

Settings and Daily Locomotor Activity

Activity Profiles

(<https://karolcichewicz.shinyapps.io/shinyr-dam/#tab-8615-2>)

Sleep Analysis

(<https://karolcichewicz.shinyapps.io/shinyr-dam/#tab-8615-3>)

Actograms

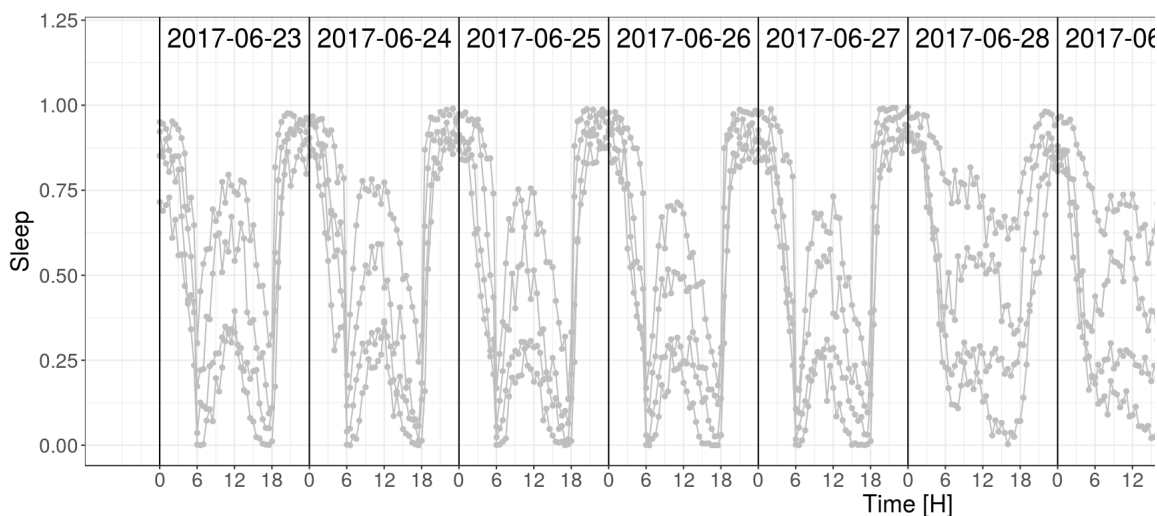
(<https://karolcichewicz.shinyapps.io/shinyr-dam/#tab-8615-4>)

Circadian Period Analysis

(<https://karolcichewicz.shinyapps.io/shinyr-dam/#tab-8615-5>)

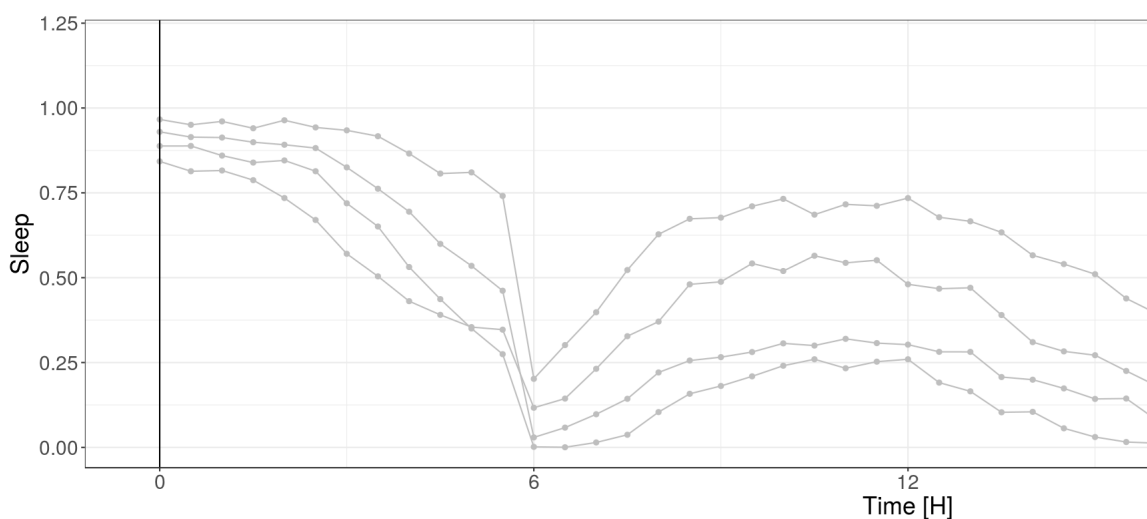
Documentation

Daily sleep profiles



[Download daily sleep profile data.csv \(session/da34baa2b25fb6b514ffef1674551f2b/download/download_daily_sleep?w=f5be2c20\)](#)

Average sleep profiles in LD



[Download average sleep profile in LD data.csv \(session/da34baa2b25fb6b514ffef1674551f2b/download/download_average_sleep_\)](#)

Conditions on a plot

- ☒ Overlap
☐ Split

Display SEM error bars

- ☐ Yes
☒ No

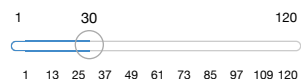
Display dates on a plot

- ☒ Yes
☐ No

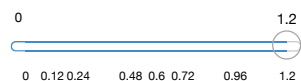
X-axis average sleep profile time scale

- ☒ Data acquisition time
☐ Zeitgeber time

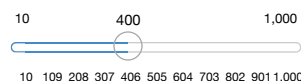
Bin sleep profile data points into average [min]



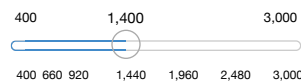
Max value of sleep displayed



Plot height [pixel]

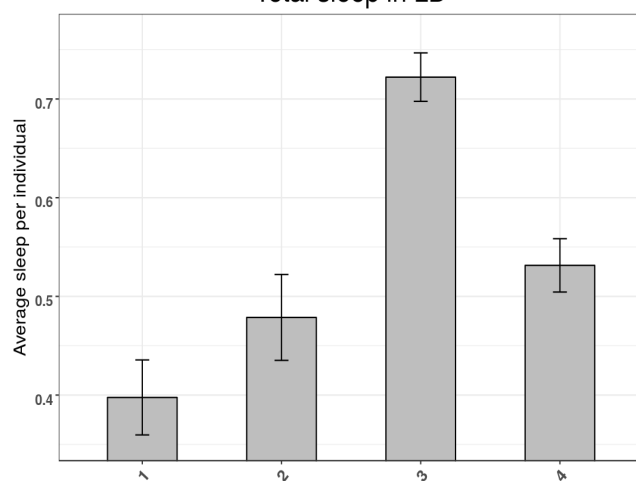


Plot width [pixel]



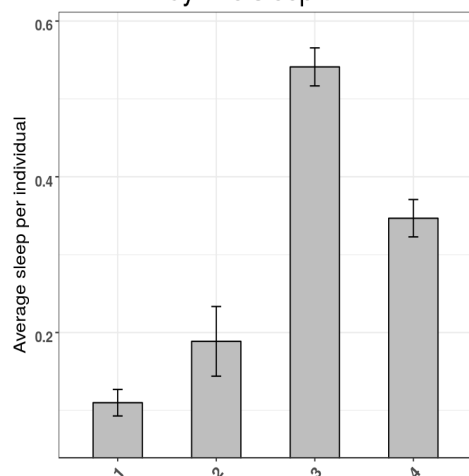
Plot Sleep Profiles

Total sleep in LD



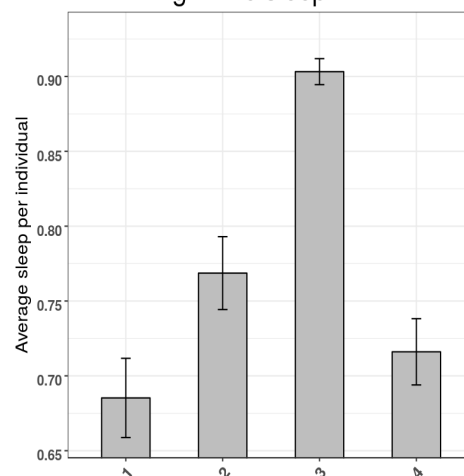
Condition	mean_of_sleep_per_condition	sem
1	0.40	0.04
2	0.48	0.04
3	0.72	0.02
4	0.53	0.03

Daytime sleep in LD



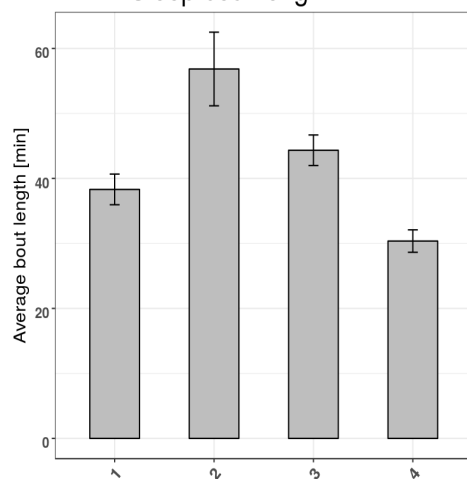
Condition	Light_status	mean_of_sleep_per_condition	sem	Condition	Light_status	mean_of_sleep_per_condition	sem
1	Day	0.11	0.01	1	Night	0.69	0.01
2	Day	0.19	0.02	2	Night	0.77	0.02
3	Day	0.54	0.01	3	Night	0.91	0.01
4	Day	0.35	0.01	4	Night	0.72	0.02

Nighttime sleep in LD

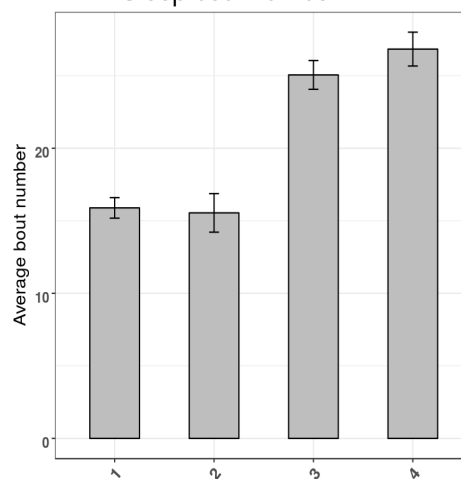


[Download individual fly day and night sleep data.csv \(session/da34baa2b25fb6b514ffef1674551f2b/download/download_ind_day_1\)](#)

Sleep bout length in LD

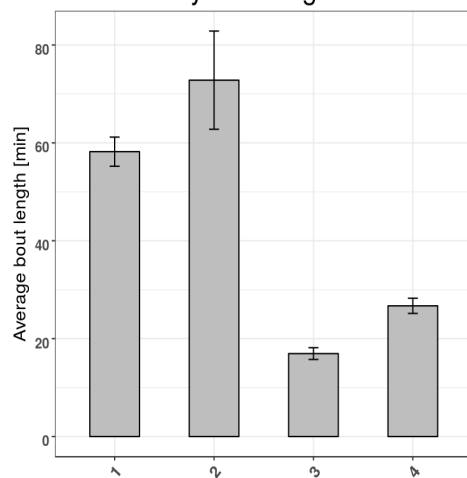


Sleep bout number in LD

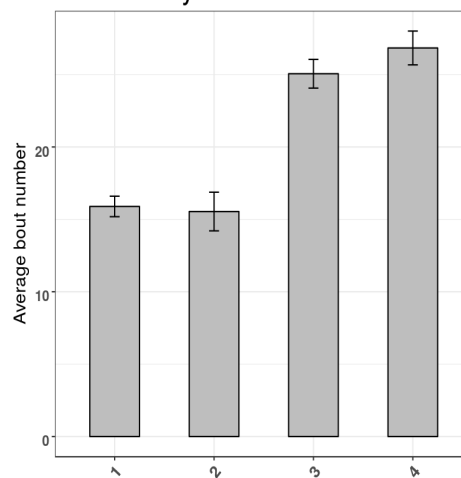


Condition	Light_cycle	Bout_type	Mean_bout_length	Condition	Light_cycle	Bout_type	Mean_bout_number	SE
1	LD	sleep	38.00	1	LD	sleep	15.89	0.15
2	LD	sleep	57.00	2	LD	sleep	15.55	1.00
3	LD	sleep	45.06	3	LD	sleep	25.06	0.15
4	LD	sleep	30.84	4	LD	sleep	26.84	1.00

Activity bout length in LD

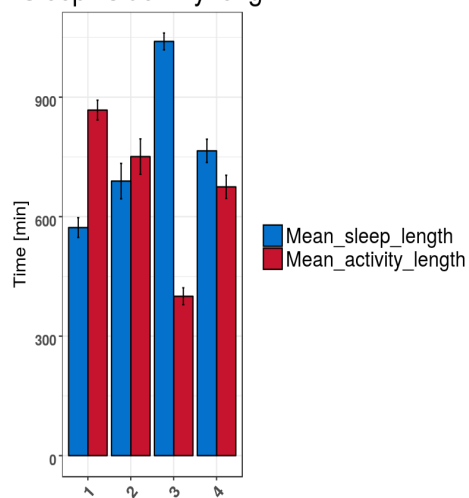


Activity bout number in LD

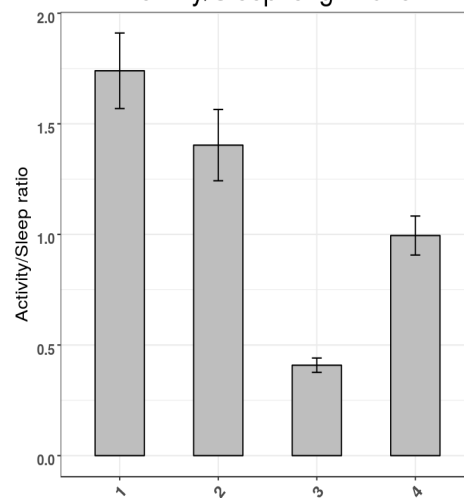


Condition	Light_cycle	Bout_type	Mean_bout_length	Condition	Light_cycle	Bout_type	Mean_bout_number	SE
1	LD	activity	59.00	1	LD	activity	15.89	0.15
2	LD	activity	73.00	2	LD	activity	15.54	1.00
3	LD	activity	18.06	3	LD	activity	25.06	0.15
4	LD	activity	27.84	4	LD	activity	26.84	1.00

Sleep vs activity length



Activity/Sleep length ratio



Condition	Light_cycle	variable	value	Condition	Light_cycle	Activity_to_sleep_length	SEM
1	LD	Mean_sleep_length	572	1	LD	1.74	0.17
1	LD	Mean_activity_length	867	2	LD	1.40	0.16
2	LD	Mean_sleep_length	689	3	LD	0.41	0.03
2	LD	Mean_activity_length	750	4	LD	0.99	0.09
3	LD	Mean_sleep_length	1039.90				
3	LD	Mean_activity_length	400.10				
4	LD	Mean_sleep_length	765.25				
4	LD	Mean_activity_length	674.75				

[Download individual sleep activity bout LD data.csv \(session/da34baa2b25fb6b514ffef1674551f2b/download/download_slp_act_bc](#)