

**TREND OUTLOOK LIBRARY****Introduction:**

Many trading techniques use the subject terms 'Up Trend' and 'Down Trend.' While all traders can look at a chart and point out these trends, not all can describe these trends in a manner that can be interpreted by a computer.

The Trend Library is designed with 10 ways to determine trends. These 10 ways to determine trends can be used to develop systems, or they can serve as examples where the trader can develop his/her own code.

Since each of the 10 contains both the long and short trends, there are 20 functions in this library. They can be added separately to a chart (or in pairs using a study), or incorporated in criteria and strategy rules. Additionally, there is a template that contains all 10 pairs.

While the Trend Library is password protected, this is only to protect the trader from deleting the functions that are included in the library. All of the formulas are allowed to be viewed so the trader can learn from them.

**Benefits:**

Using the trends in this library allows the user to focus on perfecting their ideas while not getting bogged down in the details of defining trends in a manner that a computer can understand.

By offering ten trends, the user has the option to choose any one, or several of them, in order to define trends in homemade strategies.

## Included in this Library:

### Functions

- Trend CCI Long
- Trend CCI Short
- Trend Close Relationship Long
- Trend Close Relationship Short
- Trend High Low Long
- Trend High Low Short
- Trend Longs
- Trend MA Long
- Trend MA Short
- Trend MACD Long
- Trend MACD Short
- Trend Momentum Long
- Trend Momentum Short
- Trend Parabolic Long
- Trend Parabolic Short
- Trend Regression Slope Long
- Trend Regression Slope Short
- Trend Shorts
- Trend SlopeOfMA Long
- Trend SlopeOfMA Short
- Trend Volatility Long
- Trend Volatility Short

### Studies

- Trend CCI
- Trend Close Relationship
- Trend High Low
- Trend MA
- Trend MACD
- Trend Momentum
- Trend Parabolic
- Trend Regression Slope
- Trend SlopeOfMA
- Trend Volatility

### Template

- Trend Outlook Library

## Functions

### Trend CCI Long

Usage: Trend CCI Long (CCI\_Period, Bars In Average)

Parameters:

CCI\_Period – Bar period for the CCI used in the function

Bars In Average – Bars used to calculate the Moving Average in the function

### Tend CCI Short

Usage: Trend CCI Short (CCI\_Period, Bars in Average)

Parameters:

CCI\_Period – Bar period for the CCI used in the function

Bars In Average – Bars used to calculate the Moving Average in the function

### Trend Close Relationship Long

Usage: Trend Close Relationship Long (Offset)

Parameters:

Offset – The number of bars used to determine the trend

### Trend Close Relationship Short

Usage: Trend Close Relationship Short (Offset)

Parameters:

Offset – The number of bars used to determine the trend

### Trend High Low Long

Usage: Trend High Low Long (Bars used in average)

Parameters:

Bars In Average – Bars used to calculate the Moving Average in the function

### Trend High Low Short

Usage: Trend High Low Short (Bars used in average)

Parameters:

Bars In Average – Bars used to calculate the Moving Average in the function

### **Trend Longs**

Usage: Trend Longs

Parameters: None

### **Trend MA Long**

Usage: Trend MA Long (Bars)

Parameters:

Bars– Bars used to calculate the Exponential Moving Average in the function

### **Trend MA Short**

Usage: Trend MA Short (Bars)

Parameters:

Bars– Bars used to calculate the Exponential Moving Average in the function

### **Trend MACD Long**

Usage: Trend MACD Long (Expression, Fast period, Slow period, Show Initial Bars)

Parameters:

Expression - Expression used for the MACD Calculation

Fast period - Bars for the fast Exponential Moving Average in the function

Slow period - Bars for the slow Exponential Moving Average in the function

Show Initial Bars – Whether or not to calculate initial bars using 'shorthand' approach

### **Trend MACD Short**

Usage: Trend MACD Short (Expression, Fast period, Slow period, Show Initial Bars)

Parameters:

Expression - Expression used for the MACD Calculation

Fast period - Bars for the fast Exponential Moving Average in the function

Slow period - Bars for the slow Exponential Moving Average in the function

Show Initial Bars – Whether or not to calculate initial bars using 'shorthand' approach

### **Trend Momentum Long**

Usage: Trend Momentum Long (Expression, Num Bars, BaseValue)

Parameters:

- Expression – Expression for the Momentum calculation
- Num Bars – Number of bars used to calculate the Momentum
- BaseValue – Momentum must be greater than the test value

### **Trend Momentum Short**

Usage: Trend Momentum Short (Expression, Num Bars, BaseValue)

Parameters:

- Expression – Expression for the Momentum calculation
- Num Bars – Number of bars used to calculate the Momentum
- BaseValue – Momentum must be less than the test value

### **Trend Parabolic Long**

Usage: Trend Parabolic Long (UpperLower, AF, MaxAF, Bars In Average)

Parameters:

- UpperLower – UpperLower argument for the Parabolic
- AF- AF argument for the Parabolic
- MaxAF – MaxAF argument for the Parabolic
- Bars Used in Average – Bars used to calculate the confirming Moving Averages

### **Trend Parabolic Short**

Usage: Trend Parabolic Short (UpperLower, AF, MaxAF, Bars In Average)

Parameters:

- UpperLower – UpperLower argument for the Parabolic
- AF- AF argument for the Parabolic
- MaxAF – MaxAF argument for the Parabolic
- Bars Used in Average – Bars used to calculate the confirming Moving Averages

### **Trend Regression Slope Long**

Usage: Trend Regression Slope Long (Expression, Bars used for regression, BaseValue)

Parameters:

- Expression – The Expression used as the basis for the slope
- Bars used in regression –How many bars used to calculate the regression
- BaseValue - Regression must be greater than the test value

### **Trend Regression Slope Short**

Usage: Trend Regression Slope Short (Expression, Bars used for regression, BaseValue)

Parameters:

- Expression – The Expression used as the basis for the slope
- Bars used in regression –How many bars used to calculate the regression
- BaseValue - Regression must be less than the test value

### **Trend Shorts**

Usage: Trend Shorts

Parameters: None

### **Trend SlopeOfMA Long**

Usage: Trend SlopeOfMA Long (Bars in Average, Run)

Parameters:

- Bars in Average – The bars used to calculate the Moving Average in the function
- Run – The number of bars used to test the slope

### **Trend SlopeOfMA Short**

Usage: Trend SlopeOfMA Short (Bars in Average, Run):

Parameters:

- Bars in Average – The bars used to calculate the Moving Average in the function
- Run – The number of bars used to test the slope

### **Trend Volatility Long**

Usage: Trend Volatility Long (K, Num Avg Bars)

Parameters:

K – The K argument for the Volatility

Num Avg Bars – The number of bars used for the Volatility

### **Trend Volatility Short**

Usage: Trend Volatility Short (K, Num Avg Bars)

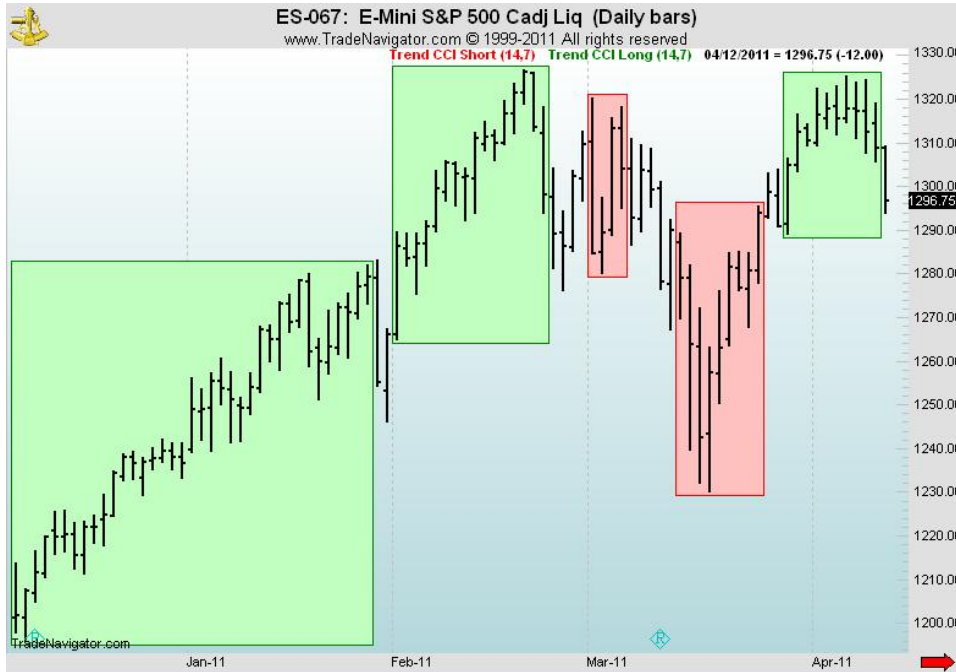
Parameters:

K – The K argument for the Volatility

Num Avg Bars – The number of bars used for the Volatility

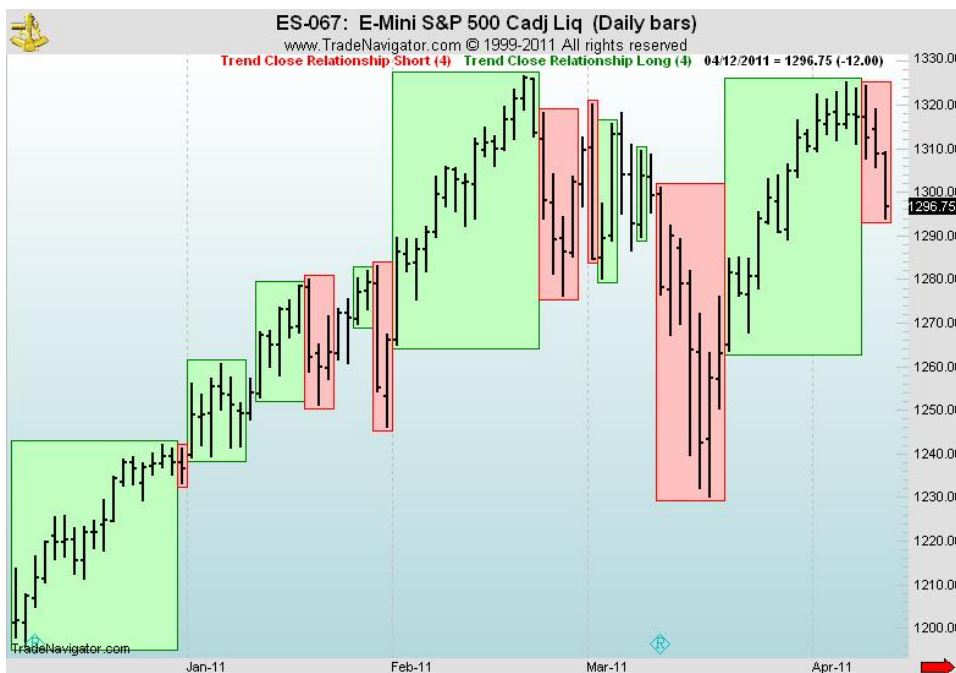
**Studies**

**Trend CCI**



This study contains both the Trend CCI Long and Trend CCI Short Highlight Zones

**Trend Close Relationship**



This study contains both the Trend Close Relationship Long and the Trend Close Relationship Short Highlight Zones.

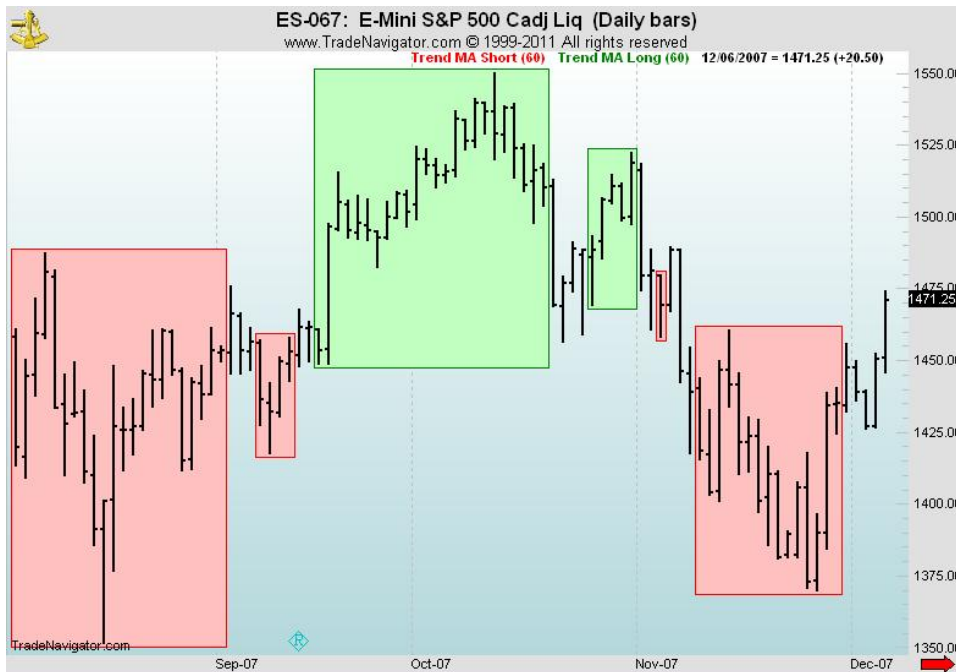


**Trend High Low**



This study contains both the Trend High Low Long and Trend High low Short Highlight Zones.

**Trend MA**



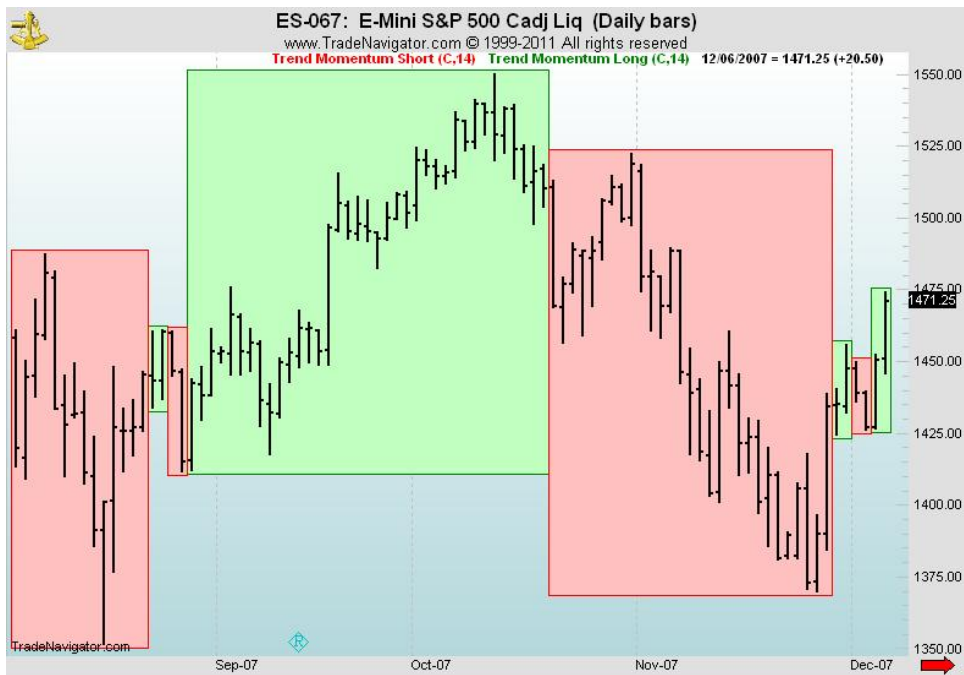
This study contains both the Trend MA Long and Trend MA Short Highlight Zones.

**Trend MACD**



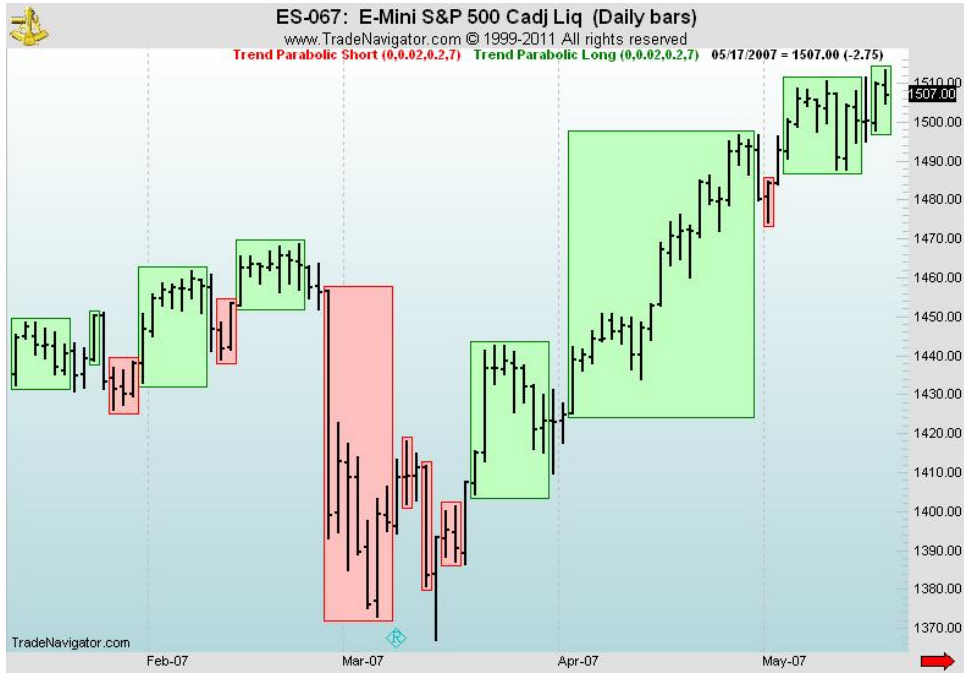
This study contains both the Trend MACD Long and Trend MACD Short Highlight Zones.

**Trend Momentum**



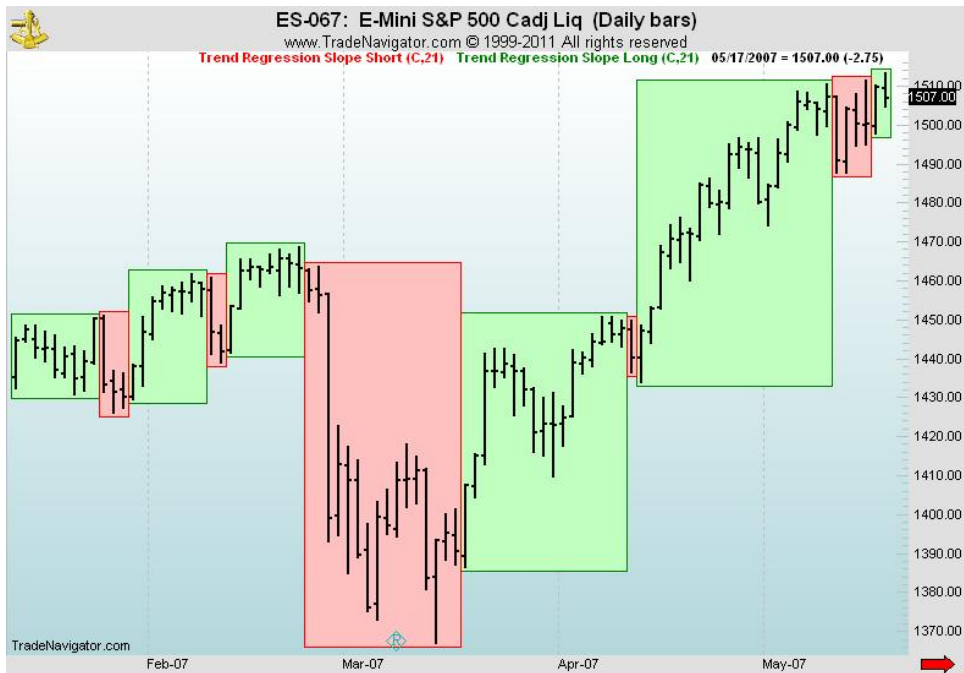
This study contains both the Trend Momentum Long and trend Momentum Short Highlight Zones.

**Trend Parabolic**



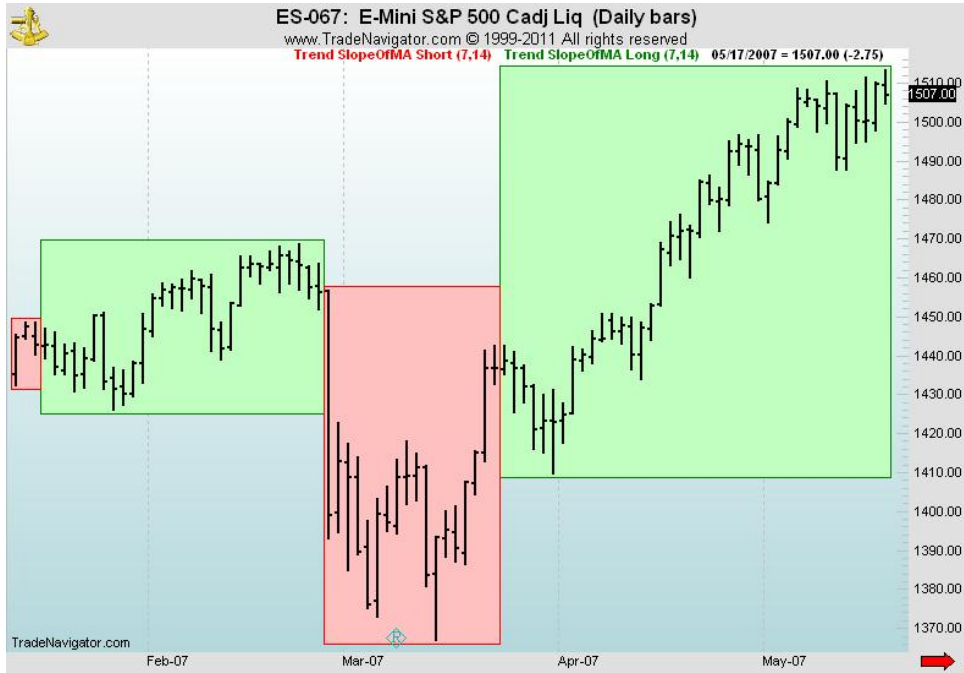
This study contains both the Trend Parabolic Long and Trend Parabolic Short Highlight Zones.

**Trend Regression Slope**



This study contains both the Trend Regression Slope Long and Trend Regression Slope Short Highlight Zones.

**Trend SlopeOfMA**



This study contains both the Trend SlopeOfMA Long and Trend SlopeOfMA Short Highlight Zones.

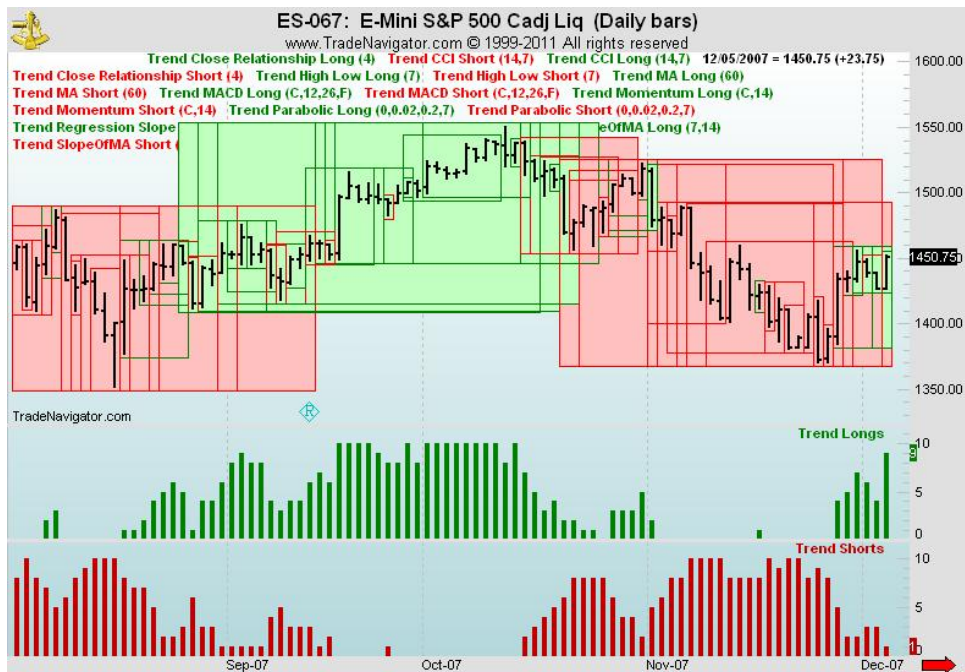
**Trend Volatility**



This study contains both the Trend Volatility Long and Trend Volatility Short Highlight Zones.

## Templates

### Trend Outlook Library



This template contains all 20 of the Highlight zones as well as the Trend Longs and Trend Shorts histograms.