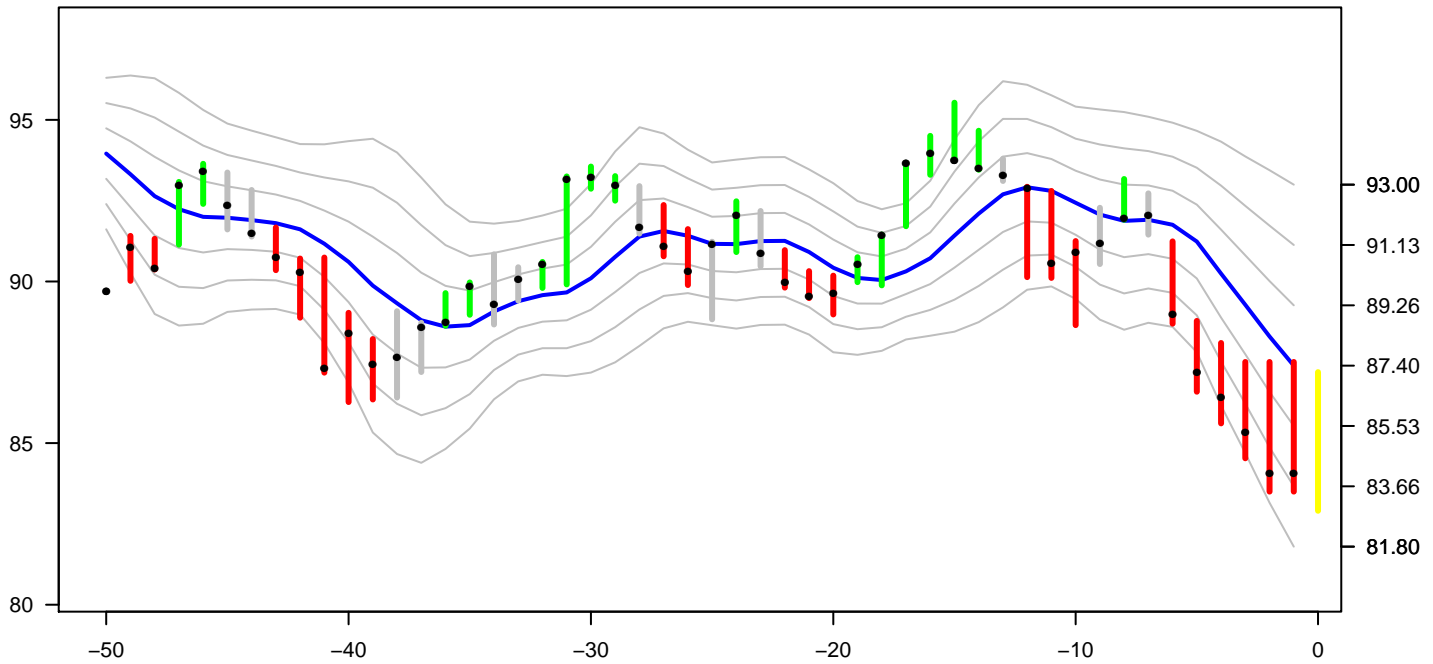
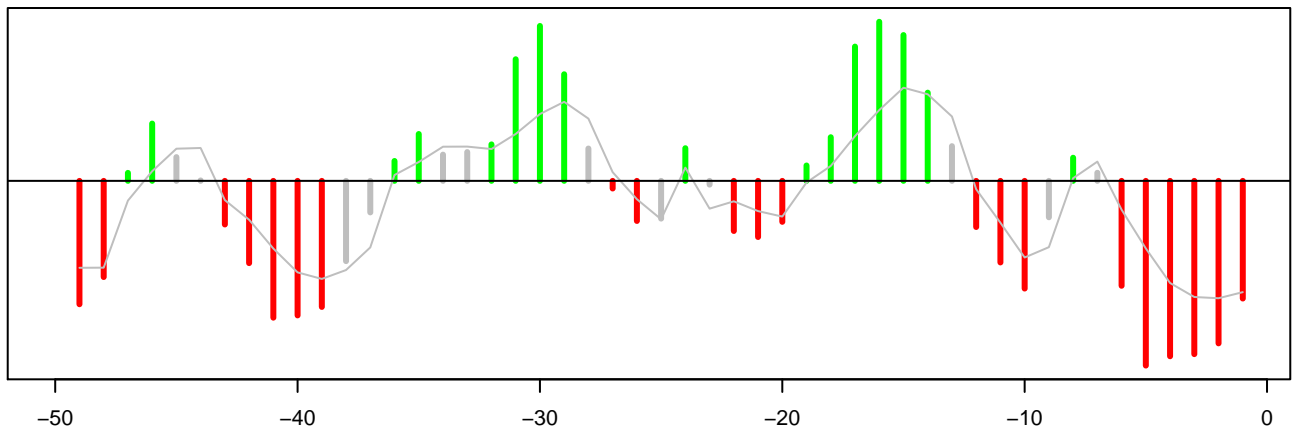


# Metal Price Analytics: USA Sectors Report 24-Dec-2018

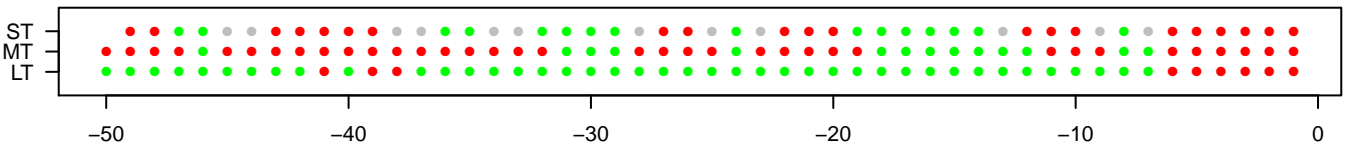
Healthcare (XLV) Price and Factor Model Trend Channel.  
 Last Price History Date: 21 Dec 2018. Expected region for the next day: Yellow Bar.



Short Term Signal Oscillator. Green: Bullish. Red: Bearish. Grey: Neutral, uncertainty in direction.



Short (ST), Medium (MT) and Long Term (LT) Signals



Healthcare (XLV)

The short term signal is red, bearish

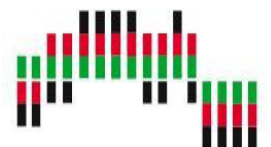
The medium term signal is red, bearish

The long term signal is red, bearish

The trend channel is constructed from a factor model that looks at the dynamic relationship between related markets. Among the factors considered in the model are Currencies, U.S. Bonds, Indexes. These weightings can vary through time and are recalculated daily using lasso and ridge regression. The short term signal is obtained from the Signal Oscillator which is calculated using an algorithm on the price movement around the Factor Trend Channel. Signals are also given for the medium and long term trend. A short, medium and long term signal alert is given warning of a possible trend change. A channel alert is given warning that prices may move above or below the trend channel.

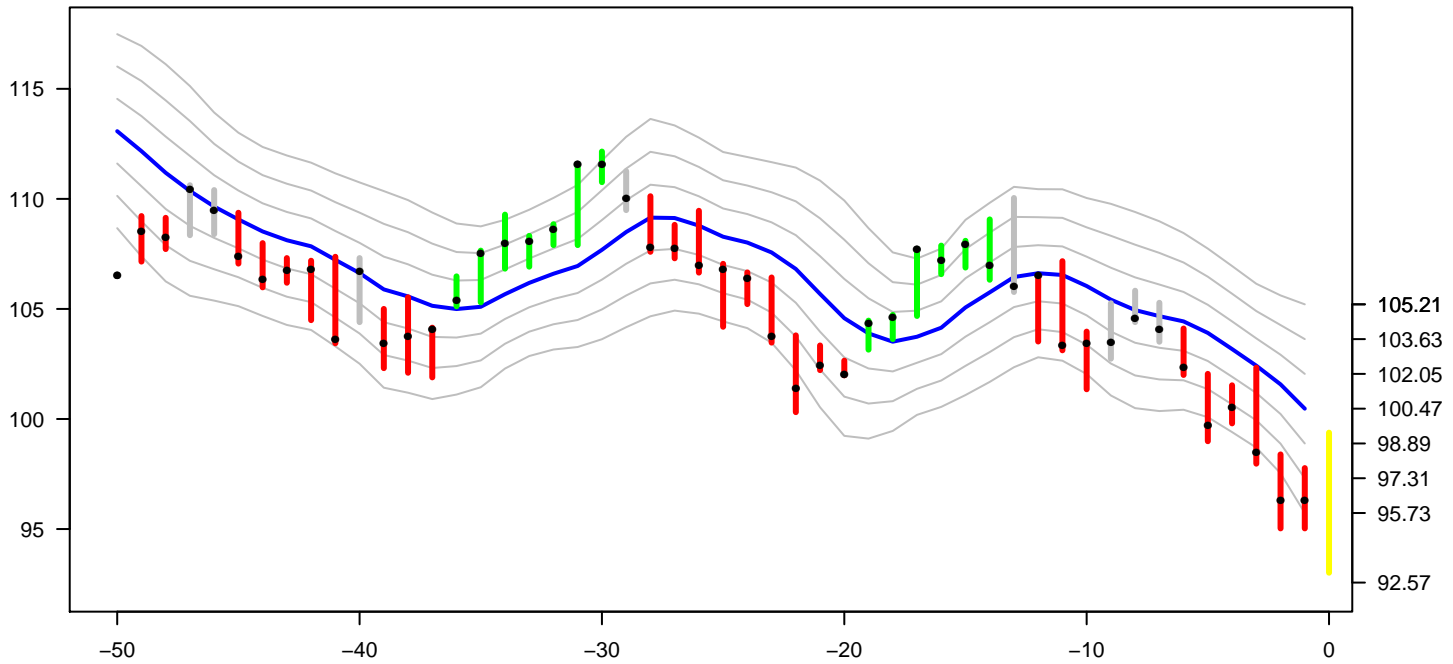
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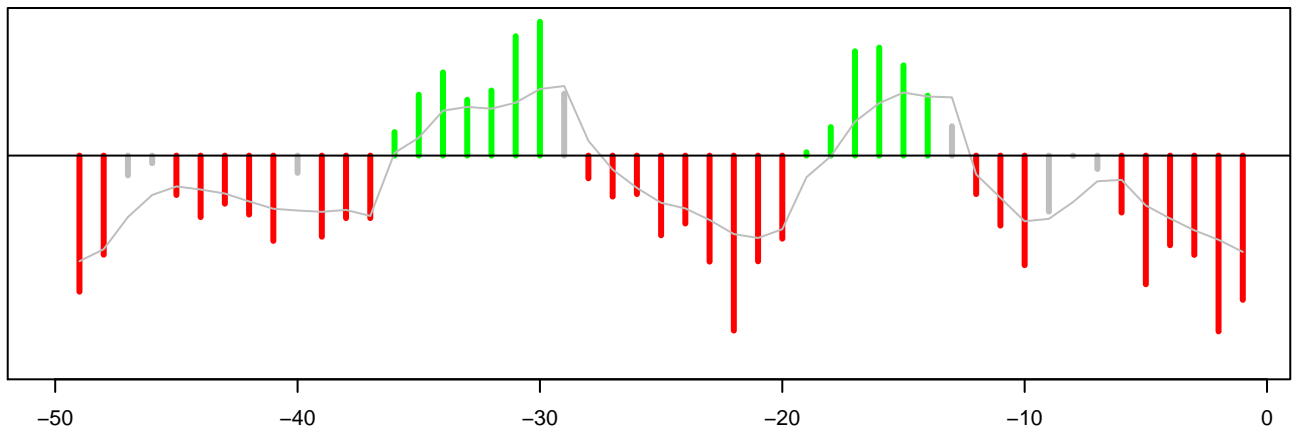


# Metal Price Analytics: USA Sectors Report 24-Dec-2018

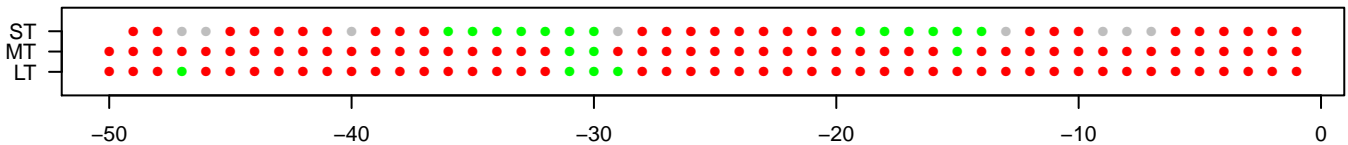
Consumer Discretionary (XLY) Price and Factor Model Trend Channel.  
 Last Price History Date: 21 Dec 2018. Expected region for the next day: Yellow Bar.



Short Term Signal Oscillator. Green: Bullish. Red: Bearish. Grey: Neutral, uncertainty in direction.



Short (ST), Medium (MT) and Long Term (LT) Signals



Consumer Discretionary (XLY). Channel Alert: The price may move below the lower channel.  
 The short term signal is red, bearish  
 The medium term signal is red, bearish  
 The long term signal is red, bearish

The trend channel is constructed from a factor model that looks at the dynamic relationship between related markets. Among the factors considered in the model are Currencies, U.S. Bonds, Indexes. These weightings can vary through time and are recalculated daily using lasso and ridge regression. The short term signal is obtained from the Signal Oscillator which is calculated using an algorithm on the price movement around the Factor Trend Channel. Signals are also given for the medium and long term trend. A short, medium and long term signal alert is given warning of a possible trend change. A channel alert is given warning that prices may move above or below the trend channel.

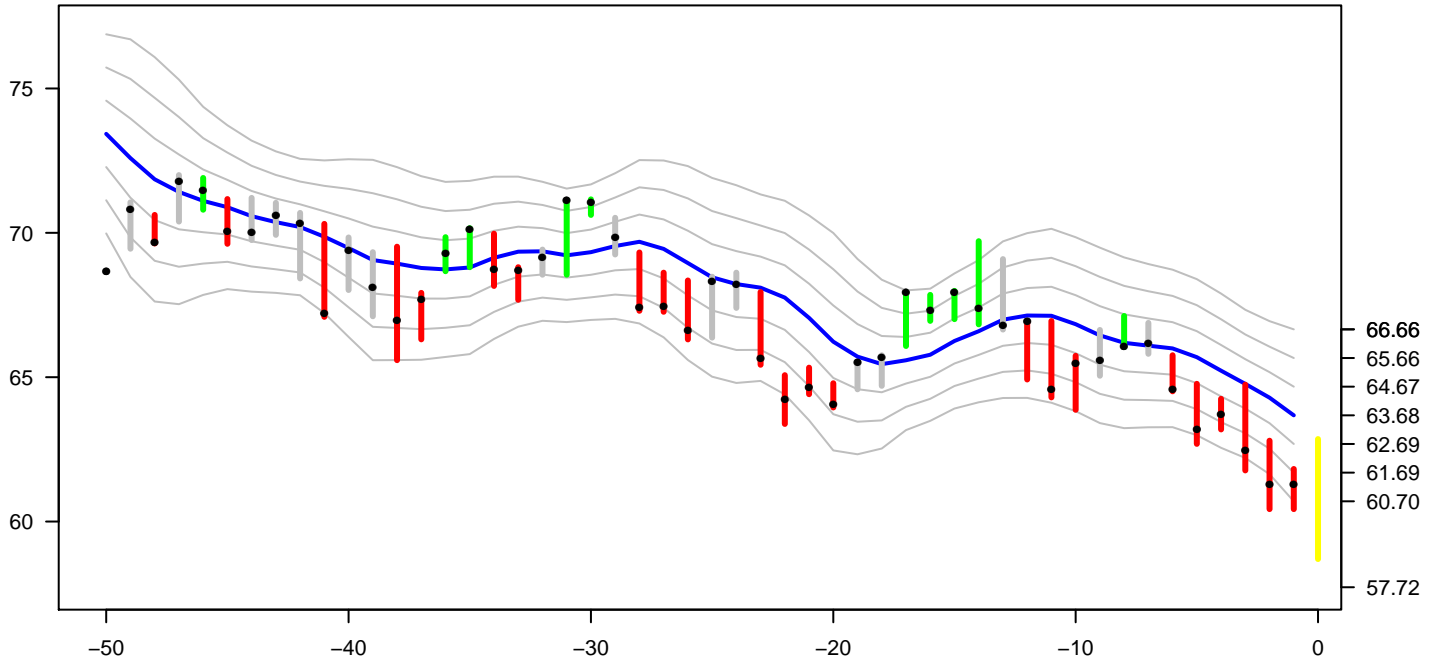
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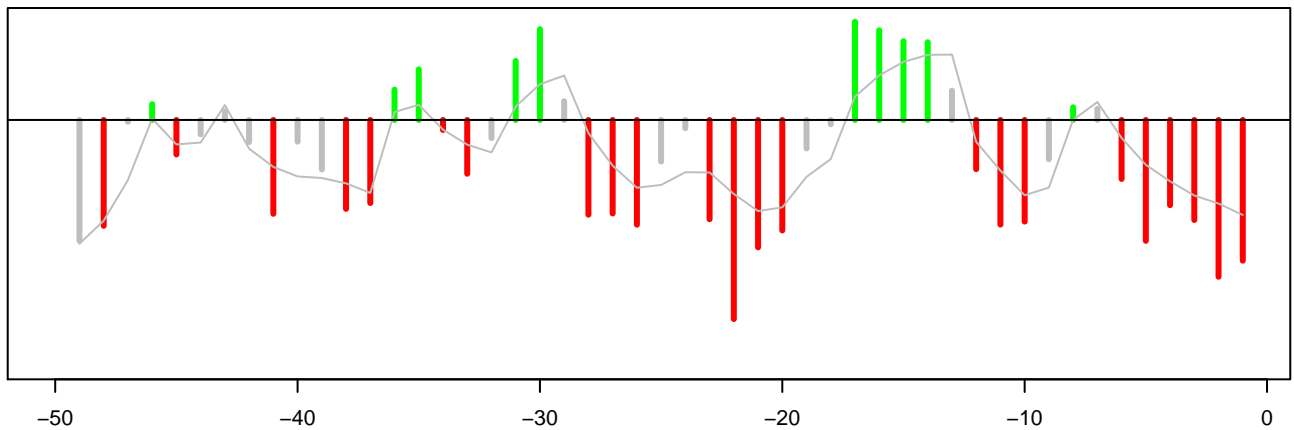


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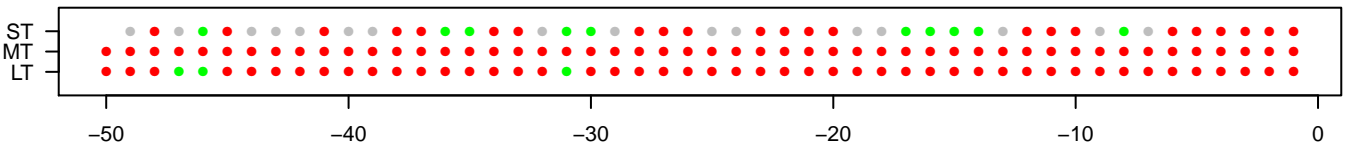
Technology (XLK) Price and Factor Model Trend Channel.  
 Last Price History Date: 21 Dec 2018. Expected region for the next day: Yellow Bar.



Short Term Signal Oscillator. Green: Bullish. Red: Bearish. Grey: Neutral, uncertainty in direction.



Short (ST), Medium (MT) and Long Term (LT) Signals

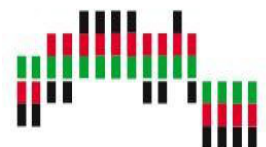


Technology (XLK). Channel Alert: The price may move below the lower channel.  
 The short term signal is red, bearish  
 The medium term signal is red, bearish  
 The long term signal is red, bearish

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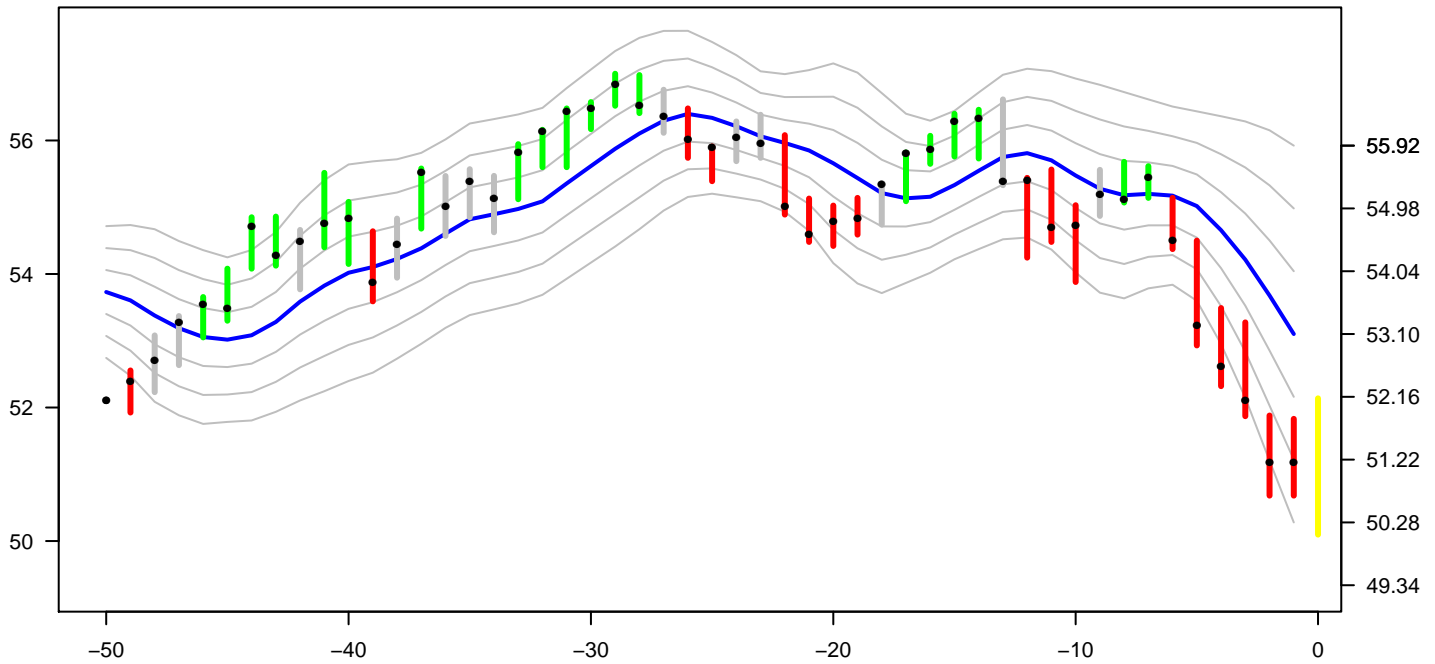
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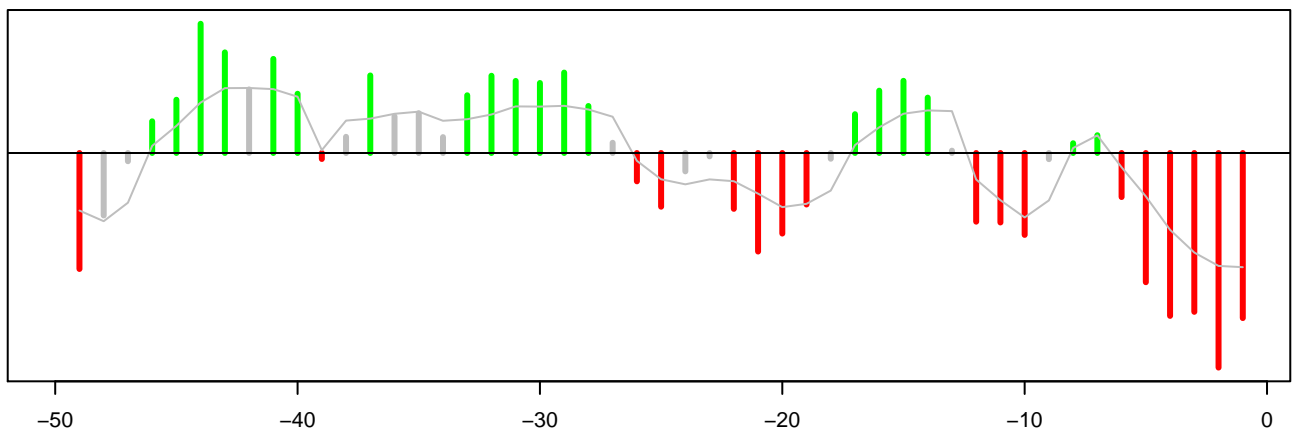


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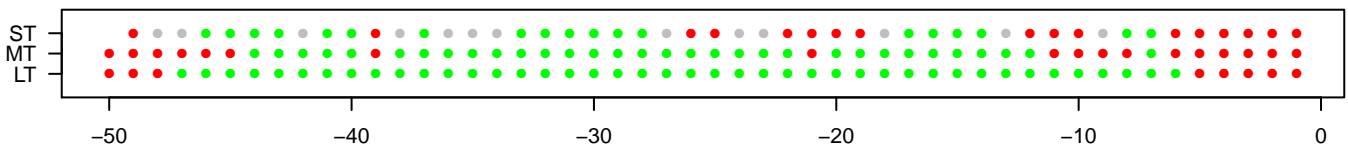
Consumer Staples (XLP) Price and Factor Model Trend Channel.  
 Last Price History Date: 21 Dec 2018. Expected region for the next day: Yellow Bar.



Short Term Signal Oscillator. Green: Bullish. Red: Bearish. Grey: Neutral, uncertainty in direction.



Short (ST), Medium (MT) and Long Term (LT) Signals

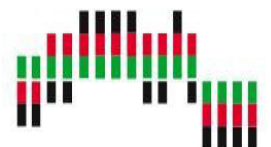


Consumer Staples (XLP). Channel Alert: The price may move below the lower channel.  
 The short term signal is red, bearish  
 The medium term signal is red, bearish  
 The long term signal is red, bearish

The trend channel is constructed from a factor model that looks at the dynamic relationship between related markets. Among the factors considered in the model are Currencies, U.S. Bonds, Indexes. These weightings can vary through time and are recalculated daily using lasso and ridge regression. The short term signal is obtained from the Signal Oscillator which is calculated using an algorithm on the price movement around the Factor Trend Channel. Signals are also given for the medium and long term trend. A short, medium and long term signal alert is given warning of a possible trend change. A channel alert is given warning that prices may move above or below the trend channel.

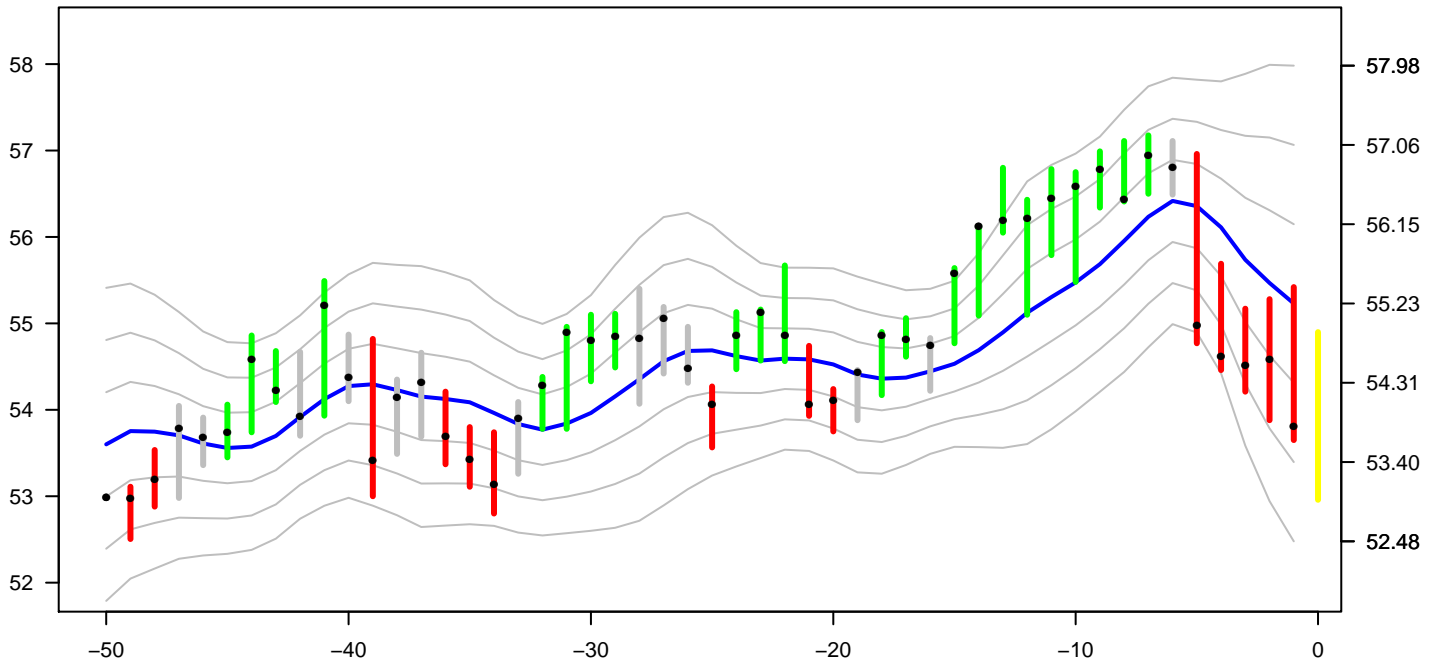
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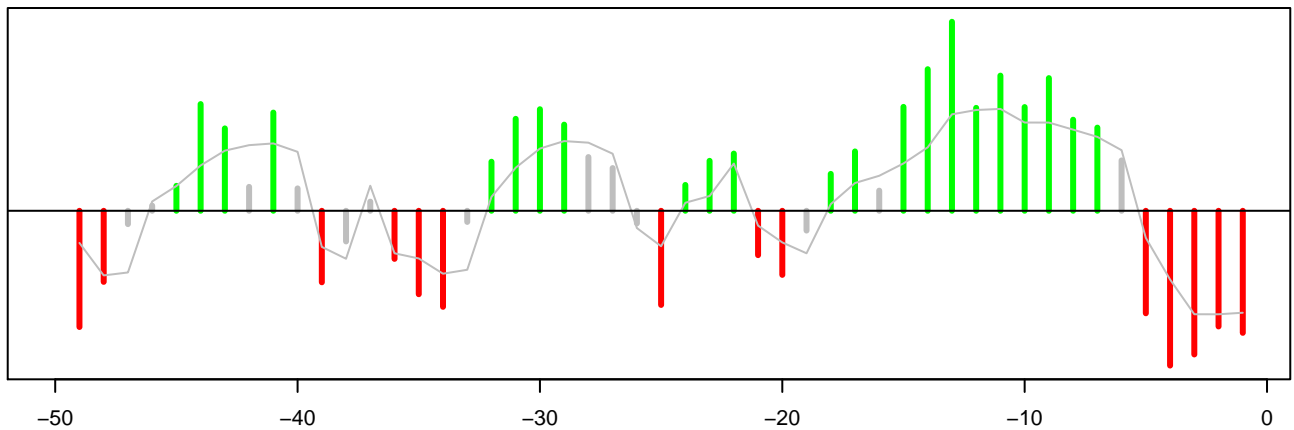


# Metal Price Analytics: USA Sectors Report 24-Dec-2018

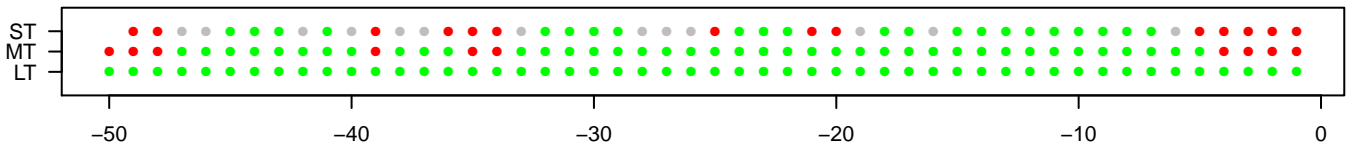
Utilities (XLU) Price and Factor Model Trend Channel.  
 Last Price History Date: 21 Dec 2018. Expected region for the next day: Yellow Bar.



Short Term Signal Oscillator. Green: Bullish. Red: Bearish. Grey: Neutral, uncertainty in direction.



Short (ST), Medium (MT) and Long Term (LT) Signals



## Utilities (XLU)

The short term signal is red, bearish

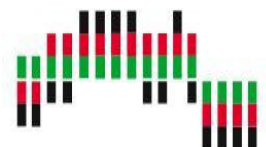
The medium term signal is red, bearish

The long term signal is green, bullish.

The trend channel is constructed from a factor model that looks at the dynamic relationship between related markets. Among the factors considered in the model are Currencies, U.S. Bonds, Indexes. These weightings can vary through time and are recalculated daily using lasso and ridge regression. The short term signal is obtained from the Signal Oscillator which is calculated using an algorithm on the price movement around the Factor Trend Channel. Signals are also given for the medium and long term trend. A short, medium and long term signal alert is given warning of a possible trend change. A channel alert is given warning that prices may move above or below the trend channel.

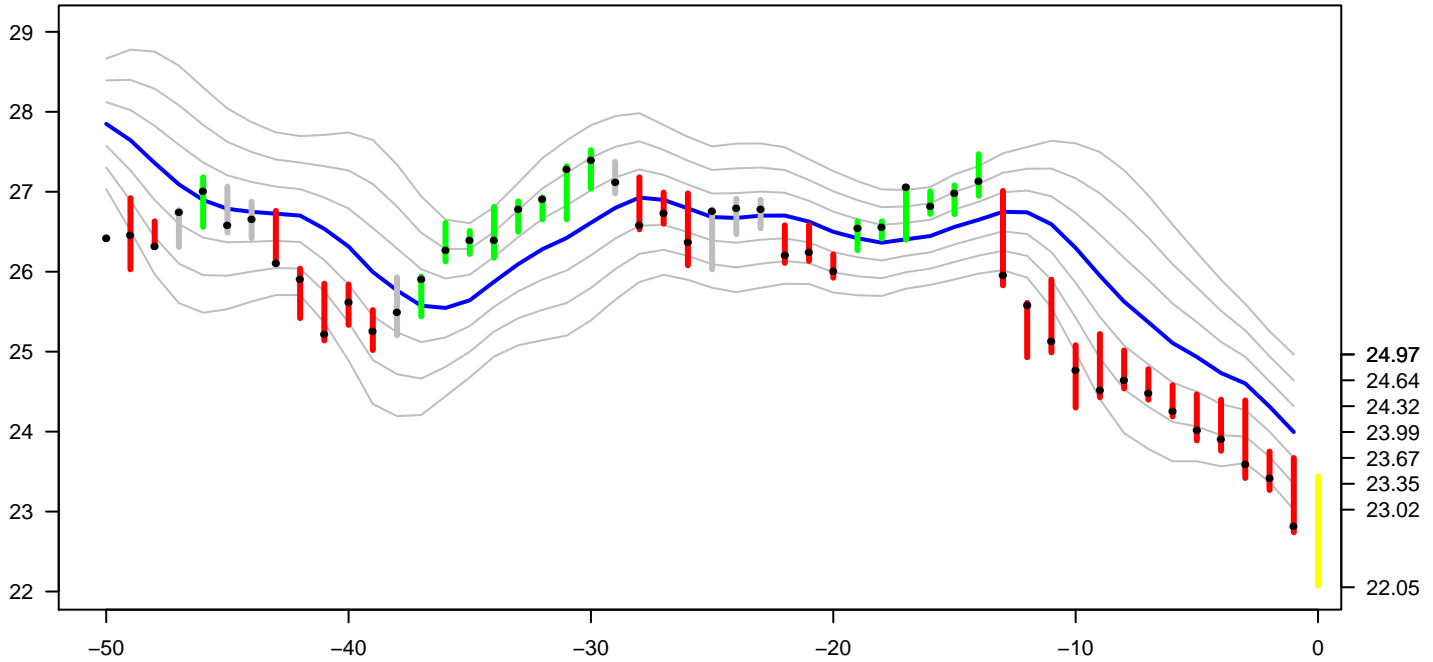
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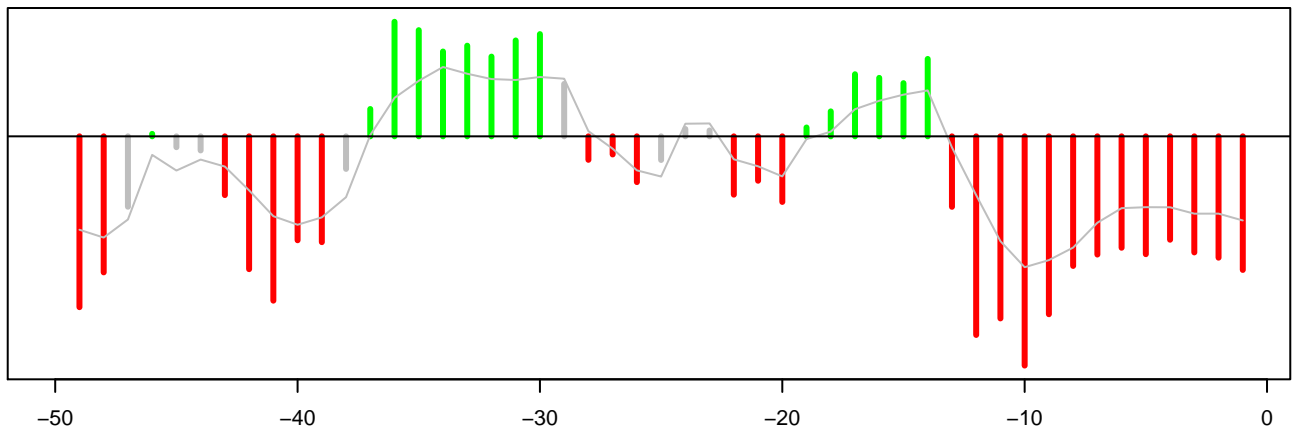


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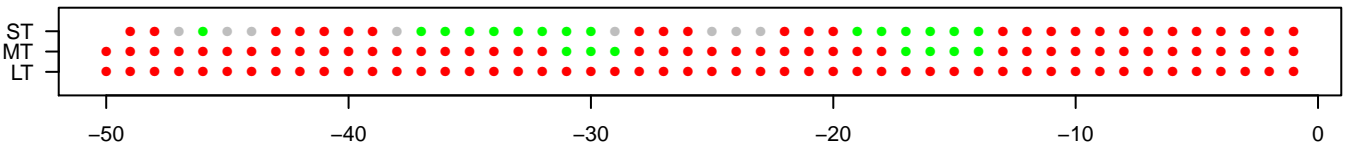
Financial Services (XLF) Price and Factor Model Trend Channel.  
 Last Price History Date: 21 Dec 2018. Expected region for the next day: Yellow Bar.



Short Term Signal Oscillator. Green: Bullish. Red: Bearish. Grey: Neutral, uncertainty in direction.



Short (ST), Medium (MT) and Long Term (LT) Signals

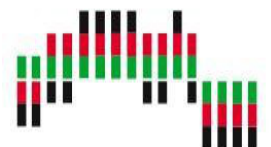


Financial Services (XLF). Channel Alert: The price may move below the lower channel.  
 The short term signal is red, bearish  
 The medium term signal is red, bearish  
 The long term signal is red, bearish

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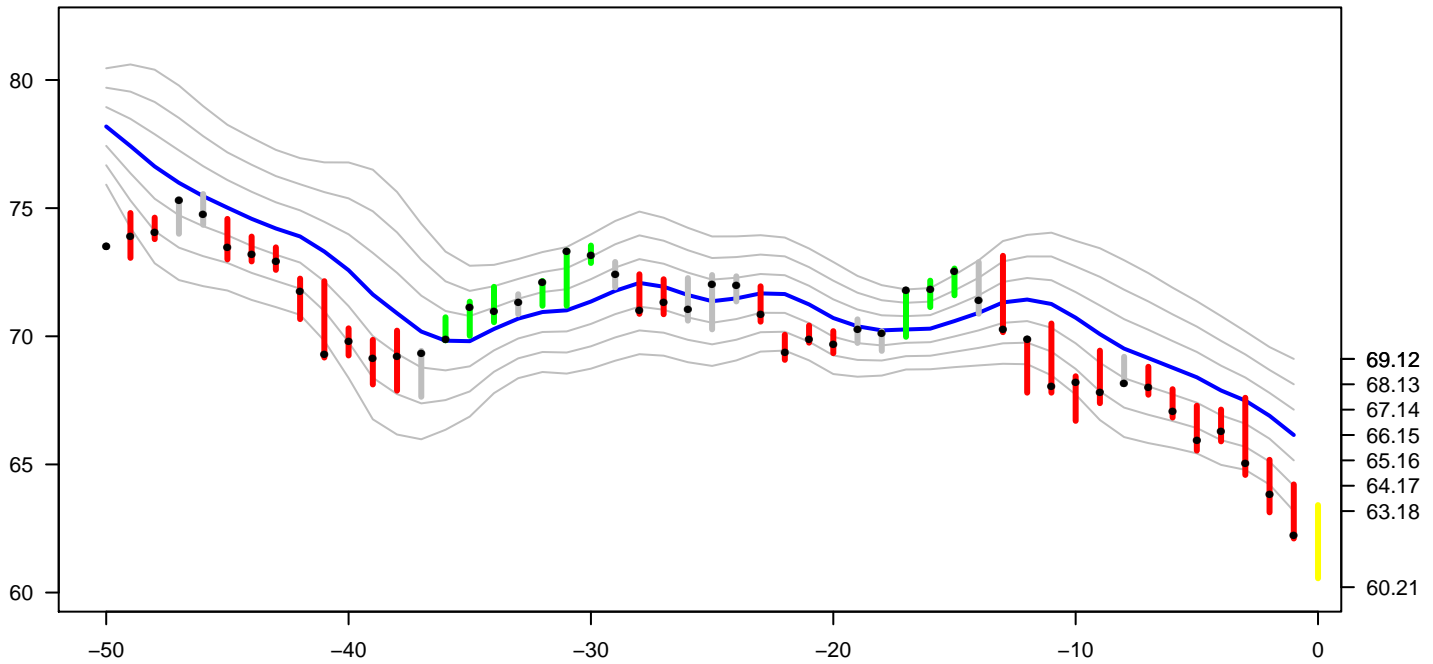
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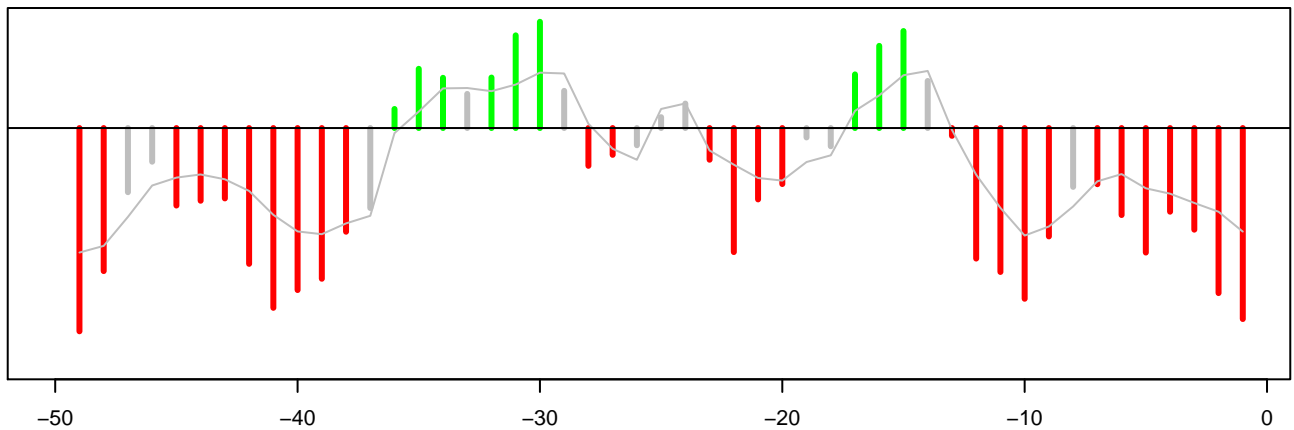


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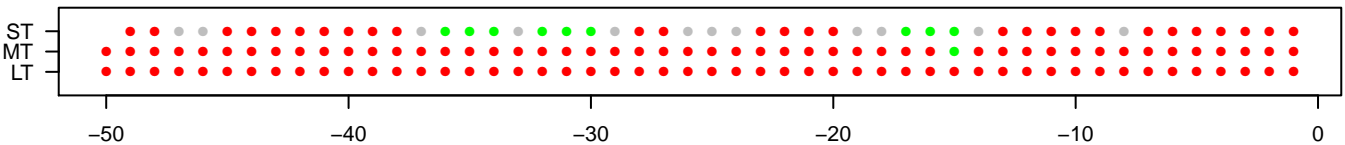
Industrial (XLI) Price and Factor Model Trend Channel.  
 Last Price History Date: 21 Dec 2018. Expected region for the next day: Yellow Bar.



Short Term Signal Oscillator. Green: Bullish. Red: Bearish. Grey: Neutral, uncertainty in direction.



Short (ST), Medium (MT) and Long Term (LT) Signals



Industrial (XLI). Channel Alert: The price may move below the lower channel.  
 The short term signal is red, bearish  
 The medium term signal is red, bearish  
 The long term signal is red, bearish

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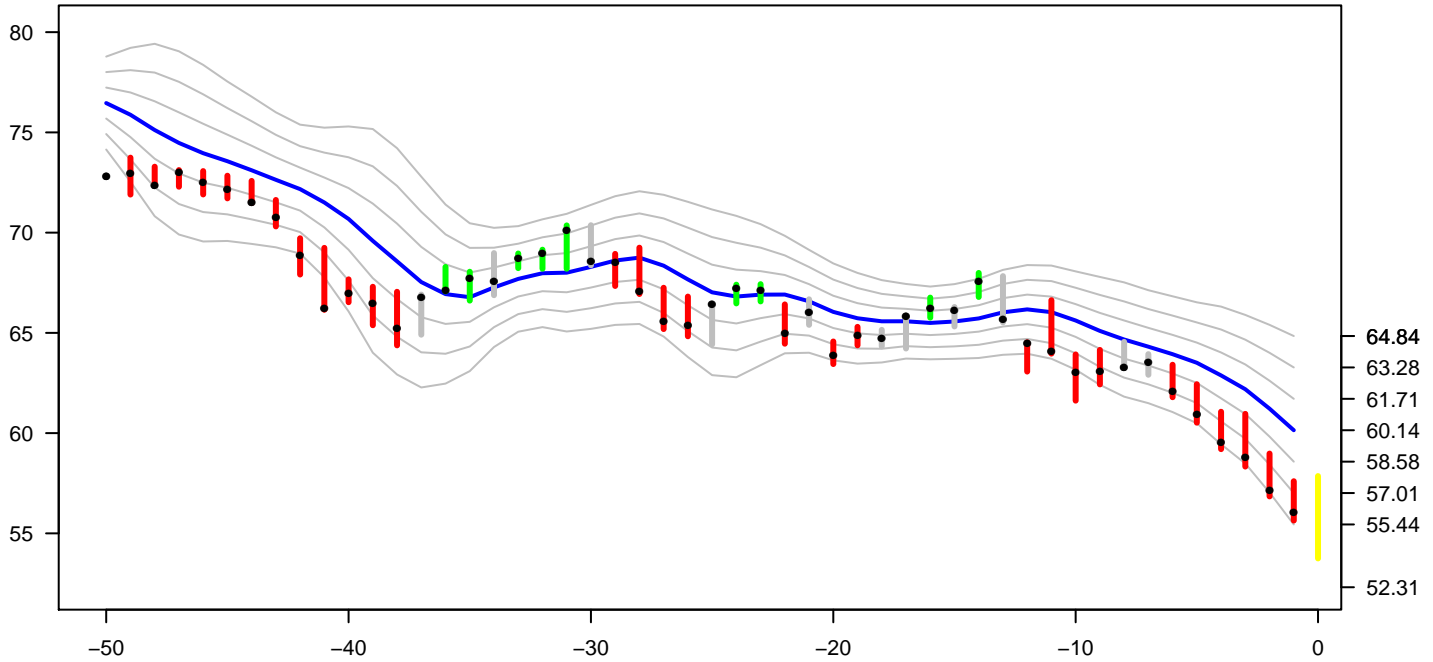
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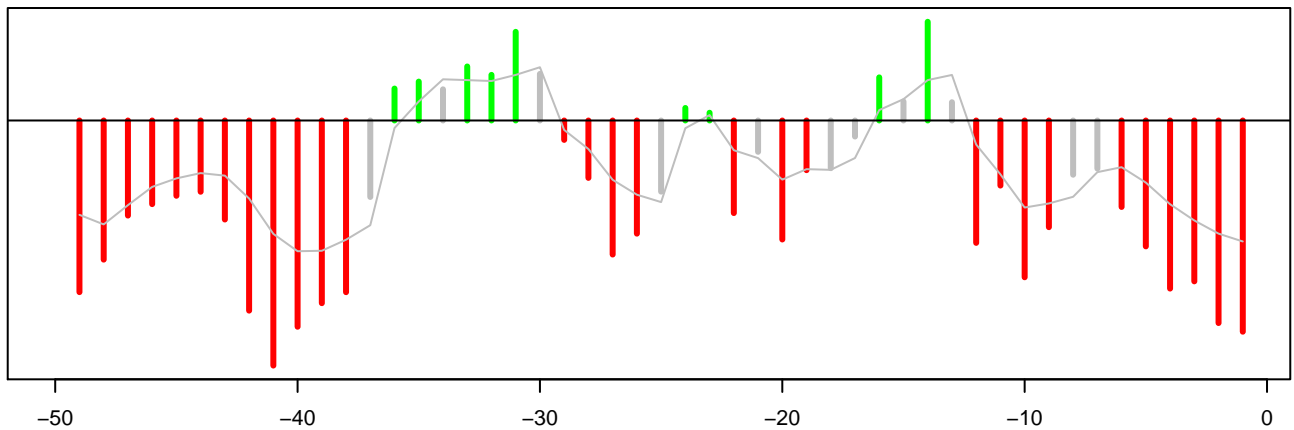


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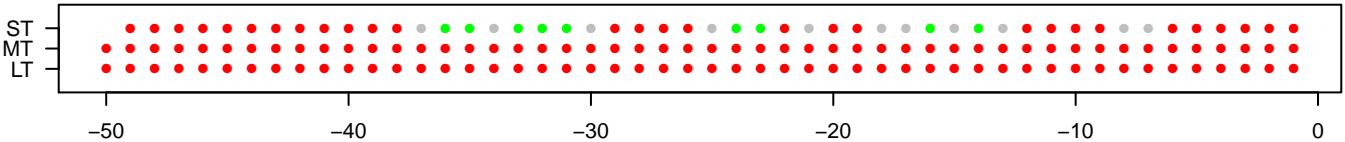
Energy (XLE) Price and Factor Model Trend Channel.  
 Last Price History Date: 21 Dec 2018. Expected region for the next day: Yellow Bar.



Short Term Signal Oscillator. Green: Bullish. Red: Bearish. Grey: Neutral, uncertainty in direction.



Short (ST), Medium (MT) and Long Term (LT) Signals

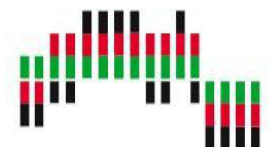


Energy (XLE). Channel Alert: The price may move below the lower channel.  
 The short term signal is red, bearish  
 The medium term signal is red, bearish  
 The long term signal is red, bearish

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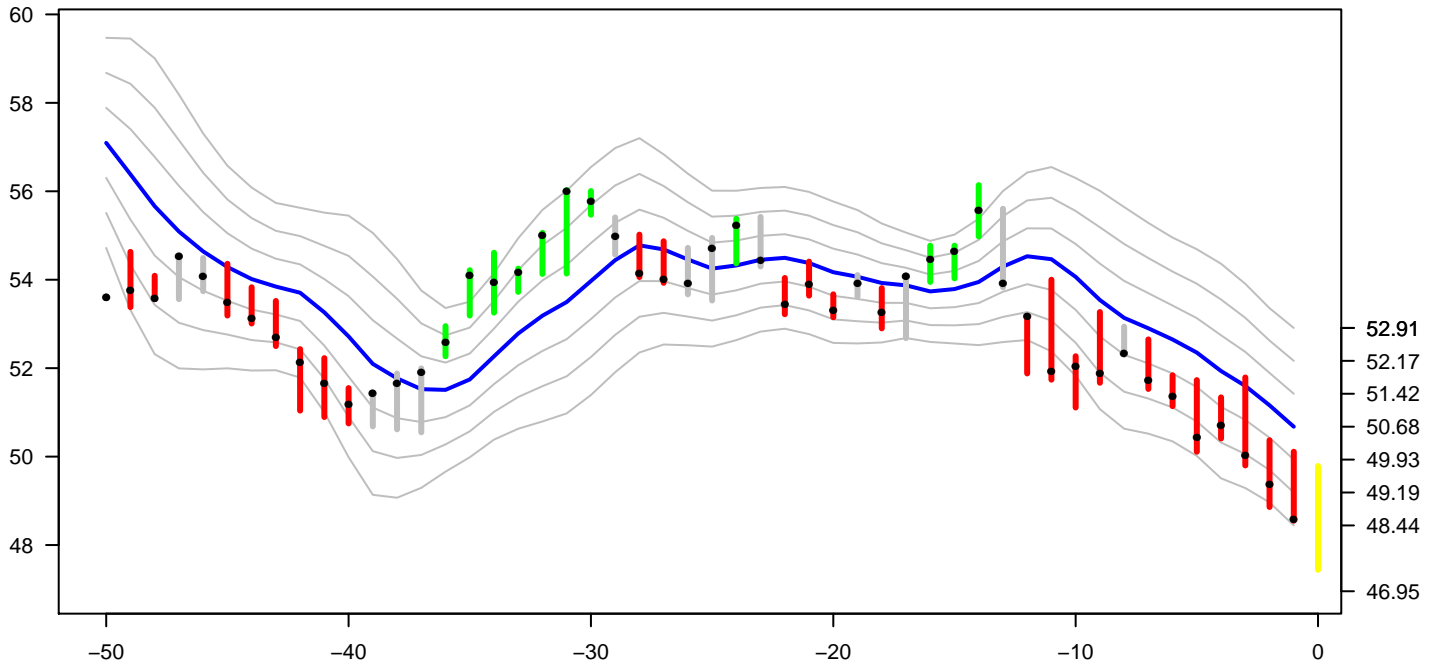
*Metal Price Analytics Ltd*



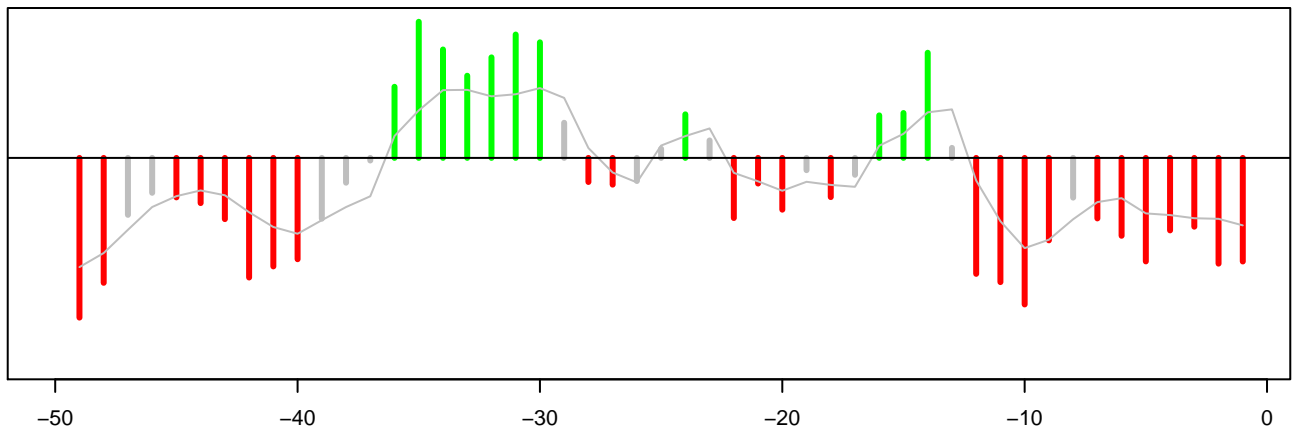


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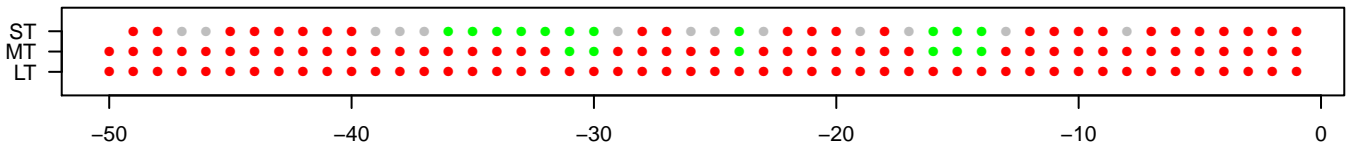
Basic Materials (XLB) Price and Factor Model Trend Channel.  
 Last Price History Date: 21 Dec 2018. Expected region for the next day: Yellow Bar.



Short Term Signal Oscillator. Green: Bullish. Red: Bearish. Grey: Neutral, uncertainty in direction.



Short (ST), Medium (MT) and Long Term (LT) Signals



Basic Materials (XLB). Channel Alert: The price may move below the lower channel.  
 The short term signal is red, bearish  
 The medium term signal is red, bearish  
 The long term signal is red, bearish

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