

**July 20, 2017**

### **Business Cycle Index**

The BCI at 225.0 is above last week's upward revised 224.7, but for this Business Cycle remains below the previous high as indicated by the BCIp at 94.2. However, the 6-month smoothed annualized growth BCIg at 14.6 is below last week's 14.8.

No recession is signaled.

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**July 21, 2017**

### **Market Signals Summary:**

The MAC-US model is invested. Also invested is the "3-mo Hi-Lo Index of the S&P500". The monthly updated S&P500 Coppock indicator is also invested. The MAC-AU is also invested. The recession indicators COMP and iM-BCIg do not signal a recession. The bond market model avoids high beta (long) bonds, and the downward trend in the yield curve continues. Both the gold and silver Coppock models are invested, and the iM-Gold Timer is in cash since 6/26/2017.

### **Stock-markets:**

The [MAC-US](#) model generated a buy-signal 4/5/2016 and thus is invested in the stock-markets. The sell-spread (red graph) is above last week's level and has to fall below zero to signal a sell.

The [3-mo Hi-Lo Index](#) of the S&P500 is above last week's level and at 9.25% (last week 7.80%) and is in the market since 5/25/2017.

The MAC-AU model is invested in the markets after it generated a buy signal on March 21, 2016. The sell-spread is below last week's level and has to fall below zero to signal a sell. This model and its application is described in [MAC-Australia: A Moving Average Crossover System for Superannuation Asset Allocations](#).

### **Recession:**

Figure 3 shows the COMP above last week's revised level. No recession is indicated. COMP can be used for stock market exit timing as discussed in this article [The Use of Recession Indicators in Stock Market Timing](#).

Figure 3.1 shows the recession indicator iM-BCI<sub>g</sub> which is down from last week's level. An imminent recession is not signaled. Please also refer to the [BCI page](#)

The Forward Rate Ratio between the 2-year and 10-year U.S. Treasury yields (FRR2-10) is near the previous week's level and far away from signalling a recession. A downward trend of the FRR2-10 has set in. A description of this indicator can be [found here](#).

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**July 21, 2017**

### **Bond-market:**

The [BVR-model](#) avoids high beta bonds (long-bonds) and also intermediate duration bonds. The Bond Value Ratio is shown in Fig 4. The BVR is near last week's level. According to the model, only when BVR turns upward after having been lower than the lower offset-line should one consider long bonds again.

### **The Yield Curve:**

The [yield curve model](#) indicates the trend of the 10-year and 2-year Treasuries yield spread. Figure 5 charts (i10 – i2) showing that the flattening trend, for now, may be broken. A buy FLAT signal was generated on 2/8/2017. FLAT and STPP are ETNs; STPP profits from a steepening yield curve and FLAT increases in value when the yield curve flattens. This model confirms the direction of the BVR.

### **Gold:**

The modified Coppock Gold indicator shown in Fig 6. This model generated a new buy signal early November 2016 and is invested in gold. This indicator is described in [Is it Time to Buy Gold Again? – Wait for the buy signal .....](#)

The [iM GOLD-TIMER Rev-1](#) is again invested in gold since 7/10/2017.

### **Silver:**

The modified Coppock Silver indicator shown in Fig 7. This model generated a new buy signal late November 2016 and is invested in silver. This indicator is described in [Silver – Better Than Gold: A Modified Coppock Indicator for Silver](#).

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# Monthly Updates

July 7, 2017

## Unemployment

The unemployment rate recession model ([article link](#)), has been updated with the May UER of 4.4%. Based on the historic patterns of the unemployment rate indicators prior to recessions one can reasonably conclude that the U.S. economy is not likely to go into recession anytime soon. The growth rate UERg is at minus 12.28% (last month minus 11.29%) and EMA spread of the UER is at minus 27% (last month minus 0.31%). Here is the link to [the full update](#).

## The Dynamic Linearly Detrended Enhanced Aggregate Spread:

The updated level of this indicator, -95bps, confirms the January 20, 2017 signal. Based on past history a recession could start at the earliest in October 2017, but not later than May 2019. The average lead time to previous recessions provided by DAGS was 15 months which would indicate a recession start for April 2018.

## Coppock Indicator for the S&P500

The Coppock indicator for the S&P500 entered the market end May 2017. This model is in stocks. This indicator is described [here](#).

## CAPE-Cycle-ID

Fig 9a depicts the CAPE-Cycle-ID and the year-on-year rate-of-change of the Shiller CAPE. A model using this indicator invests in the market when the Cycle-ID is +2 or 0, and when the Cycle-ID equals -2 the model is in cash. This indicator is described [here](#).

## Trade Weighted USD

The rise of the TW\$ value seems to be halted for now and is possible trending downwards.

## TIAA Real Estate Account

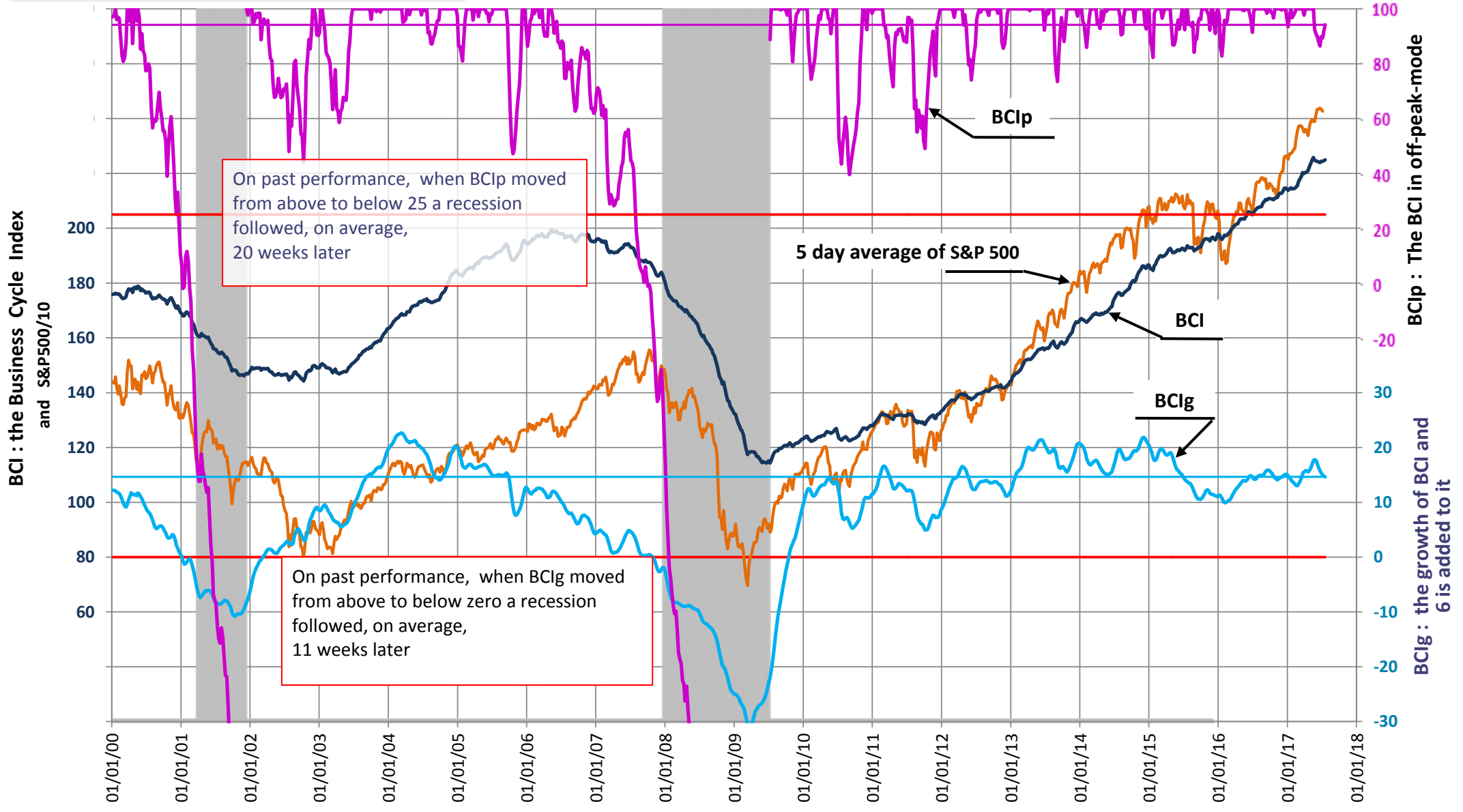
The 1-year rolling return for the end of last month is 3.98%. A sell signal is not imminent.

# iM's Business Cycle Index (BCI)

| Date | 06/22 | 06/29 | 07/06 | 07/13 | 07/20        |
|------|-------|-------|-------|-------|--------------|
| BCIp | 86.5  | 89.8  | 89.4  | 92.1  | <b>94.2</b>  |
| BCI  | 224.0 | 224.4 | 224.3 | 224.7 | <b>225.0</b> |
| BCIg | 15.8  | 15.4  | 15.0  | 14.8  | <b>14.6</b>  |

BCIp, BCI and BCIG  
updated to July 20, 2017

On past performance, BCIp = 100 can be interpreted as an average one year "time-to-live" to a recession.



Please note: Past performance does not guarantee future returns, investments may increase or decrease in value and you may lose money using this model.

### Figure 2: Buy and Sell signals for S&P 500 2010-16 from the modified golden-cross MAC-System



updated to...7/20/17

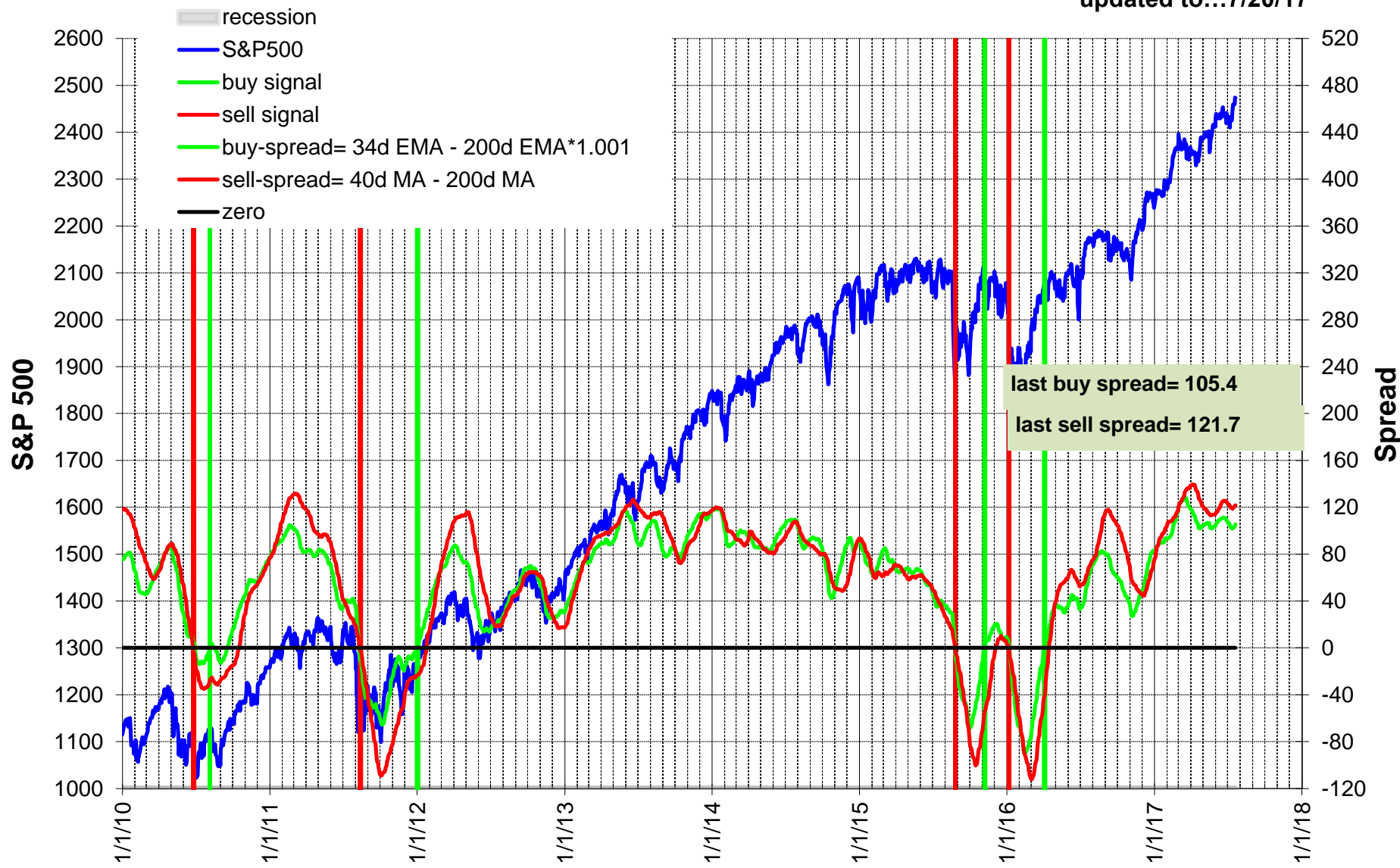


Fig 2.1: Buy and Sell signals for the Australia All Ordinaries Index from the MAC-AU System



updated to Jul-21-17  
last sell spread= 141.3

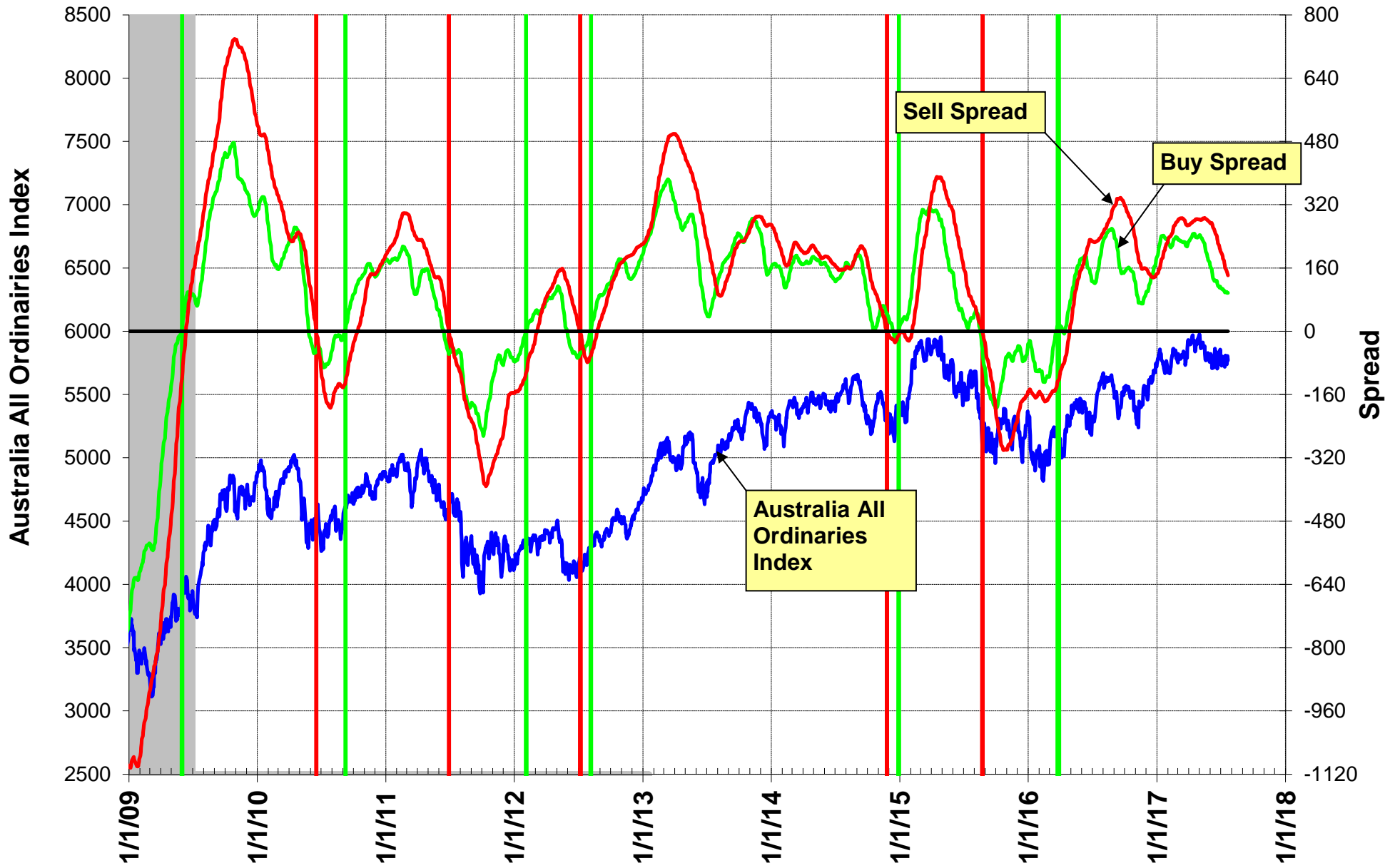


Fig 2.2 3-mo Hi-Lo Index of the S&P500 & 40-day SMA of Index

updated to 7/20/2017

last SMA:40= 9.25%

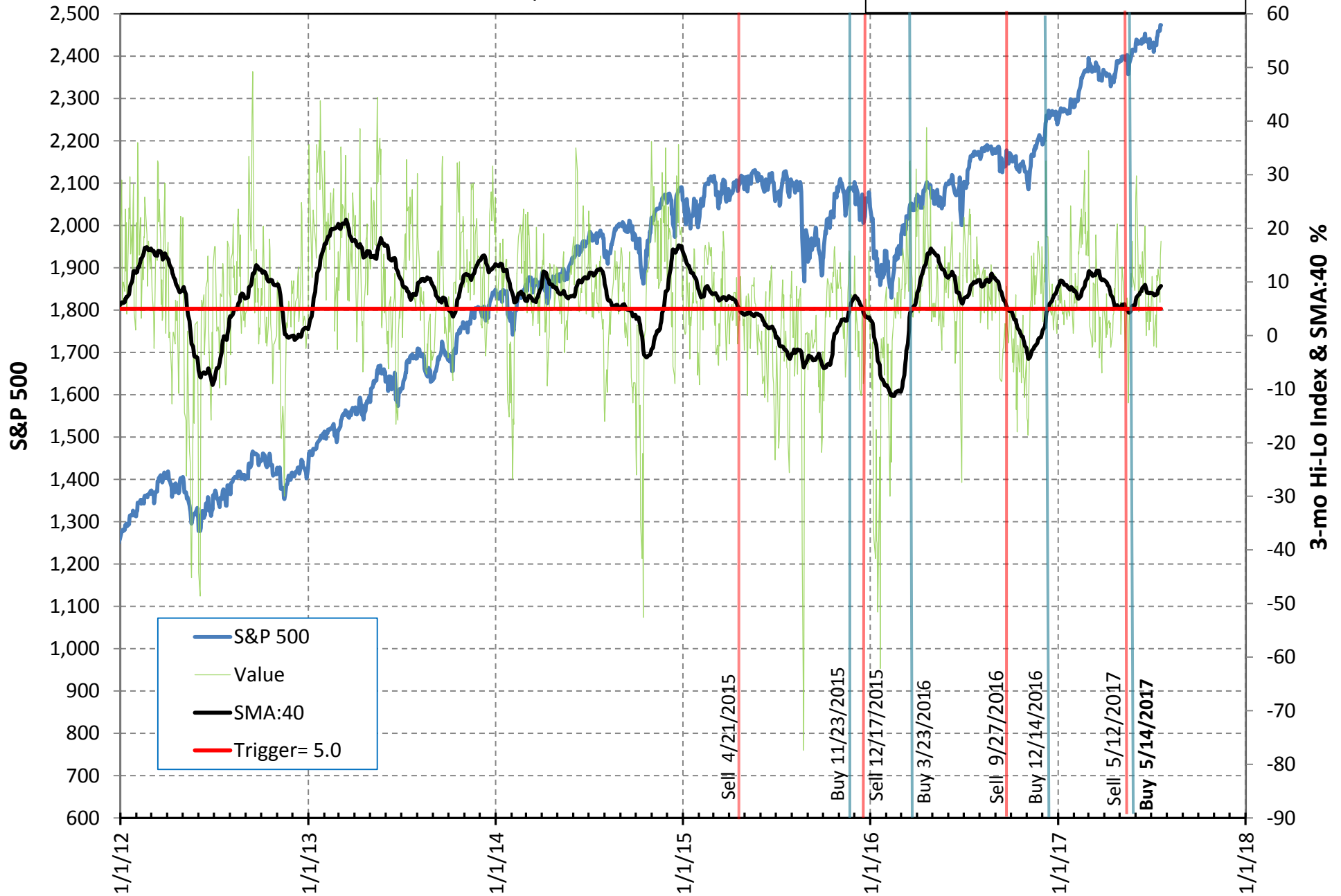
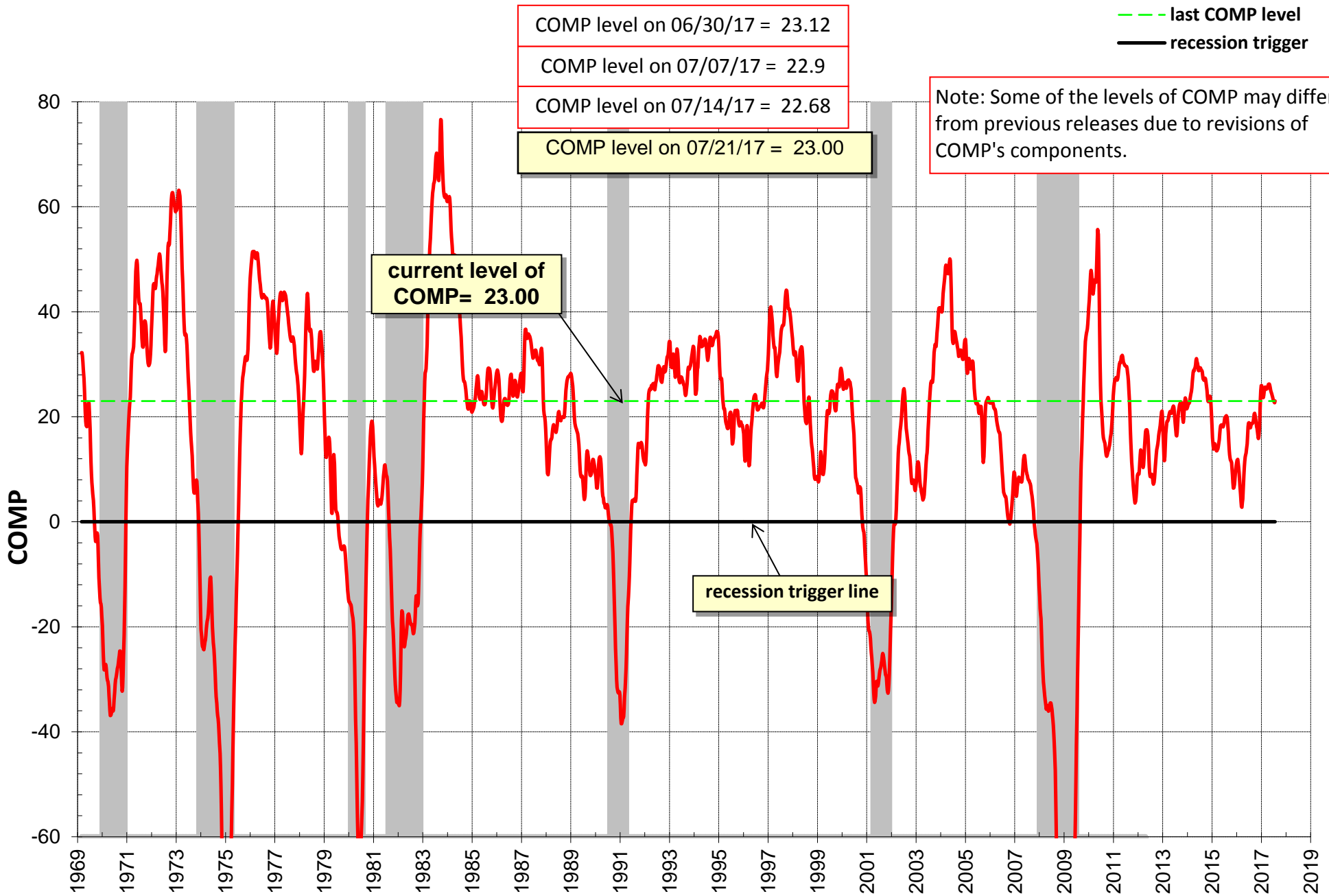


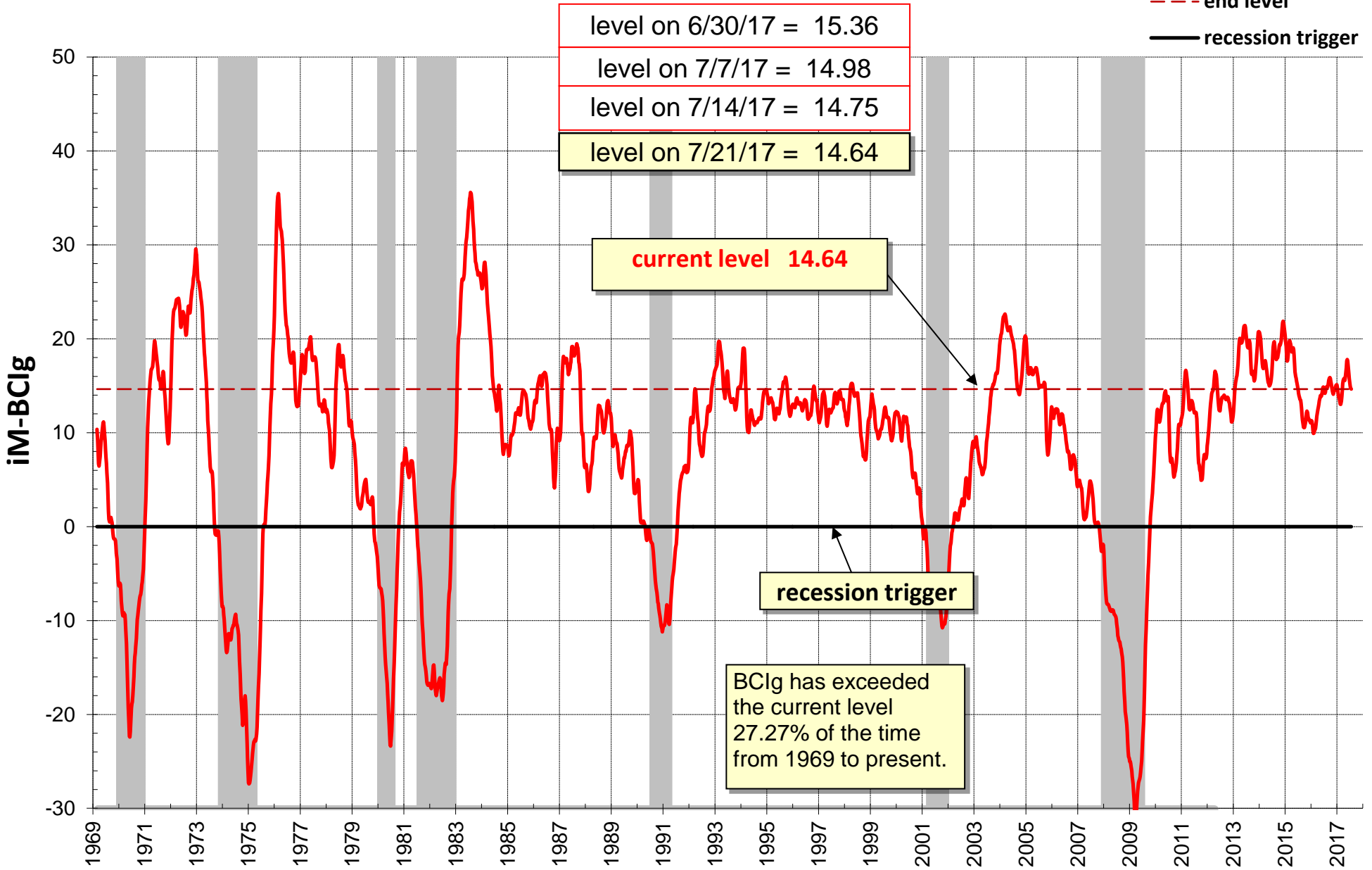
Fig. 3: COMP Leading Indicator of US Economy 1969-2016

- recession
- COMP
- last COMP level
- recession trigger



### Fig 3.1: iM-BCI<sub>g</sub> 1969-2016

- recession
- iM-BCI<sub>g</sub>
- end level
- recession trigger



**Figure 3.2: Forward Rate Ratio FRR2-10 - leads to Recessions**

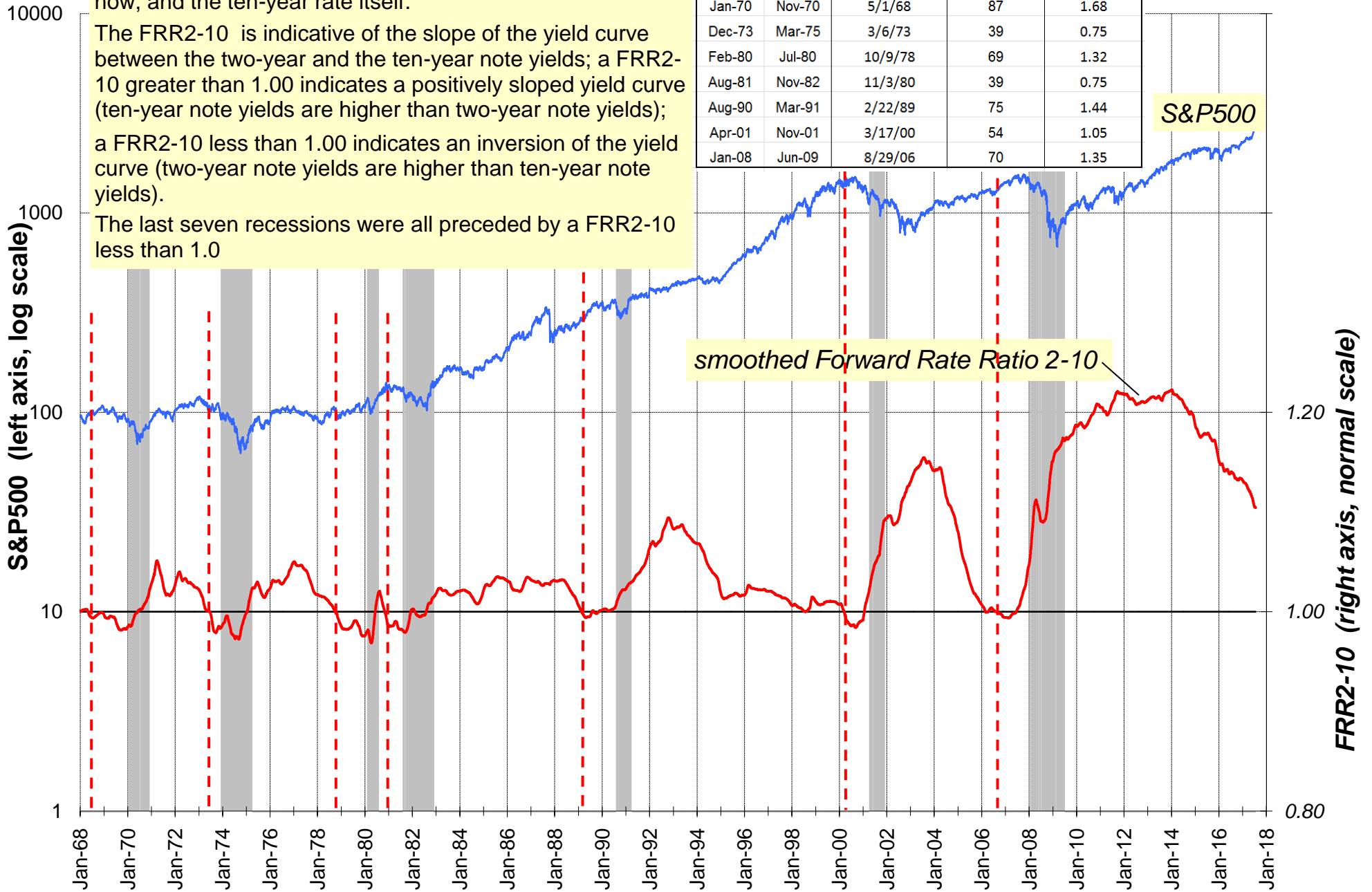
updated to 07/20/2017  
EMA of FRR2-10 = 1.10

FRR2-10 is the ratio of the rate at which one can lock in borrowing for the eight year period starting two years from now, and the ten-year rate itself.

The FRR2-10 is indicative of the slope of the yield curve between the two-year and the ten-year note yields; a FRR2-10 greater than 1.00 indicates a positively sloped yield curve (ten-year note yields are higher than two-year note yields); a FRR2-10 less than 1.00 indicates an inversion of the yield curve (two-year note yields are higher than ten-year note yields).

The last seven recessions were all preceded by a FRR2-10 less than 1.0

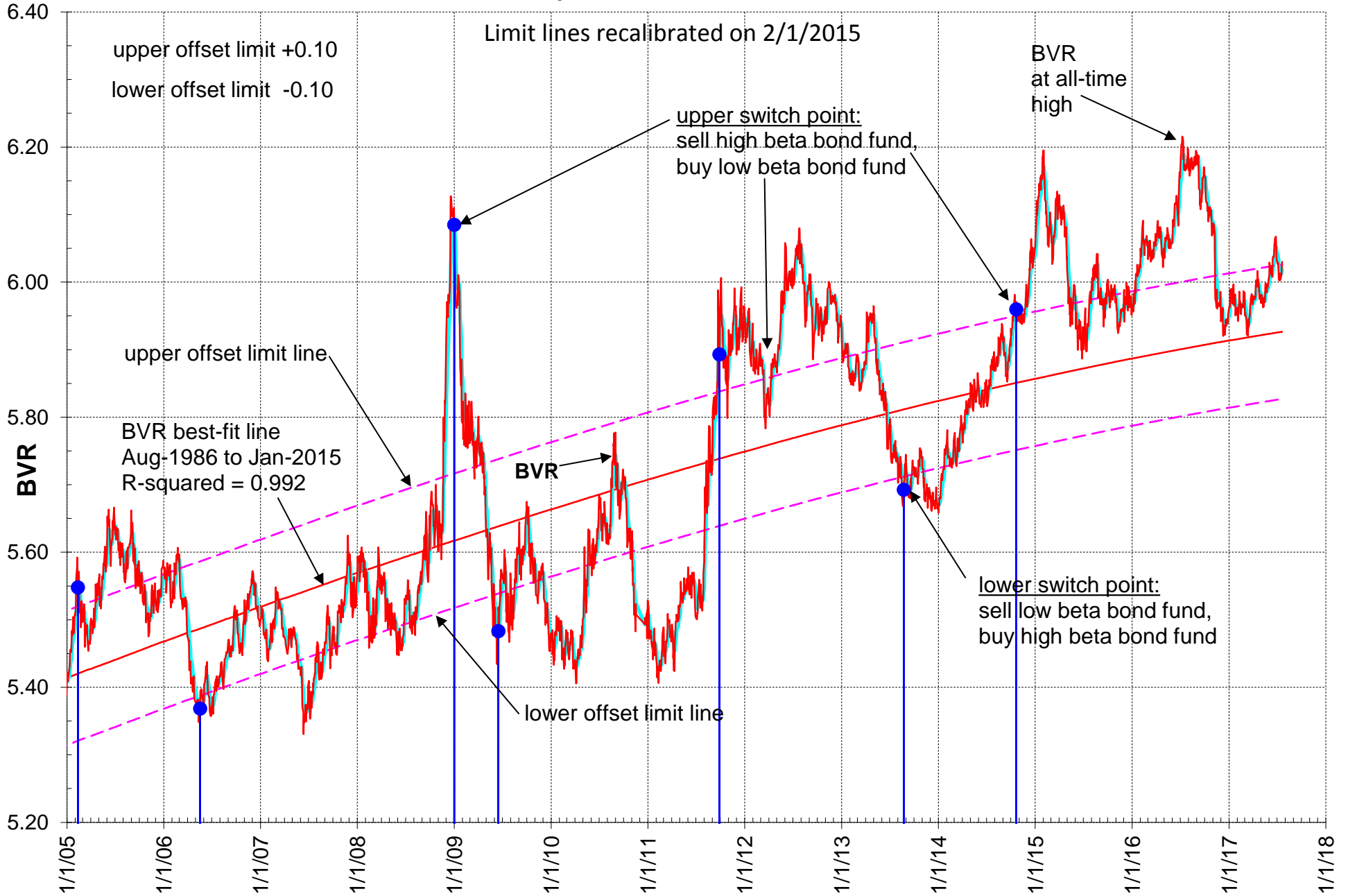
| Recessions start | Recessions end | Date when EMA of FRR2-10 less than 1.0 | Lead to Ression start (weeks) | Lead to Ression start (years) |
|------------------|----------------|--|-------------------------------|-------------------------------|
| Jan-70           | Nov-70         | 5/1/68                                 | 87                            | 1.68                          |
| Dec-73           | Mar-75         | 3/6/73                                 | 39                            | 0.75                          |
| Feb-80           | Jul-80         | 10/9/78                                | 69                            | 1.32                          |
| Aug-81           | Nov-82         | 11/3/80                                | 39                            | 0.75                          |
| Aug-90           | Mar-91         | 2/22/89                                | 75                            | 1.44                          |
| Apr-01           | Nov-01         | 3/17/00                                | 54                            | 1.05                          |
| Jan-08           | Jun-09         | 8/29/06                                | 70                            | 1.35                          |



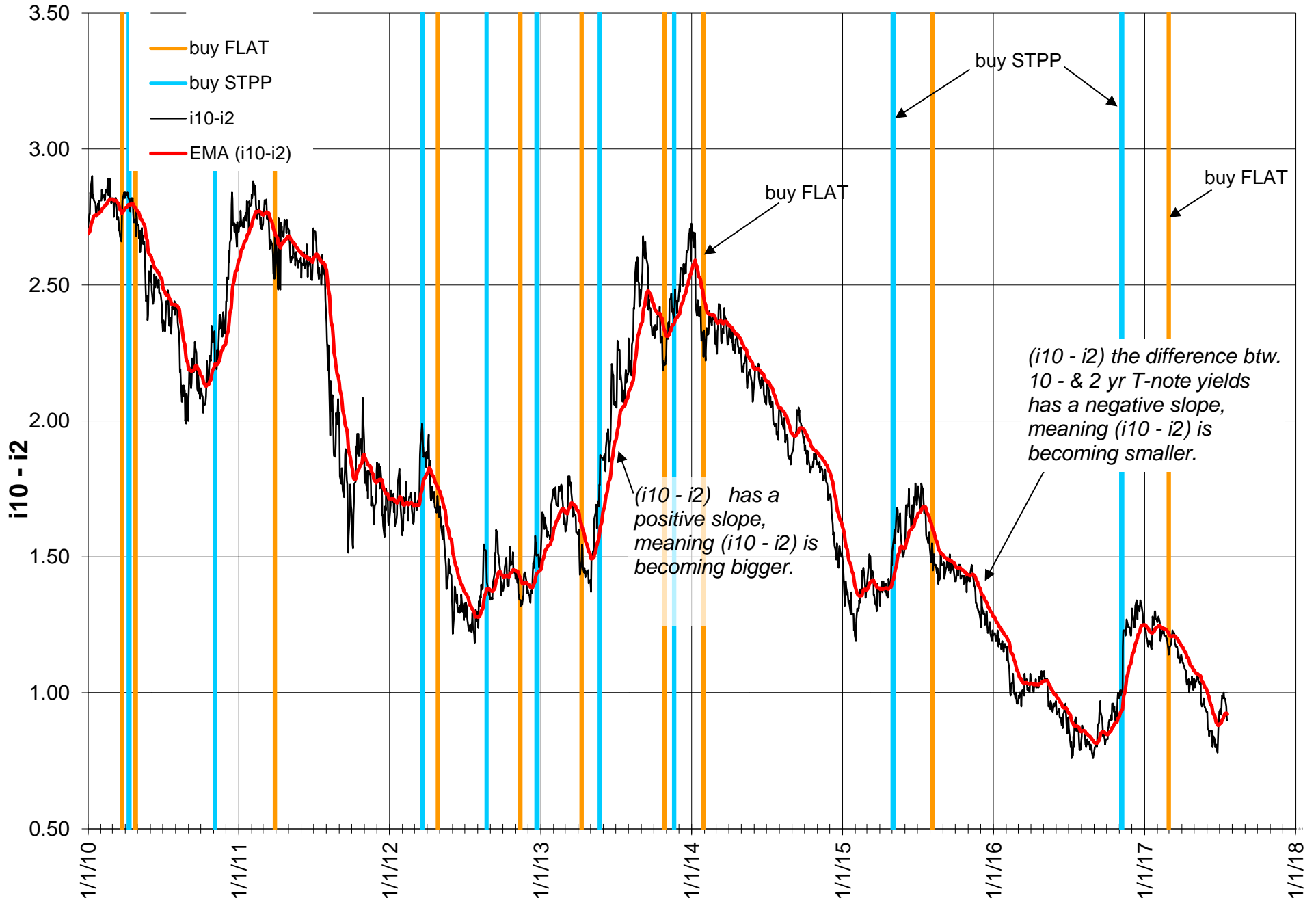
### Figure 4: Bond Value Ratio (BVR) from 2005 to 2017

Model updated to: 7/20/2017 BVR = 6.030

Limit lines recalibrated on 2/1/2015



**Figure 5: i10 - i2** Updated to.....7/20/17



### Figure 6: Modified Coppock Indicator for Gold 2009-2017

updated to 07/21/2017

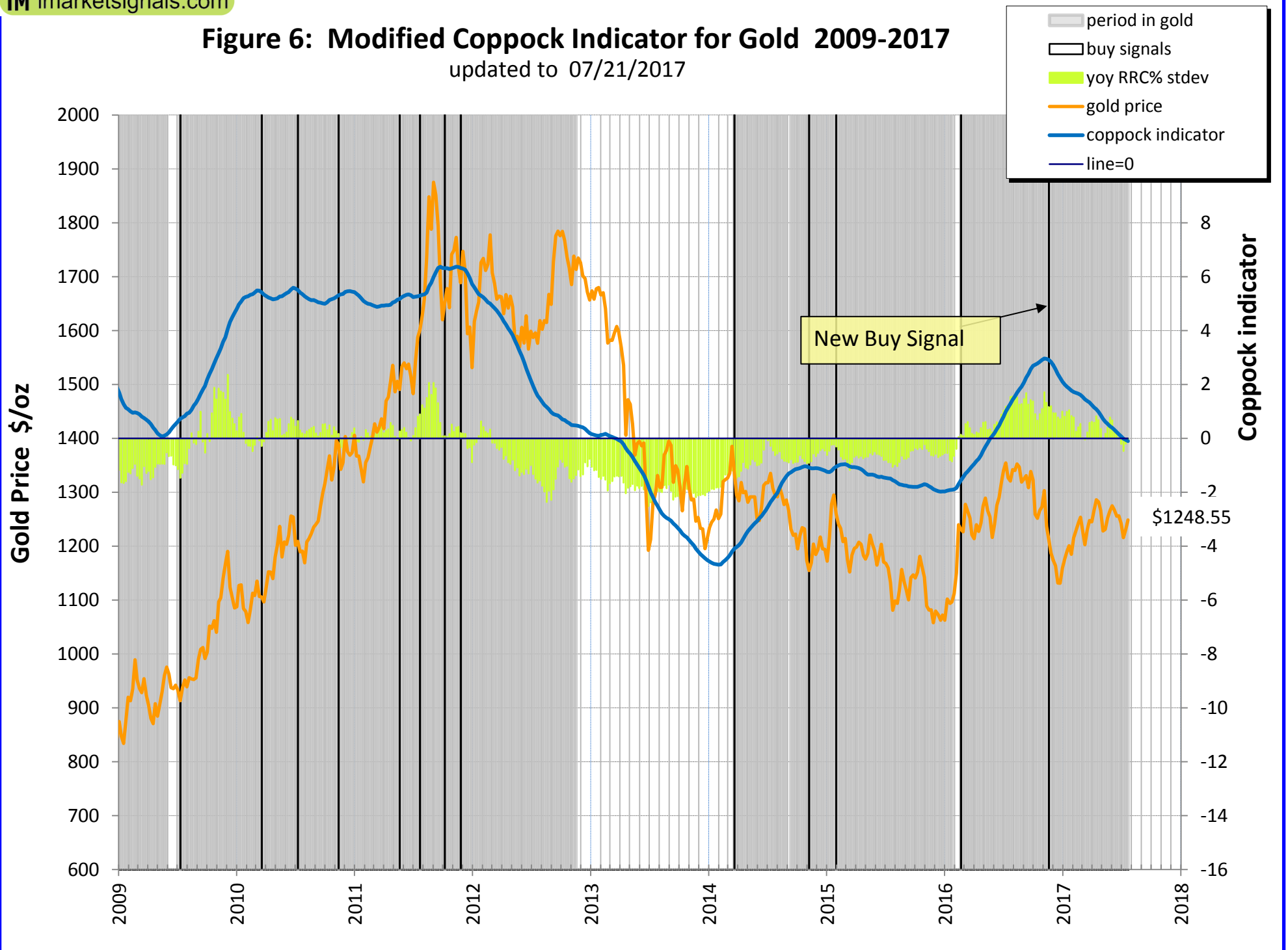
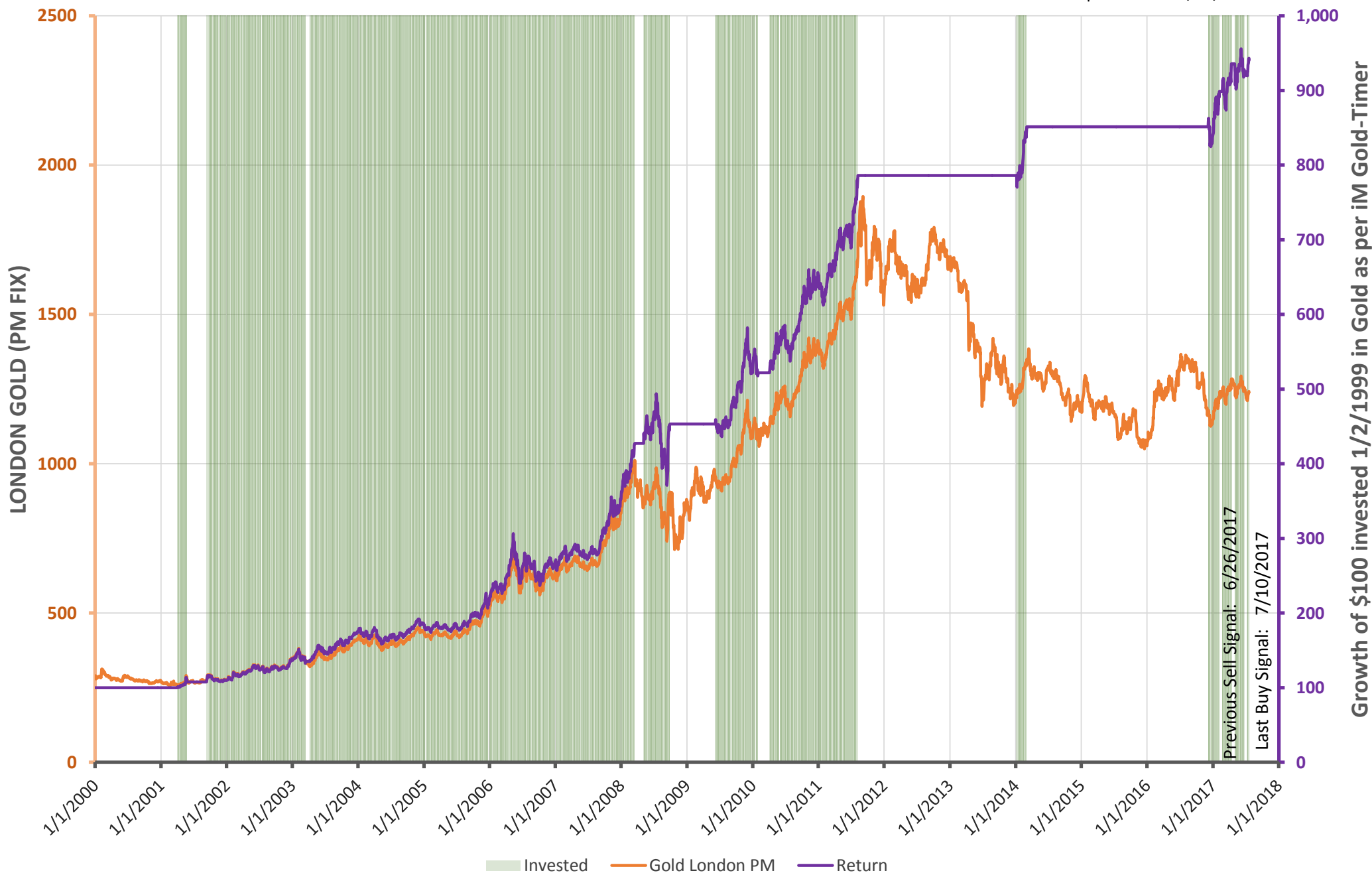


Fig. 6.1a iM GOLD-TIMER - Rev 1

Updated to: 7/20/2017



### Figure 7: Modified Coppock Indicator for Silver 2009-2017

updated to 07/21/2017

