

April 23, 2020

### Business Cycle Index

The BCI at 201.9 is down from last week's 234.7. Also, the 6-month smoothed annualized growth BCIg at -9.7 is down from last week's -0.1. The BCI signaled a recession warning on 4/2/2020

April 24, 2020

### Market Signals Summary:

The 3-mo Hi-Lo Index is out of the market since 3/5/2020 and the MAC US and the MAC AU are out of the markets since 3/26/2020. The bond market model avoids high beta (long) bonds, and the yield curve is steepening and signaled a buy STPP. The Gold Coppock remains in gold but the iM-Gold Timer is in cash. The Silver Coppock model is invested in silver.

### **The BCI, the iM-LLI and the iM-Unemployment models all signal a recession**

The iM-GT Timer, based on Google Search Trends volume switched out of the markets on 3/5/2020.

### Stock-markets:

The [MAC-US](#) model switched out of the markets on 3/26/2020. The buy-spread (green line) is far below the buy trigger line.

The [3-mo Hi-Lo Index](#) Index of the S&P500 at -18.82% is above last week's -21.05%, and is out of the stock market since 3/5/2020.

The Coppock indicator for the S&P500 entered the market on 5/9/2019 and is invested. This indicator is described [here](#)

The MAC-AU model switch out of the markets on 3/27/2020. The buy-spread (green line) is far below the buy trigger line.

### Recession:

The iM-LLI which reflects mainly data for February 2020, except for the BCI, and signaled a recession warning on 4/24/2020.

Figure 3.1 shows the recession indicator iM-BCIg below last week's level signaling a recession warning on 4/17/2020

The Forward Rate Ratio between the 2-year and 10-year U.S. Treasury yields (FRR2-10) is above last week's level. It is rising steeply, typically seen at a start of a recession. A description of this indicator can be [found here](#).

The iM-Low Frequency Timer switched out of the markets on 4/13/2020. A description of this indicator can be [found here](#).

## 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. 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 is above last week's level. 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 end March 2019 and is invested in gold.

The [iM GOLD-TIMER Rev-1](#) is in cash since 3/16/2020.

## Silver:

The modified Coppock Silver indicator shown in Fig 7. This model generated a buy signal March 19, 2020 (previously not reported).

## Monthly Updates (next update May 8)

April 3, 2020

Unemployment

The unemployment rate recession model ([article link](#)), has been updated with the **March UER of 4.4% and signals 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 switched from 0 to +2 end of October-2019. This indicator is described [here](#).

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. ([read more](#))

## Estimated Forward 10-Year Returns

The estimated forward 10-year annualized real return increased to 7.8% (previous 5.8) with a 95% confidence interval : 6.6% to 9.1% (previous 4.4% to 7.2%).

### iM-GT Timer

The iM-GT Timer, based on Google Search Trends volume switched out of the markets on 3/5/2020. This indicator is described [here](#).

### TIAA Real Estate Account

The 1-year rolling return for the end of last month is 3.63%, down from last month's 4.63%.

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



updated to... 4/23/20



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



updated to Apr-17-20  
last buy spread= -699.4

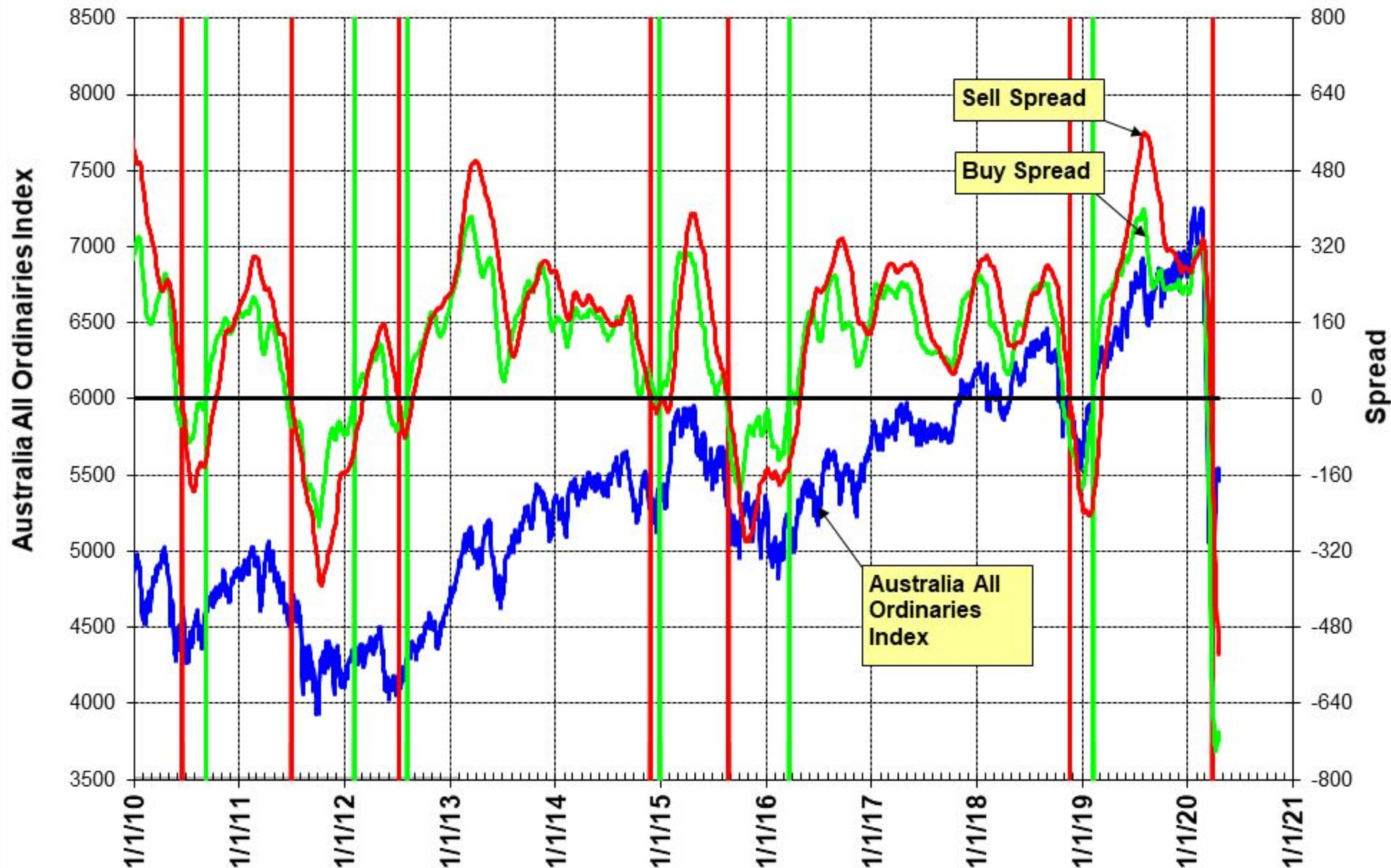
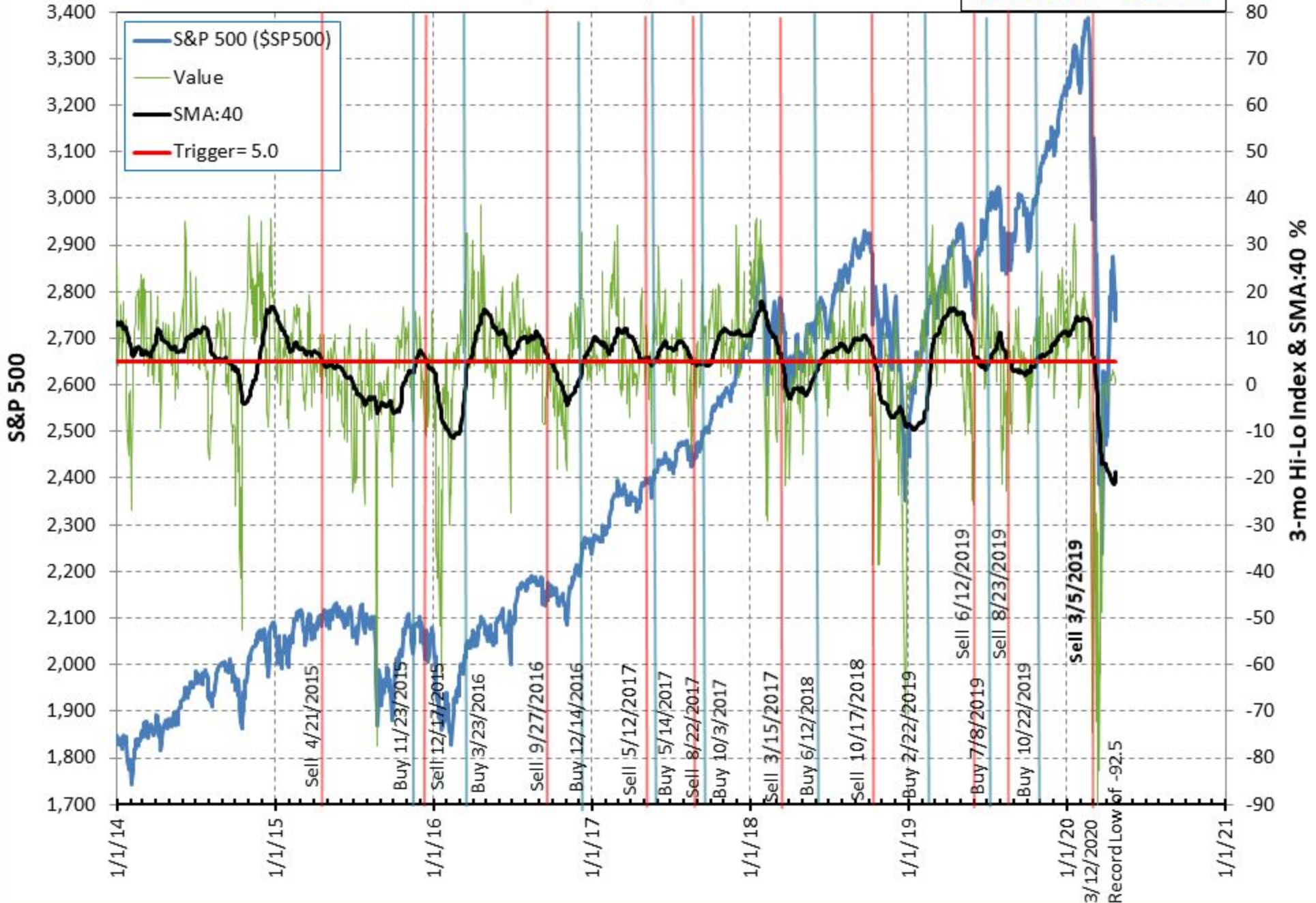


Fig 2.2 3-mo Hi-Lo Index of the S&P500 & 40-day SMA of Index

updated to 4/23/2020

last SMA:40= -18.82%



# Fig-2.3 Modified Coppock Indicator for S&P500

updated to 04/23/2020

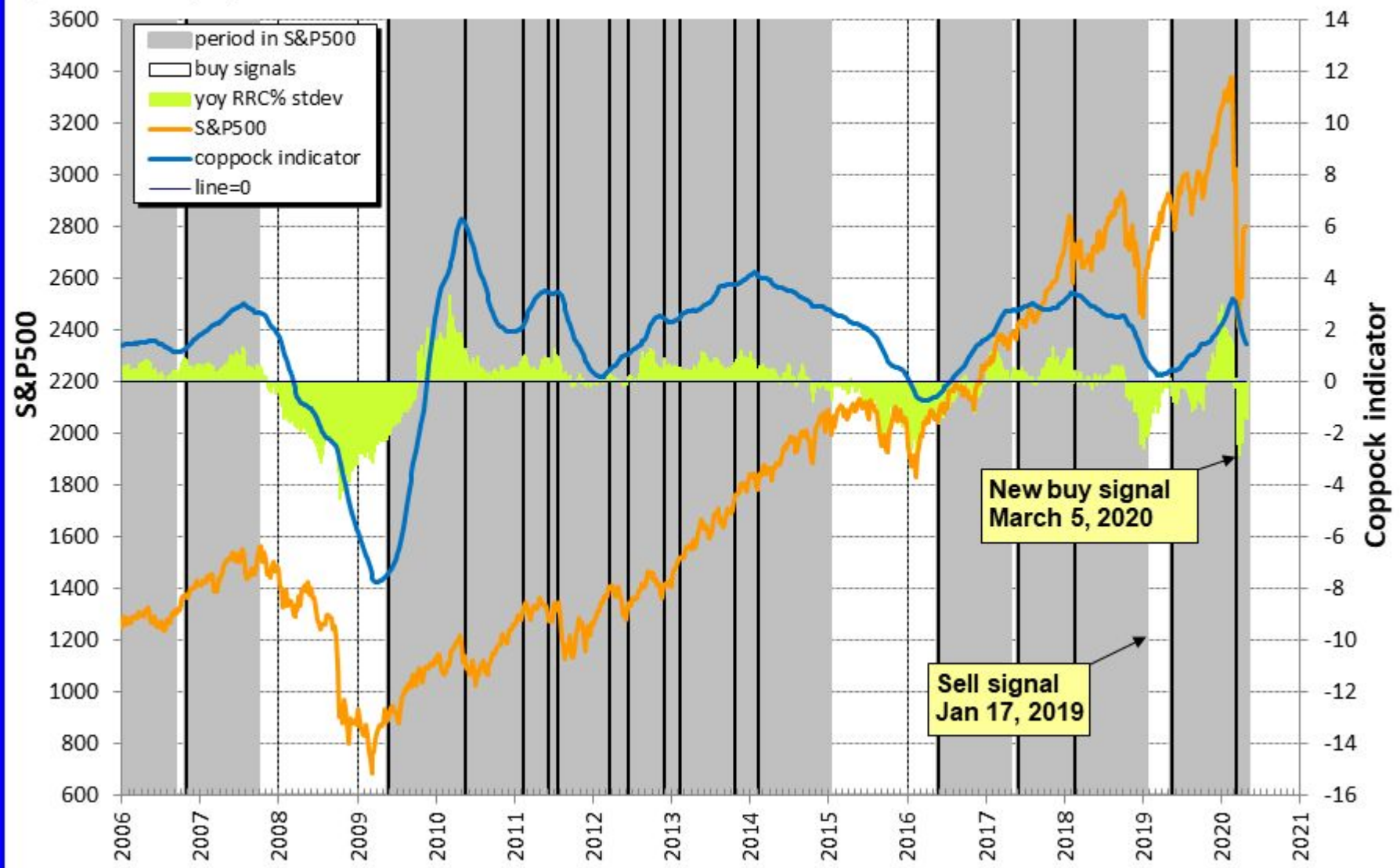


Figure-3: The iMarketSignals Long Leading Economic Index (iM-LLI)

max, min, & average leads to recessions  
= 77, 18, & 36 weeks

iM-LLI level on 01/24/20 = 4.36  
iM-LLI level on 02/28/20 = 4.76  
iM-LLI level on 03/27/20 = 5.41  
iM-LLI level on 4/24/2020 = -2.36

Note: Some of the levels of the iM-LLI may differ from previous releases due to revisions.

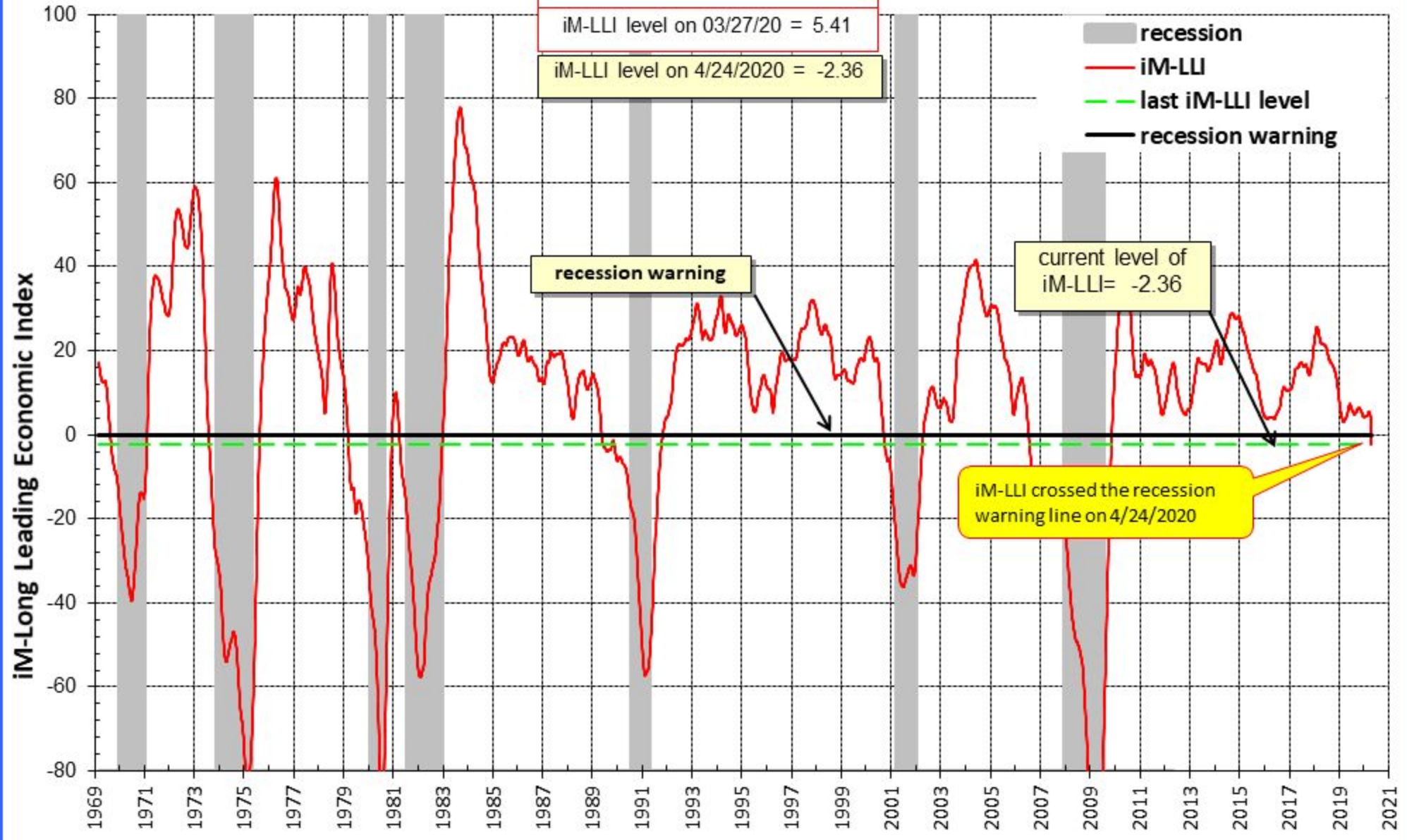
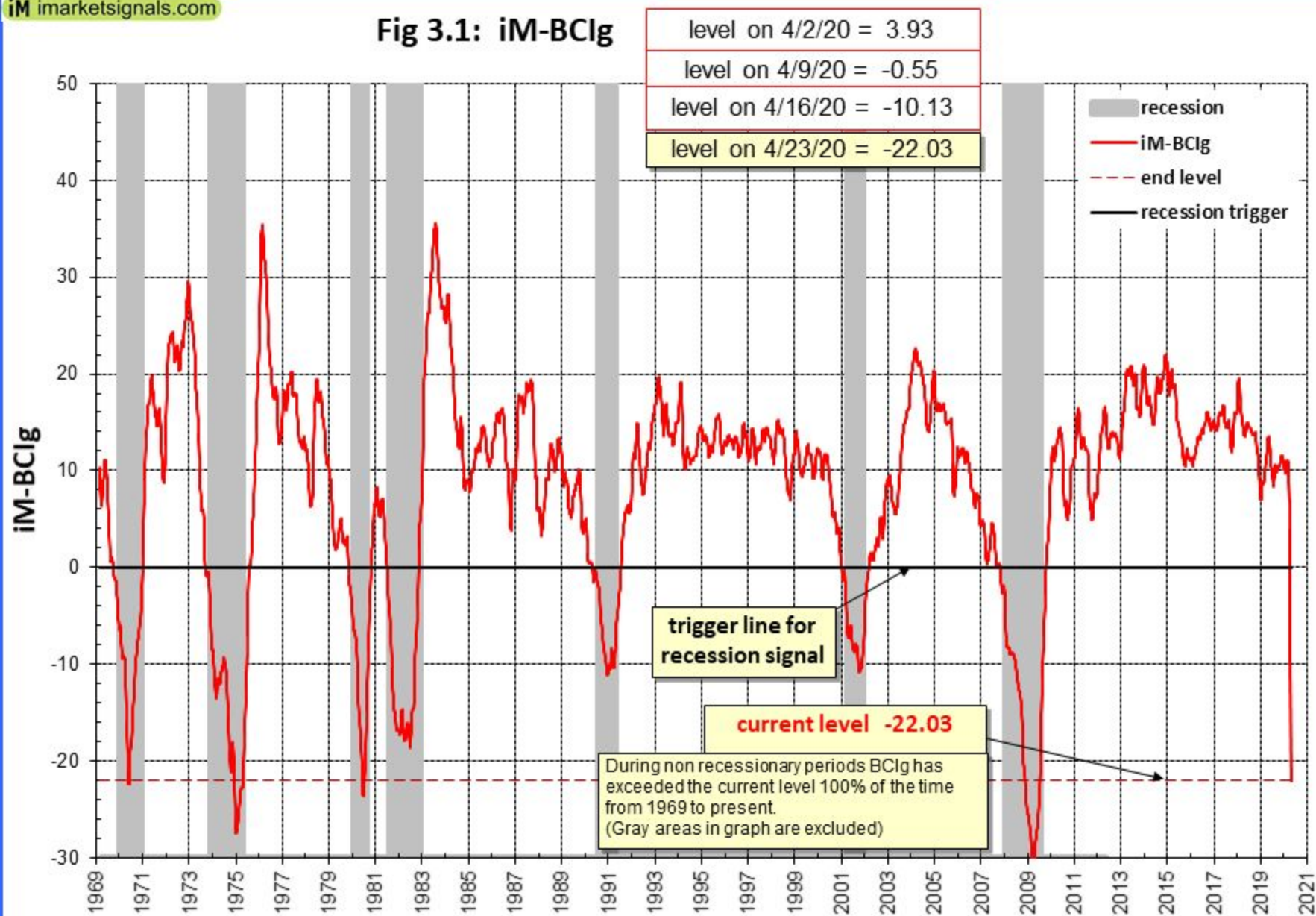


Fig 3.1: iM-BCI<sub>g</sub>

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

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.

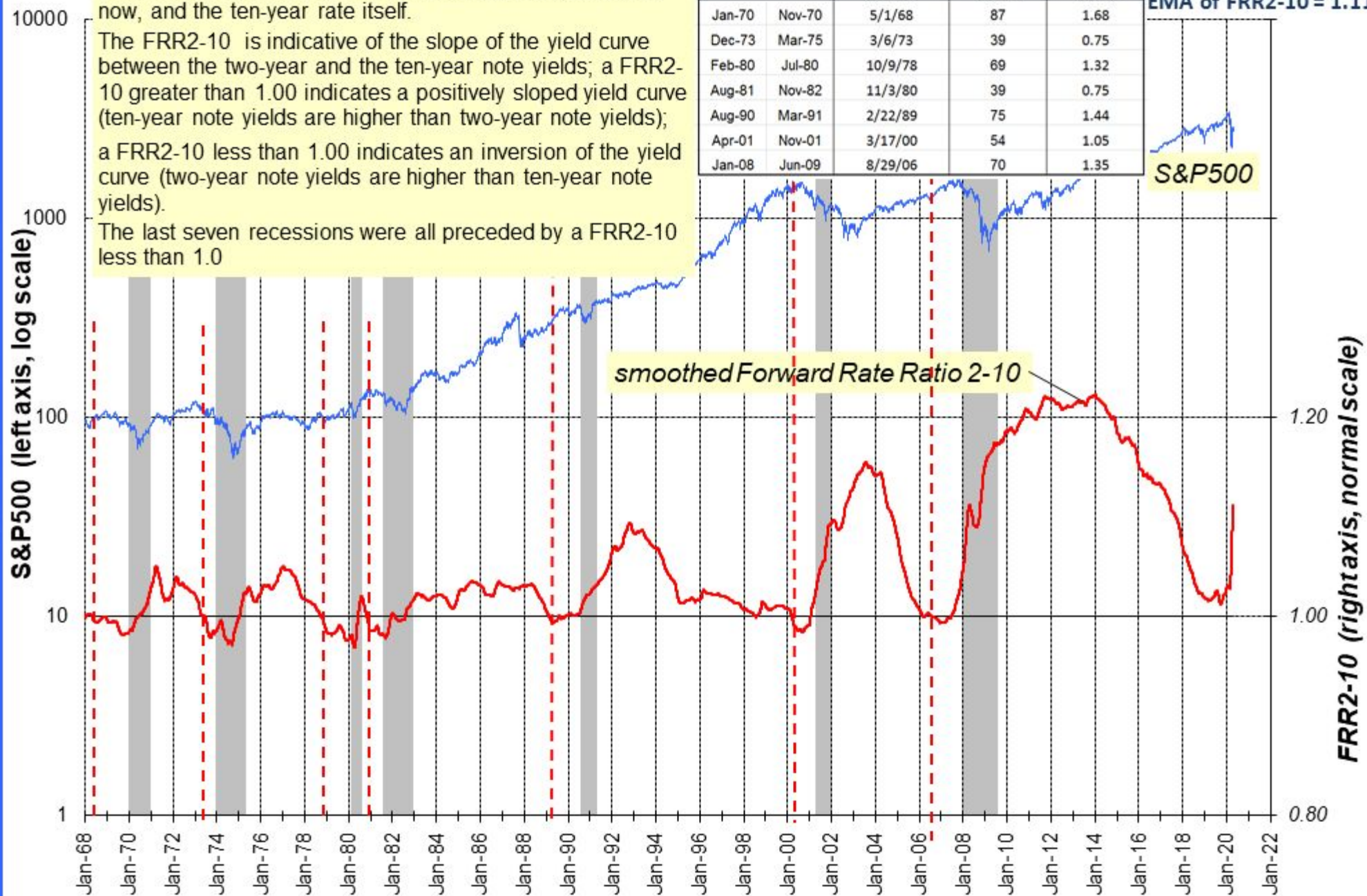
The FRR2-10 is indicative of the slope of the yield curve between the two-year and the ten-year note yields; a FRR2-10 greater than 1.00 indicates a positively sloped yield curve (ten-year note yields are higher than two-year note yields); a FRR2-10 less than 1.00 indicates an inversion of the yield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

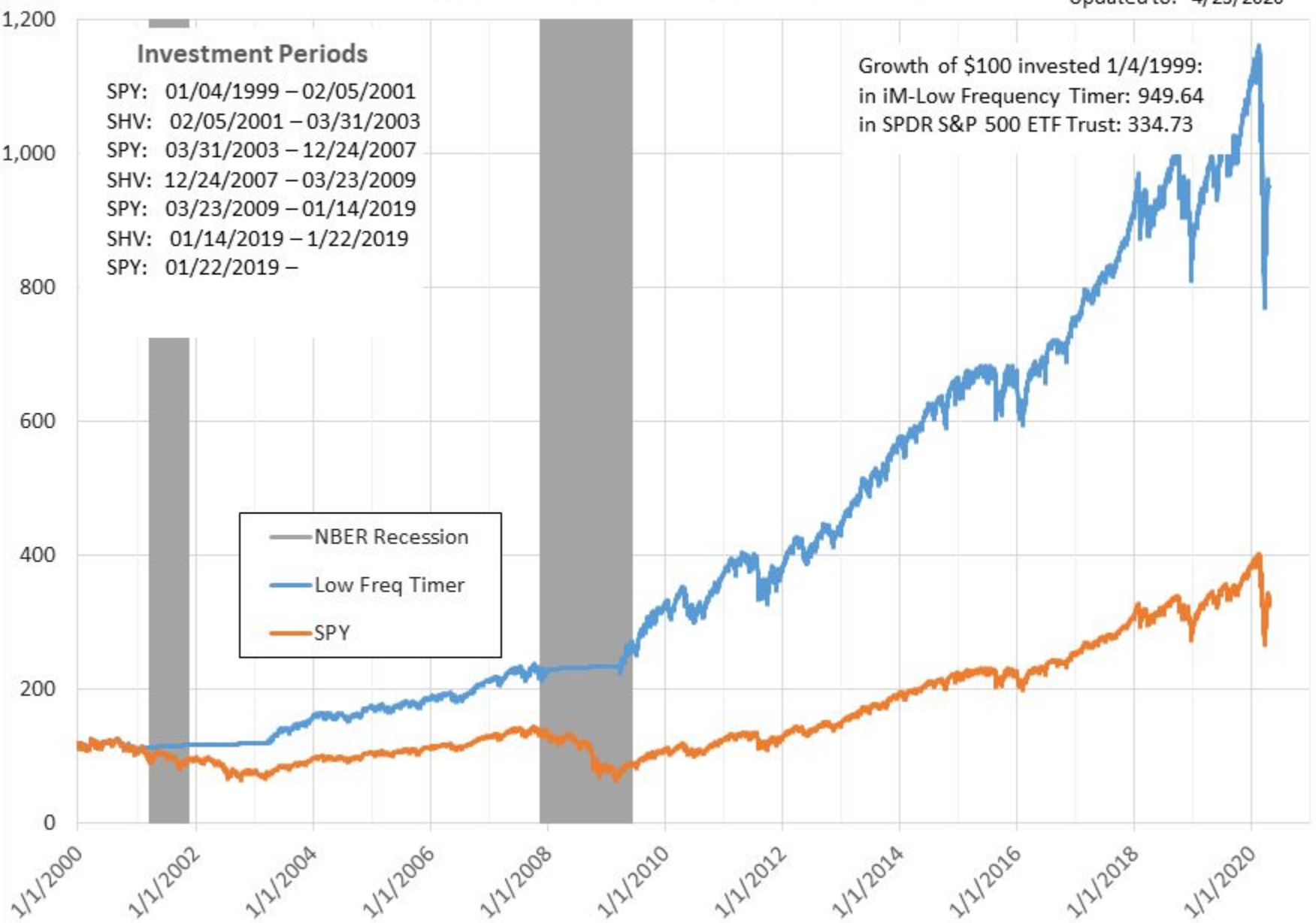
updated to 04/23/2020

EMA of FRR2-10 = 1.111



### Fig.3.3 iM-Low Frequency Timer

Updated to: 4/23/2020



### Figure 4: Bond Value Ratio (BVR)

Model updated to: 4/23/2020 BVR = 6.490

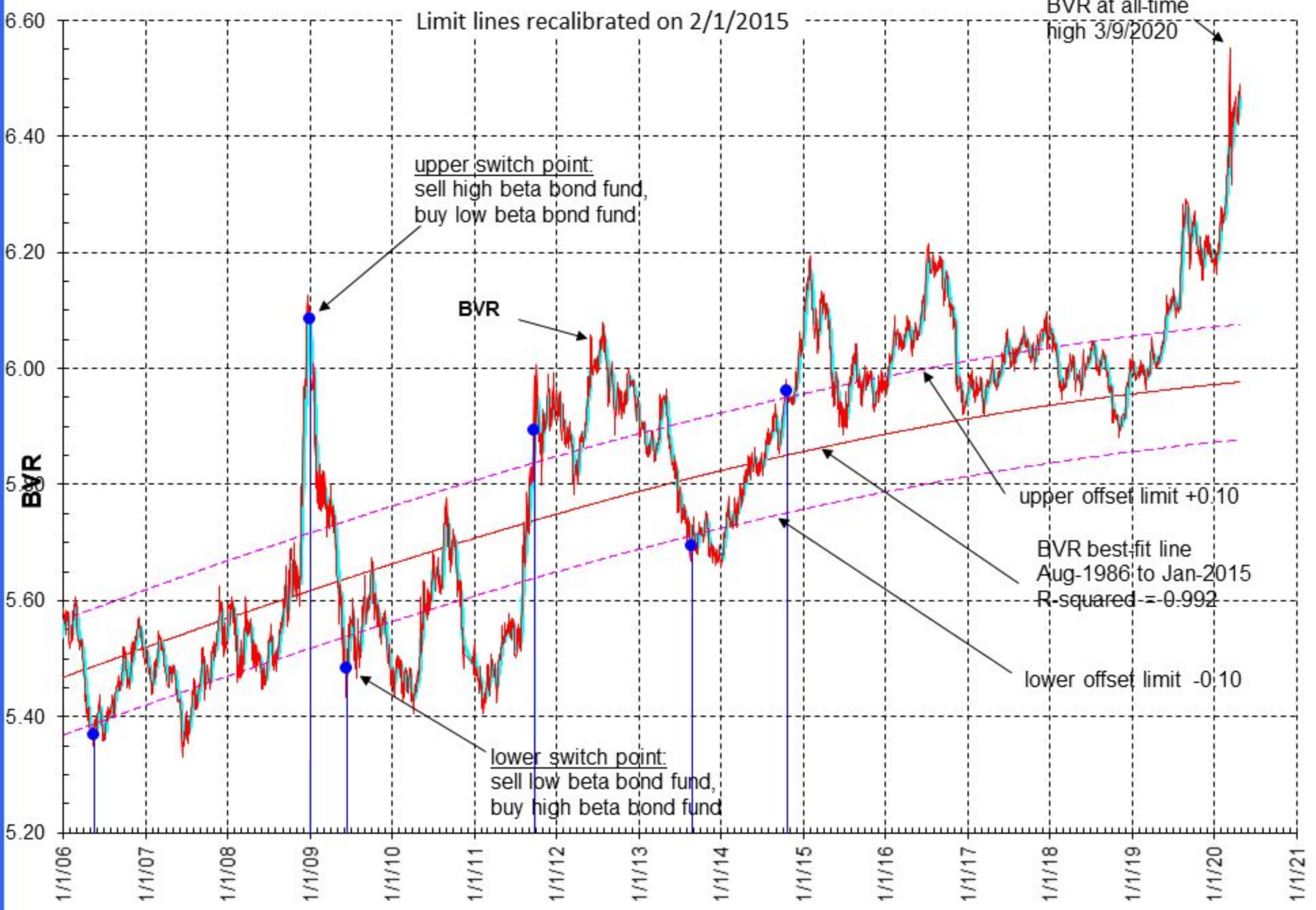
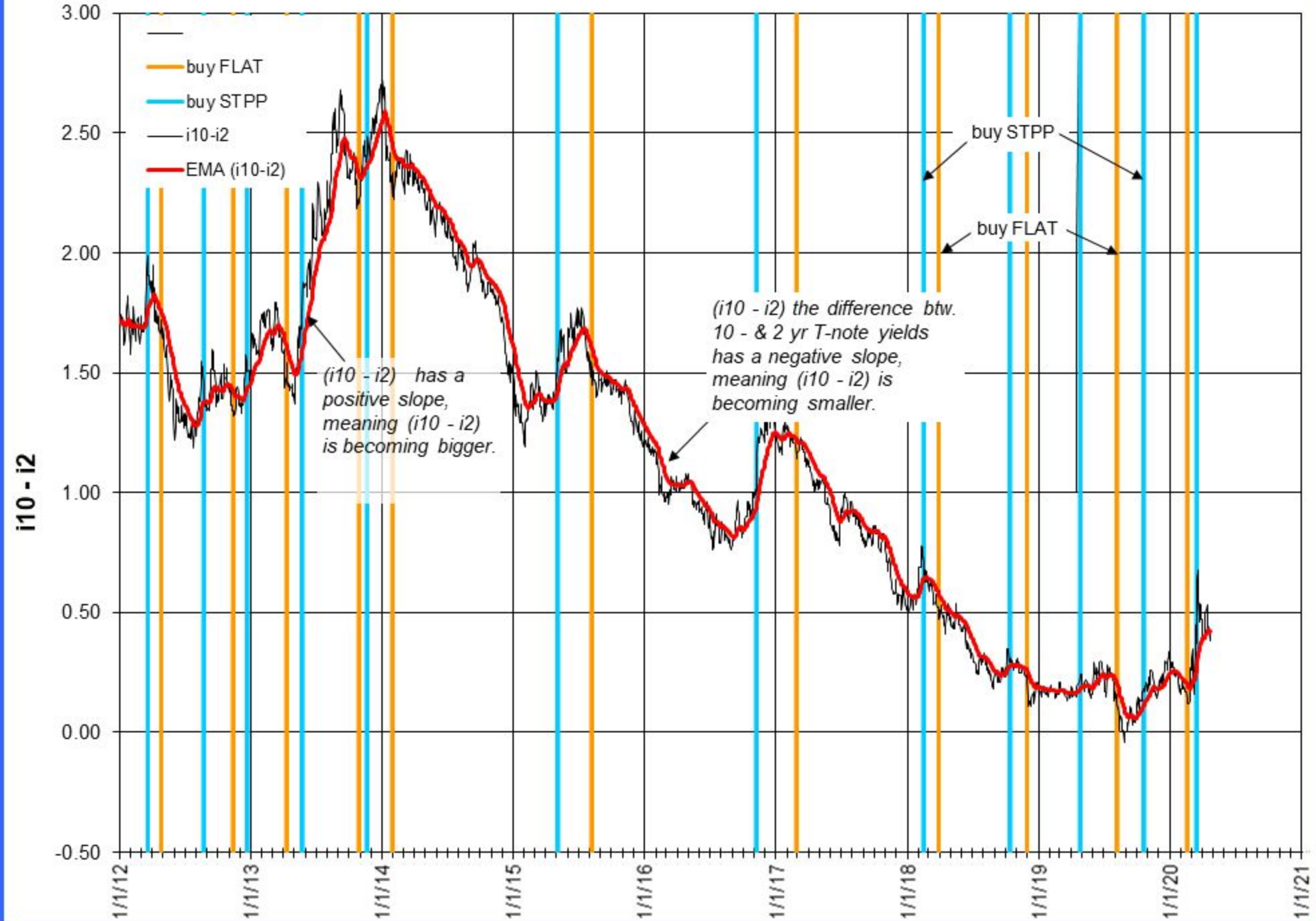


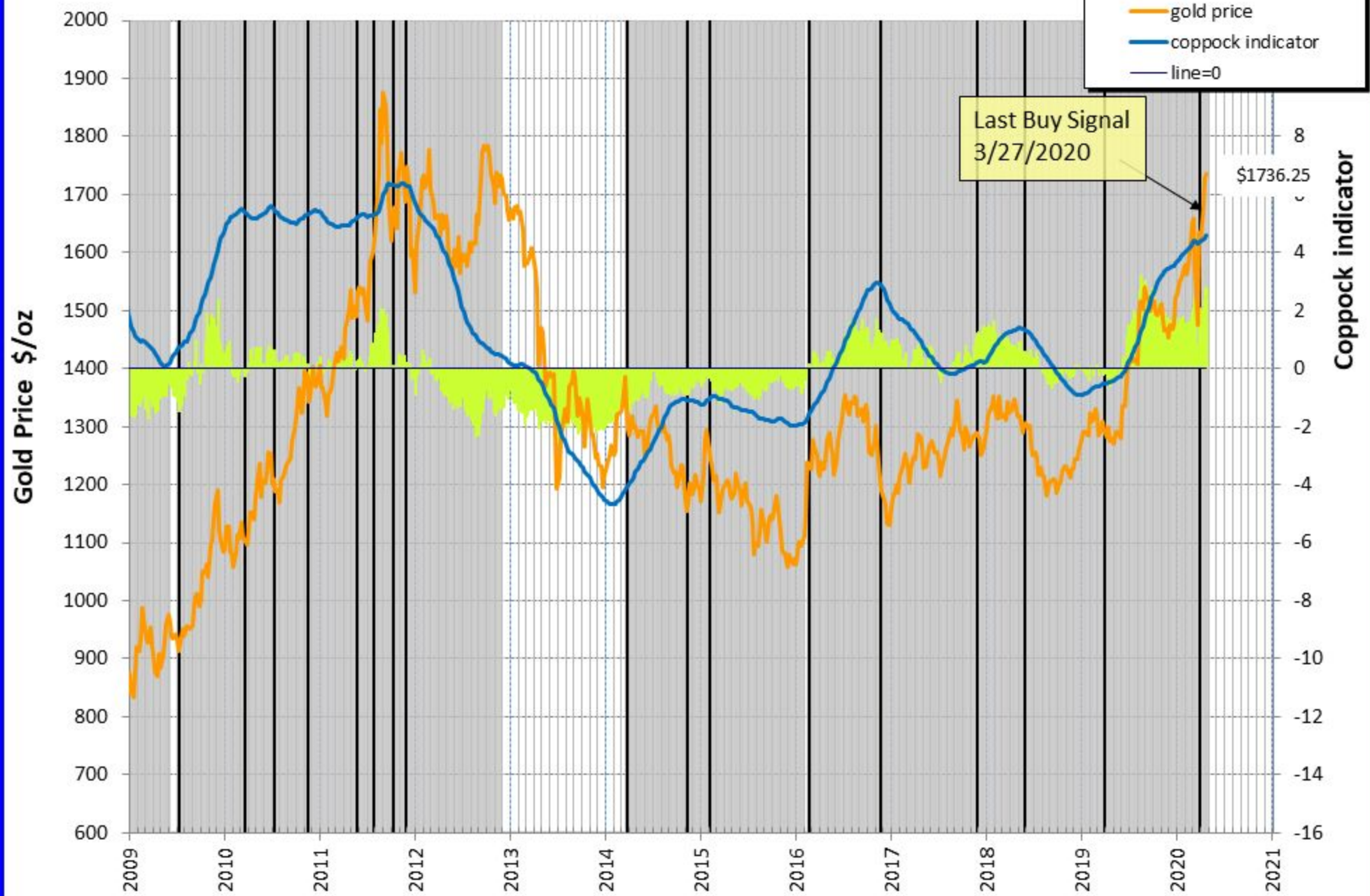
Fig. 5: Yield Curve: i10 - i2

Updated to....4/23/2020



# Figure 6: Modified Coppock Indicator for Gold

updated to 04/23/2020



- period in gold
- buy signals
- yoy RRC% stdev
- gold price
- coppock indicator
- line=0

Last Buy Signal  
3/27/2020

\$1736.25

Coppock indicator

Fig. 6.1a iM GOLD-TIMER - Rev 1

Updated to: 4/23/2020



# Figure 7: Modified Coppock Indicator for Silver

updated to 04/23/2020

