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U.S. Equity Market Report

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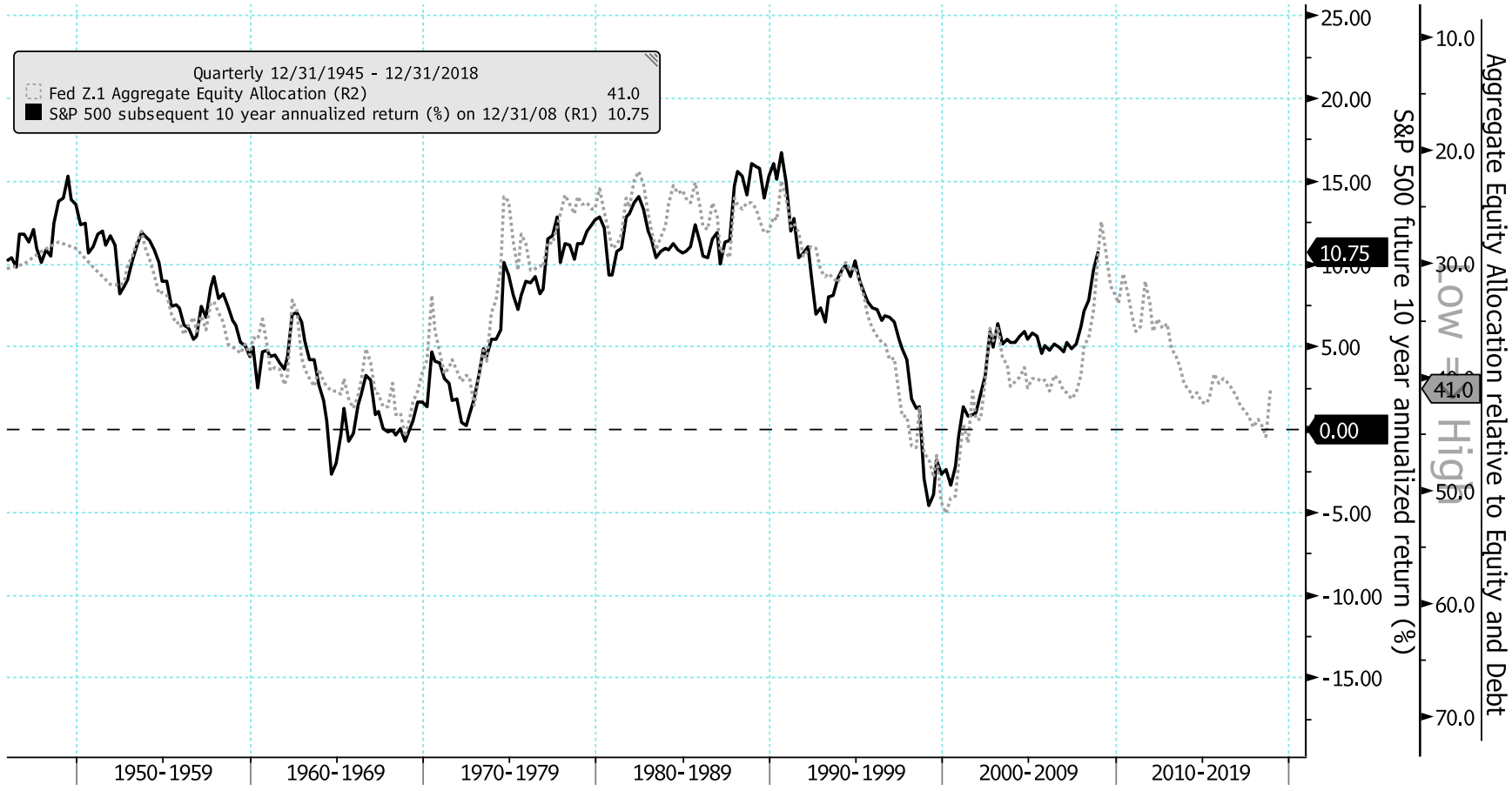
S&P 500 Valuation Indicator

Aggregate Equity Allocation Proxy (From Fed Z.1 Report) and S&P 500 Subsequent 10 year annualized Returns

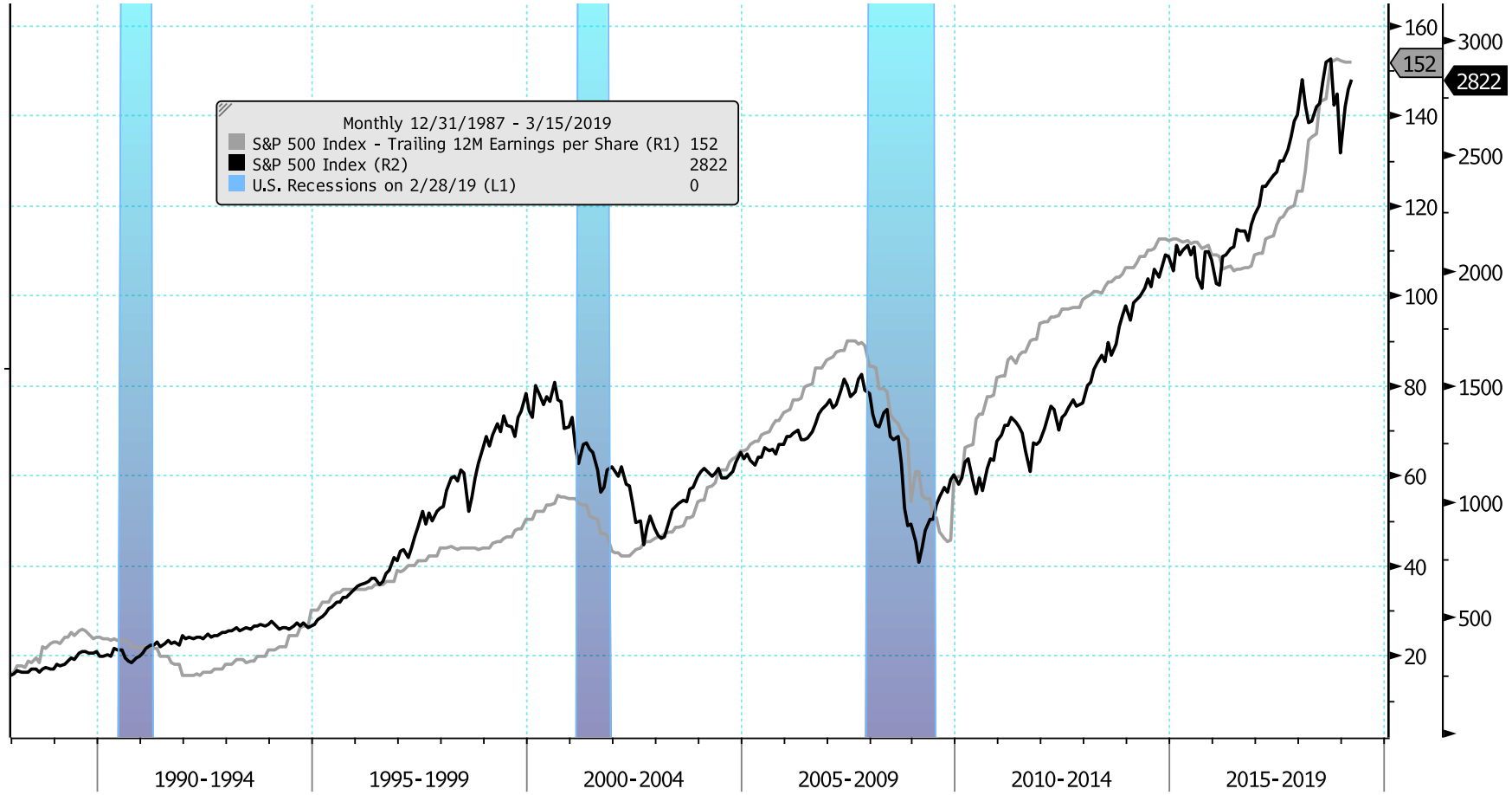


Source: Bloomberg, © Merk Investments LLC

Analysis: If history is any guide, this chart suggests annualized S&P 500 returns (w/o dividends) might be little more than 0% annualized over the coming 10 year period. The grey dotted line is the market value of US equity divided by the total market value of US equity and debt, which is used as a proxy for aggregate equity allocation. At 41.0% the equity allocation is relatively high currently. The data comes from the quarterly Federal Reserve Z.1 report, the series will be updated next in late June. Chart Framework: I'd likely get positive on the longer term outlook for the S&P 500 at an allocation below 30%, which would likely only be after a substantial bear market.

Earnings Backdrop

S&P 500 Trailing 12-month Earnings per Share and the S&P 500

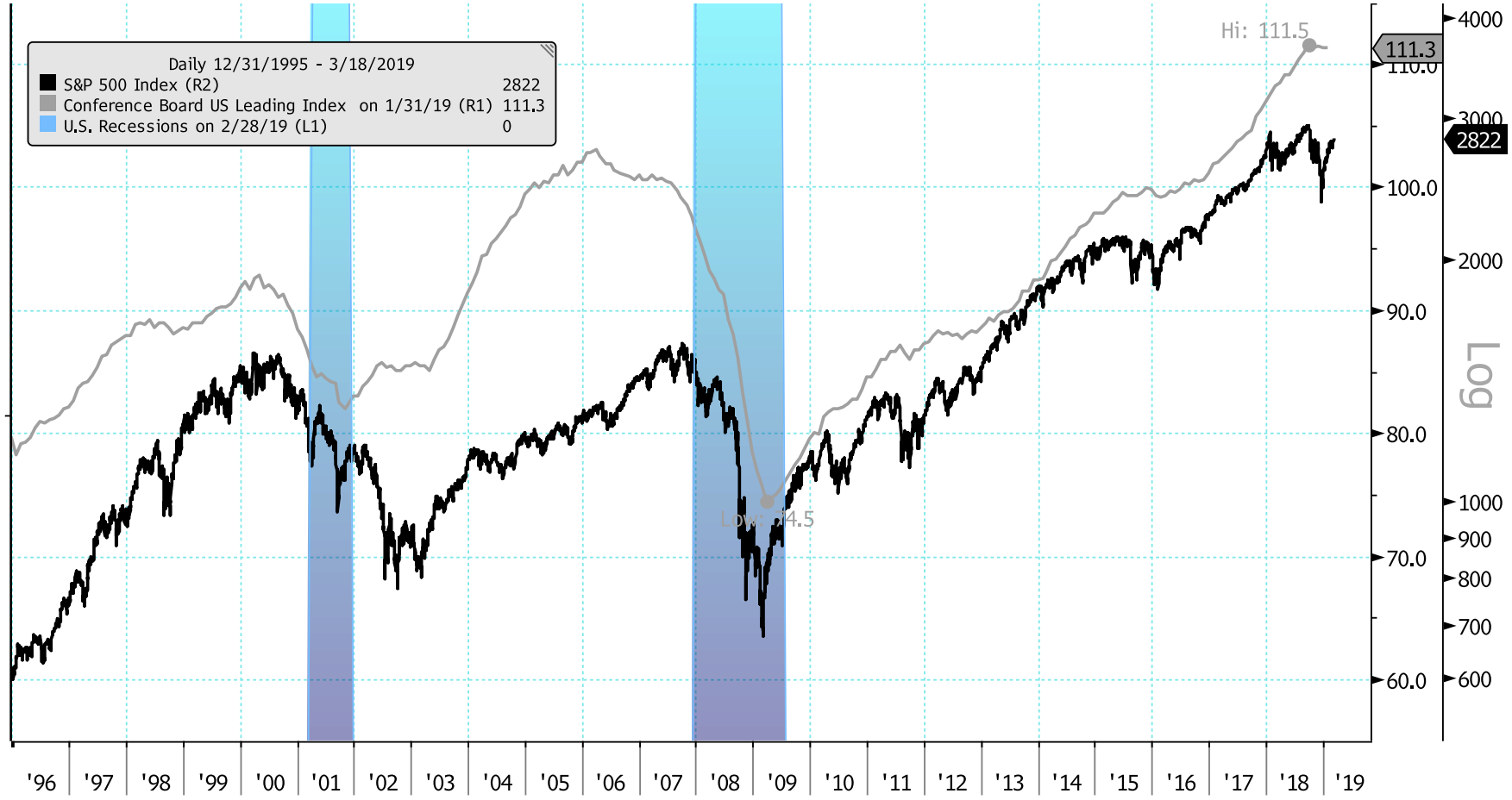


Source: Bloomberg, © Merk Investments LLC

Analysis: S&P 500 trailing earnings have started to move sideways, in part due to base effects following a year strengthened by fiscal stimulus measures. According to Factset: analysts are projecting earnings growth of 4% for calendar year 2019, a slightly lower growth forecast relative to last month's report. I'm currently neutral on this picture. Chart Framework: I'd get incrementally negative if the trailing 12-month earnings move sideways/down over consecutive quarters (QoQ), i.e., two or more quarters. It's worth noting that this framework may be more of a coincident or confirmatory rather than a leading indicator with respect to a major market top.

Business Cycle Backdrop

Leading Economic Indicators (LEI) Index and the S&P 500



Source: Bloomberg, © Merk Investments LLC

Analysis: The LEI Index is just below its highs for the cycle- it's too early to say whether this is indicating an end to the business cycle expansion. Chart Framework: I'd get incrementally negative on the outlook for the S&P if the LEI Index began trending down on a YoY basis while the S&P was at or near bull market highs.

Global Growth Backdrop

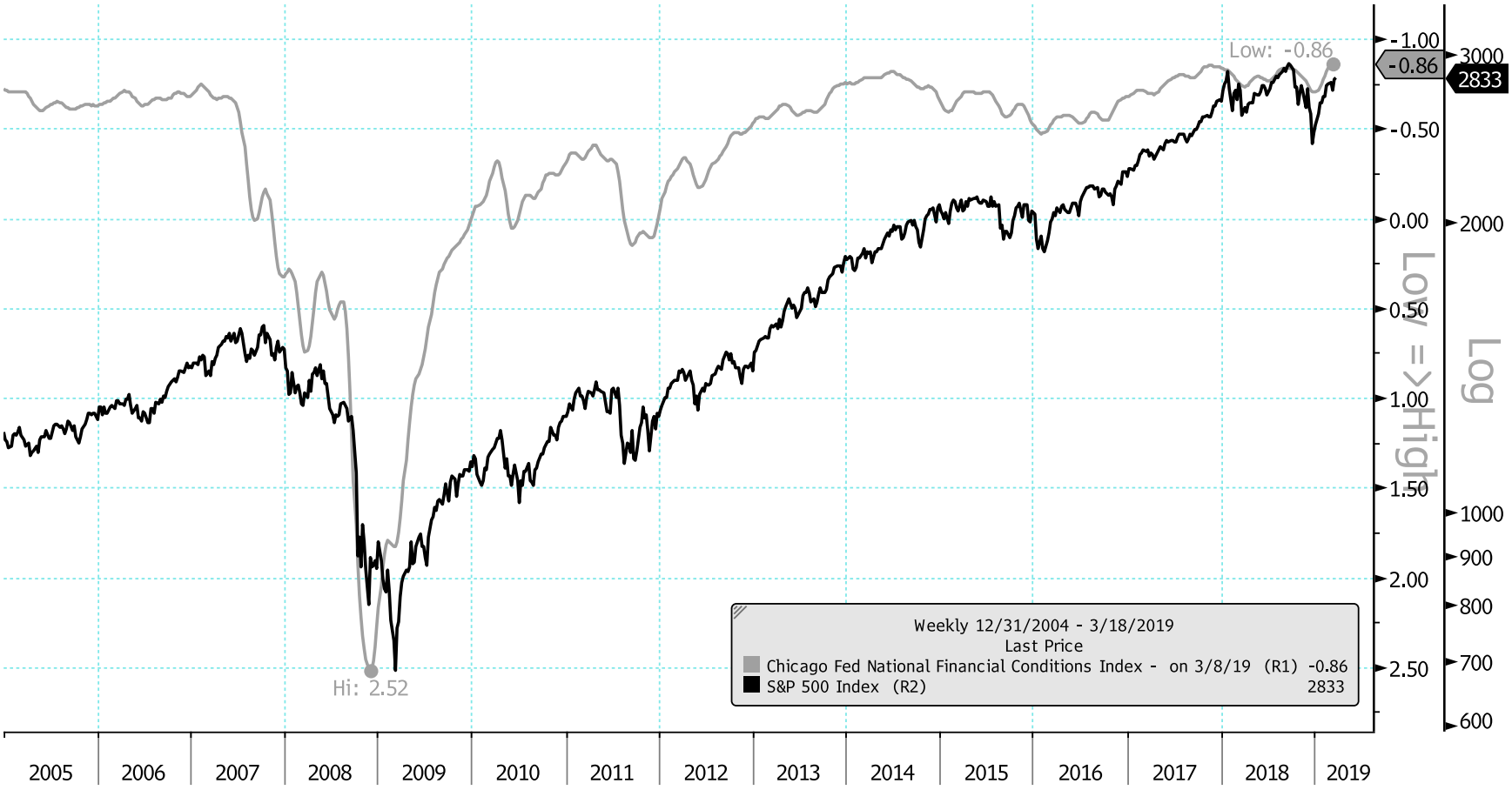
Large Economy Manufacturing PMIs (Purchasing Managers Index) and the S&P 500

Source: Bloomberg, © Merk Investments LLC

Analysis: The Chinese, Japanese, and German Manufacturing PMIs remain below the 50, which divides expansion from contraction. I'm currently neutral/negative on this picture given my framework. Chart Framework: I'd get positive if all readings are above 50.

U.S. Financial Conditions

Chicago Fed National Financial Conditions Index and the S&P 500



Source: Bloomberg, © Merk Investments LLC

Analysis: Financial conditions have eased since last month's report, from -0.78 to -0.86, as of the week ending 3/8/2019. Financial conditions are at the loosest levels of the cycle, which is generally supportive of the stock market. Chart Framework: I'd get incrementally negative on the outlook for the S&P if financial conditions moved through the -0.50 level.

S&P 500 Market Breadth

S&P 500 Index and the S&P 500 Cumulative Advance-Decline Line*

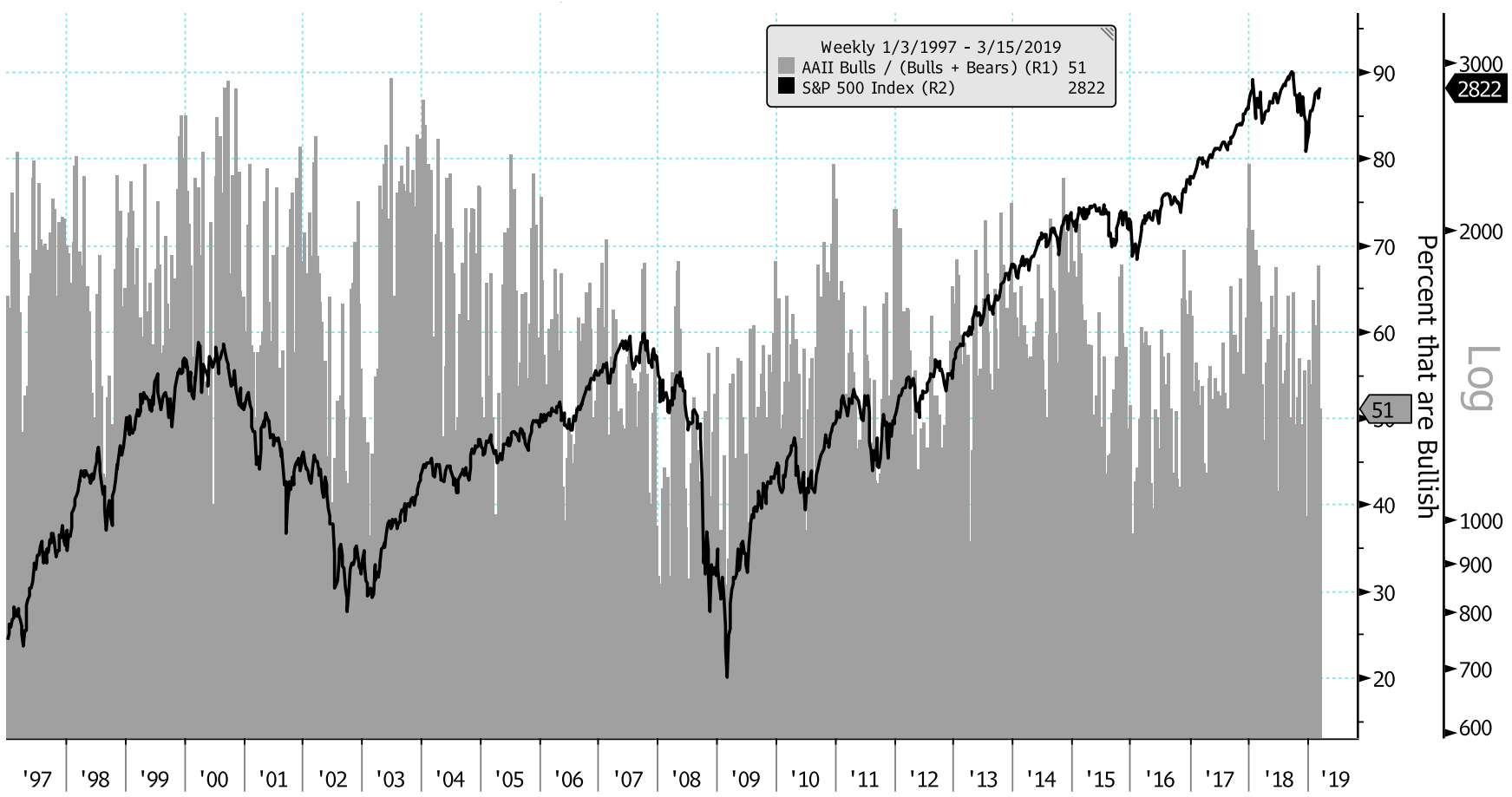
Source: Bloomberg, © Merk Investments LLC

Analysis: The cumulative advance-decline line for the S&P 500 continues to make new all time highs, which suggests continued broad participation in the bull market. I'd get cautious on this picture if there was a divergence in which the S&P 500 was making new all time highs but the cumulative a/d line was not.

**The cumulative a/d line is a daily series that takes the previous cumulative a/d line value and adds the number of daily advancers (i.e., the number of S&P 500 member stocks that gained in price on the day) and subtracts the daily decliners (i.e., the number of S&P 500 member stocks the declined in price on the day). For example, if 276 member stocks were up for the day, and 224 member stocks were down for the day, the cumulative a/d line would move up by 52.*

Market Sentiment

Percent that are Bullish (bulls / bulls+bears) and S&P 500

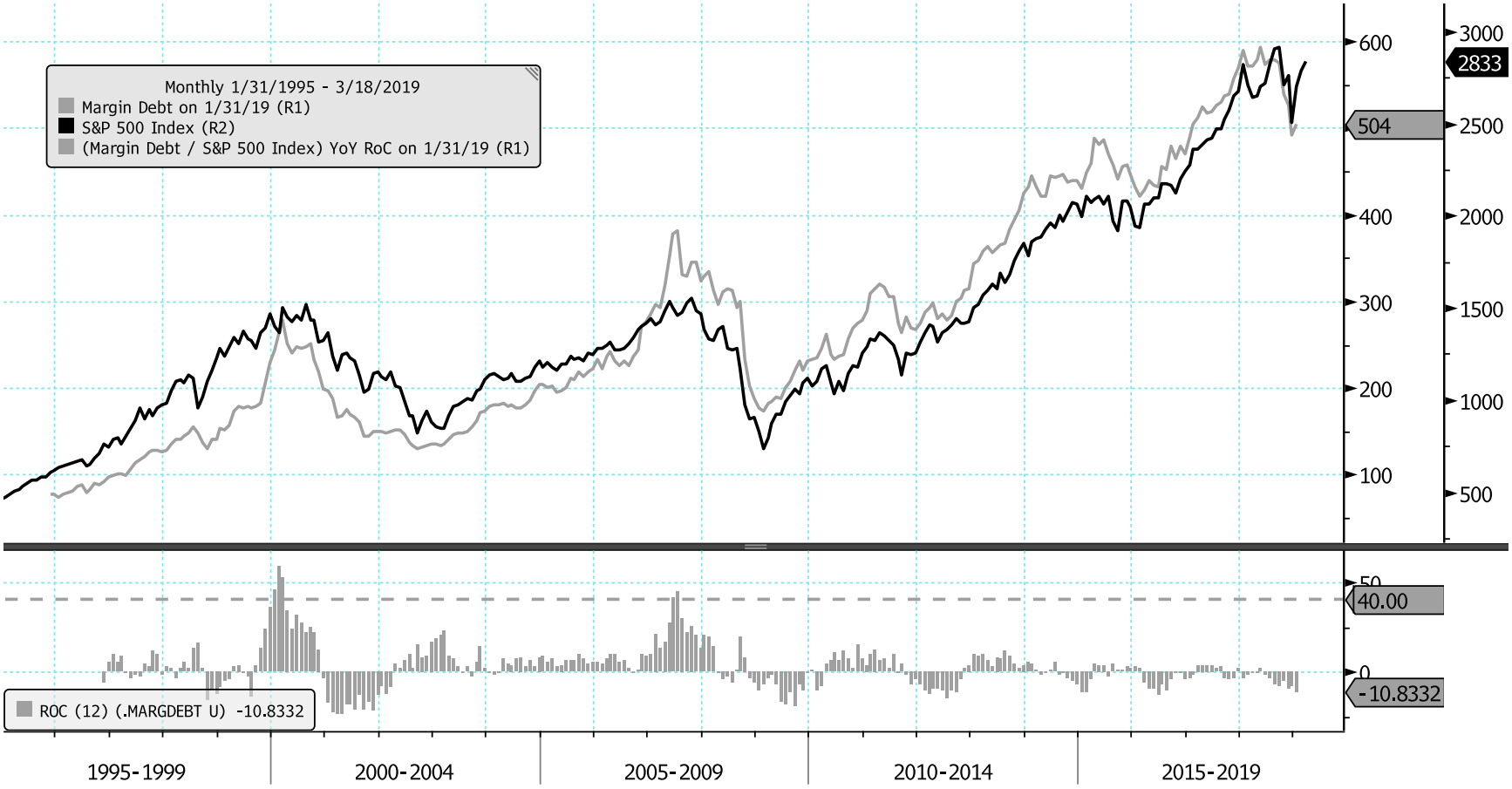


Source: Bloomberg, © Merk Investments LLC

Analysis: Bullishness is currently near the long term average. In my view this chart should be looked at from a contrarian perspective. Given that sentiment is near the average, my current interpretation of this chart is neutral. Chart Framework: I'd get incrementally negative on this picture with sentiment at or above 70 and incrementally positive with sentiment at or below 30.

Margin Debt

Margin Debt and S&P 500 (top panel), 12 month change in Ratio of Margin Debt / S&P 500 (bottom panel)

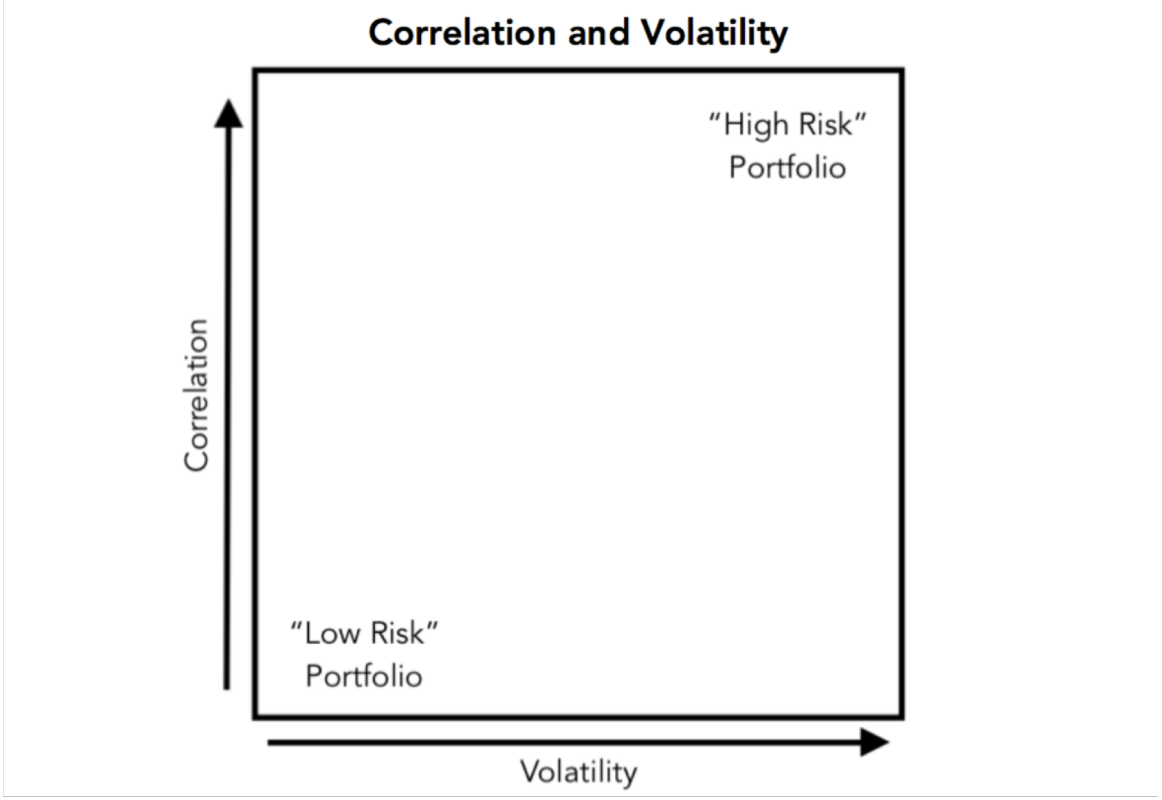


Source: Bloomberg, © Merk Investments LLC

Analysis: In the previous two major market tops for the S&P 500 (2000 and 2007), margin debt rose significantly relative to the equity market, possibly reflecting the euphoric phase of the bull market, or long positions switching from strong hands (unlevered) to weak hands (levered). Currently margin debt is not rising relative to the stock market (bottom panel), perhaps supportive of the idea that the bull market isn't over. Chart Framework: I'd get incrementally negative on the outlook for the S&P if YoY rate of change of the ratio (bottom panel) moved above 40.

Correlation and Volatility Framework

On the below diagram Correlation rises along the vertical axis from bottom to top, and Volatility rises on the horizontal axis from left to right

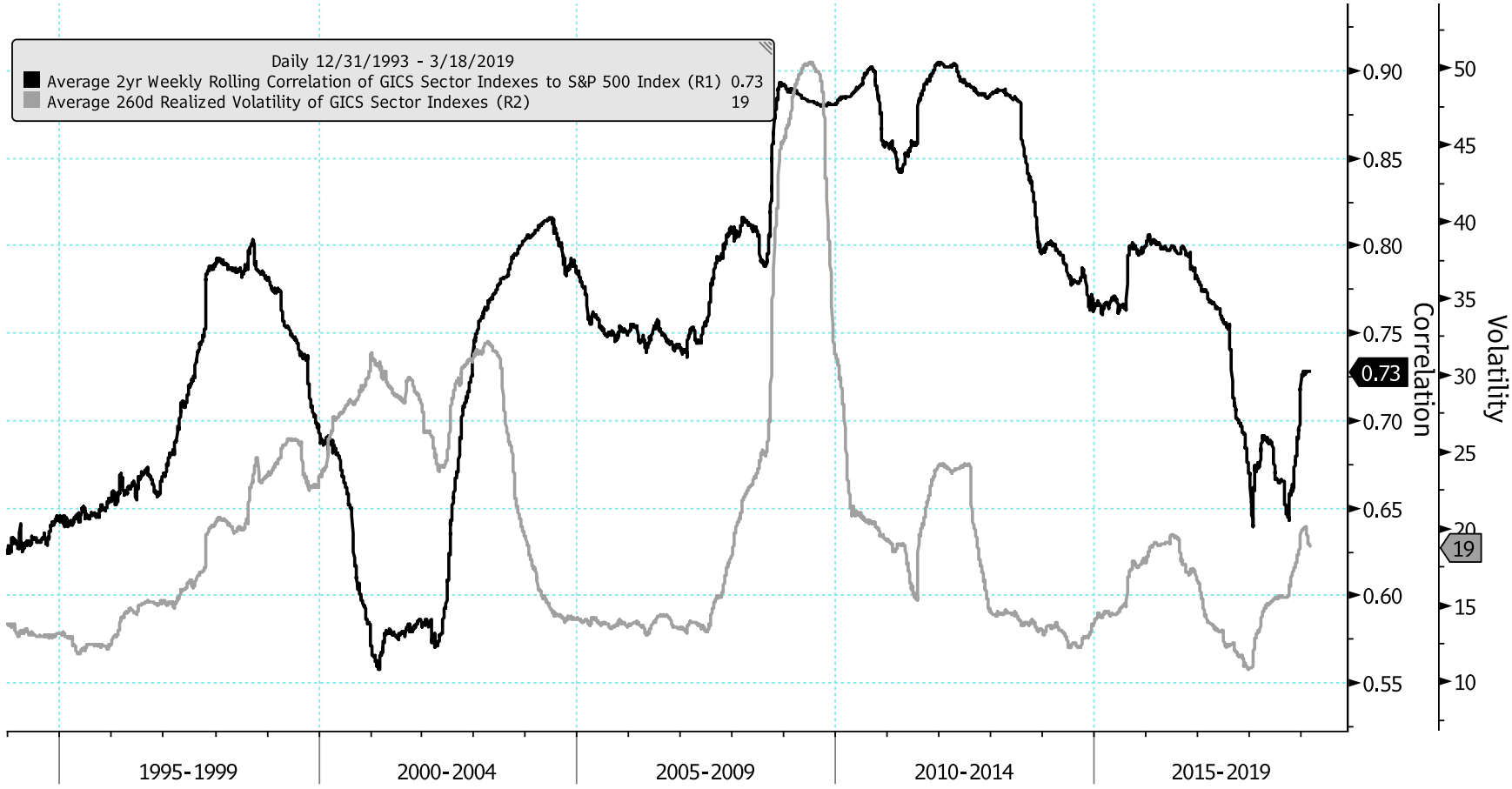


Source: © Merk Investments LLC

Analysis: This is a very simple diagram to help visualize how volatility and correlation relate to the conventional concept of portfolio risk. Volatility measures how much movement an individual asset has relative to itself, and correlation measures how much movement an individual asset has relative to other assets in a portfolio. For a given portfolio, the lower the volatility of each individual asset and the lower the correlation between the assets, the "lower risk" the portfolio will be, as measured by portfolio standard deviation—and vice versa for high volatility and high correlation. Counter-intuitively I would argue that longer-term investors might actually want to think the opposite way—that is to become cautious when asset portfolios appear low risk and consider opportunities when asset portfolios appear high risk. To paraphrase Warren Buffett: it's better to be fearful when others are greedy and greedy when others are fearful.

S&P 500 Correlation and Volatility

Avg. 2-yr Correlation of GICS* Sector Indexes to the S&P 500 Index and Avg. GICS Sector Index 1-yr realized volatility

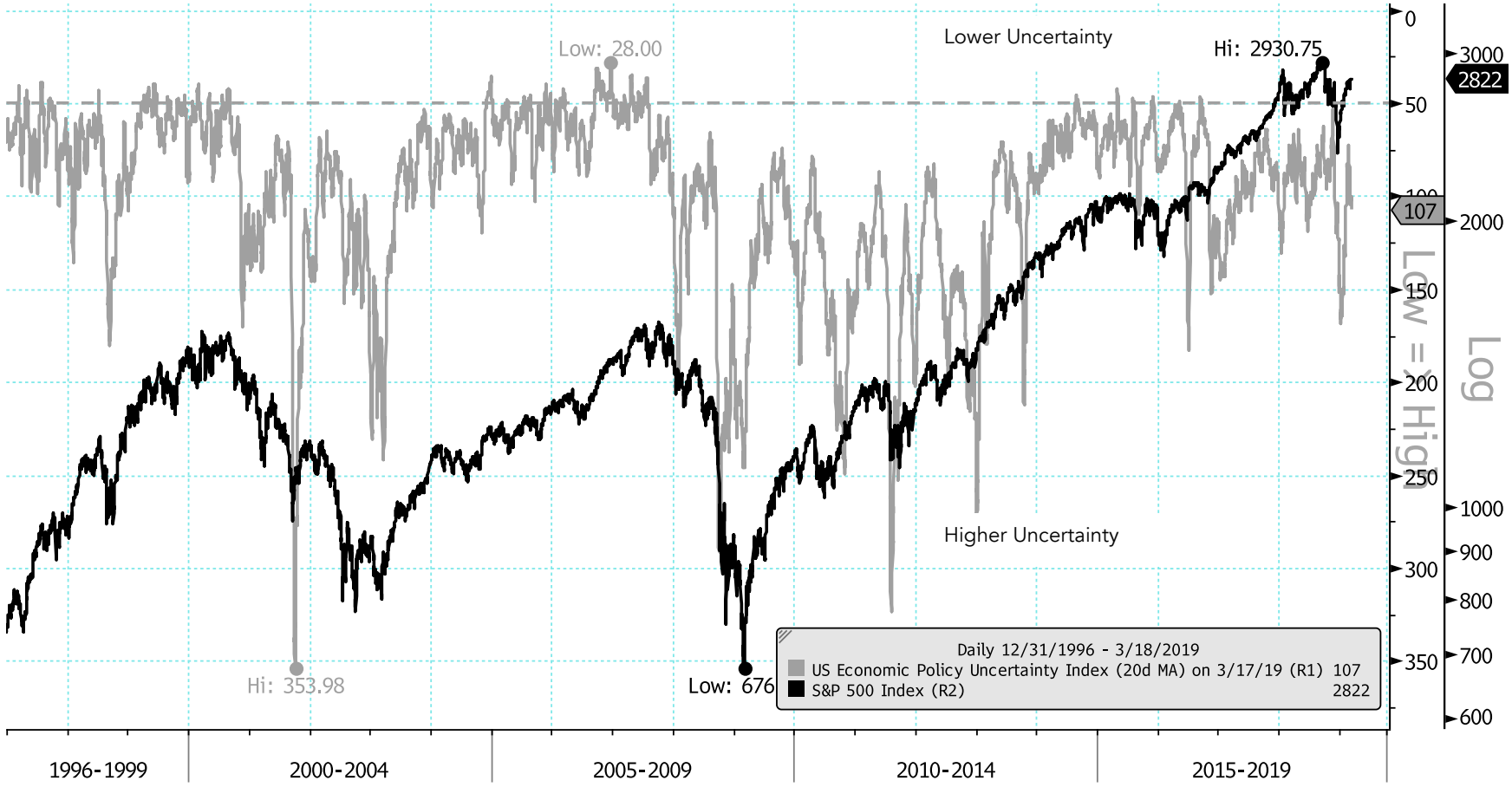


Source: Bloomberg, © Merk Investments LLC

*Analysis: Correlation and volatility are now near the middle of the long term range, after having moved higher over the past year. In my view this chart should be looked at from a contrarian perspective, and currently suggests a neutral outlook medium-term. Framework: S&P 500 subsequent medium-term returns are likely to be most attractive when both correlation and volatility are high and have lots of room to decline, for example in 2009. *GICS = Global Industry Classification Standards. The 10 sectors used for this analysis are: Consumer Discretionary, Consumer Staples, Energy, Financials, Health Care, Industrials, Information Technology, Materials, Telecommunication Services, and Utilities. In 2016 Real Estate was added as an 11th GICS Sector, which had been part of the Financials sectors. The S&P 500 stocks are each assigned to a sector. The correlation reading (black line) represents the average of all sector correlations to the S&P 500 (i.e., Correlation between Financials and S&P 500 + Correlation between Energy and S&P 500 etc., divided by 10). The volatility reading (grey line) represents the average the sector volatilities (i.e., Volatility of Financials + Volatility of Energy etc…., divided by 10)*

Uncertainty

U.S. Economic Policy Uncertainty Index and S&P 500

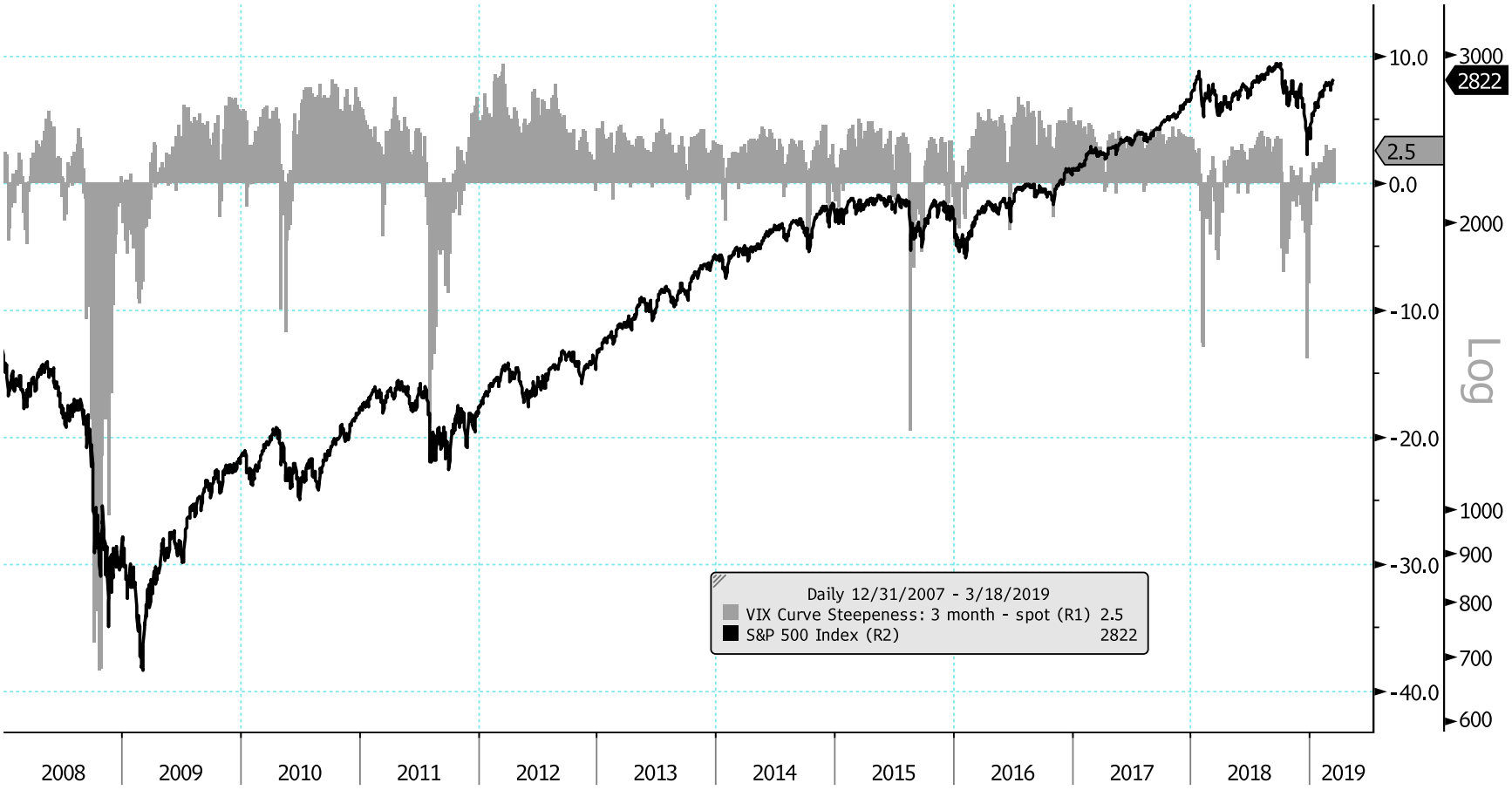


Source: Bloomberg, © Merk Investments LLC

Analysis: There may still be some "wall-of-worry" left to climb before the bull market ends. Uncertainty has decreased slightly since last month's report, but remains somewhat elevated (inverse axis). Counter-intuitively I would argue that uncertainty is generally a positive for the market on a forward looking basis as it gives uncertainty more room to decline going forward. Chart Framework: I'd get incrementally negative on the outlook for the S&P around the 50 level on policy uncertainty.

VIX Curve

(3-month futures implied VIX minus spot VIX) and S&P 500



Source: Bloomberg, © Merk Investments LLC

Analysis: The VIX curve is currently positively sloped, meaning future expected VIX is higher than the current VIX (VIX represents an estimate of the 30 day implied volatility of the S&P 500). In my view when the VIX curve is negative the drawdown phase is still ongoing, when positive it may suggest the correction is over for the time being. Chart Framework: this chart is best used for judging when drawdown periods might be over. If a negatively sloped VIX curve (i.e., grey area below zero) persisted that could be a sign of stress remaining in the market.

S&P 500 Technicals

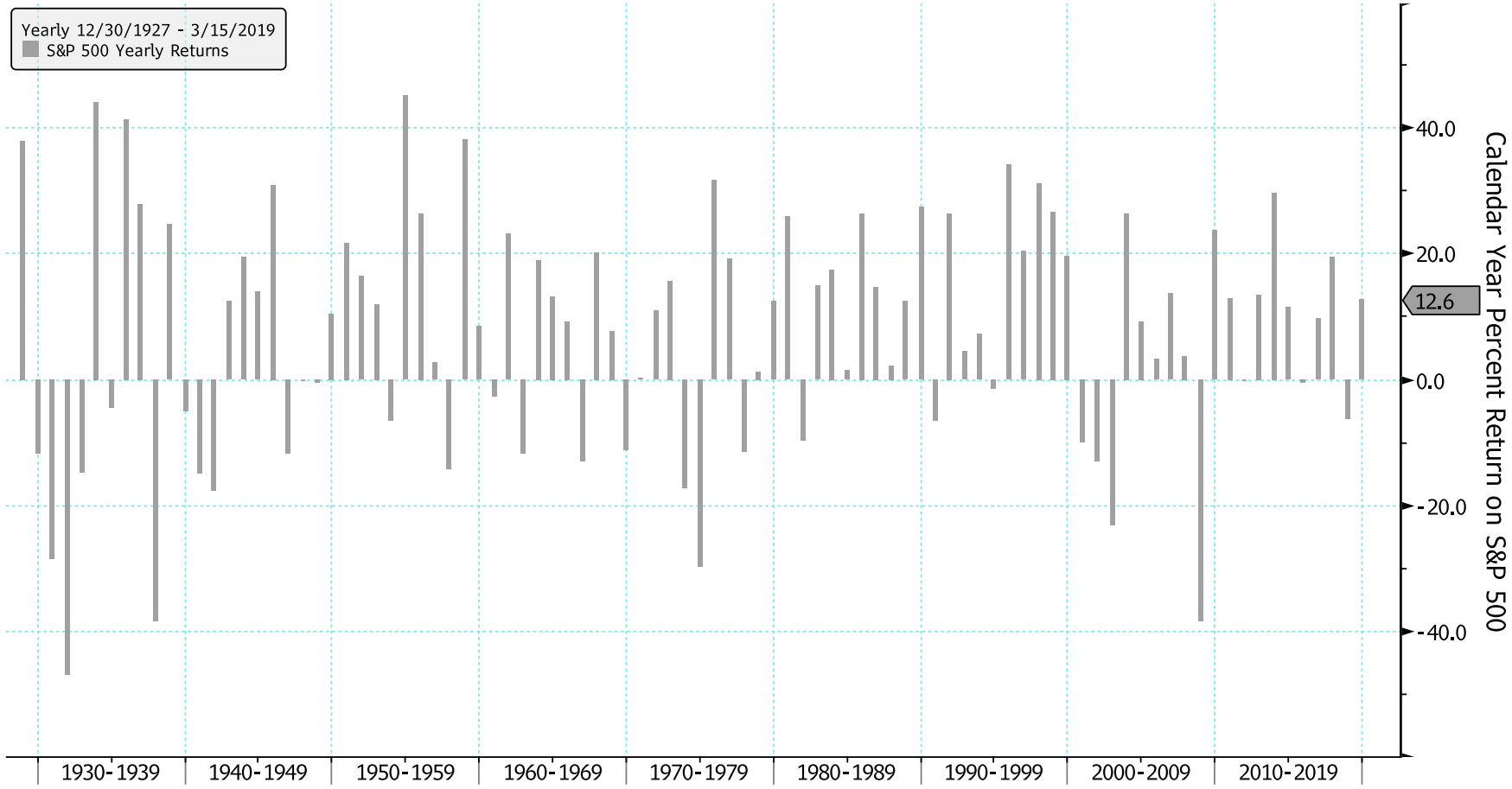
S&P 500 daily open-high-low-close chart with 50-day and 200-day Moving Averages (MA)

Source: Bloomberg, © Merk Investments LLC

Analysis: The 50-day moving average (grey line) remains below the 200-day moving average (black line), but is trending higher. The market has rebounded sharply since the Christmas Eve lows, and has broken above the 200-day moving average (black line) and the multi-month resistance level (red line). My current interpretation of this picture is neutral/negative. Chart Framework: I'd get positive if the S&P 500 appeared to be making higher highs and higher lows and if the 50d MA crossed above the 200d MA.

Calendar Year S&P 500 Returns

1928-to-Present Calendar Year Returns (dividends not included)



Source: Bloomberg, © Merk Investments LLC

Analysis: As of 3/15/2019 the S&P 500 is about +13% year-to-date. Coming into 2019 sell-side forecasts were for a 10% to 20% return this year. From 1928 to 2017 the S&P 500 average annual return was 5.7%, (w/o dividends) but the S&P 500 returned between 0-10% in only 15 of those 90 years (17% of the time); in other words average years are actually rare. 51% of years had returns above 10%, and 32% of years had negative returns. It may be worth noting that the S&P 500 is up over 10% in the majority of years.

Checklist

Page	Chart	Time Horizon	Per Framework Characterization
2	Valuation	Long Term	Negative
3	Earnings	Short/Medium Term	Neutral
4	Business Cycle	Short/Medium Term	Positive
5	Global growth	Short/Medium Term	Negative
6	Financial Conditions	Short/Medium Term	Positive
7	Market Breadth	Medium/Longer Term	Positive
8	Market Sentiment	Short/Medium Term	Neutral
9	Margin Debt	Medium/Longer Term	Neutral/Positive
11	Correlations/Volatility	Medium/Longer Term	Neutral
12	Uncertainty	Medium/Longer Term	Positive
13	VIX Curve	Short Term	Positive
14	S&P 500 50d v 200d MA	Medium Term	Neutral/Negative
		Time Horizon	Overall Characterization
		Short Term (<6 months)	Neutral/Positive with high uncertainty
		Medium/Longer Term (6m-5years)	Neutral/Negative with high uncertainty

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Conclusion/Thoughts

The S&P 500 is currently still underwater relative to its prior highs. As of 3/15/2019 the S&P 500 is about 3% below the previous all time high close on 9/20/2018. The market has recently rebounded substantially from being down 19.8% from the the September high, which was at the close on Christmas Eve. My base case scenario remains that we are in the midst of normal correction in an ongoing bull market and that the S&P 500 will recover to make new all time highs before the next bear market.

My biggest concern remains weakness in the global economy, specifically China and Germany, where the manufacturing PMIs are below 50. The most likely catalyst for an economic rebound globally would be a resolution (and tariff reduction) on the US/China trade dispute, and any further announcements on meaningful Chinese fiscal stimulus.

The business cycle backdrop and continued earnings growth still generally look positive for the U.S. equity market, although there has been softening on both indicators recently. Also, market breadth looks very positive, with the cumulative advance-decline line making new all time highs, presenting a bullish divergence, and suggesting that the S&P 500 Index might follow on to make new all time highs as well.

What keeps me cautious on the medium to longer-term (roughly 1-5 year) outlook is the high overall equity allocation, which suggests high valuation and low expected returns on average over the next ten years.

-Nick Reece, CFA

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Disclosure

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