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Subject: TS\_HANTS function question

Posted by [Teddy Allen](#) on Thu, 22 Sep 2016 21:11:33 GMT

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Hello,

I am in the process of using the new TS\_HANTS function and would like to verify that my understanding of its use is accurate.

Does the TS\_HANTS function fit a harmonic (order determined by the NUM\_FREQUENCIES keyword) to a specified time series? For example, I have a 365 day annual rainfall climatology at a specific location and would like to calculate and plot the 3rd harmonic of the time series. I have used the following for calculation:

```
harmonic3 = TS_HANTS(rainfall, NUM_FREQUENCIES=4)
```

I gather that NUM\_FREQUENCIES = 1 is simply a horizontal line and 2 is the actual first harmonic. Are my assumptions above correct? If so, this new function is a miracle to use!

Thank you for your help. Much appreciated.

teddy

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