FluxSuite Training





FluxSuite

- FluxSuite system to remotely manage a station or network of many stations:
 - Utilize output from SmartFlux
 - View real-time flux data, receive alerts and assign users
 - Manage network of multiple stations with minimum number of people
 - Create actual and virtual networks of flux stations





Logging In

Login





Map View



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Map View



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Site Menu





All Stations



Station information



All Stations – Status Indicators





Station Menus

All Stations	🚸 Dashboard	1 Information	🛕 Manage Alerts	PhenoCam Gallery

- All Stations: Return to all station list
- Information: Edit/View site information
- Manage Alerts: Setup Alerts for data outputs
- PhenoCam Gallery: View phenocam picture gallery



- Detail View: Plot a long time series for a specific variable
- Chart Order: Customize dashboard layout
- Download Summary Report: Download a report of processed data between two dates
- QA/QC: Show/Hide EddyPro QA/QC information







Detail View 🚦 Chart Order 🛃 Download Summary Report

Carbon dioxide flux (µmol m-2 s-1)

🗌 QA/QC





Evapotranspiration (













Alert View



FLUXSUITE	Map 🕂 Stations			Welcome,	🔅 Se	tup <u>?</u> Support	٩	Logout
Station A	orts		_					
Station A	Descri	Description of						
III All Stations 🚯 Station Dashboard 🕕 Station Information 🛕 Manage Alerts the problem is								m is
							listed here.	
Alert Type		Start	Date		End Da	te		
All 2017-01-11 * Occurrence are listed as they appear between the selected dates Show 10 v entries								
Description 🔶	Alert Type 🛛 🍦	Status 🍦	* First Occurrence 🍦	* Last Occurr	ence 🔻	Current Alert	\$	Action 🔶
Average Signal Strength	LI-7200	2954 alerts logged.	2017-01-11 00:00	2017-01-18 18:	00	Average Signal Strength 60.03 < 70.00		0











Data points are real-🚱 Map 🛛 🕂 Stations time. New Points Pelalawan Broadcasting Information automatically added 🕕 Station Information 🛛 🛕 M every half-hour All Stations 🐼 Station Dashboard Communications SF Storage biomet LI-7200 LI-770 SMARTFlux™ sonic 1 2 errors and 6 warnings in the last 7 days. 💦 Detail View 📲 Chart Order 🛛 👢 Download Summary Report QA/QC Sensible heat flux (w m-2) nt heat flux (w m-2) 750 500 500 250 .หฟ -250 -250 12.00 00.00 12:00 00:00 12:00 00:00 12:00 00.00 Carbon dioxide flux (µmol m-2 s-1)

Each graph displays the last two days of data (6 graphs total)













Wind Rose









Manage Alerts





Carbon dioxide flux (µmol m-2 s-1)

vapotranspiration (mm hour-1)



Manage Alerts

Ill Stations 🚯 Dashboard 🚯 Information 🛕 Manage Alerts 💿 PhenoCam Gallery

SMARTFlux™ Alerts										
Show 50 \checkmark entries Search:										
Description 🔺	EddyPro Variable 🍦	Enabled 🍦	Min Th	reshold 🍦	Max Th	reshold 🍦	Units 🍦	Action 🔶		
Ambient air pressure	air_pressure	Enabled	50		110		kPa	Save Cancel		
Ambient air relative humidity	RH	(0		100	%			
Ambient air temperature_1_1_1	Ta_1_1_1			-40		50	с			



Manage Alerts



FLUXSUITE ③	map	A station	15		W	elcome, Georg	e Burba	🄅 setup	🕐 supp	ort (🕑 logo	but
AmeriFlux	-CA	LI-720	00	Thresholds fo	or Sending A	lerts						
									🚱 Da	shboard	≣ Sta	tions
Gas Analyzer Alert	ts											
Show 10 🔻 entrie	25							S	earch:			
Descri	ption			Enabled	÷		Threshol	d	\$	Action		÷.
Average Signal Strengt	h							7	0	-		
Chopper Temp												
Detector Temp				Ø								
PLL												
USB Free Space				Ø				500 M	в			
Showing 1 to 5 of 5 en	ntries											Þ.
										Reset to) Default	
SMARTFlux™ Alert	S											
Show 10 V entrie	25							S	earch:			
Description 🔺	Ale	rt Variable	+	Enabled 🔶	Min Thre	shold 🔶	Max	Threshold	Units	\$	Action	÷
Ambient air density	air_den	sity				-Infinity		Infinity	kg m ⁻³		-	
Ambient air pressure	air_pre	ssure				50		110	kPa		-	
Ambient air relative humidity	RH					2		103	96			
Ambient air temperature_1_1_1	TA_1_1	1				-40		50	с			



PhenoCam Gallery

Use left and right arrows to scroll through recent images



Download a set of images

Lownload Multiple Images



PhenoCam Gallery





Lownload Multiple Images

10 🗘 entries		Search:
Date (yyyy-mm-dd)	Image Name 🔶	Actions
2017-03-30	2017_03_30_11_00_17_AIU-0208.jpg	0 Ł
2017-06-02	2017_06_02_11_00_15_AIU-0208.jpg	6 Ł
2017-06-02	2017_06_02_11_00_15_AIU-0208.jpg	0 Ł
2017-07-27	2017_07_27_11_00_19_AIU-0208.jpg	8 Ł
2017-07-28	2017_07_28_11_00_28_AIU-0208.jpg	0 Ł
2017-07-29	2017_07_29_11_00_23_AIU-0208.jpg	8 Ł
2017-07-30	2017_07_30_11_00_19_AIU-0208.jpg	0 Ł
2017-07-31	2017_07_31_11_00_21_AIU-0208.jpg	0 Ł
2017-08-01	2017_08_01_11_00_24_AIU-0208.jpg	0 Ł
2017-08-02	2017 08 02 11 00 21 AIU-0208.jpg	0 1



Detailed View

🕜 map



communications storage SMARTFlux™ LI-7500A information sonic biomet Manage alerts 0 errors and 0 warnings in the last 7 days. 🚱 Detail View 👌 Download Summary Report ✓ QA/QC CO₂ Flux (µmol/m²s) LE (W/m²) Another way to 750 25 look at graphs • QC=0 • QC=0 QC=1 • QC=1 500 QC=2 QC=2







Detailed View







Detailed View











Summary Reports



 For a specific date range, all 30 minute EddyPro summary results can be downloaded in one table

Detail View	art Order					QA/QC
Start Date	2017-08-05	End Date	2017-08-07	Download	Cancel	



User Management



Click Setup and then choose to modify your profile or manage another user's profile



User Management

					 Add a ne 	w user				
Users	Users All Registered Users									
Setup Options 1 Personal Profile										
Show 10 🗘	Show 10 🗘 entries 🚯 add entry									
Name	🔺 Email 🔶	Active 🔶	Roles 🔶	Created 🔶	Last Login 🔶	Action 🔶				
Adam	adam.mcquistan@licor.com	•	Station Admin, User Admin	2017-05-23 13:41	2017-07-28 20:39	0				
DaveJ	dave.johnson@licor.com	۲	Station Admin	2017-05-30 16:27	2017-05-30 16:28	0				
Eric	eric.price@licor.com	ø	Station Admin	2017-05-25 20:37	2017-06-02 15:26	0				
Frank	frank.griessbaum@licor.com	۲	Station Admin	2017-06-02 12:11	2017-06-07 08:06	0				
Fritz	fritz.grothe@licor.com	Ø	Station Admin	2017-05-23 13:43	2017-05-25 19:34	0				
James	james.kathilankal@licor.com	۲	Station Admin	2017-05-24 20:47	2017-06-02 18:24	0				
Jiahong	jiahong.li@licor.com	Ø	Station Admin	2017-05-23 16:50	2017-05-30 21:15	0				
Liukang Xu	liukang.xu@licor.com	ø	Station Admin	2017-05-30 16:28	2017-05-30 18:10	0				
Mike	michael.velgersdyk@licor.com	۲	Station Admin, User Admin	2017-08-07 02:02	2017-08-07 03:48	0				
Mike	mike.vanek@licor.com	Ø	Station Admin	2017-05-23 13:43	2017-05-24 15:58	0				

Showing 1 to 10 of 11 entries

4 Þ



User Management - Add a User

- Click the "add entry" button and enter a name and email address for the new account
- The email address will be the login name of the new account so it needs to be valid
- Click Save and then the account can be modified to add permissions and stations

Show 10 🗘 entries 🚯 add entry Search:							
Name 🔺	Email 🌲	Active 🝦	Roles 🔶	Created 🔶	Last Login 🛛 🍦	Action 🔶	
						Save	
		S				Cancel	
			Station				



User Management

how 10 🗘	entries 🛞 add entry				Search:		
Name	Email 🔶	Active 🔶	Roles 🔶	Created 🝦	Last Login 🔶	Action 🔶	Edit existin
Adam	adam.mcquistan@licor.com	۲	Station Admin, User Admin	2017-05-23 13:41	2017-07-28 20:39	0	user
DaveJ	dave.johnson@licor.com	۲	Station Admin	2017-05-30 16:27	2017-05-30 16:28	0	
Eric	eric.price@licor.com	۲	Station Admin	2017-05-25 20:37	2017-06-02 15:26	0	
Frank	frank.griessbaum@licor.com	۲	Station Admin	2017-06-02 12:11	2017-06-07 08:06	0	
Fritz	fritz.grothe@licor.com		Station Admin	2017-05-23 13:43	2017-05-25 19:34	•	
ames	james.kathilankal@licor.com	۲	Station Admin	2017-05-24 20:47	2017-06-02 18:24	•	
liahong	jiahong.li@licor.com	ø	Station Admin	2017-05-23 16:50	2017-05-30 21:15	•	
Liukang Xu	liukang.xu@licor.com	۲	Station Admin	2017-05-30 16:28	2017-05-30 18:10	6	
Mike	michael.velgersdyk@licor.com	۲	Station Admin, User Admin	2017-08-07 02:02	2017-08-07 03:48	0	
Mike	mike.vanek@licor.com	۲	Station	2017-05-23	2017-05-24 15:58	0	

Showing 1 to 10 of 11 entries

- F



User Management

Defining users, access and rights





Edit User

Ted User Profile	
Setup Options 👤 Personal	file 😃 Users
Name: Ted	Email: ted@ecotek.cn Edit personal information
Position:	Cell:
Department:	Phone:
Institution:	Address:
License Number:	00001
Roles 💉	Change roles for the new user
Station Admin	-Allow them to add stations and users to the system
🔵 User Admin	
Peset Password Deactivate	Send password reset email to the user or
Deactivate	
Assigned Stations	deactivate the account
Show 10 🗘 entries 🕣 add en	Search:
Station Name 🔺 Edit Station In	
	No data available in table
Showing 0 to 0 of 0 entries	
ļΑ	ow the user to 'see' a station



Assign Stations

Assigned Stations





User Information

Profile information for each user Edit Mike User Profile **1** Personal Profile 🚠 Groups 💽 Setup Options 🤽 Users Email: michael.velgersdyk@licor.com Name: Mike **Position:** Software Engineer Cell: 555-1212 **Department:** Engineering Phone: Institution: LI-COR Address: Lanzhou, China License Number: FS-00001 **Reset Password Reset Password**



Mobile Access

Station snapshot



Flux details







Thank You

Questions?

