October 3, 2019

Business Cycle Index

The BCI at 259.1 is up from last week's upward revised 258.2, and reached a new high for this business cycle indicated by the BCIp of 100. Also, the 6-month smoothed annualized growth BCIg at 10.7 is above last week's upward revised 10.4.

Both BCIp and BCIg are not signaling a recession.

October 4, 2019

Market Signals Summary:

The MAC-US model, iM-Low Frequency Timer, and the S&P500 Coppock are invested in the markets, however the "3-mo Hi-Lo Index of the S&P500" is out of the market. The MAC-AU is also invested in the markets. The recession indicators COMP and iM-BCIg do not signal a recession. The bond market model avoids high beta (long) bonds, and the yield curve is indeterminate. The gold Coppock remains invested in gold, however the silver model is in cash. The iM-Gold Timer is in cash. The monthly iM-Google Trend Timer has switched out of the stock-markets on 10/1/2019.

MAC-US

The MAC-US model switched into the markets on 2/26/2019. The sell-spread (red line) is below last week's value needs to move below zero to generate a sell signal.

3-mo Hi-Lo Index

The 3-mo Hi-Lo Index of the S&P500 is above last week's level at 3.09% (last week 2.24%), and is out of the market.

Coppock Indicator for the S&P500

The Coppock indicator for the S&P500 entered the market on 5/9/2019 and is invested.

MAC-AU

The MAC-AU model is invested in the markets after signaling a buy on February 7, 2019. The sell-spread (red line) is below last week's value and needs to move below zero to generate a sell signal.

Recession:

COMP

Figure 3 shows the COMP above last week's level. No recession is indicated.

iM-BCIg

Figure 3.1 shows the recession indicator iM-BCIg above last week's level. An imminent recession is not signaled

Forward Rate Ratio

The Forward Rate Ratio between the 2-year and 10-year U.S. Treasury yields (FRR2-10) is at last week's level and is not signaling a recession.

iM-Low Frequency Timer

The iM-Low Frequency Timer is back in the markets since 1/22/2019.

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 below last week's record high. 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) shows that the yield curve's trend is indeterminate. 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:

Coppock Gold

The modified Coppock Gold indicator shown in Fig 6. This model generated a new buy signal end March 2019 and is invested in gold.

iM GOLD-TIMER

The iM GOLD-TIMER Rev-1 sold gold on 12/31/2018 and the model is in cash

Silver:

Coppock Silver

The modified Coppock Silver indicator shown in Fig 7. This model generated a sell signal early August 2018 and is in cash.

Monthly Updates

October 4, 2019 (next update November 1, 2019)

Unemployment

The unemployment rate recession model (article link), has been updated with the September UER of 3.5%. The model does not signal a recession.

The Dynamic Linearly Detrended Enhanced Aggregate Spread:

The updated level of this indicator, -263bps, above last months -268bps, confirms the January 2017 signal. Based on past history a recession could have started as early as October 2017, but not later than July 2020.The average lead time to previous recessions provided by DAGS was 15 months which would indicate a recession start for April 2019. (Note: All our other recession indicators are far from signal a recession.)

CAPE-Cycle-ID

Fig 9a depicts the CAPE-Cycle-ID and the year-on-year rate-of-change of the Shiller CAPE; the level moved from +2 to 0 end of May-2019.

To avoid the bear market, exit stocks when the spread between the 5-month and 25-month moving averages of S&P-real becomes negative and simultaneously the CAPE-Cycle-ID score is 0 or -2.

Estimated Forward 10-Year Returns

The estimated forward 10year annualized real return decreased from 6.4% to 6.2% with a 95% confidence interval : 4.9% to 7.6 (previous 5.1% to 7.8%).

iM-GT Timer

Fig-10.-2-1-2019The iM-GT Timer, based on Google Search Trends volume is out the markets since 10/1/2019.

Trade Weighted USD

The trend of Trade Weighted $ value is indeterminate and remains strong.

TIAA Real Estate Account

The 1-year rolling return for the end of last month is 5.26%.   A sell signal is not imminent.

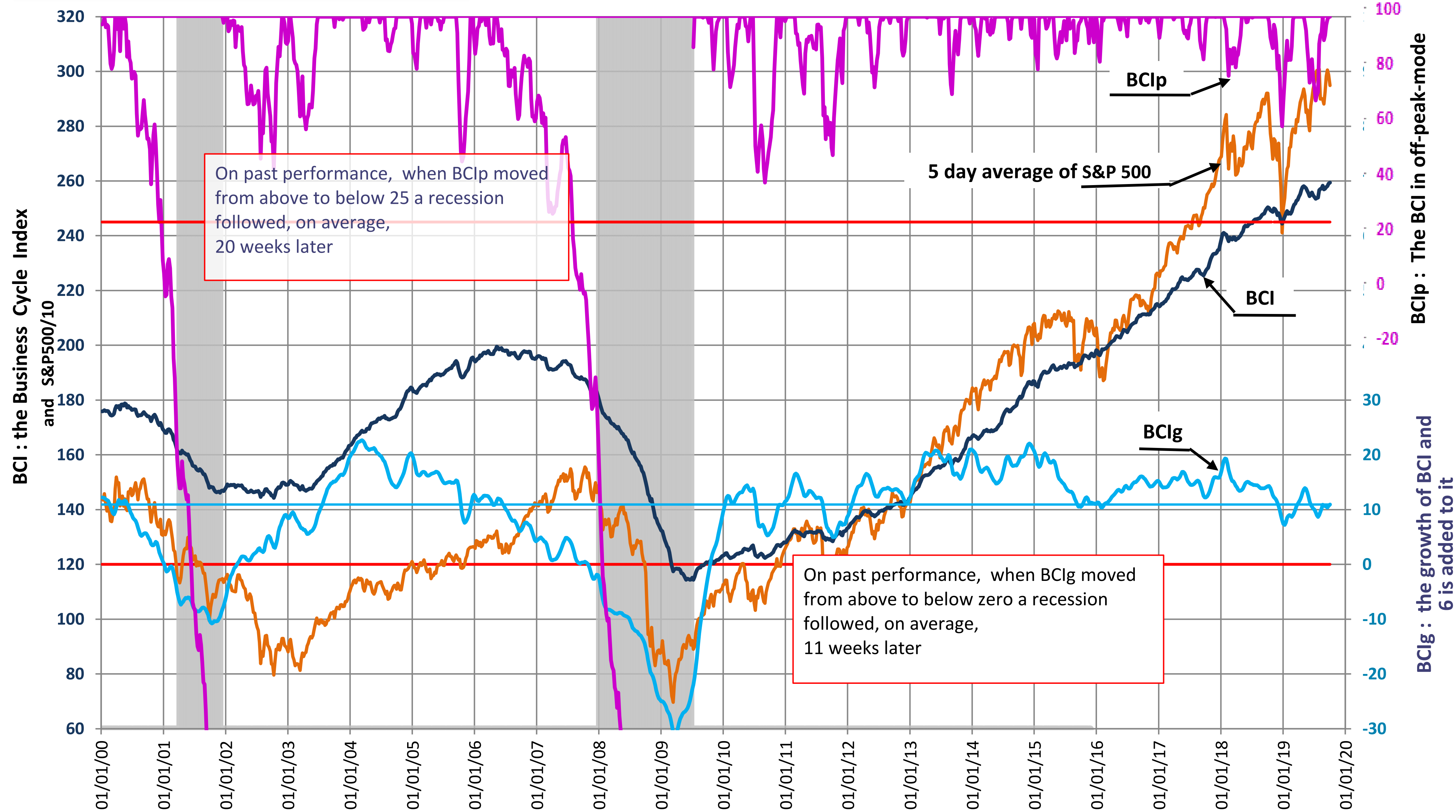
iM imarketsignals.com

iM's Business Cycle Index (BCI)

Date	09/05	09/12	09/19	09/26	**10/03**
BCIp	93.1	97.0	98.9	100.0	**100.0**
BCI	257.2	257.8	258.1	259.1	**259.4**
BCIg	10.6	10.6	10.4	10.7	**10.9**

BCIp, BCI and BCIg
updated to October 03, 2019

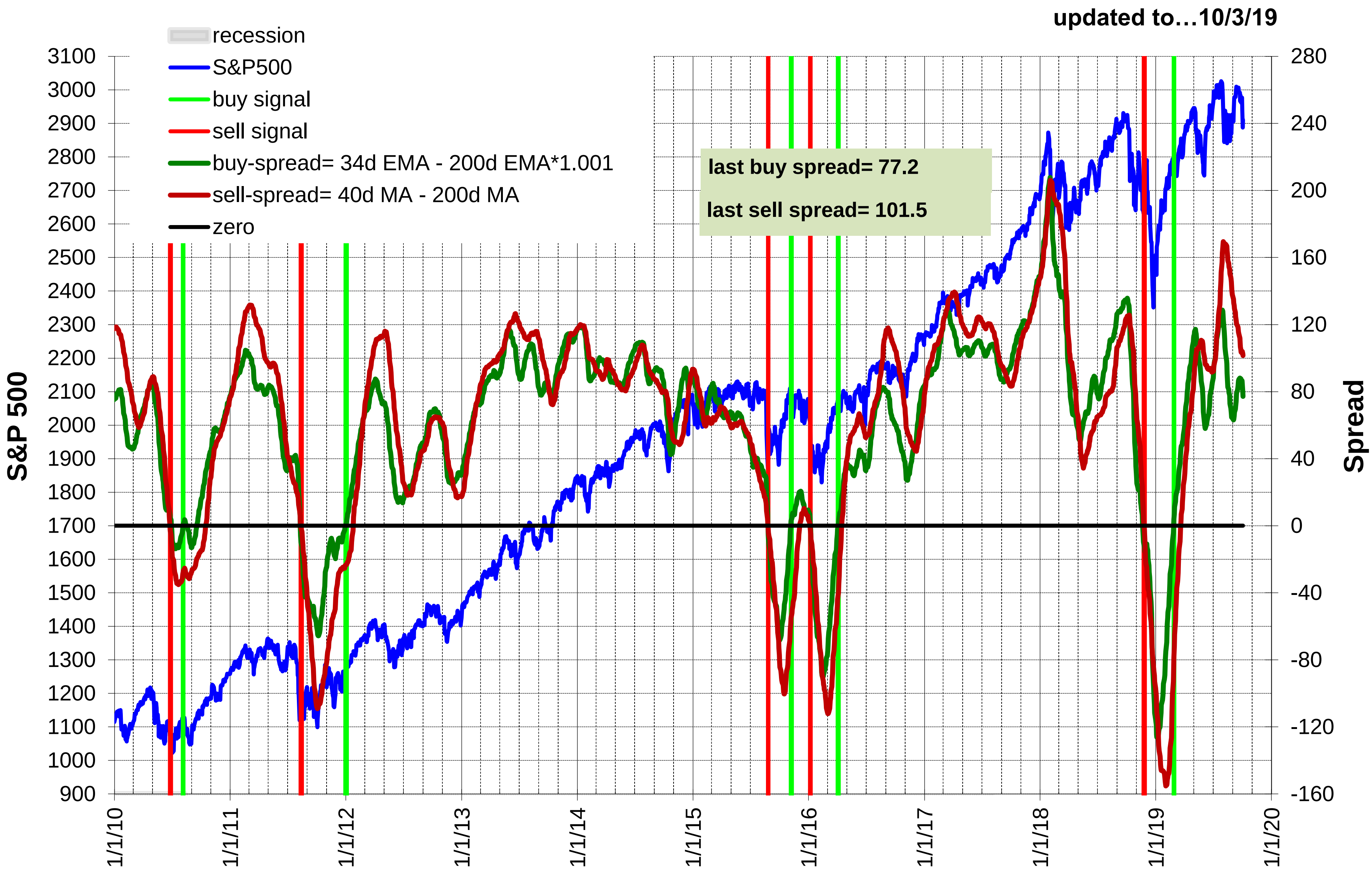
On past performance, BCIp = 100 can be interpreted as an average one year "time-to-live" to a recession.



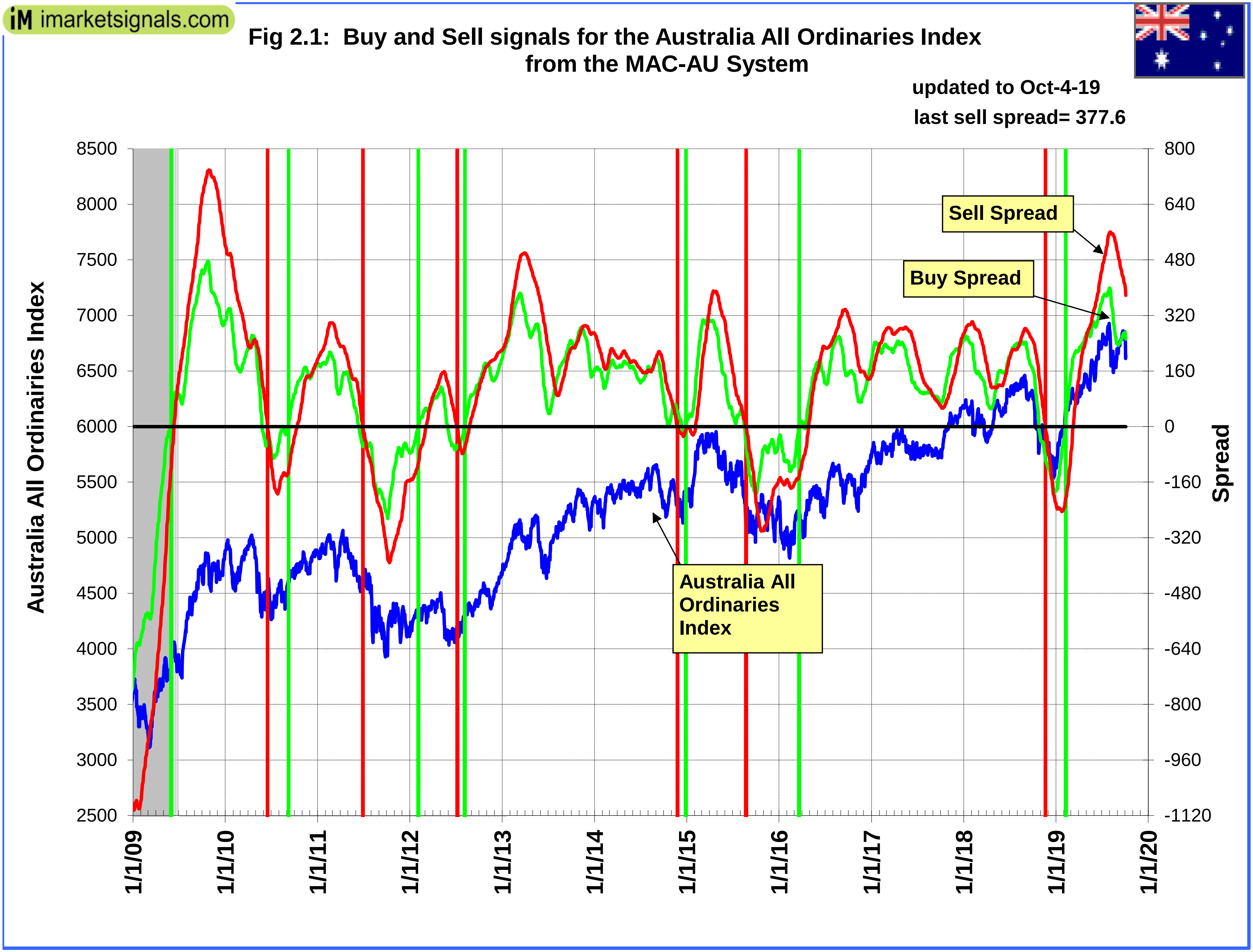
Please note: Past performance does not guarantee future returns, investments may increase or decrease in value and you may lose money using this model.

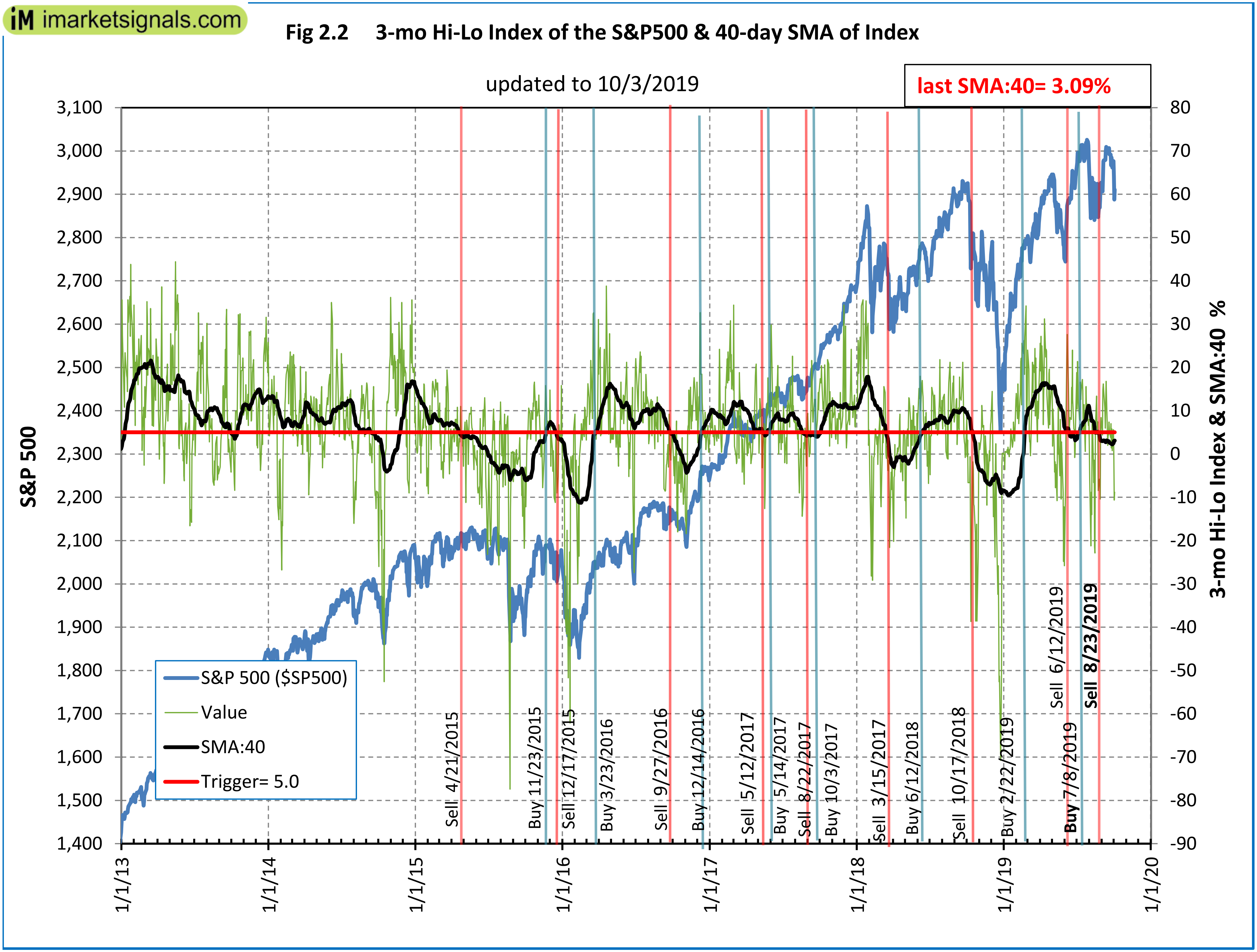
iM imarketsignals.com

Figure 2: Buy and Sell signals for S&P 500 2010-18 from the modified golden-cross MAC-System

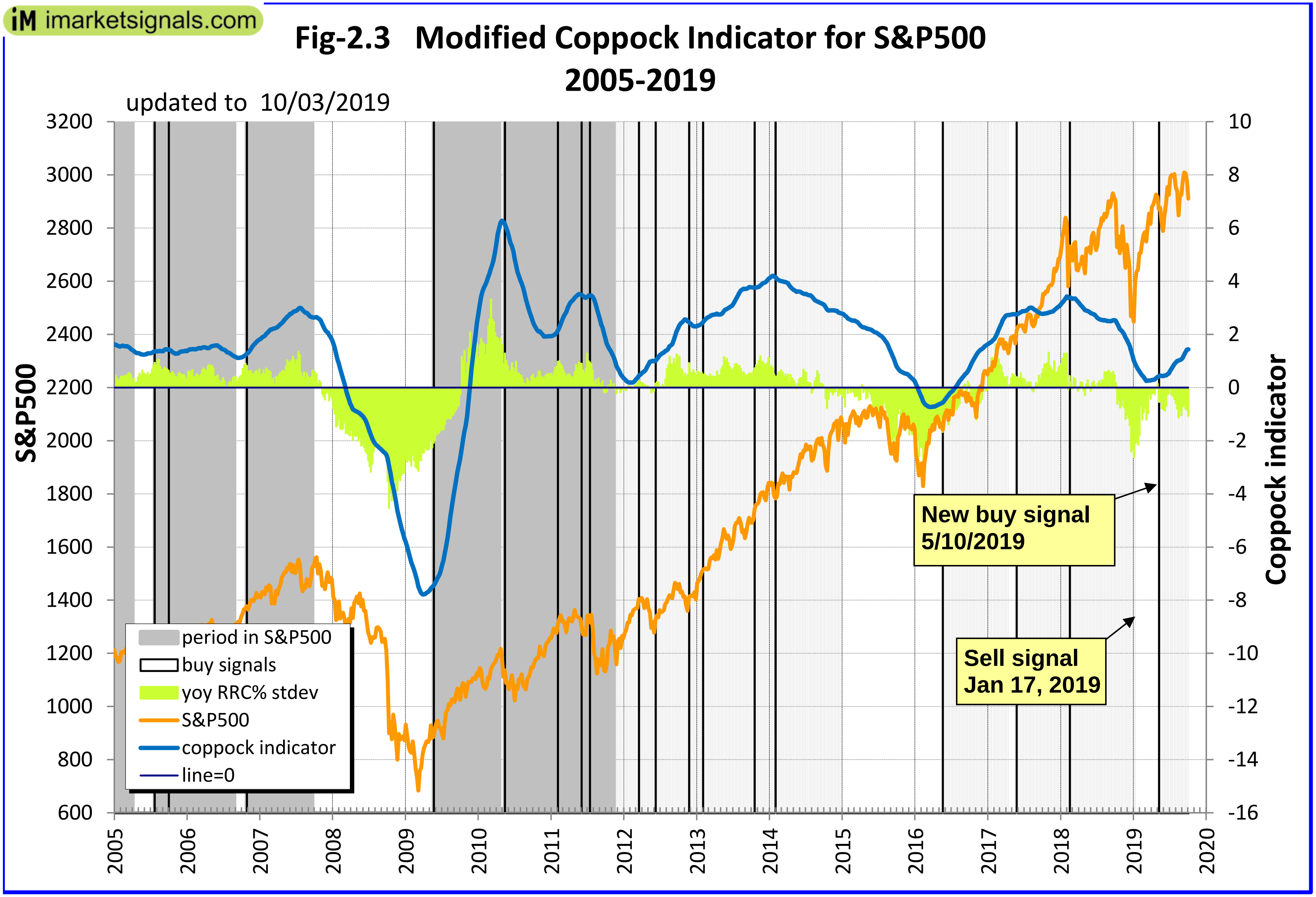


2-MAC rev8-27-15.xlsb

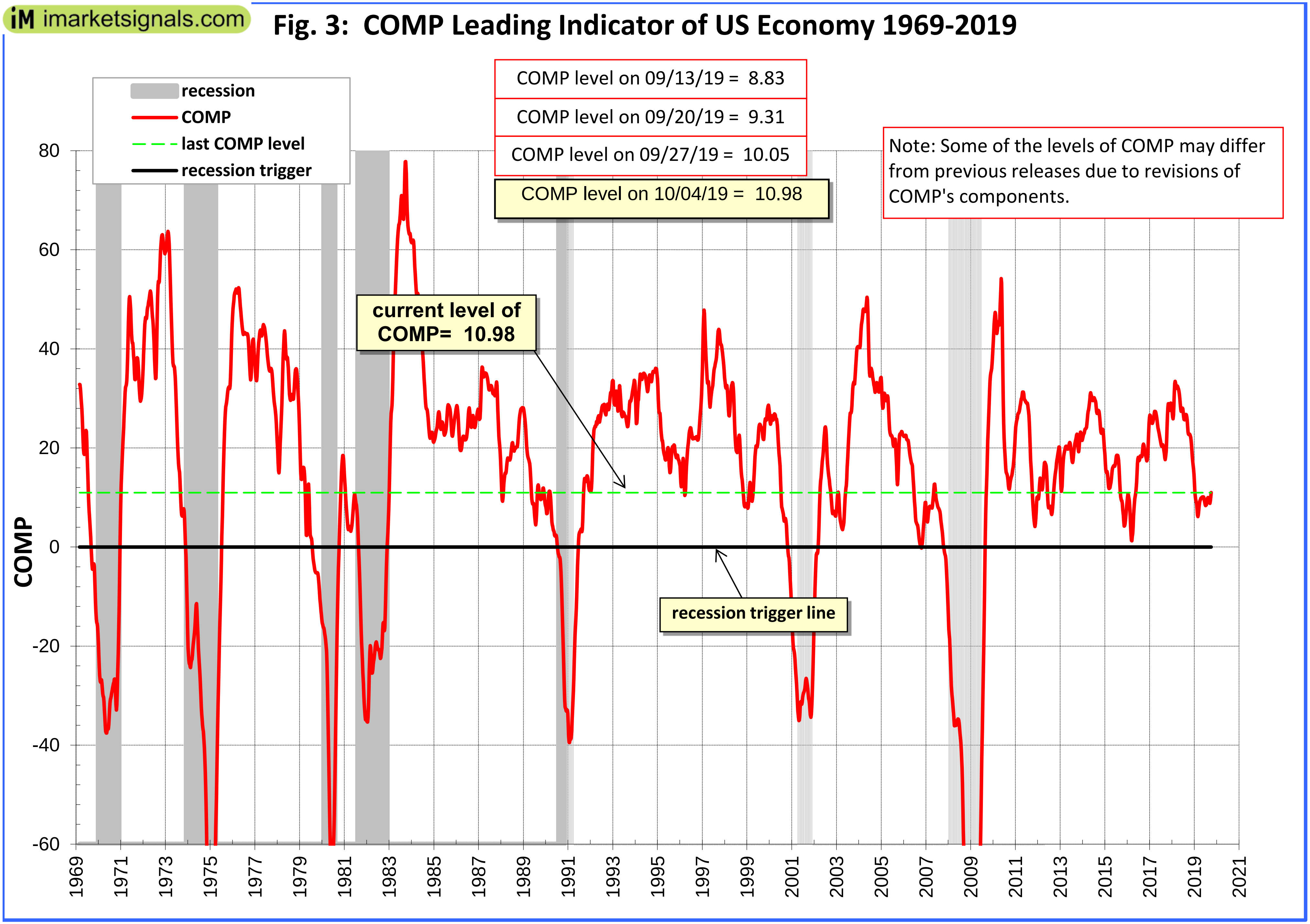

iM imarketsignals.com
Fig 2.1: Buy and Sell signals for the Australia All Ordinaries Index from the MAC-AU System
updated to Oct-4-19
last sell spread= 377.6
Sell Spread
Buy Spread
Australia All Ordinaries Index
Australia All Ordinairies Index
Spread
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
800
640
480
320
160
0
-160
-320
-480
-640
-800
-960
-1120
1/1/09
1/1/10
1/1/11
1/1/12
1/1/13
1/1/14
1/1/15
1/1/16
1/1/17
1/1/18
1/1/19
1/1/20



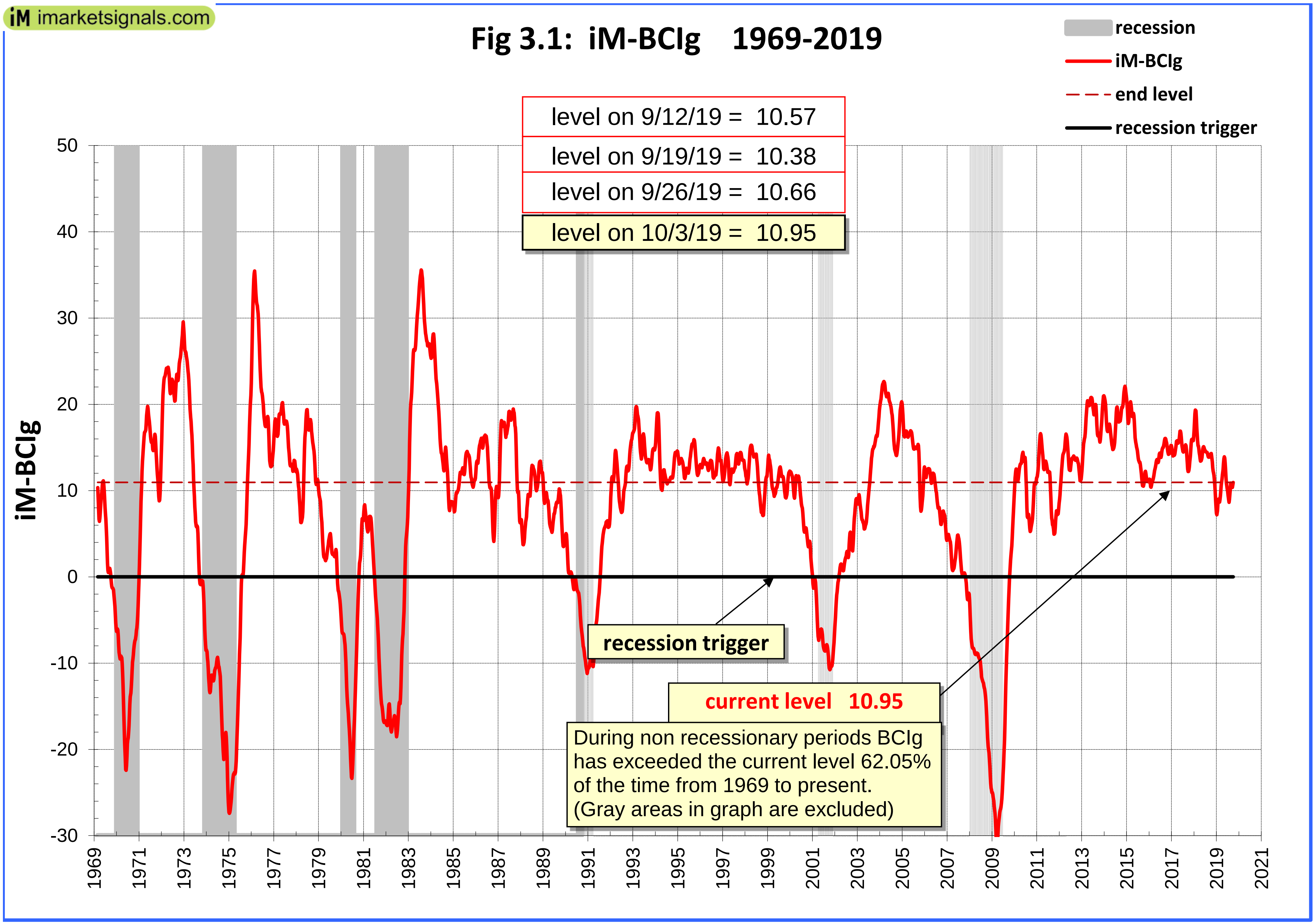
iM imarketsignals.com
Fig 2.2 3-mo Hi-Lo Index of the S&P500 & 40-day SMA of Index
updated to 10/3/2019
last SMA:40= 3.09%
S&P 500
3-mo Hi-Lo Index & SMA:40 %
S&P 500 ($SP500)
Value
SMA:40
Trigger= 5.0
Sell 4/21/2015
Buy 11/23/2015
Sell 12/17/2015
Buy 3/23/2016
Sell 9/27/2016
Buy 12/14/2016
Sell 5/12/2017
Buy 5/14/2017
Sell 8/22/2017
Buy 10/3/2017
Sell 3/15/2017
Buy 6/12/2018
Sell 10/17/2018
Buy 2/22/2019
Sell 6/12/2019
Buy 7/8/2019
Sell 8/23/2019



imarketsignals.com
Fig-2.3 Modified Coppock Indicator for S&P500
2005-2019
updated to 10/03/2019
S&P500
Coppock indicator
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
10
8
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
-16
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
period in S&P500
buy signals
yoy RRC% stdev
S&P500
coppock indicator
line=0
New buy signal
5/10/2019
Sell signal
Jan 17, 2019


iM imarketsignals.com
Fig. 3: COMP Leading Indicator of US Economy 1969-2019
recession
COMP
last COMP level
recession trigger
COMP level on 09/13/19 = 8.83
COMP level on 09/20/19 = 9.31
COMP level on 09/27/19 = 10.05
COMP level on 10/04/19 = 10.98
Note: Some of the levels of COMP may differ from previous releases due to revisions of COMP's components.
current level of COMP= 10.98
recession trigger line
COMP
80
60
40
20
0
-20
-40
-60
1969
1971
1973
1975
1977
1979
1981
1983
1985
1987
1989
1991
1993
1995
1997
1999
2001
2003
2005
2007
2009
2011
2013
2015
2017
2019
2021

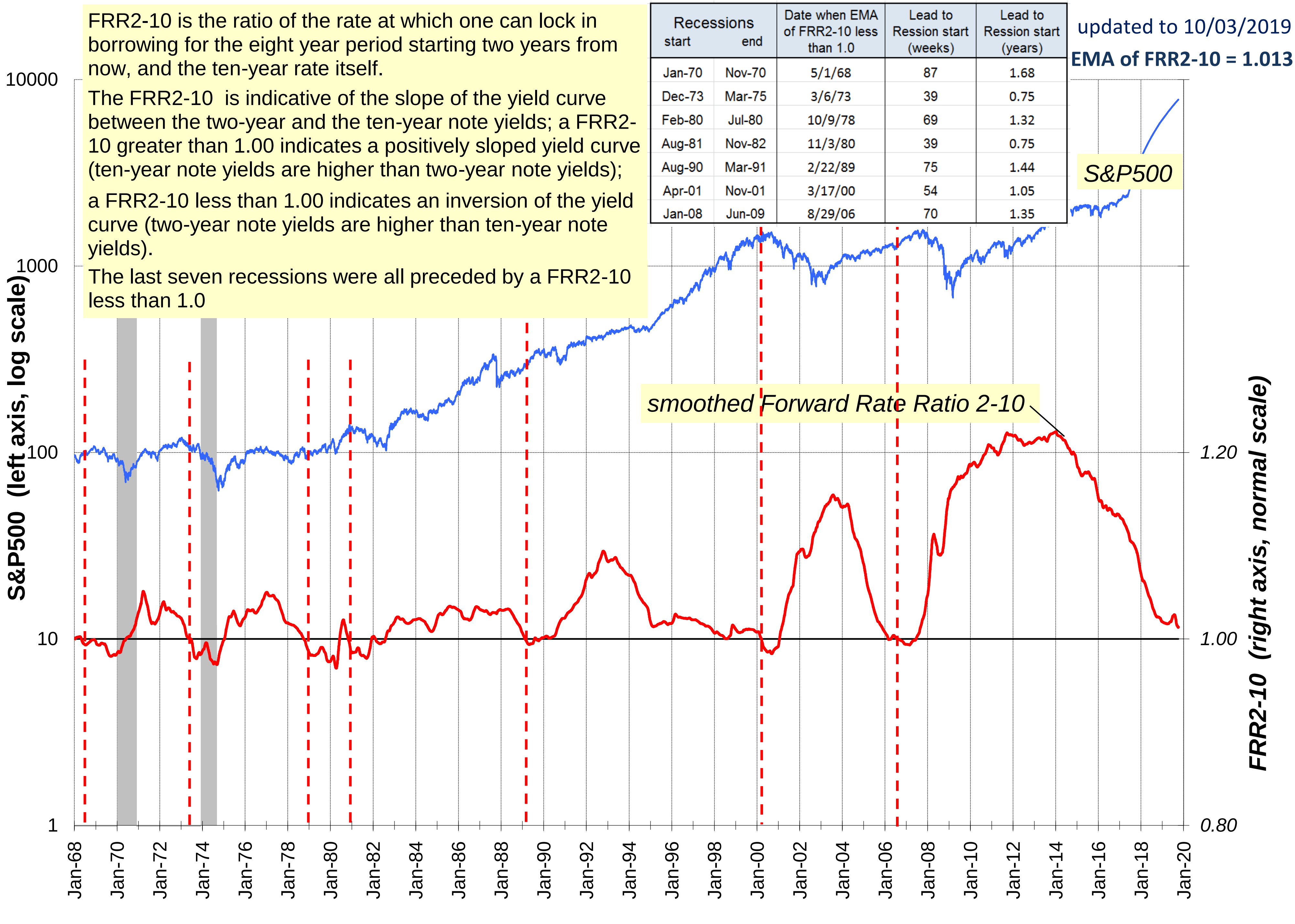
3-COMP.xlsb



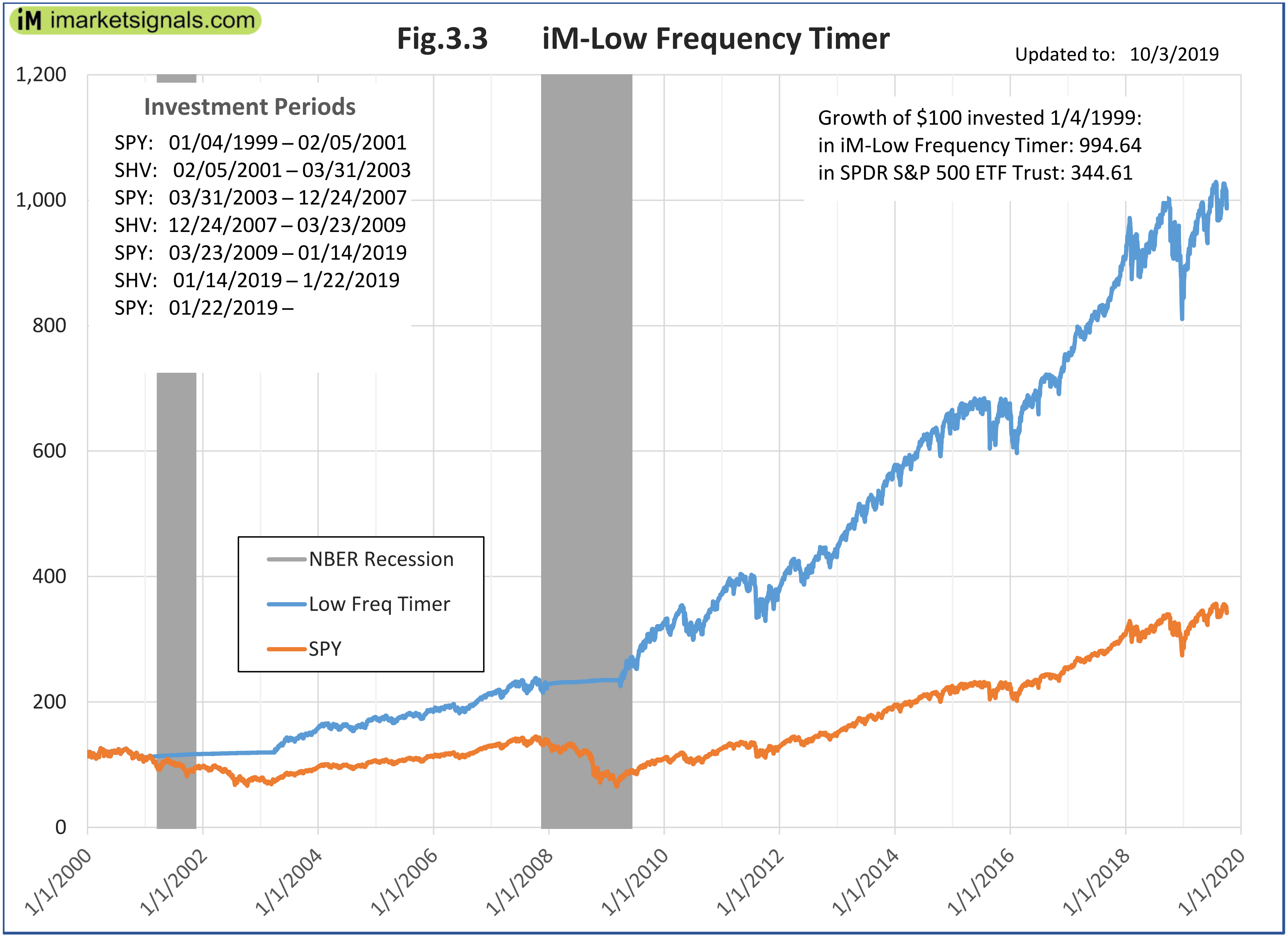
BCIg Toni.xlsb

imarketsignals.com

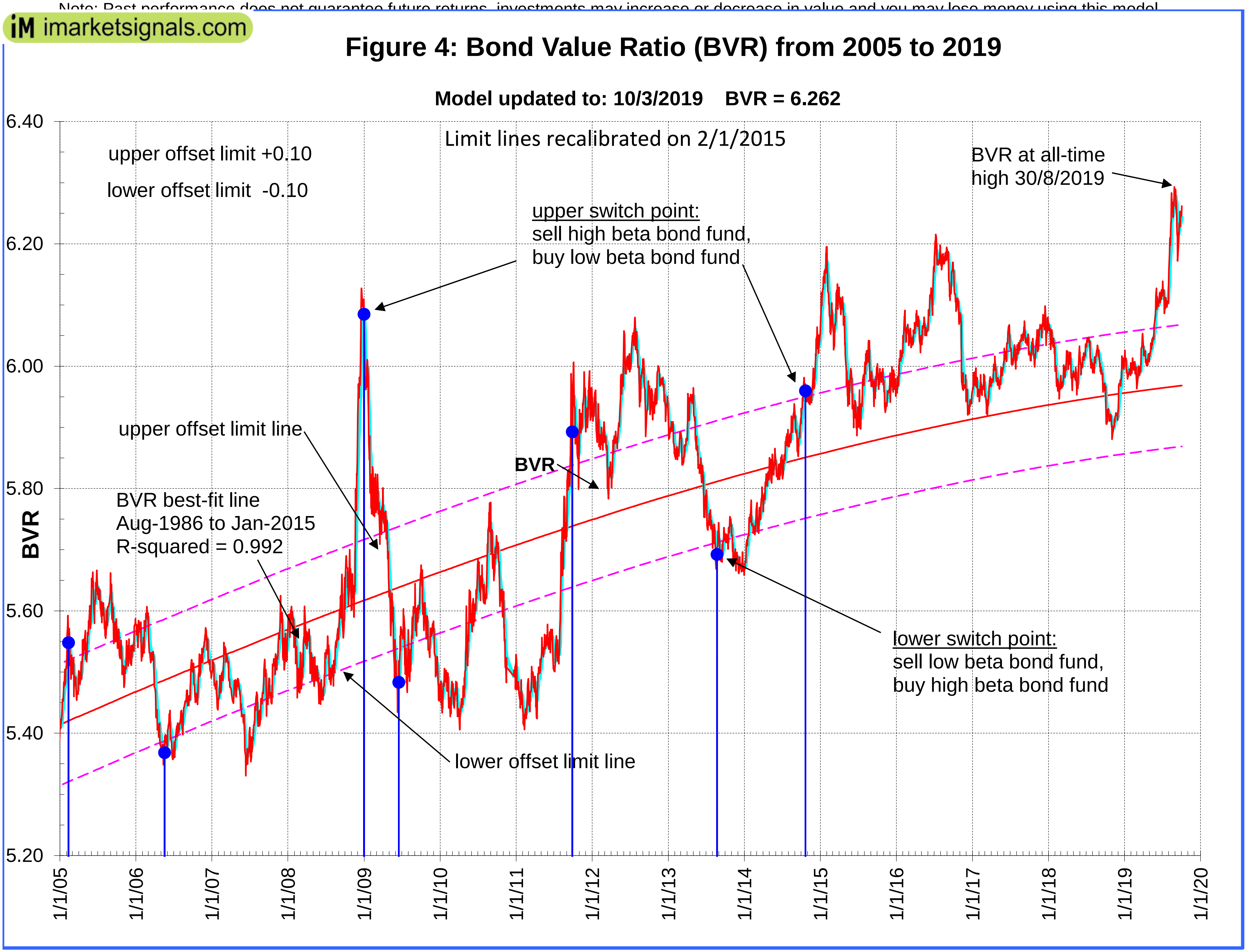
Figure 3.2: Forward Rate Ratio FRR2-10 - leads to Recessions



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

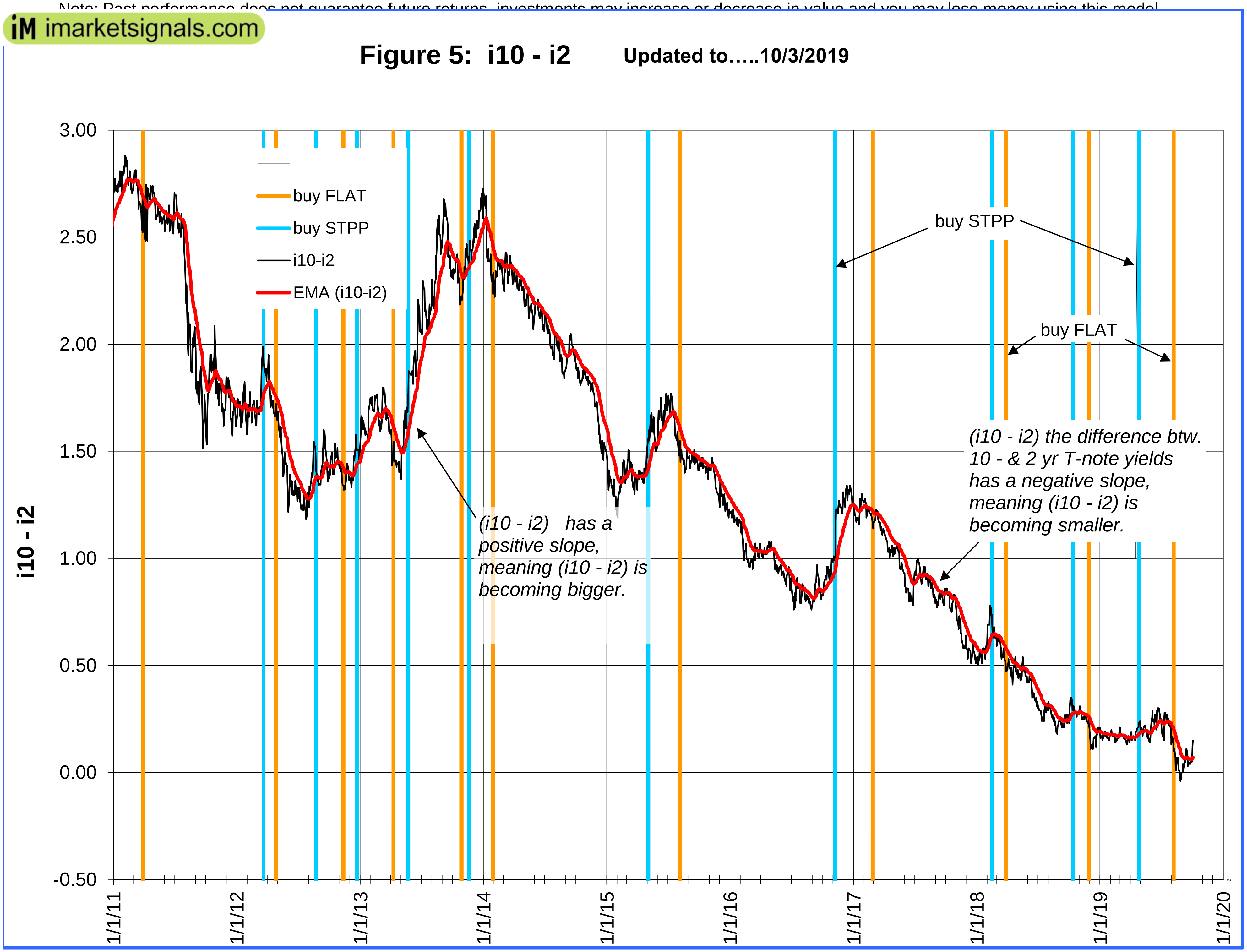

iM imarketsignals.com
Fig.3.3 iM-Low Frequency Timer
Updated to: 10/3/2019
Investment Periods
SPY: 01/04/1999 – 02/05/2001
SHV: 02/05/2001 – 03/31/2003
SPY: 03/31/2003 – 12/24/2007
SHV: 12/24/2007 – 03/23/2009
SPY: 03/23/2009 – 01/14/2019
SHV: 01/14/2019 – 1/22/2019
SPY: 01/22/2019 –
Growth of $100 invested 1/4/1999:
in iM-Low Frequency Timer: 994.64
in SPDR S&P 500 ETF Trust: 344.61
NBER Recession
Low Freq Timer
SPY
1,200
1,000
800
600
400
200
0
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020

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

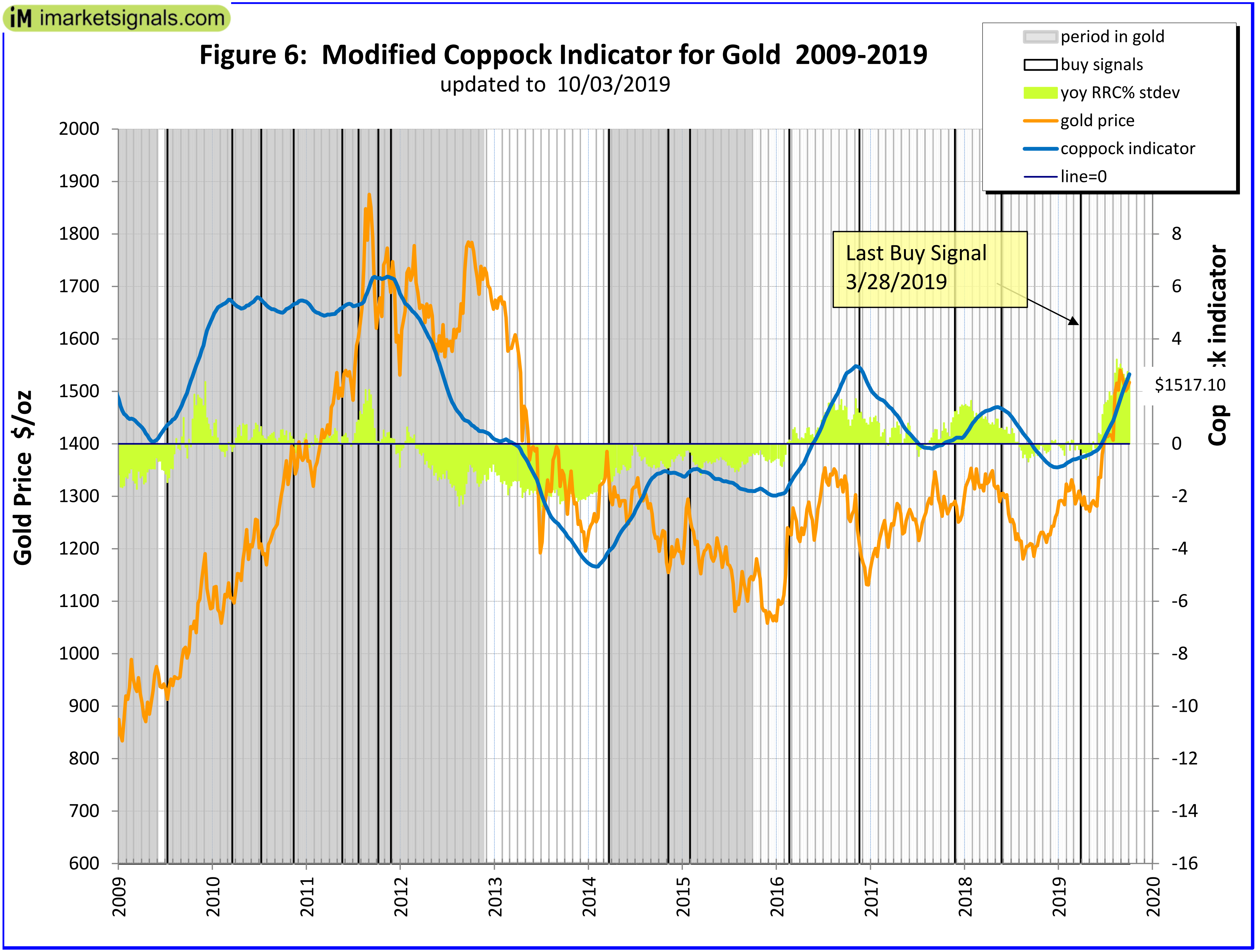


4-BVR recalibrated.xlsm BVR

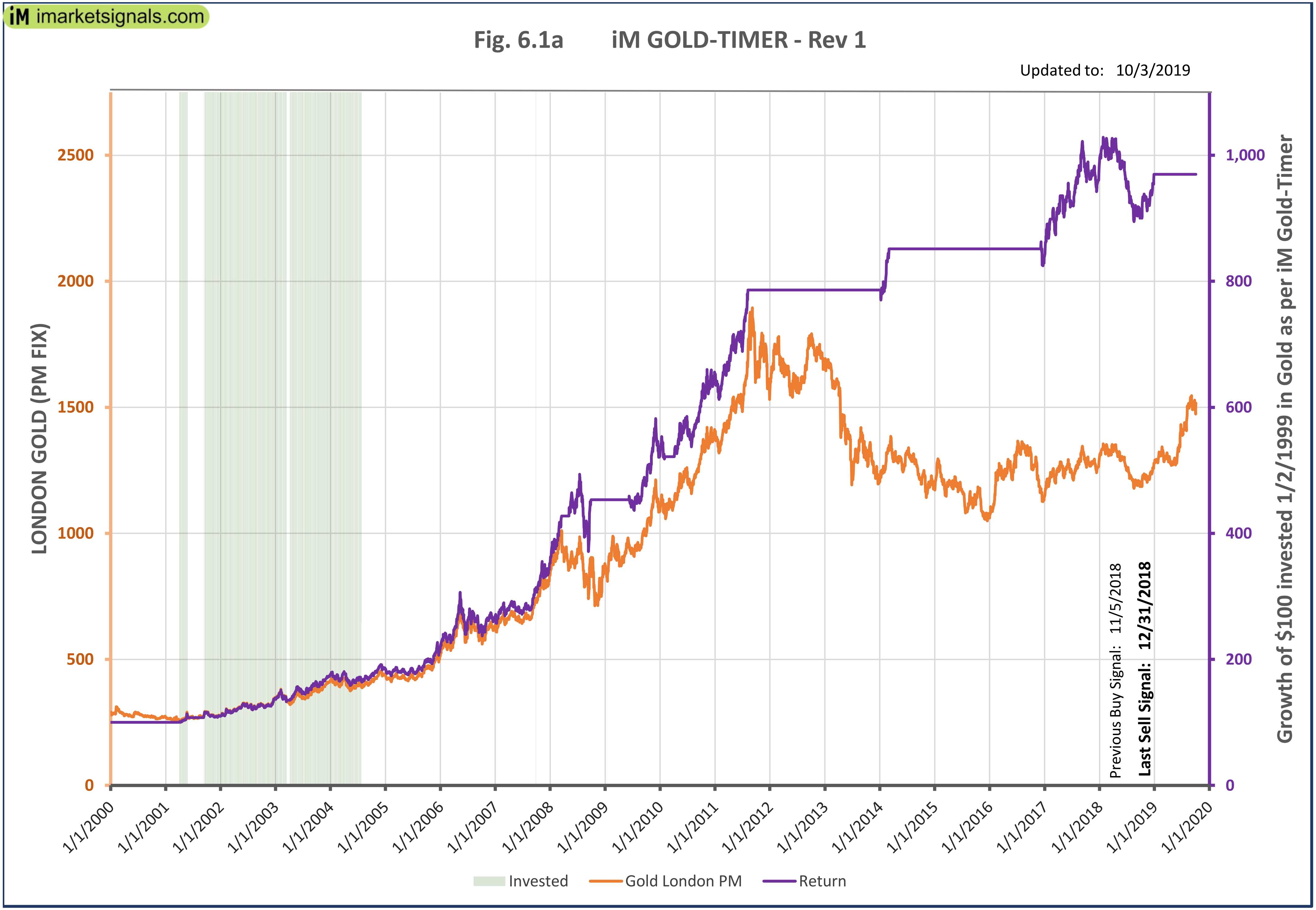
Note: Past performance does not guarantee future returns, investments may increase or decrease in value and you may lose money using this model.



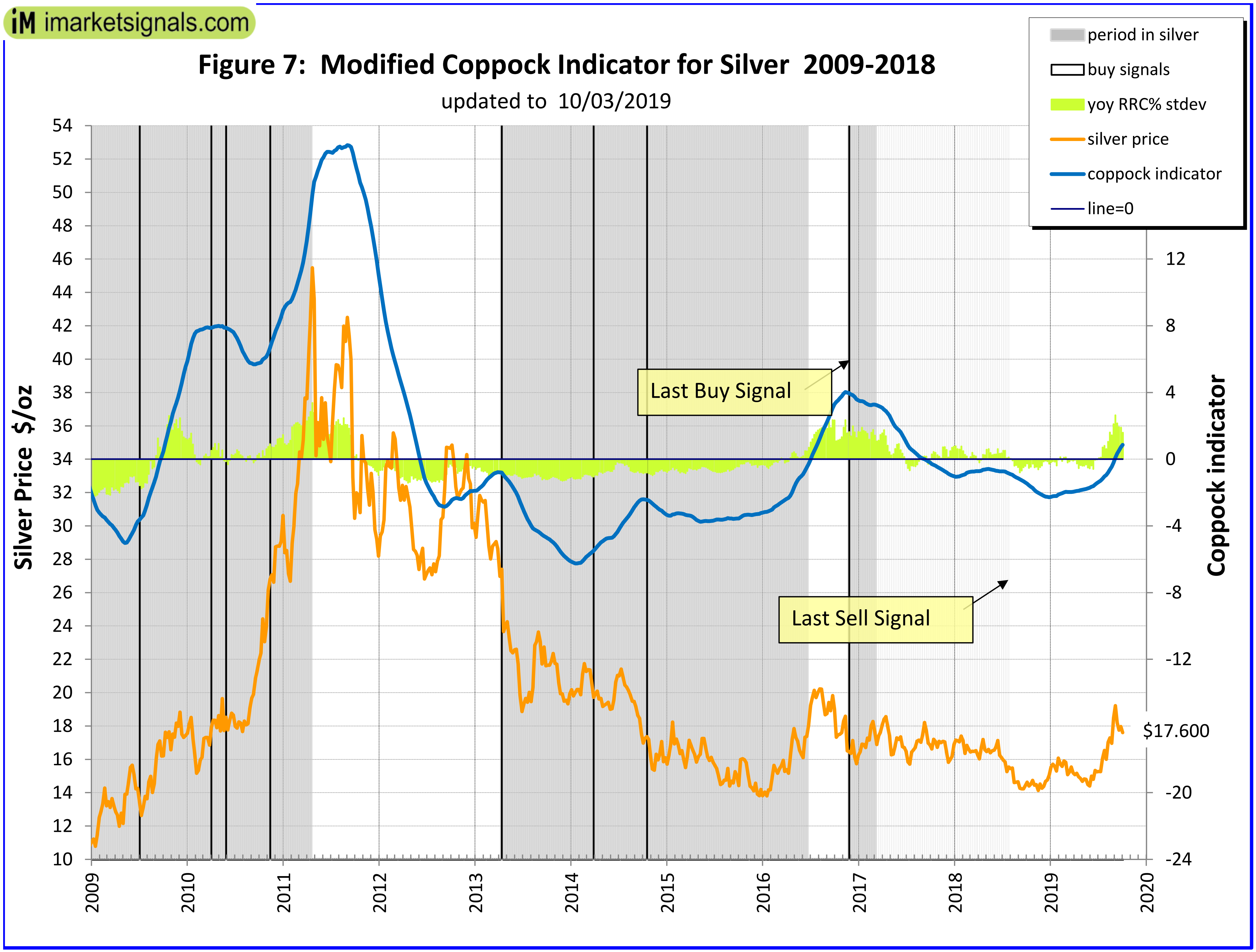
5-Yield Curve.xlsm 09-15



6-COPPOCK GOLD for updates.xlsm



iM imarketsignals.com
Fig. 6.1a iM GOLD-TIMER - Rev 1
Updated to: 10/3/2019
LONDON GOLD (PM FIX)
Growth of $100 invested 1/2/1999 in Gold as per iM Gold-Timer
Previous Buy Signal: 11/5/2018
Last Sell Signal: 12/31/2018
Invested
Gold London PM
Return



imarketsignals.com
Figure 7: Modified Coppock Indicator for Silver 2009-2018
updated to 10/03/2019
period in silver
buy signals
yoy RRC% stdev
silver price
coppock indicator
line=0
Last Buy Signal
Last Sell Signal
$17.600
Silver Price $/oz
Coppock indicator
54
52
50
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
12
8
4
0
-4
-8
-12
-20
-24
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020