

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

Only DD days are used in the Circadian Period Analysis

Mean periodograms

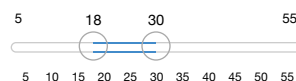
Display SEM error bars

- ☐ Do not display
- ☒ Overlap conditions
- ☐ Split conditions

Individual periodograms

- ☐ Do not display
- ☐ Display individual periodograms
- ☒ Group by condition

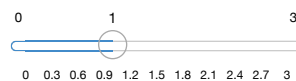
Chi-Sq period testing range [h]



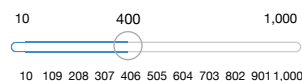
Chi-Sq period testing resolution [h]



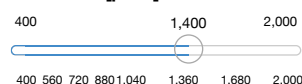
Rhythmicity threshold for filtering arrhythmic individuals [Qp.act/Qp.sig]



Plot height [pixel]

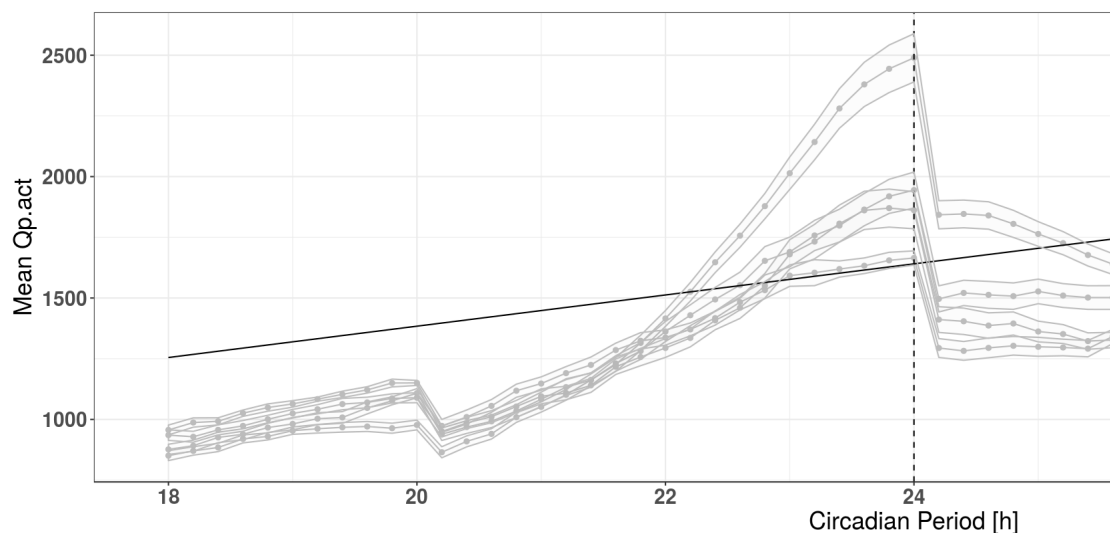


Plot width [pixel]



Calculate Periodograms

Mean periodograms

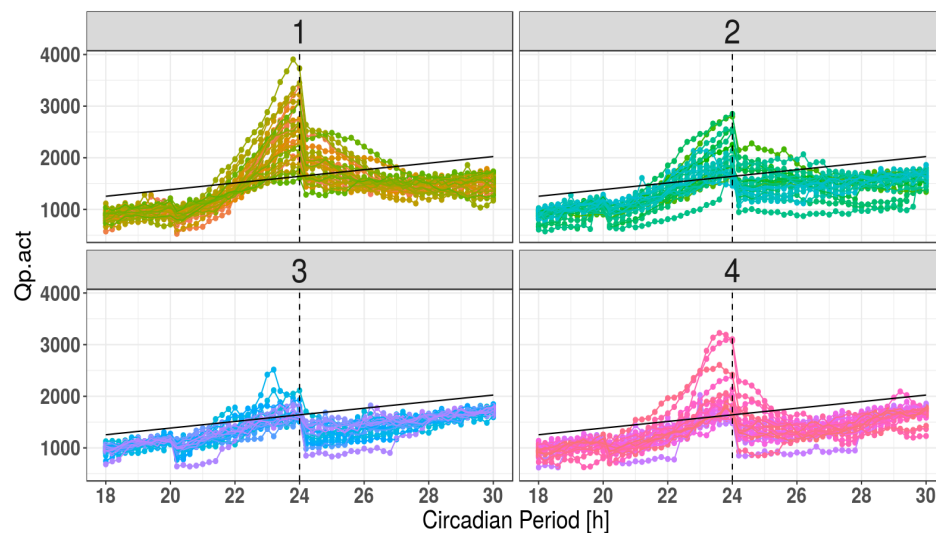


[Download mean periodograms data.csv \(session/da34baa2b25fb6b514ffe1674551f2b/download/download_mean_period_by_conditi](#)

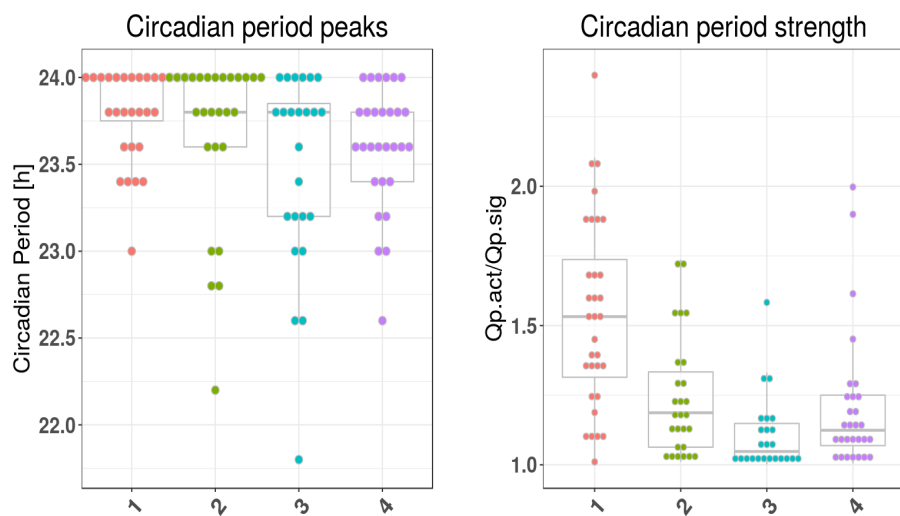
Mean periodograms period peaks as displayed on the plot above

Condition	Period	Mean_Qp.act	SEM_Qp.act	N_of_rhythmic_flies	Mean_Qp.sig	Mean_Qp.act_Qp.sig_rati
1	24.00	2489.27	99.38	32	1640.68	1.5
2	24.00	1944.47	74.14	27	1640.68	1.1
3	23.80	1654.95	33.20	24	1627.88	1.0
4	23.60	1860.91	78.81	29	1615.07	1.1

Individual periodograms



[Download individual periodograms data.csv \(session/da34baa2b25fb6b514ffef1674551f2b/download/download_individual_periodogr](#)



[Download individual fly period peak data.csv \(session/da34baa2b25fb6b514ffef1674551f2b/download/download_individual_period_p](#)

Statistics of individual periodograms period peaks

Condition	Median_period	Mean_period	SEM_period	N_of_rhythmic_flies	Mean_Qp.act	SEM_Qp.act	N
1	24.00	23.81	0.05	32	2510.93	100.05	
2	23.80	23.68	0.09	27	2009.12	68.52	
3	23.80	23.48	0.12	24	1777.93	43.11	
4	23.60	23.61	0.06	29	1949.93	75.32	