Lab 04 – fjsimonsl04

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March 1, 2017

Abstract

Here is the short summary of what I have done, namely the spectral analysis of a weather time series. This really isn't going to be long. Don't tell us "an analysis was made", but tell us what you id, and what you found, and why it's important.

1 Introduction & Motivation

Why is weather interesting? What am I looking for? Where do the data come from?

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2 Methodology

What am I doing? A Fourier analysis! What key MATLAB commands are involved?

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful. Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure.

3 Results

Here goes my figure, to which I refer as Figure 1, and about which I write something reasonable. **It will be hard to precisely control the location of the figure, as LaTeX will determine an "appropriate" location based on how much text you will write, and so on. Do not stress about it. It will get easier with time.**

To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it? But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure?
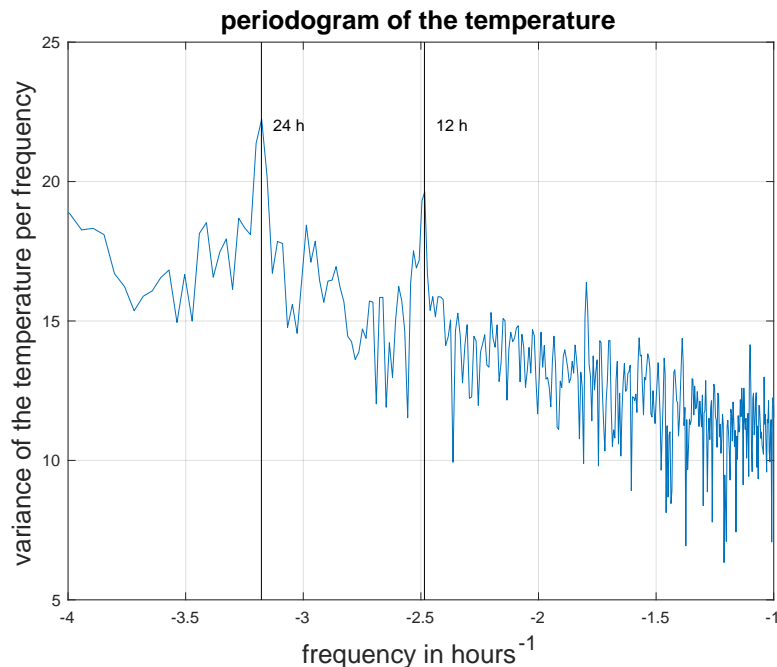

Figure 1: Spectral analysis of weather data for these dates, as a Hanning-windowed periodogram computed using MATLABs `fft` routine, with the significant periods clearly labeled.

4 Conclusions

And this is what I have done! Comoedia finita est.