Activity 18: Periodogram example

Started: Mar 31 at 10:45am

Quiz Instructions

Complete the worksheet periodogramexample.pdf <a href="mail

Question 1	1 pts
(On Problem 1 on the worksheet) How many cycles would you say were completed the eight-hour time period?	over

Question 2	2 pts
(On Problem 2 on the worksheet) a) Which (model) frequency has the largest contribution to the spectrum?	
Enter a decimal with 3 decimal places: 0.125	
b) What is the wavelength (in minutes) of this frequency?	
Enter an integer: 80	

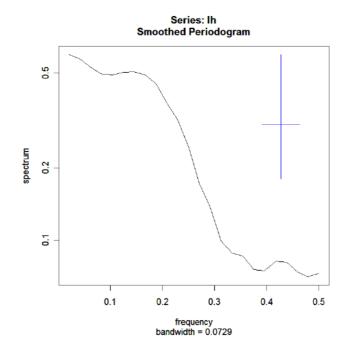
Question 3	1 pts
(On Problem 3 on the worksheet) Are the data consistent with a series having a frequency component that is exactly sinusoidal?	
O Yes	

Question 4 3 pts

(On Problem 4 on the worksheet) Which of the following do you think is the better smoothed periodogram?

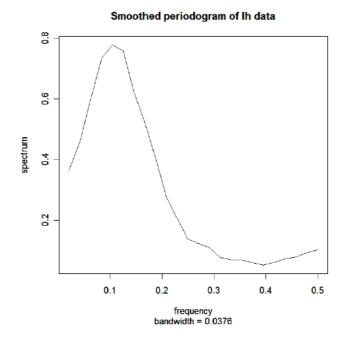
Plot (a)

(a) speclh <- spec.pgram(lh, spans=12)



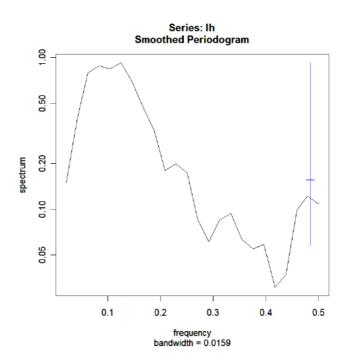
Plot (b)

(b) speclh <- spec.pgram(lh, spans=6)



Plot (c)

(c) speclh <- spec.pgram(lh, spans=3)





Quiz saved at 10:49am

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