



**S-Trader**





## STARC | Stoller Average Range Channel

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## Description

Stoller Average Range Channels are volatility-based envelopes set above and below a moving average. This indicator is a hybrid between the Bollinger Bands and the Keltner Channel in the sense that it plots the bands as a number of ATRs (instead of StDevs like the Bollinger Bands do) above and below a price moving average (instead of a typical price moving average like the Keltner Channel does).

## Formula

Step 1: Calculate the series MA and ATR using existing formulas;

Step 2: Actual bands calculation:

- Stoller Average Range Channel Top =  $MA + n \text{ ATRs}$
- Stoller Average Range Channel Bottom =  $MA - n \text{ ATRs}$

## Parameters

<b>Source</b>	Any price source (O, H, L, C, Vol, OI) or any other built-in or custom study
<b>MA Periods</b>	Any number of periods
<b>MA Type</b>	Any available moving average
<b>ATR Periods</b>	Any number of periods



<b>ATR MA Type</b>	Any available moving average
<b>ATR Shift</b>	Any number of ATRs

## Output value(s)

There are three output values resulting from the formula, the Stoller Average Range Channel Top, Main (or Middle) and Bottom.

## Plot

The plot is an overlay inside the price series panel.

## Quant Script™ Syntax

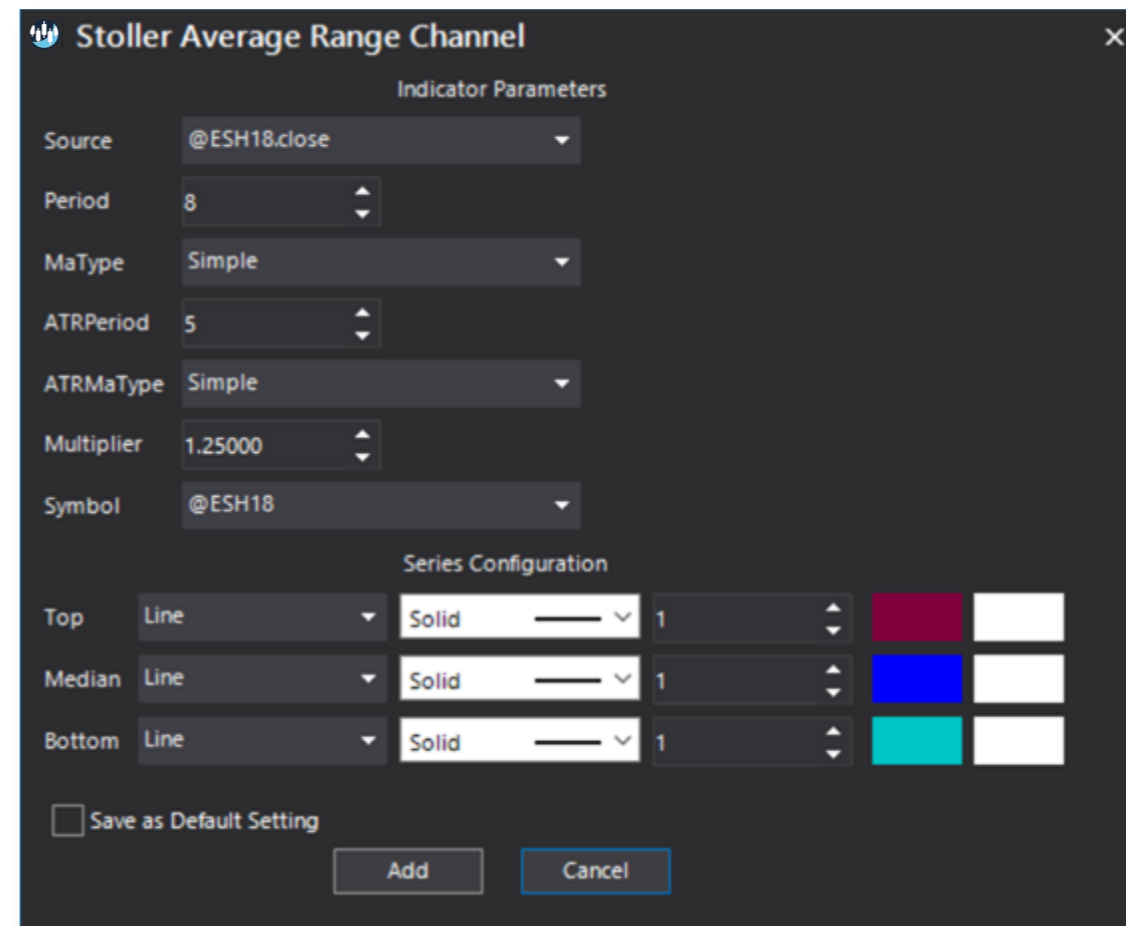
<b>Short Form</b>	<i>STARCT</i> (MA Periods, MA Type, ATR Periods, ATR MA Type, ATR Shift)
	<i>STARCM</i> (MA Periods, MA Type, ATR Periods, ATR MA Type, ATR Shift)
	<i>STARCB</i> (MA Periods, MA Type, ATR Periods, ATR MA Type, ATR Shift)



<b>Long Form</b>	<i>StollerAverageRangeChannelTop</i> (MA Periods, MA Type, ATR periods, ATR MA Type, ATR Shift)
	<i>StollerAverageRangeChannelMain</i> (MA Periods, MA Type, ATR periods, ATR MA Type, ATR Shift)
	<i>StollerAverageRangeChannelBottom</i> (MA Periods, MA Type, ATR periods, ATR MA Type, ATR Shift)

## Dialogs

### Chart Study Dialog





## Sample Chart With Study





## Quant Script™ Wizard Study Dialog

The image shows two overlapping dialog boxes from the S-Trader platform. The top dialog is the 'Custom Study Wizard' and the bottom one is the 'Add Variable' dialog.

**Custom Study Wizard:**

- Save To Group: Default
- Custom Study Name: [Empty text box]
- Password: [Empty text box]
- Result: Line, DashDotDot, 2, [Color selection]
- Reverse\_Result: Line, DashDot, 2, [Color selection]
- Add To New Panel:
- Buttons: Add New Variable, Edit Selected Variable
- Table with columns: Name, Description

**Add Variable:**

- Name: [Empty text box]
- Description: [Empty text box]
- Source: CLOSE
- Period: 8
- MaType: Simple
- ATRPeriod: 5
- ATRMaType: Simple
- Multiplier: 1.25
- Buttons: Create Script Line, OK, Cancel
- Preview: StollerAverageRangeChannelBottom(CLOSE, 8, Simple, 5, Simple, 1.25)



## Quant Script™ Study Dialog

**Custom Study Editor**

Save To Group: 2\_ENVELOPES A 8.25

Custom Study Name: STARCT

Password:

Result: Line | DashDotDot | 2 | █ █

Reverse\_Result: Line | DashDot | 2 | █ █

Formula Add To New Panel

```
SET A1 = STARCB(CLOSE, 8, Simple, 5, Simple, 1.25)
SET A2 = StollerAverageRangeChannelBottom(CLOSE, 8, Simple, 5, Simple, 1.25)

SET B1 = STARCM(CLOSE, 8, Simple, 5, Simple, 1.25)
SET B2 = StollerAverageRangeChannelMedian(CLOSE, 8, Simple, 5, Simple, 1.25)

SET C1 = STARCT(CLOSE, 8, Simple, 5, Simple, 1.25)
SET C2 = StollerAverageRangeChannelTop(CLOSE, 8, Simple, 5, Simple, 1.25)
```

OK Cancel