



CFTell Examination Question Paper - 19 October 2017

TIME ALLOWED: 3 ½ HOURS

Question 1: Answer both Part A and B

Question 2: Answer all three questions

Questions 3-7: Answer two questions from each of five questions

To pass the exam, you must acquire a minimum mark of 65 out of 100 possible points.

Question 1: Part A and Part B (Required)

Maximum 40 points

Question 1. Part A (Note: Chart annotations are a very important part of your analysis. Trend lines, Pattern etc. should be carefully drawn and labeled.)

Charts 1 through 7 are charts of the S&P 500. Charts are for different time frames.

1. Analyze these charts from a **long-term, intermediate-term and short-term perspective**. Include the following in your analysis and recommendations. All recommendations must be supported with the use of:
 - Trends from different time frames, support/resistance levels, signs of weakness/strength, as well as indicators and moving averages included on the charts.
 - Your expectation and recommendations regarding the future direction of this market including short, intermediate and long-term views. Your answer should be well supported with acceptable technical analysis.
 - What are your recommendations for both long and short-term clients. Please explain your trading tactic and money management technique for those who have exposure in the market, and those who are completely out of the market.

Part B: (Note: Please keep in mind, that there is not one single, “absolute”, correct answer when reallocating the weight percentages of the underlyings. Marks will be awarded for your clear argumentation.)

2. An investor has the following weights in his portfolio:

- S&P 500 (Equity): 20%
- Gold: 25%
- Oil: 15%
- T-Note: 40%

Based on Charts 8 through 13 and their attached indicators, what do you recommend the investor to do? Your answers should include the following:

- A brief analysis on these different markets (S&P, Gold, Oil, T-Note)
- An explanation of what markets should be over weighted, and what markets should be underweighted. You must mention the reasons for your re-allocations.

Important Note: All indicators are calculated on the RS curves not on the real prices

* Please start each answer on a fresh sheet of paper



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Question #2

Answer all three questions (Required)

Maximum 10 Points

Question 2. (ANSWER ALL THREE QUESTIONS)

1. Three of the most popularly used technical analysis indicators are MACD, Stochastics and the RSI. As a professional technical analyst, you should be well aware of the calculations of these indicators. Explain in detail the calculation of these three indicators. (4 points)
2. Please define "Market Sentiment" and provide three (3) examples of measures of Market sentiment and how they are used. (3 points)
3. The chart below is a daily chart of a market index in a Middle East country. Please turn this chart into a point and figure chart using the "close" tactic. Please use a box size of 50, and a reversal criteria of 3. To keep it relatively simple, we recommend using the empty chart to draw your point and figure chart. (3 points)

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Questions 3-7

Answer TWO questions from each question (Required)

Maximum 50 points (5 points for each question)

Question 3. (ANSWER TWO QUESTIONS)

1. Explain a long-term trading tactic, using price action, along with the MACD indicator and the +DI, and –DI curves from the DMI system. Your investment strategy should include the signals that will trigger a long-term buy signal, and how will you get out of your long-term position. (5 points)
2. Price gaps that appear during a strong upward move are very significant. Some of them are bullish, as they signal the beginning of the move, while others hint that the upward move will continue, while other gaps are bearish as they appear at the end of the move. Please explain this statement, stating which gaps appear in the beginning, middle, and end of the move. (5 points)
3. A Point and Figure chart has no time scale but it is still considered a two-dimensional chart, which is similar to bar and line charts. Explain. (5 points)

Question 4. (ANSWER TWO QUESTIONS)

1. Explain the similarities between a triple top and a descending triangle that appears after an uptrend. Explain how prices are expected to move, as well as how to calculate the price target in both formations. (5 points)
2. Explain how a Dow Theory sell signal and a breadth sell signal are similar? (5 points)
3. Some mainstream observers argue that the Elliott Wave Principle can be highly subjective, and traditionally exhibits greater success as a confirmation overlay, rather than a predictive tool. Explain your view, with examples of how practitioners can improve the reliability of this model. (5 points)

Question 5. (ANSWER TWO QUESTIONS)

1. Explain why a bullish engulfing pattern and a shooting star are stronger formations than the piercing pattern and the hanging man. Your answer should include the psychology of such formations. (5 points)
2. What is the commitment of Traders (COT) Report and how is it used by traders and investors? (5 points)

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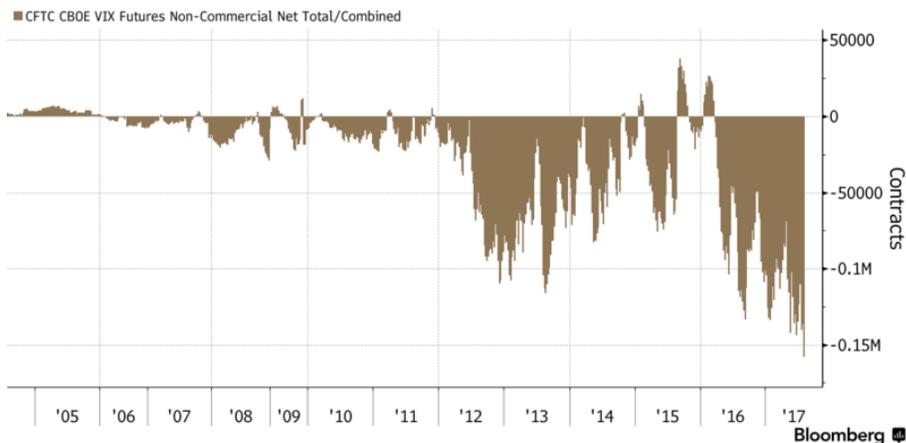
3. Two popular market breadth indicators are giving conflicting signals. The % of stocks making new 4-week highs is very weak, but a much greater % of stocks are holding above their 200-day averages. Describe the probable market condition and stage of the cycle, while suggesting a viable strategy. (5 points)

Question 6. (ANSWER TWO QUESTIONS)

1. Please describe three measures of breadth. Explain how they are used and how successful these indicators have been in determining the future direction of the markets or issue being studied. (5 points)
2. Edgar Lawrence Smith presented the notion of a ten-year stock market cycle in his book "Tides and the Affairs of Men" (1939). The cycle has since been popularly referred to as the *decennial pattern*. Which year in the decade is statistically proven to yield the most positive average return in the stock market and what does the same probabilistic roadmap suggest for the remaining part of 2017, coupled with traditional seasonality trends? (5 points)
3. A Bloomberg journalist reports "The number of short positions on VIX futures has hit a fresh peak, and an exchange-traded fund that benefits when volatility falls just saw its biggest weekly inflows [in several months], following three weeks of withdrawals. What might be driving investors to keep shorting volatility and what does this extreme calm potentially signal about the market? (5 points)

Staying Placid?

Record short positions in VIX futures



* Please start each answer on a fresh sheet of paper



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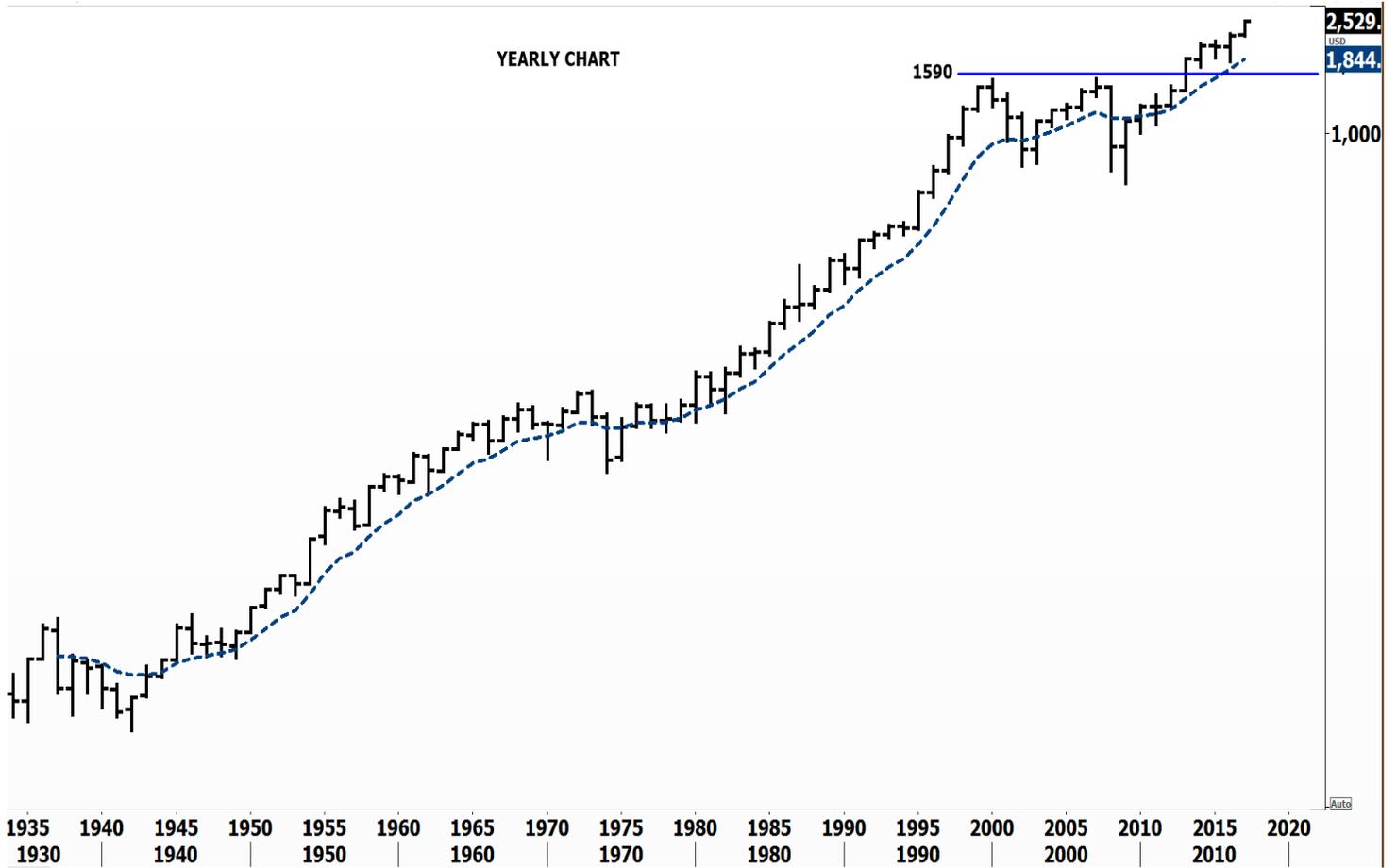
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Question 7. (ANSWER TWO QUESTIONS)

1. Relative strength analysis is a very useful tool that helps investors to pick the best stocks. Explain how we calculate this indicator, and the advantages that this indicator possesses over momentum indicators. (It is important to note that relative strength analysis is not the RSI indicator that was created by Welles Wilder.) (5 points)
2. In market profile, what is a neutral day and when does it unfold? (5 points)
3. Explain how to calculate the NT Projection downward target in Ichimoku charts. (5 points)

* Please start each answer on a fresh sheet of paper

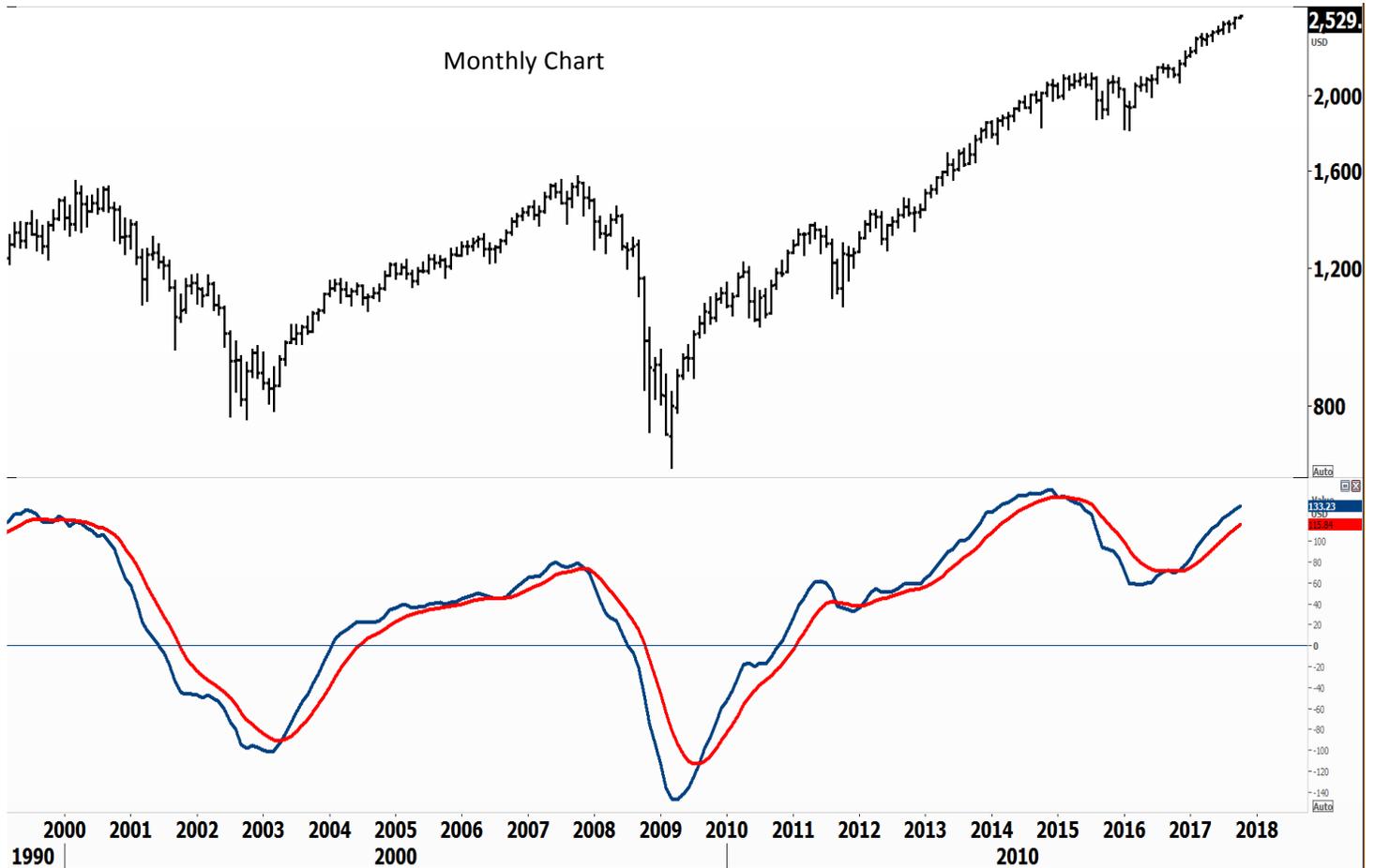
Chart 1



Yearly Chart: log scale

10 years Moving Average

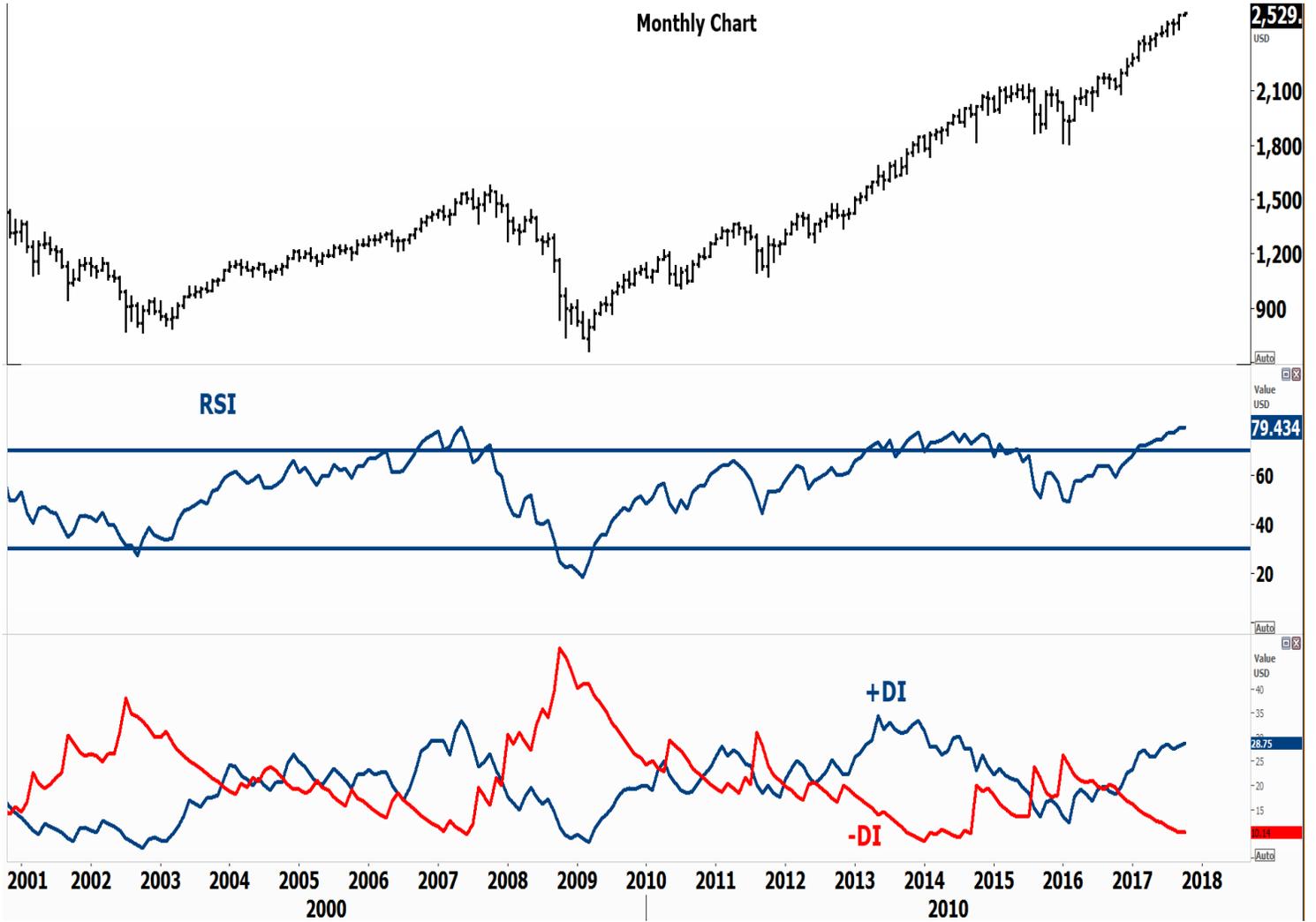
Chart 2



Monthly Chart: log scale

MACD (12,26,9)

Chart 3

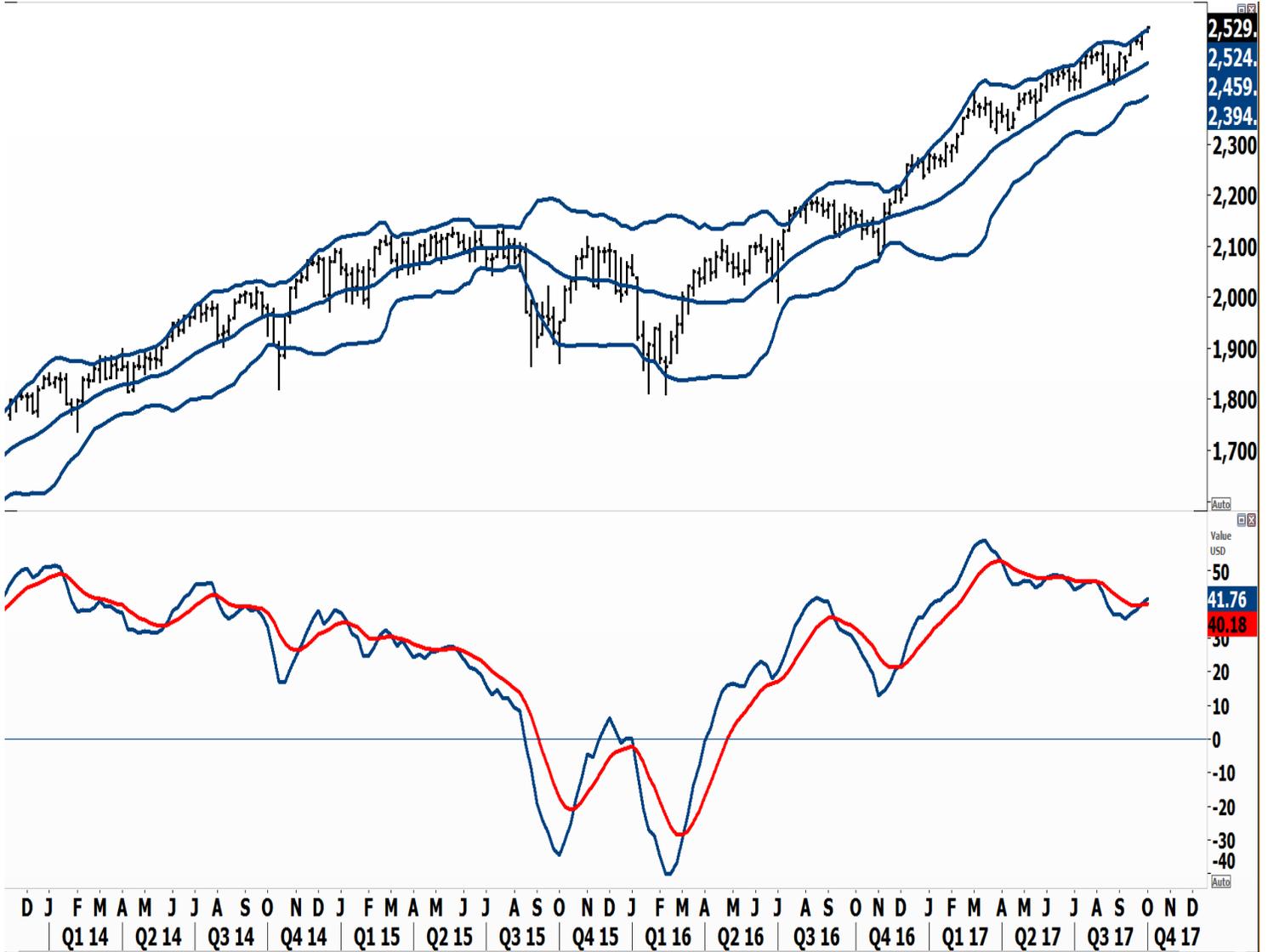


Monthly Chart: Arithmetic scale

RSI (14 periods)

+DI / -DI from the DMI System

Chart 4

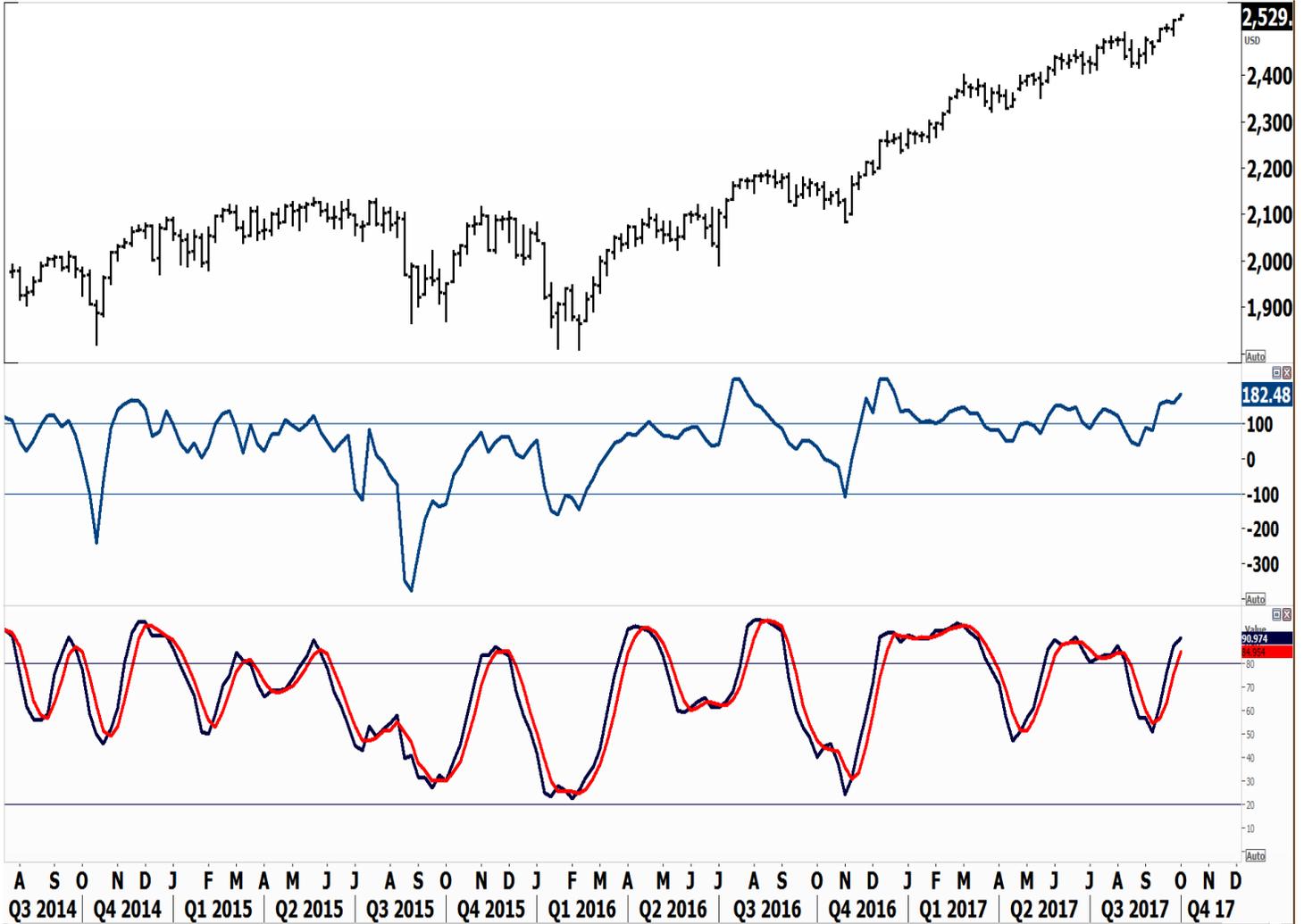


Weekly Chart: Arithmetic scale

Bollinger Bands: 20 week SMA + 2 St. Dev

MACD: (12,26,9)

Chart 5

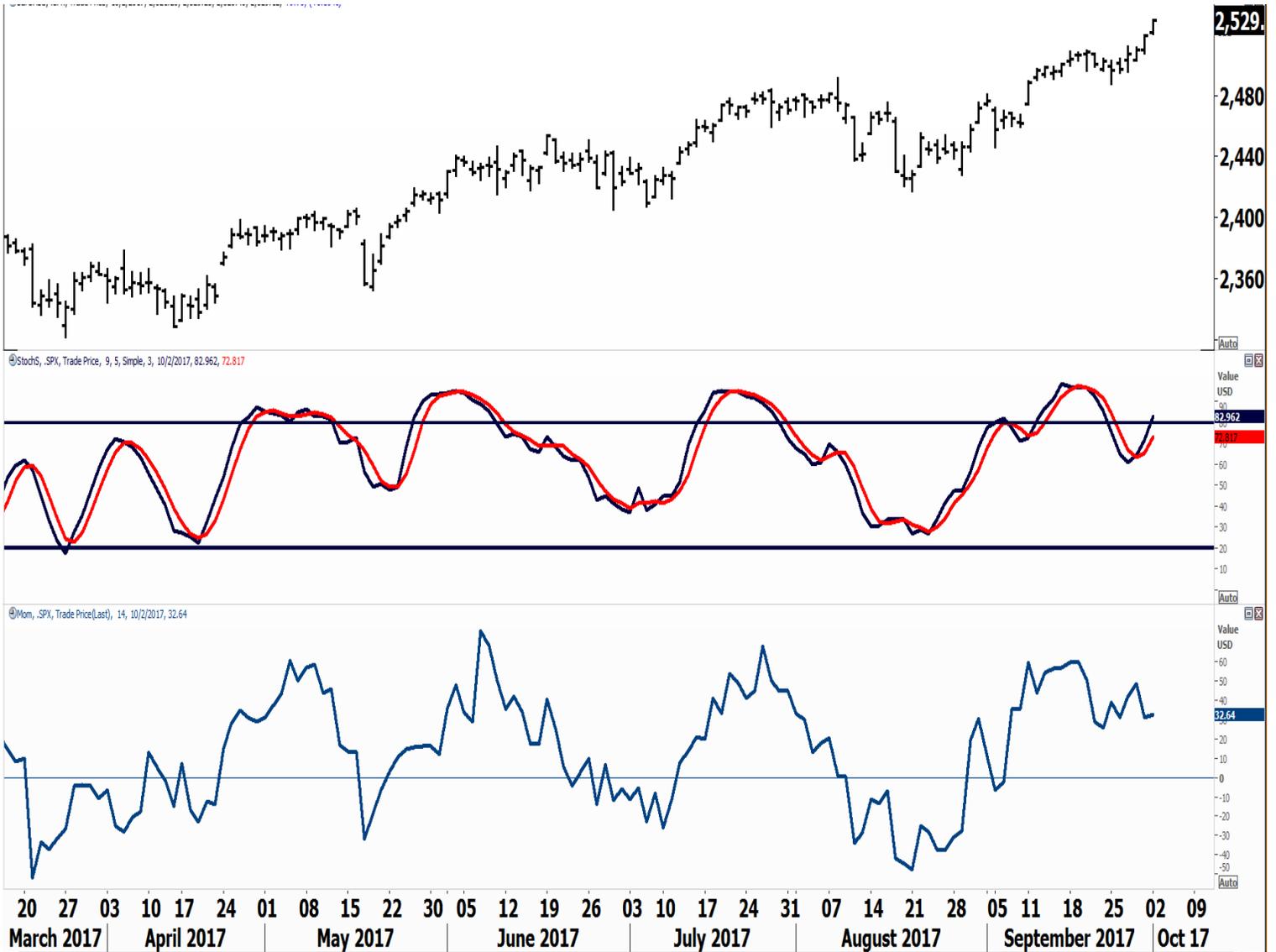


Weekly Chart: Arithmetic scale

CCI (20 weeks)

Stochastic Oscillator: (9,5,3)

Chart 6

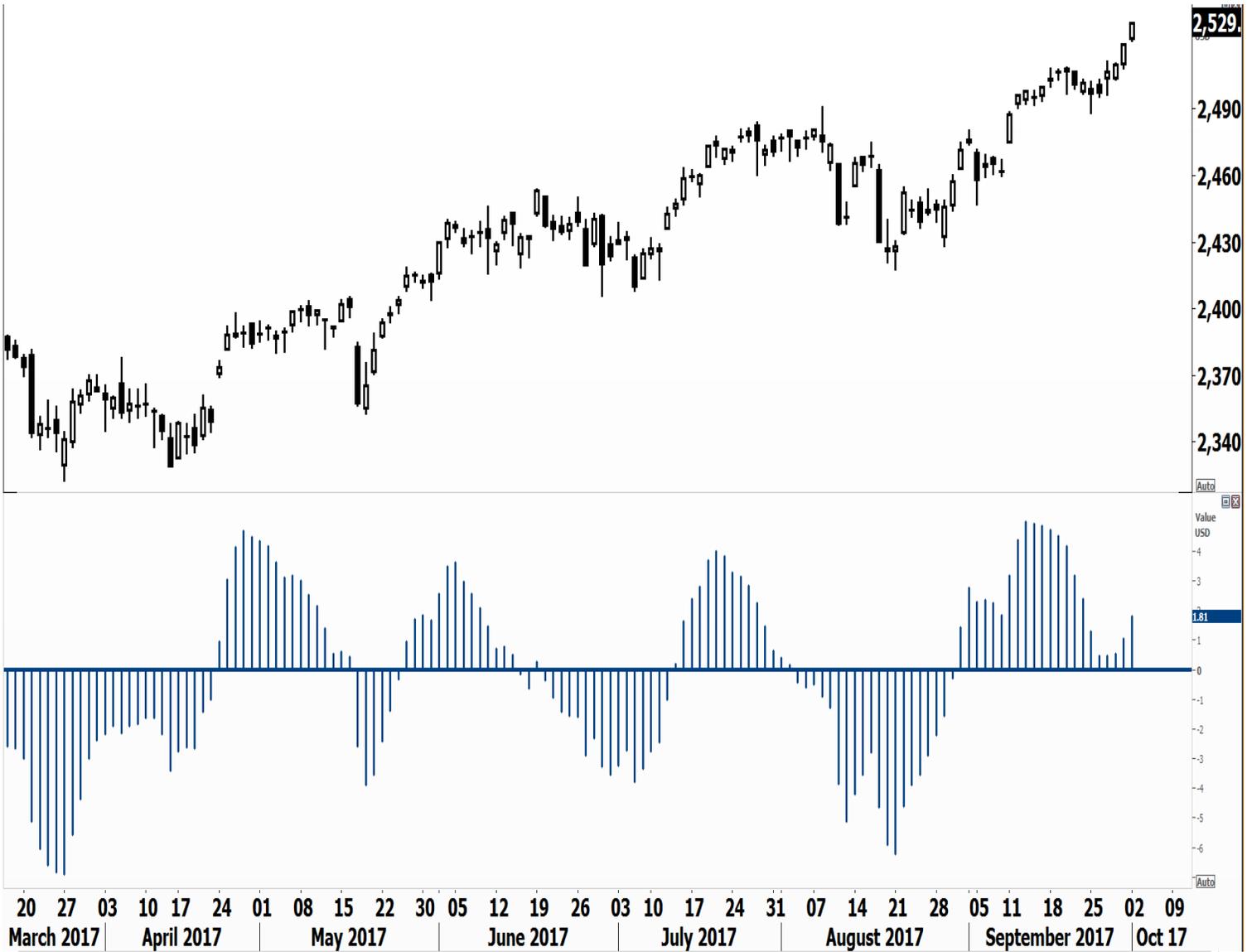


Daily Chart: Arithmetic scale

Stochastic Oscillator: (9,5,3)

Momentum Oscillator (14 periods)

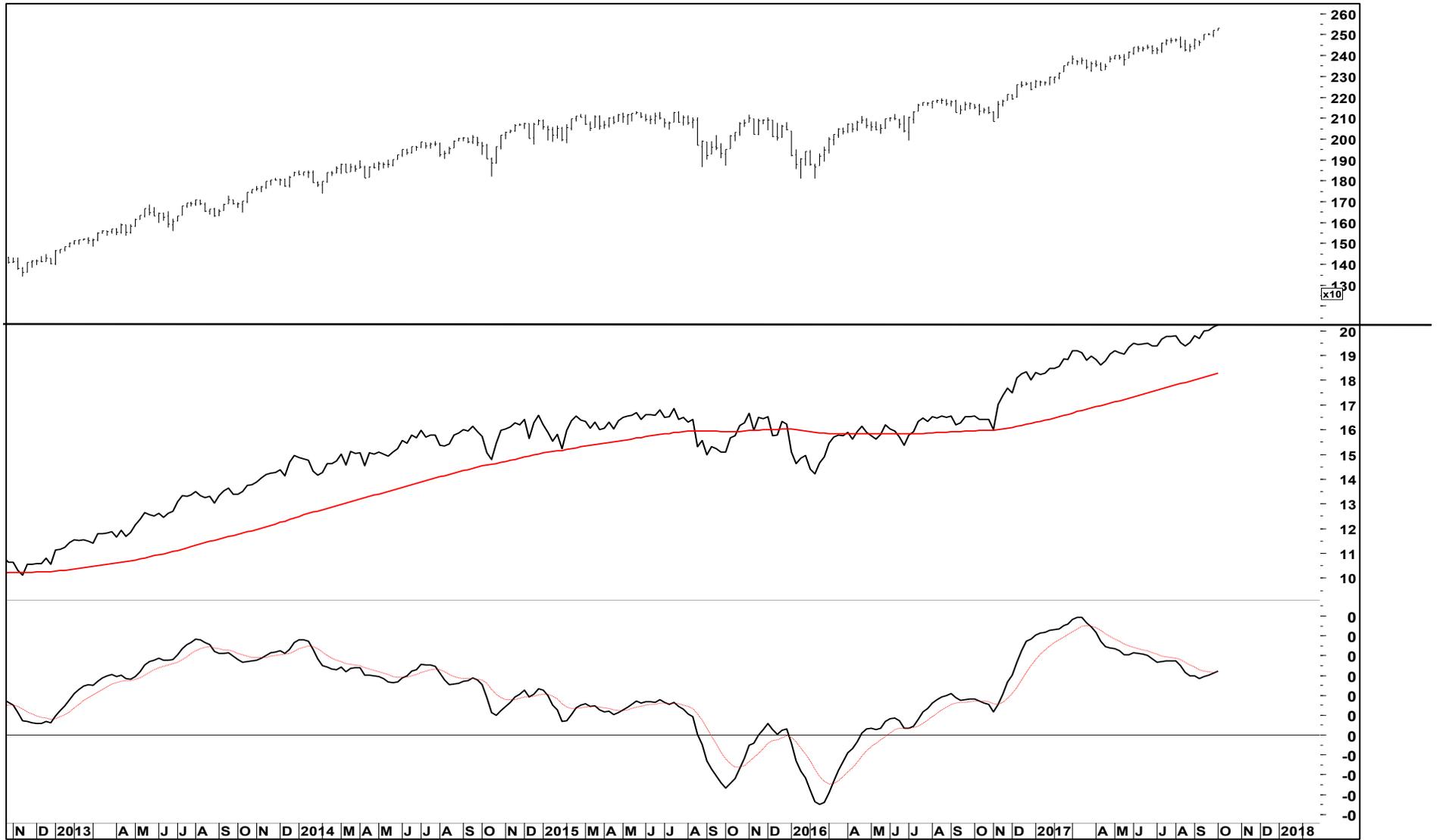
Chart 7



Daily Chart: Arithmetic scale

MACD Histogram

Chart 8

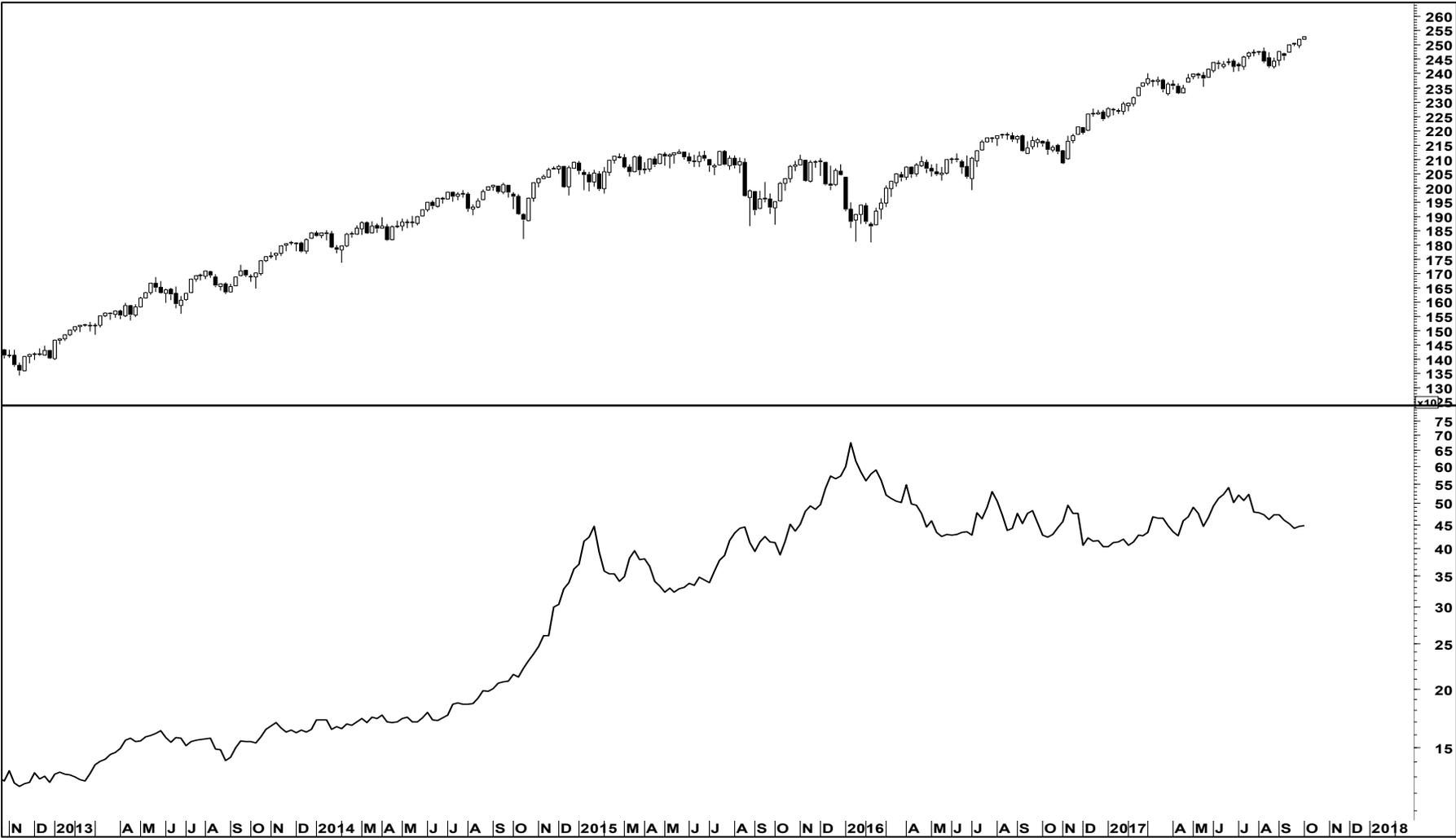


Upper Window: S&P 500 Index – Weekly Bar Chart – Normal Scale

Middle Window: S&P 500 Index vs. 10-Year UST-Note RS line w/100 Week Weighted MA – Normal Scale

Lower Window: MACD of the S&P 500 Index vs. 10-Year UST-Note RS line – Normal Scale

Chart 9

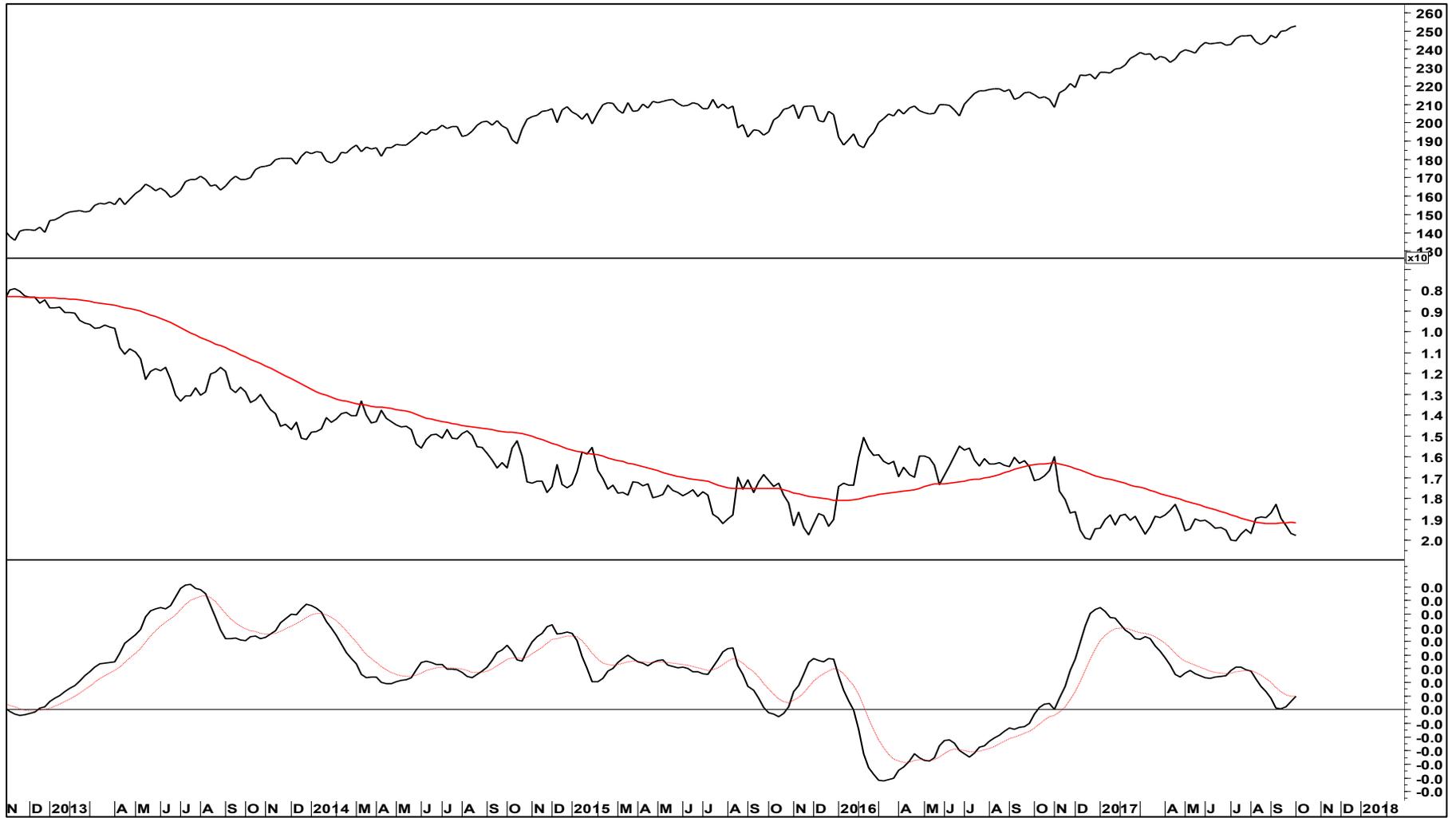


S&P 500 Index

Upper Window: S&P 500 Index – Weekly Candlestick Chart – Normal Scale

Lower Window: S&P 500 Index vs. European Dated Brent (BFOE) RS line – Semi-log. Scale

Chart 10



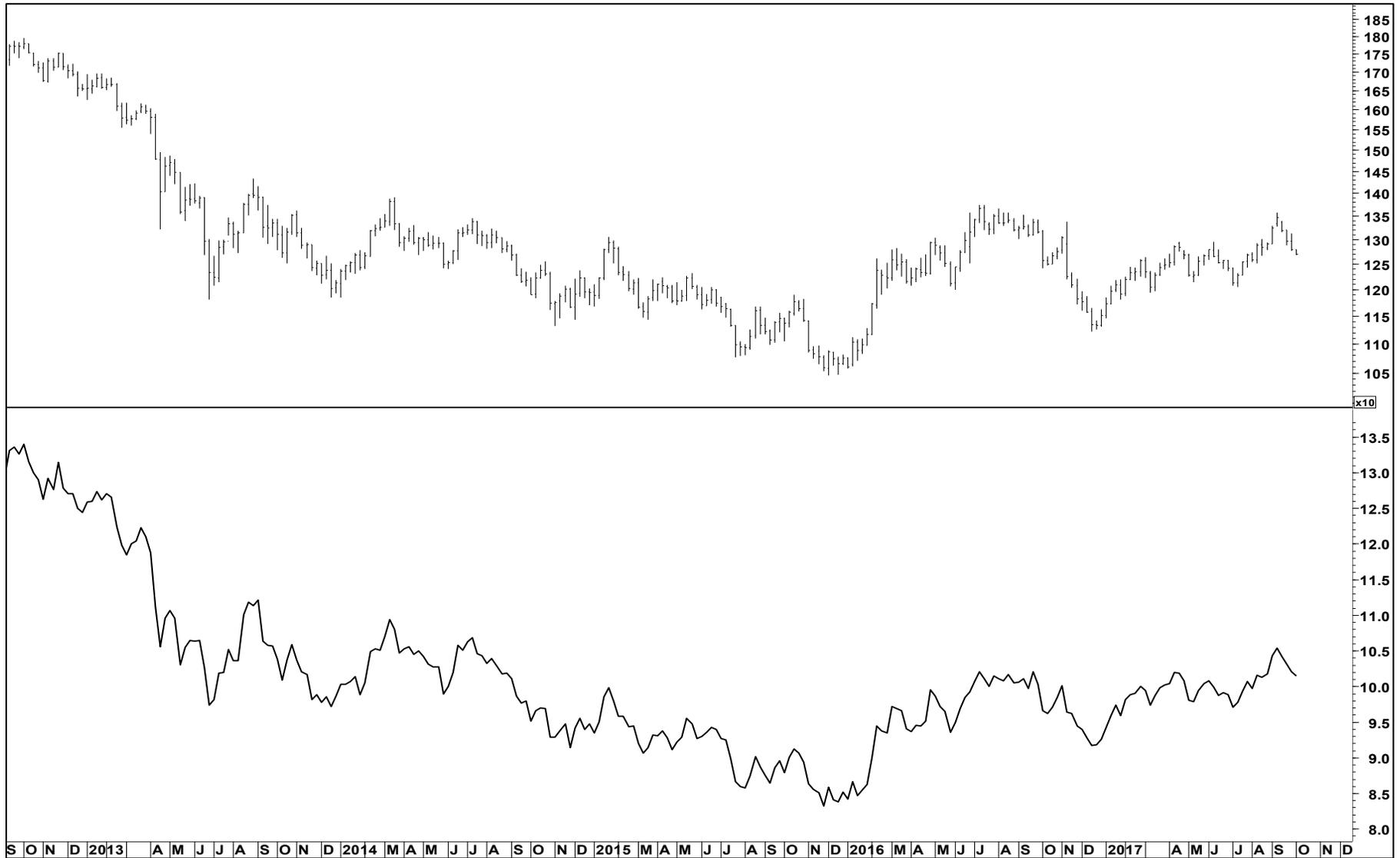
S&P 500 Index

Upper Window: S&P 500 Index – Weekly Line Chart – Normal Scale

Middle Window: S&P 500 Index vs. Gold RS line w/40 Week SMA – Inverted Normal Scale

Lower Window: MACD of the S&P 500 Index vs. Gold RS line – Normal Scale

Chart 11

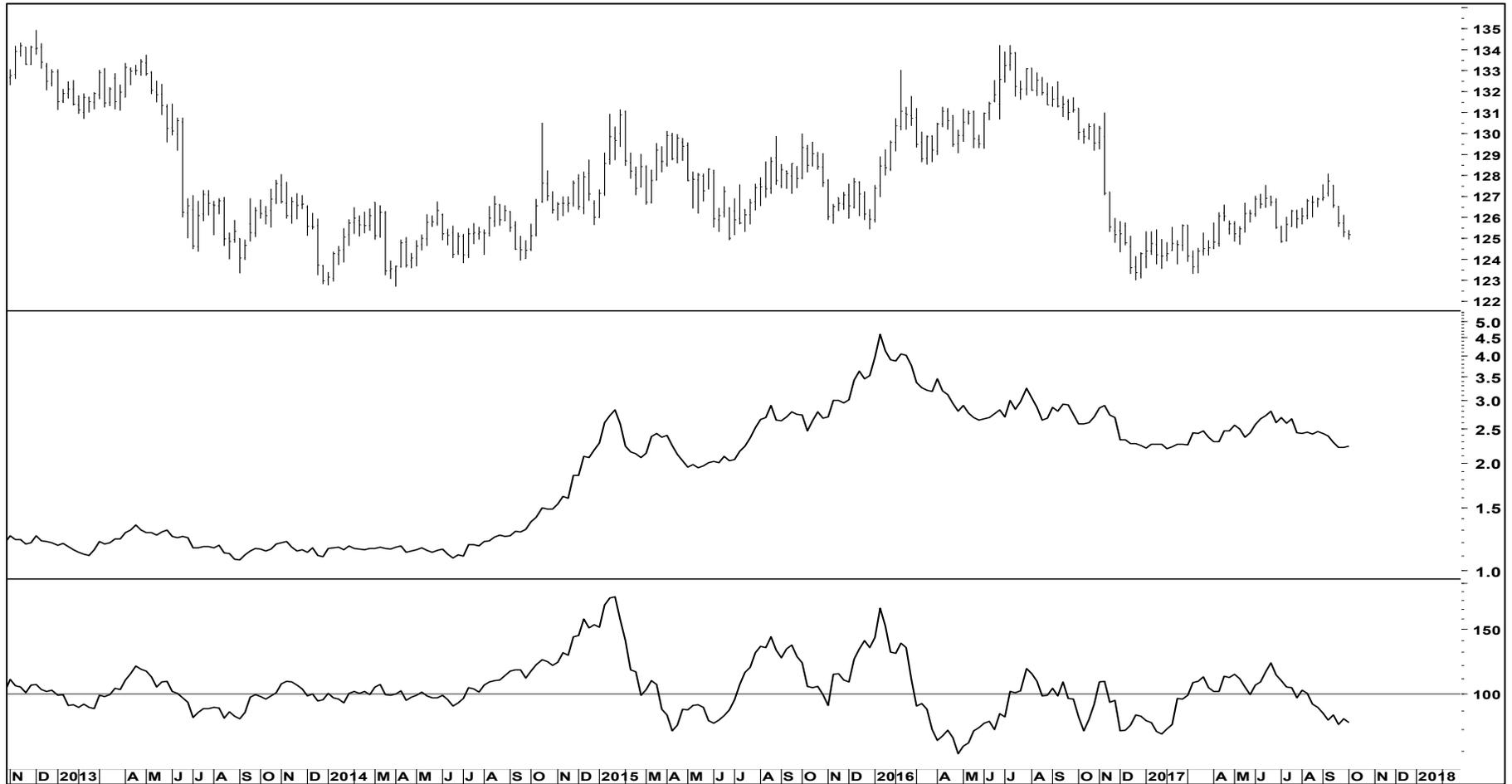


Gold

Upper Window: Gold– Weekly Bar Chart – Semi-Log. Scale

Lower Window: Gold vs. 10-Year UST-Note RS line – Normal Scale

Chart 12



10-Year UST-Note

Upper Window: 10-Year UST-Note – Weekly Bar Chart – Normal Scale

Middle Window: 10-Year UST-Note vs. European Dated Brent (BFOE) RS line – Semi-log. Scale

Lower Window: Relative Strength Index (RSI) of the 10-Year UST-Note vs. European Dated Brent (BFOE) RS line – Normal Scale

Chart 13



Brent Spot

Upper Window: European Dated Brent (BFOE) – Weekly Bar Chart – Normal Scale

Middle Window: European Dated Brent (BFOE) vs. Gold RS line w/Bollinger Bands (20 Week SMA/2 Stdev.) – Normal Scale

Lower Window: Relative Strength Index (RSI) of the European Dated Brent (BFOE) vs. Gold – Normal Scale