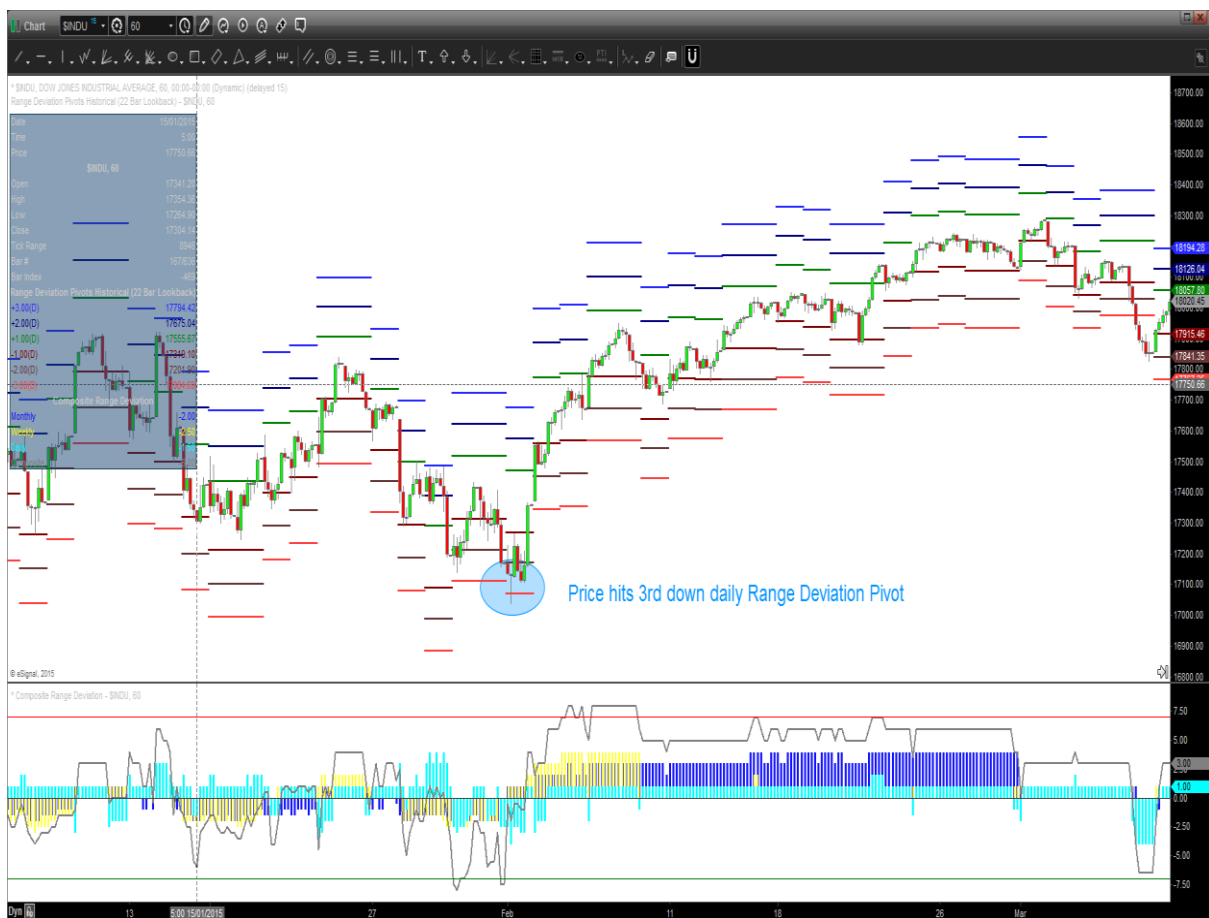
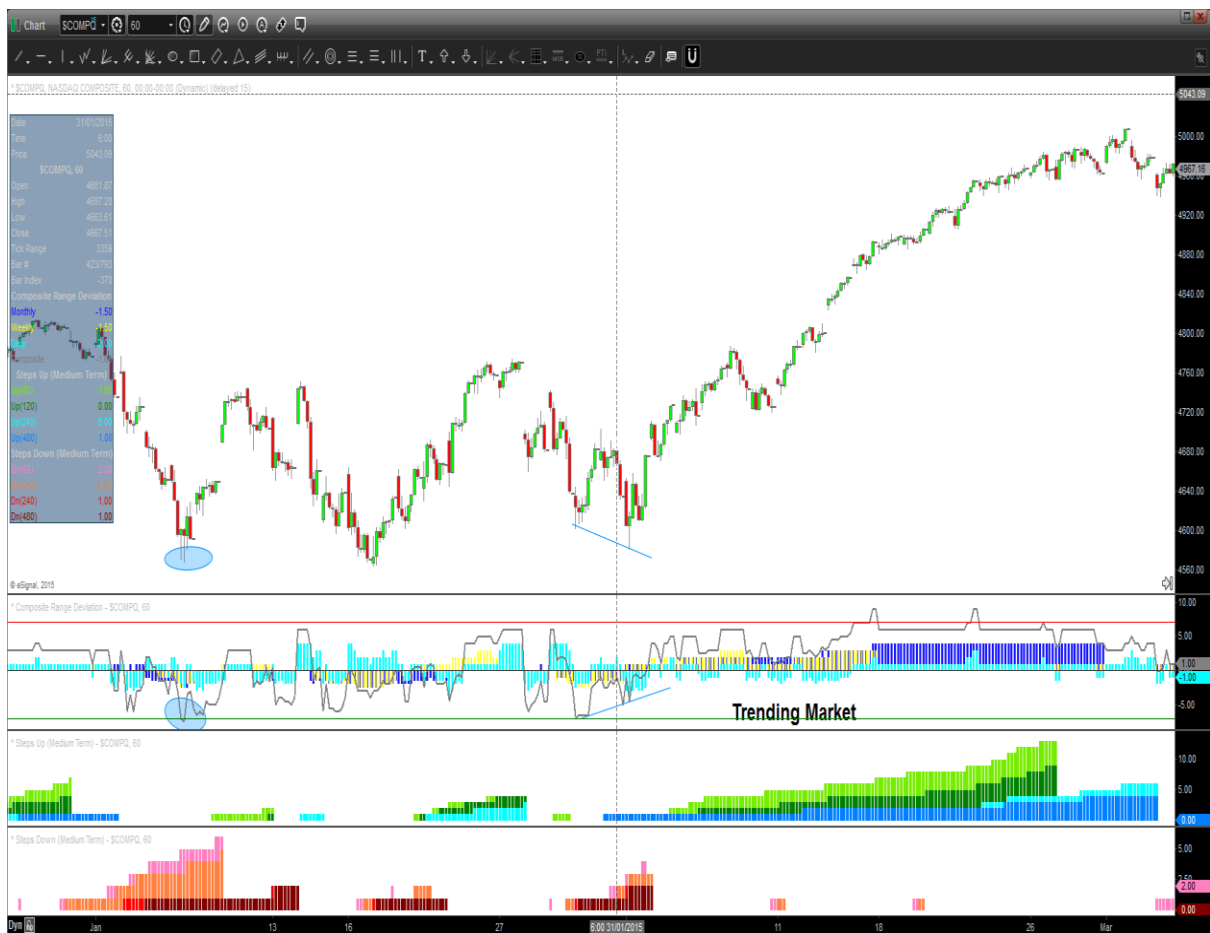


## Composite Range Deviation Indicator

Composite Range Deviation adds the concept of time to 4th Dimension's Range Deviation Pivots. The study simultaneously tracks where price is in relation to Range Deviation Pivots over three higher time frames – daily, weekly and monthly. In so doing, the trader can visualise how range deviation is evolving through time and across time frames. Finally, the study creates a variable which is a derivative of all three time frames grading price in relation to range for each time frame at each point in time. The study is for use on Intraday charts only.

The chart below is a 60 minute chart of Dow Jones Industrial Average with Daily Range Deviation pivots and Composite Time Range studies added. The chart is initially ranging as the composite study oscillates but never reaches extreme overbought or oversold levels. A final flush to the downside shows extremes hit on the Composite Time study and at the same time price hitting daily 3rd down Range Deviation Pivot. Further confirmation to the end of the trend could be sought using other 4<sup>th</sup> Dimension indicators including Volatility Time Bands and Time Steps. From the low in the middle of the chart the market accelerates to the opposite extreme of composite range indicating a possible fresh trend reversal. From there the market trends with virtually no negative scores on the Composite Range Deviation indicator. The first clue the trend is over is the monthly range deviation score (dark blue) retreats before a spike lower across all time frames indicating the uptrend is finished.





The chart above is a 60 minute chart of the NASDAQ with Composite Range Deviation indicator and Time Steps Study. The market initially ends a downtrend with a spike low in Composite Range as marked in combination with high negative medium time frame step counts. From there the market goes into sideways with no dominant accumulation of time frames in positive or negative steps nor extreme Composite Range Deviation spike to indicate the end of sideways or beginning of fresh trend. Eventually divergence appears between price and Composite Range Deviation as indicated by trend lines. This is quickly followed by multiple positive medium term time frames accumulating at the same time as weekly (yellow) and monthly (dark blue) range deviation Composite increases. Note once again that an uptrend is characterised by a lack of negative scores on the Composite indicator.

Within Setup the defaults below are recommended.

The image shows a software settings dialog box titled "Composite Range Deviation Stud...0.efs - \$INDU, 60 (7, #ff0000, 1, Solid, 0, #4040...olid)". The dialog has a dark grey background and contains the following settings:

- Title: Composite Range Deviation
- Format: Auto
- Title Color: [Grey color swatch]
- Show Symbol Name in the Study Title
- Inputs section:
  - Overbought Level: 7
  - Color: [Red color swatch]
  - Thickness (1-10): 1
  - Line Type: Solid
  - Midline Level: 0
  - Color: [Grey color swatch]
  - Thickness (1-10): 1
  - Line Type: Solid
  - Oversold Level: -7
  - Color: [Green color swatch]
  - Thickness (1-10): 1
  - Line Type: Solid
  - Daily Plot Color: [Cyan color swatch]
  - Thickness (1-10): 3
  - Line Type: Solid
  - Weekly Plot Color: [Yellow color swatch]
  - Thickness (1-10): 2
  - Line Type: Solid
  - Monthly Plot Color: [Blue color swatch]
  - Thickness (1-10): 3
  - Line Type: Solid
  - Composite Plot Color: [Grey color swatch]
- Defaults... [Dropdown arrow]
- the Template [Button]
- Close [Button]