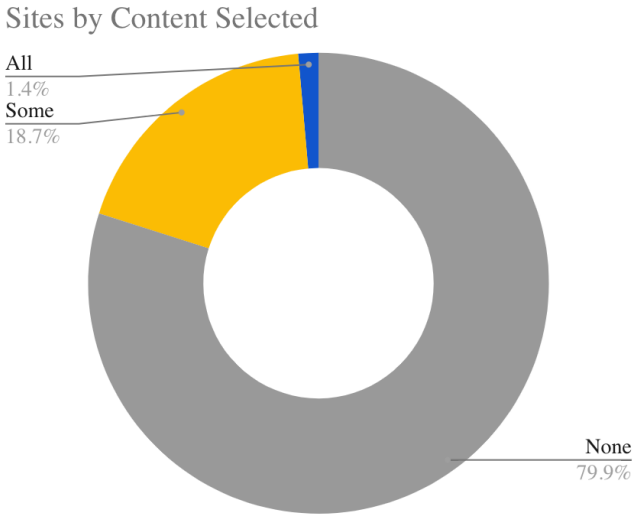
All Only Photos Only Data-Rich Images

Site Photo displays on Site Overview page

Site Photo, Publication, & Citation

- Provides more detail to your Site Info page
- Increases citations & visibility to publications





Publications

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Publications Found: 997

Modeling Phenological Controls On Carbon Dynamics In Dryland Sagebrush Ecosystems

Renwick, K. M., Fellows, A., Flerchinger, G. N., Lohse, K. A., Clark, P. E., Smith, W. K., Emmett, K., Poulter, B. ...

Journal: Agricultural And Forest Meteorology, Volume 274: 85-94 (2019). DOI: 10.1016/j.agrformet.2019.04.003
Sites: US-Rls, US-Rms, US-Rws

Recovering Evapotranspiration Trends From Biased CMIP5 Simulations And Sensitivity To Changing Climate Over North America

Sullivan, R. C., Kotamarthi, V. R., Feng, Y.

Future projections of evapotranspiration (ET) are of critical importance for agricultural and freshwater management and for predicting land–atmosphere feedbacks on the climate system. However, ET from phase 5 of the Coupled Model Intercomparison Project (CMIP5) simulations exhibits substantial biases, bolstering little confidence ...

Journal: Journal Of Hydrometeorology, Volume 20 (8): 1619-1633 (2019). DOI: 10.1175/JHM-D-18-0259.1
Sites: US-AR1, US-AR2, US-ARM, US-Blo, US-Cop, US-GLE, US-Ha1, US-Los, US-Me2, US-Me6, US-MMS, US-Myb, US-Ne1, US-Ne2, US-Ne3, US-NR1, US-ORv, US-PFa, US-SRG, US-SRM, US-Syv, US-Ton, US-Tw1, US-Tw2, US-Tw3, US-Tw4, US-Twt, US-UMB, US-UMd, US-Var, US-WCr, US-Whs, US-Wkg

Relationships Between Methane and Carbon Dioxide Fluxes in a Temperate Cattail-Dominated Freshwater Wetland

Villa, J., Ju, Y., Vines, C., Rey-Sanchez, C., Morin, T.H., Wrighton, K.C., Bohrer, G.

Wetlands are the most important natural source of methane (CH4) to the atmosphere, and there is still considerable uncertainty of CH4 flux and net carbon budgets of wetlands. This uncertainty is due in part to the complex role of

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Renwick, K. M., Fellows, A., Flerchinger, G. N., Lohse, K. A., Clark, P. E., Smith, W. K., Emmett, K., Poulter, B. ...

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Sites: US-AR1, US-AR2, US-ARM, US-Blo, US-Cop, US-GLE, US-Ha1, US-Los, US-Me2, US-Me6, US-MMS, US-Myb, US-Ne1, US-Ne2, US-Ne3, US-NR1, US-ORv, US-PFa, US-SRG, US-SRM, US-Syv, US-Ton, US-Tw1, US-Tw2, US-Tw3, US-Tw4, US-Twt, US-UMB, US-UMd, US-Var, US-WCr, US-Whs, US-Wkg

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BR-CST		
BR-Cui		
BR-Ma2		
BR-Npw		
BR-PRS		

Displaying this publication on the Site Info pages for selected sites: *

- (●) **Display for all sites that provided data.**
- ( ) **Display for a different subset of sites.**
- ( ) **Do not display on Site Info pages.**

Rapid Response Flux Systems

AmeriFlux Management Project (AMP) has two Rapid Response flux systems available to take advantage of unique research opportunities that come up suddenly, or may have short measurement windows. Such situations might include: measuring ecosystem fluxes following a disturbance, such as a wildfire, an infestation of borer beetles, or a habitat restoration. Site PIs may need to quickly start useful measurements (ecosystem recovery). They also may plan to seek funding to purchase a new system for long-term measurements, so the Rapid Response flux system can fill the gap in time. Or they might make measurements just for a short time..

Expectations

These will be loaned for a maximum of three years for each opportunity. Selection of recipient is managed by Margaret Torn, AMP lead PI, in consultation with AMP co-PI Dennis Baldocchi and a subcommittee of the AmeriFlux Science Steering Committee. AMP pays for shipping to the site PI. The site PI pays for shipping to return the system to AMP. If a Rapid Response system is damaged beyond repair on-site, AMP expects the site PI's institution to pay replacement costs.

Instruments

These systems include a sonic anemometer, gas analyzer, datalogger, radiometers, and basic meteorological sensors. At this time, below-ground sensors are not provided. Sensors are fully calibrated before they are loaned to site PIs. Eddy covariance sensors on RRSystem1 include a CSAT3A, LI-COR 7500, and LI-COR 7200. Eddy covariance sensors on RRSystem2 include a CSAT3A, EC150, and EC155. Gill sonic anemometers are available in lieu of the CSAT3A. Systems may require some customization. Assembly depends on the requirements of the site. The Tech Team will manage delivery, advise the recipient on deployment, and maintain the system when it is returned. NOTE: AMP cannot provide towers or permanent infrastructure.

Eligibility

Any scientist in the AmeriFlux domain (the Americas) is eligible to apply; it is not restricted to current AmeriFlux PIs.

Site Visits

The Tech Team conducts site visits across the AmeriFlux network to maintain data quality, ensure data inter-comparability, and share technical expertise. The Tech team brings a carefully calibrated portable eddy covariance system (PECS) to AmeriFlux sites, where a side-by-side comparison is conducted. PECS deployments typically last between 10-14 days. Site visits are normally scheduled during the growing season (April-September). The Tech team targets 8-10 site visits per year.

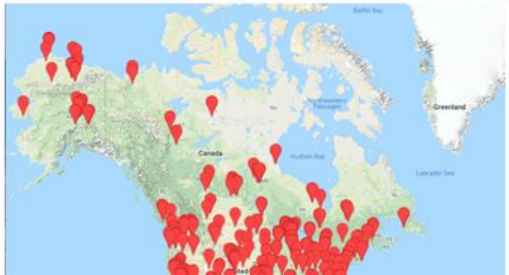
A list of all past site visits is now available.

Request an AmeriFlux Site Visit

The Tech Team welcomes invitations from AmeriFlux sites. To request a site visit, fill out this online form.

What to expect before, during, and after a site visit

I. Months prior to visit
   A. Sites visits planned and selected during winter (Dec-Feb)
      1. Initial contact – gauge interest/availability, discuss possible date ranges;
      2. Follow-up – confirm dates;
      3. Send site visit questionnaire (including request for recent data).
   B. Logistics planning
      1. Tech Team arranges lodging and transport options;
      2. All costs of visit are covered by the the AmeriFlux Management Project.
II. 1-2 weeks prior to visit
   A. For site staff:
      1. Ensure site access and normal site operations (data, power, communications, etc)

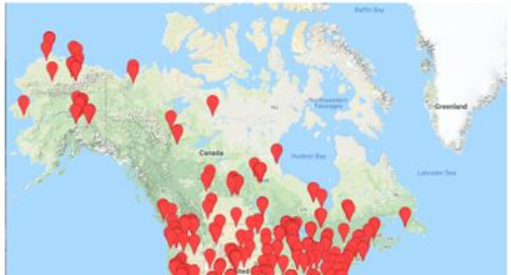


List of past site visits

The below table summarizes all known AmeriFlux site visits from 2002 to present (updated annually). Records from 1997-2001 are incomplete and not shown. "N/A" or "?" denote sites/dates where the record is incomplete or uncertain. "N/A" for some visits denote sites that were never registered in the AmeriFlux Network. Site visits prior to 2013 were conducted by the AmeriFlux QA/QC group based at Oregon State University (PI: Bev Law).

Questions or comments, please email: ameriflux-tech@lbl.gov.

#	Year	Month	Site	Notes
1	2002	Aug	US-UMB	
2	2002	Sep	US-Wrc	
3	2002	N/A	US-Me?	Metolius cluster
4	2003	Jan	MX-Lpa	
5	2003	N/A	US-KS?	Kennedy Space Center, site unknown; no report
6	2003	Feb	US-SP?	Gainsville area, Florida
7	2003	N/A	BR-Sa?	Santarem, Brazil; no report
8	2003	Jun	N/A	Rush Valley, Utah
9	2003	Jul	US-NR1	
		Aug	US-Syv	



tps://ameriflux.lbl.gov/sites/site-search/

Request Site Visit

Request Site Visit

Site ID *

01-All
02-None
03-Other
AR-TF1
AR-TF2
BR-CMT
BR-CST

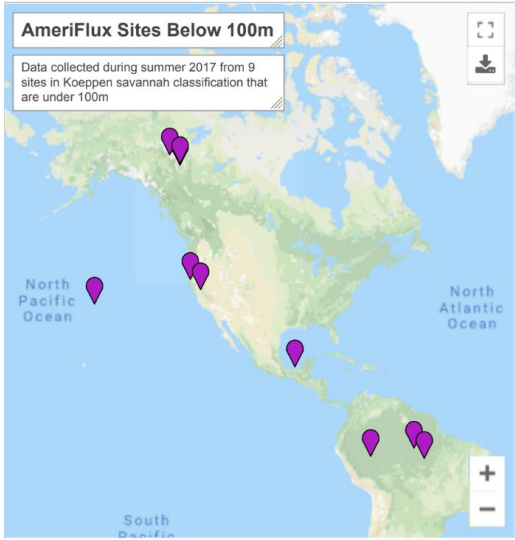
Tip: Use Ctrl-Click (on PC) or Command-Click (on Mac) to select multiple sites.

Principal Investigators *

Planned Visit Start Date *

Planned Visit End Date *

Upcoming Addition



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AmeriFlux

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Site Search

Select Sites | Customize Map

Include: Sites with and without Available Data | Sites with Data | Sites without Data

Search Results: 210 sites

Search sites and their content

Site Sets

Clear Search

Save / Load Site Searches

Advanced Filters

Only Show Checkmarked Sites

Customize Map | Map Size: None

Site ID	Name	Data	Lat	Long	Elev (m)	Veg	Clim	MAT (°C)	MAP (mm)	Start	End
BR-Sa1	Santarem-Km67-Primary Forest		-13.29	-54.96	88	EBF	Am	26.13	2075	2015	
BR-Sa3	Santarem-Km83-Logged Forest		-0.67	-54.97	100	EBF	Am	26.12	2044	2015	
CA-Ca1	British Columbia - 1949 Douglas-fir stand	●	-2.61	-125.33	102	ENF	Cfb	9.93	1369	1999	2008
CA-Ca2	British Columbia - Clearcut Douglas-fir stand (harvested winter 1999/2000)	●	48.89	-125.09	325	ENF	Cfb	9.86	1474	2002	2009
CA-Ca3	British Columbia - Pole sapling Douglas-fir stand		49.53	-124.94		ENF	Cfb	9.94	1676	2006	
CA-Cbo	Ontario - Mixed Deciduous, Borden Forest	●	44.32	-79.93	122	DBF	Dfb	6.66	876	2003	

Home / Sites / Site Search

Site Search

Select Sites | Customize Map

This interface is not yet designed for small devices.

Show on Map

- [x] Show Title on Map

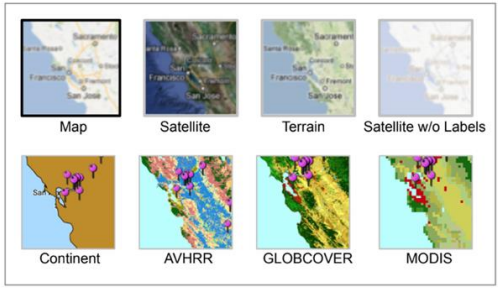
AmeriFlux Sites Below 100m

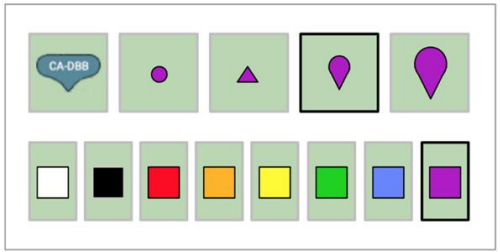
- [x] Show Description on Map

Data collected during summer 2017 from 9 sites in Koeppen savannah classification that are under 100m

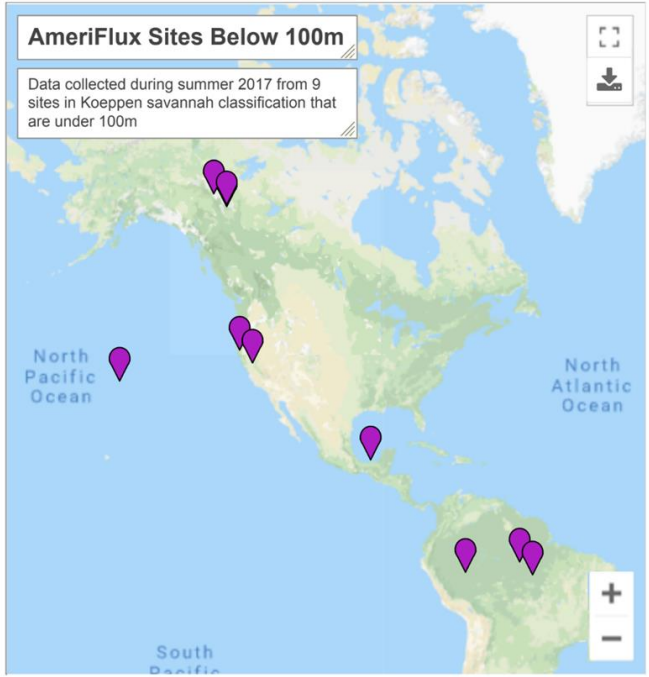
- [ ] Show Legend on Map
- [x] Show Buttons on Map

Map Style





Select Sites | Map Size: Small



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Site Search

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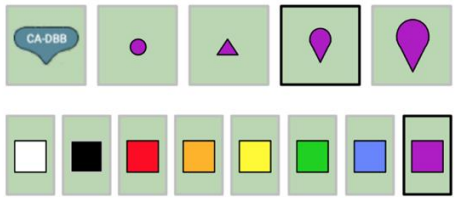
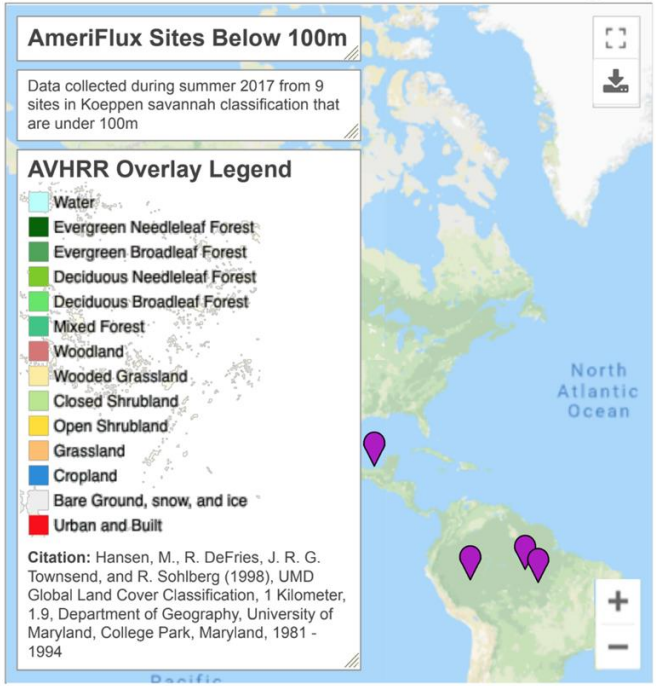


Select Sites | Map Size: Small



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Site Search

Select Sites | Customize Map

This interface is not yet designed for small devices.

Select Sites | Map Size: Large

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☑ Show Title on Map

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- [x] Show Title on Map

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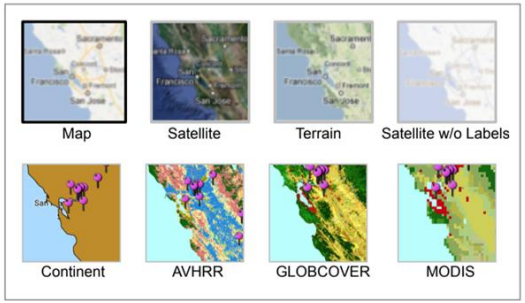
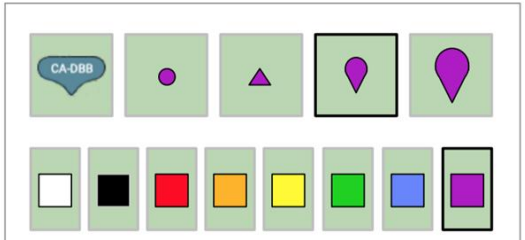
- [x] Show Description on Map

Data collected during summer 2017 from 9 sites in Koeppen savannah classification that are under 100m

- [ ] Show Legend on Map
- [x] Show Buttons on Map

Map Style





Site Search

Select Sites | Customize Map

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Show on Map

- [x] Show Title on Map

AmeriFlux Sites Below 100m

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Data collected during summer 2017 from 9
savannah classification that are under 100

- [ ] Show Legend on Map
- [x] Show Buttons on Map

Map Style

Map | Satellite | Ter

Continent | AVHRR | GLOBCOVER | MODIS

CA-DBB

Select Sites | Map Size: Small

AmeriFlux Sites Below 100m

North Atlantic Ocean

South Pacific

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- (•) Medium (1280 x 960)
- ( ) Large (1920 x 1440)
- ( ) Extra Large (2560 x 1920)

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Feedback?

Reach out to Rachel Hollowgrass at
rhollowgrass@lbl.gov

AMERIFLUX
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Management Project