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# Pairwise comparison report

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## Abstract

This report gives a comparison between Gold and USD Index.

### 1 Share components

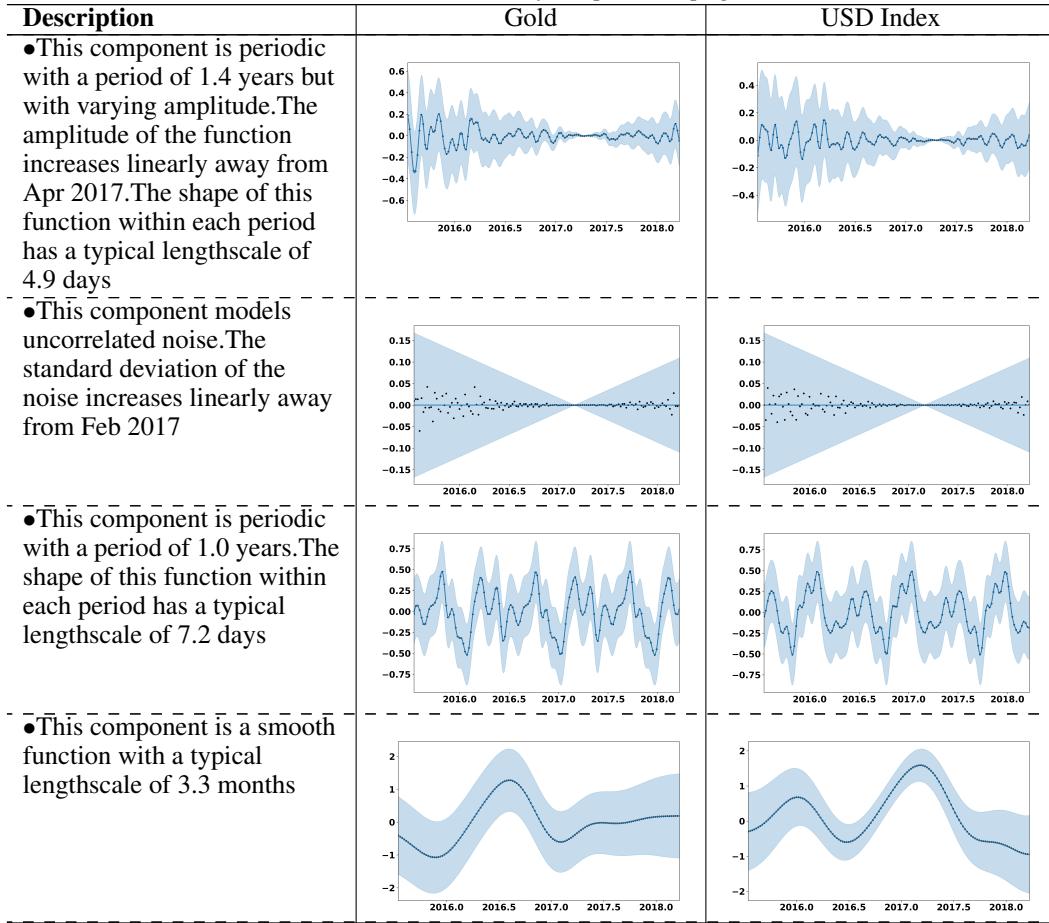
This section contains components which are shared between Gold and USD Index. There are 7 common components in total. They are will be fully described in Table 1.

Table 1: Share components

Description	Gold	USD Index
Plot of posterior mean and variance		
• This component is periodic with a period of 1.0 years but with varying amplitude. The amplitude of the function increases linearly away from Nov 2016. The shape of this function within each period has a typical lengthscale of 4.2 months		
• This component is periodic with a period of 2.8 years. The shape of this function within each period has a typical lengthscale of 3.9 days		
• This component is a smooth function with a typical lengthscale of 2.7 weeks		

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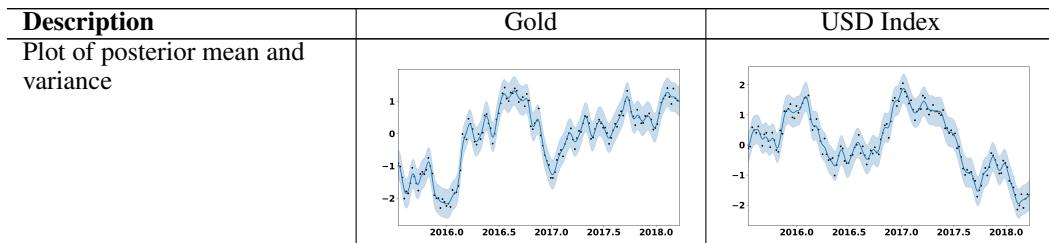
Table 1 – *Continued from previous page*



## 2 Individual components

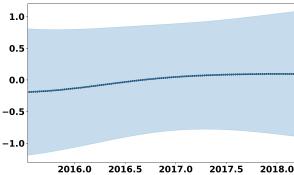
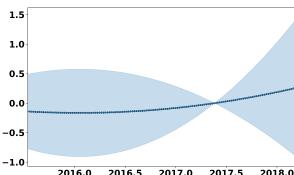
This section contains components which are differed between Gold and USD Index. There are 4 components in total. They are will be fully described in Table 2.

Table 2: Individual components



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Table 2 – *Continued from previous page*

Description	Gold	USD Index
<ul style="list-style-type: none"> <li>This component is very approximately periodic with a period of 3.2 years. Across periods the shape of this function varies smoothly with a typical lengthscale of 1.1 years. Since this lengthscale is small relative to the period this component may more closely resemble a non-periodic smooth function</li> <li>This component is a quadratic polynomial</li> </ul>		
<ul style="list-style-type: none"> <li>This component is a very smooth function. The marginal standard deviation of the function increases linearly away from Nov 2016</li> </ul>		
<ul style="list-style-type: none"> <li>This component models uncorrelated noise. The standard deviation of the noise increases linearly away from Jun 2016</li> </ul>		