



Parallax Charting Guide for Bloomberg Users

The screenshot shows the Parallax Charting software interface. The window title is "Parallax Charting - Advanced Multi-Timeframe Analysis". The interface is divided into several sections:

- Data Source:** Bloomberg Terminal
- Chart Mode:** Single Chart
- Data Definition:** Single Security (selected), Ratio Spread
- Symbol:** (empty text field)
- Start Date:** 4/4/2011
- End Date:** 4/4/2026
- Timeframes:** -- Select Timeframes -- (dropdown menu), Custom+ button, Selected Timeframes: (empty list)
- Studies:** -- Select Studies -- (dropdown menu), Selected Studies: (empty list)
- Data Settings:** Use Synthetics (checkbox), Reset Study Timings button, Bars to Merge: 1 (No Merge) (dropdown), Linkage: -- Select -- (dropdown)

On the right side, there is a section titled "Created Chart Groups" with the text: "No charts created yet. Configure settings and click CREATE CHART to begin."

At the bottom of the interface, there are several buttons: CREATE CHART (blue), Clear, Save, Load, Help, and About.

Parallax Financial Research, Inc.

4/4/2026

The screenshot shows the Parallax Charting software interface. At the top, the window title is "Parallax Charting - Advanced Multi-Timeframe Analysis". The main header features the Parallax logo and the text "Parallax Charting™".

The interface is divided into two main sections: configuration on the left and a "Created Chart Groups" panel on the right.

Configuration Panel (Left):

- Data Source:** Bloomberg Terminal
- Chart Mode:** Single Chart
- Data Definition:** Single Security (selected), Ratio Spread
- Symbol:** (Empty text field)
- Start Date:** 3/2/2005
- End Date:** 3/2/2026
- Timeframes:** -- Select Timeframes - (dropdown), Custom+ (button)
- Selected Timeframes:** (Empty list)
- Studies:** -- Select Studies -- (dropdown)
- Selected Studies:** (Empty list)
- Data Settings:**
 - Use Synthetics
 - Reset Study Timings (button)
 - Bars to Merge: 1 (No Merge) (dropdown)
 - Linkage: -- Select -- (dropdown)

Created Chart Groups Panel (Right):

No charts created yet. Configure settings and click CREATE CHART to begin.

Bottom Bar:

- CREATE CHART (button)
- Clear (button)
- Save (button)
- Load (button)
- Help (button)
- About (button)

User's Guide

Parallax Financial Research, Inc.

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1. Overview

Parallax Financial Research has been focused on solving the market forecasting problem since 1990. Our approach separates market dynamics into two distinct forces: fundamental value, which acts as a restoring force pulling price toward intrinsic worth, and crowd effect, the positive feedback process that drives prices to extremes far from that value. These two forces are the scientific basis for every tool in the Parallax Charting suite.

Parallax Charting brings 35 years of complexity-theory and statistical-physics research to the Bloomberg desktop. The application retrieves live and historical data through the Bloomberg DAPI and renders it on a high-resolution WPF canvas alongside the full suite of Parallax analytical overlays: ExtremeHurst, PriceWizard, SmartChannel, SmartPivots, Confluence, VolumeTrend, RSiz, and HurstBands.

Tools oriented toward fundamental value — PriceWizard and SmartChannel — work in the negative feedback domain, identifying price equilibrium and support/resistance. Tools oriented toward crowd effect — ExtremeHurst and HurstBands — work in the positive feedback domain, identifying the beginning and end of trend-persistent market phases. Confluence combines both into a single unified view.

Parallax Charting requires an active Bloomberg Terminal subscription and a valid Parallax activation code. Contact Parallax Financial Research to obtain or renew your licence.

Key Capabilities

- Multi-timeframe OHLC charting with Bloomberg real-time and historical data
- BarsToMerge — combine N consecutive bars into a single synthetic bar for any timeframe
- OHLC ratio spreads — chart the ratio of any two Bloomberg securities on a single canvas
- Chart group management — save, load, and link groups of charts that scroll and zoom together
- Adjustable refresh rates — control how frequently live data is re-fetched
- Full suite of proprietary analytical overlays (see Section 4)
- Professional chart export for reports and presentations

2. Navigation & Controls

2.1 Toolbar

The toolbar across the top of the chart window provides one-click access to the most common operations. Hover over any button to display its tooltip.

Button / Icon	Function
Data Settings	Open the Chart Data Settings dialog to change symbol, timeframe, date range, or BarsToMerge
Studies	Open the Study Settings panel to enable, disable, or configure analytical overlays
Refresh	Force an immediate data refresh from Bloomberg
Export	Export the current chart to a high-resolution PNG or copy to clipboard
Link	Toggle chart linking — when linked, pan/zoom is synchronized across the chart group
Group Save/Load	Save or restore the current set of open charts as a named group
Zoom In / Out	Enter zoom mode; click and drag to define the zoom region
Reset Zoom	Return to the default full date-range view
Pan	Enter pan mode; click and drag to scroll the time axis

2.2 Mouse Interaction

- **Crosshair:** Move the mouse over the chart canvas to display a crosshair with price and date readout in the legend panel.
- **Zoom:** Select the Zoom In button, then click-and-drag a rectangle over the region of interest. Select Reset Zoom to return to full view.
- **Pan:** Select the Pan button, then click-and-drag left or right to scroll the time axis.
- **Scroll wheel:** Scroll up/down to zoom in/out centered on the cursor position.

2.3 Legend Panel

The floating legend panel in the upper-left of the chart displays OHLC values for the bar under the crosshair, together with the current readings of all active studies. Each study is listed with its label in its display color. Scroll the legend if more studies are active than can fit in the default height.

The legend panel can be repositioned by dragging its title bar. Its size adjusts automatically to the number of active studies.

2.4 Keyboard Shortcuts

Ctrl + R	Force data refresh
Ctrl + G	Toggle grid lines
Ctrl + E	Export chart to PNG
Ctrl + Z / Y	Undo / Redo zoom step
Escape	Cancel current interaction mode (zoom, pan)
Arrow Left/Right	Step one bar left or right (in pan mode)

2.5 Status Bar

The status bar at the bottom of the window displays the current symbol, timeframe, bar count, visible date range, and data-fetch status. A spinning indicator appears while Bloomberg data is being retrieved or studies are recalculating. A session indicator shows the current market state: a filled dot indicates the primary trading session is active; a hollow dot indicates pre- or post-market hours; and no dot indicates the market is closed. Parallax Charting uses this session state to suppress unnecessary Bloomberg data requests outside trading hours.

3. Chart Data Settings

The Chart Data Settings dialog controls what data is displayed in the chart. Open it by clicking the Data Settings button in the toolbar or pressing Ctrl+D.

3.1 Symbol

Enter any valid Bloomberg ticker in the Symbol field (e.g. AAPL US EQUITY, SPX INDEX, TY1 COMDTY). The field accepts the full Bloomberg yellow-key notation. After changing the symbol, click Apply or press Enter to reload data.

For spread charts, enter the numerator symbol here. The denominator is configured in the Spread section below.

3.2 Timeframe

Select the bar interval from the Timeframe drop-down. The following intervals are supported:

Minute	Intraday minute bars. Specify the number of minutes in the Interval field (e.g. 5 for 5-minute bars).
Hourly	Hourly bars.
Daily	Daily OHLC bars — the standard timeframe for most studies.
Weekly	Weekly OHLC bars.
Monthly	Monthly OHLC bars. Also the basis for Quarterly and Yearly compression (see BarsToMerge).

Tick, Quarterly, and Yearly intervals are not available as native Bloomberg requests in this application. Use Monthly with BarsToMerge = 3 for Quarterly, or BarsToMerge = 12 for Yearly data.

3.3 BarsToMerge

BarsToMerge combines N consecutive bars into a single synthetic OHLC bar before all studies are calculated and rendered. This is a powerful tool for constructing non-standard timeframes without requiring a separate Bloomberg data request.

BarsToMerge Value	Effective Timeframe	Notes
1 (default)	Native timeframe	No compression — bars are displayed as retrieved
2	2× native	E.g. Daily × 2 = bi-daily bars

BarsToMerge Value	Effective Timeframe	Notes
3	3× native (Quarterly if Monthly)	Monthly × 3 = Quarterly bars
4	4× native	Weekly × 4 ≈ Monthly bars
12	12× native (Yearly if Monthly)	Monthly × 12 = Annual bars

When BarsToMerge > 1, all study calculations operate on the merged bar series. PriceWizard valuation indices, ExtremeHurst signals, and all other overlays automatically account for the merge factor.

3.4 Date Range

Set the Start Date and End Date to control the history window fetched from Bloomberg. Leave End Date blank (or set to today) to include the most recent available data. The chart will display the full requested range; use zoom or pan to focus on a sub-period.

Bloomberg data availability varies by security and subscription. If the requested start date predates available history, the chart will display data from the earliest available date.

3.5 Synthetics (Weekly and Monthly)

For Weekly and Monthly timeframes, enabling the Synthetics option instructs Bloomberg to construct bars from underlying daily data rather than returning pre-built weekly/monthly bars. This typically produces cleaner series for securities where the native weekly/monthly history is sparse or inconsistent.

3.6 Spread Chart

Parallax Charting supports OHLC ratio spreads — the ratio of two securities plotted bar-for-bar as a synthetic price series. To configure a spread:

- Enter the numerator symbol in the Symbol field as usual.
- Enable the Spread toggle in the Chart Data Settings dialog.
- Enter the denominator symbol in the Spread Symbol field.
- Click Apply. The chart will display the bar-for-bar OHLC ratio of the two securities as a new price series. Both legs contribute full OHLC data; the ratio is computed independently for each of Open, High, Low, and Close, preserving genuine intrabar range information in the spread series.

All studies — SmartChannel, ExtremeHurst, PriceWizard, and the rest — operate on the spread series exactly as they would on a standard price series. The chart title and legend will indicate the spread pair (e.g. AAPL US / MSFT US).

Both securities must share the same Bloomberg data availability window. If one series is shorter, the spread will be calculated only over the common history.

3.7 Refresh Rate

The Refresh Rate control determines how frequently the application re-fetches live data from Bloomberg during market hours. Options range from manual-only to every 30 seconds. For most institutional use cases, a 1-minute or 5-minute refresh is appropriate. Setting a very short interval (< 30 seconds) on a large number of simultaneously open charts may increase Bloomberg API load.

Manual	Data is only refreshed when the user explicitly clicks Refresh or presses Ctrl+R.
30 seconds	Refresh every 30 seconds during market hours.
1 minute	Refresh every 60 seconds — recommended for intraday monitoring.
5 minutes	Refresh every 5 minutes — suitable for end-of-day swing monitoring.
15 minutes	Refresh every 15 minutes.

4. Indicators & Studies

All Parallax studies are accessed through the Study Settings panel (toolbar Studies button). Each study can be independently enabled or disabled, and each exposes its own configuration controls. Studies are recalculated automatically whenever the underlying price data changes.

Studies marked with an asterisk () require a PriceWizard or ExtremeHurst bundle licence in addition to the base Parallax Charting license.*

4.1 ExtremeHurst *

ExtremeHurst is a quantitative detector of extreme investor behavior. It answers the question of WHEN to act. Strong trend-persistent price movements are evidence of positive feedback — investors buying because price is rising, driving prices higher. Extremes of mean reversion are evidence of negative feedback. Extremes of both trend persistency and mean reversion, quantified via multiple measurements of the Hurst exponent, precede significant reversals and breakouts. When all investors believe the same thing at the same time, a transition occurs. ExtremeHurst signals are characterized by the presence of discrete scale invariance, accelerating price, log-periodic cycles, and volume anomalies. Signals persist for up to 20 time periods into the future.

Signal Types

Top Extension	The end of a trend-persistent advance. Price has reached a critical point at the top of a power law move. Displayed as a downward-pointing magenta arrow at the signal price.
Bottom Extension	The end of a trend-persistent decline. Price has reached a critical point at the bottom of a power law move. Displayed as an upward-pointing magenta arrow at the signal price.
Compression	Extreme mean reversion at a market equilibrium point. Marks the beginning of a new trend. Displayed as a diamond marker. Direction of the subsequent breakout is not implied by the signal.

Overlays Rendered with Each Signal

- **Power Law line (gray dashed):** The fitted power-law curve leading into the signal date, showing the acceleration or deceleration of price that preceded the extension.
- **Log-Periodic line (blue dashed):** The log-periodic oscillation fitted over the same incoming window, capturing the characteristic bubble or anti-bubble oscillation pattern.
- **LP Aftershock Timing Marks:** For the most recent active Top or Bottom Extension, small vertical tick marks are plotted at the signal price level, spaced logarithmically forward in time. Red ticks indicate dates when a secondary top is expected; green ticks indicate secondary bottom dates. These marks represent the expanding log-periodic cycle that follows the primary signal and are not plotted for Compressions.

- **Compression Projection (gray dashed):** For the most recent Compression, a forward projection of the $\pm 2.3\sigma$ envelope is drawn to indicate the expected range of the breakout move.
- **TradeBox:** A dashed rectangle drawn from the signal date forward, spanning the stop and target price levels derived from the Trident+ model. Only the single most recent signal displays a TradeBox.

Settings

Rank Threshold	Minimum signal rank (0–100) to display. Higher values show only the highest-conviction signals.
Show Trident Info	Toggle the TradeBox and stop/target price level annotations.
Show LP Cycles	Toggle the intermediate log-periodic projection lines on SmartChannels.

ExtremeHurst handles inverted and negative price series correctly, including interest rate futures and spread series that may change sign. LP cycle timing and power-law fits are computed on the absolute value of the price series in these cases, so signals and overlay geometry remain valid.

4.2 PriceWizard *

PriceWizard answers the question of WHAT a security is worth. It is a suite of industry-scoped multifactor neural network models pre-trained to convert recently reported company fundamentals into a current estimated market price. It uses no future growth expectations, analyst estimates, or price momentum. In fact, PriceWizard input factors do not include price in any form, past or present.

The model automatically performs a fundamental appraisal by simultaneously using common stores of value — earnings, cash flow, book, and dividends — along with critical modifiers such as industry, margins, debt, interest rates, and inflation. The result is an absolute price estimate, not a relative ranking. When valuations are out of line with current prices, price tends to drift toward value over time.

Chart Rendering

- **Valuation segments:** For each bar, a short horizontal line is drawn at the PriceWizard valuation price. The color of the line encodes the percentage premium or discount of the current price relative to the valuation — a gradient from deep green (deeply undervalued) through neutral grey to deep red (deeply overvalued).
- **Current bar marker (purple dot):** A filled purple circle is drawn at the PriceWizard valuation of the most recent bar. This marker is always visible even when the current week's or month's bar has not yet completed, providing a clear anchor for the live valuation. Hover over the dot to display the exact valuation figure.

Legend Readout

When the crosshair is over a bar, the legend displays: Valuation, Rank (percentage premium/discount), and ToValue (the percentage move required to reach fair value from the current price).

Settings

BarsToMerge	Automatically inherited from Chart Data Settings. The valuation index mapping is adjusted to match the merged bar series.
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4.3 SmartChannel

Price support and resistance are emergent geometric phenomena arising from negative feedback — the market's collective memory of prior purchase and sale decisions. SmartChannel maps this geometry by fitting adaptive linear regression channels to the price series, identifying the dominant trend corridor at multiple scales simultaneously. Channels are colored by slope and recency.

- **Solid lines:** Active channel boundaries within which price is currently contained.
- **Dashed lines:** Broken channels — price has closed beyond the channel boundary. LP projection lines extend forward from broken channels when the price remains within the log-periodic convergence envelope.
- **LP Convergence Target:** A lighter dashed line indicating the distance at which the log-periodic oscillation around the broken channel boundary is expected to converge.

4.4 SmartPivots

SmartPivots identifies statistically significant pivot highs and lows in the price series and projects support/resistance levels forward. Pivots are ranked by their fractal significance; the most significant pivots generate horizontal projection lines that extend to the right edge of the chart.

4.5 Confluence

Confluence is the fusion tool — it combines positive and negative feedback methods into a single unified view. It aggregates all active support/resistance levels from SmartPivots, SmartChannel boundaries, and PriceWizard valuation to identify price zones where multiple independent factors converge. Confluence zones are rendered as semi-transparent horizontal bands; zone density is color-coded from light (2-factor) to dark (4+ factor).

4.6 VolumeTrend

VolumeTrend renders a gradient line on the price chart canvas encoding the relationship between price movement and volume on each bar. The line shifts from green (price up on expanding volume — bullish confirmation) through grey (neutral) to red (price down on

expanding volume — bearish confirmation). A divergence between price direction and volume trend is a key signal of potential reversal.

4.7 RSiz

RSiz is a normalized, zero-centered variant of the Relative Strength Index, computed in the standardized (z-score) domain. Unlike traditional RSI, RSiz does not use fixed overbought/oversold thresholds; instead, extreme readings are defined dynamically relative to the recent distribution of RSI values. RSiz is displayed in its own sub-chart panel below the price canvas.

For intraday timeframes, RSiz updates bar-by-bar using the full timestamp (not date-only), ensuring smooth intraday progression rather than daily steps.

4.8 HurstBands

HurstBands renders the multi-scale fractal envelope underlying the ExtremeHurst model. Markets organize themselves into unstable critical states through positive feedback — like earthquakes — and then release that energy at all sizes and scales. HurstBands make this structure visible, showing where price sits within the fractal hierarchy at any moment. Three nested band pairs are displayed:

Magenta bands (outer)	Band index 18 — the widest fractal envelope. Price trading outside these bands is characteristic of scale extension events.
Green/Red bands (middle)	Band index 10 — intermediate envelope. Green line marks the upper boundary; red marks the lower.
Blue band (inner high)	Band index 0 — the tightest high-side envelope, useful for identifying short-term mean reversion levels.

Filled regions between band pairs are shaded with low-opacity color (green above, blue in the middle, red below) to aid rapid visual assessment of where price sits within the fractal structure. HurstBands support negative prices and interest rate series correctly.

HurstBands are displayed in the HurstFur sub-chart panel below the price canvas, which also shows Extremes (magenta dots) and Compress (blue dots) signals on a separate indicator scale.

5. Special Features

5.1 OHLC Ratio Spreads

The spread charting capability allows any two Bloomberg securities to be combined into a synthetic ratio series. Because the ratio is computed bar-for-bar from the full OHLC data of both legs, the resulting spread series retains genuine high-low information — unlike close-only ratio charts produced by most platforms.

Practical applications include:

- Equity pair trades — e.g. AAPL US / MSFT US to monitor relative strength
- Fixed-income relative value — e.g. TY1 COMDTY / FV1 COMDTY for 10s/5s ratio
- Cross-asset ratios — e.g. SPX INDEX / GLD US for equities-vs-gold purchasing power
- Credit spreads constructed from total-return indices

All Parallax studies run on the spread series. ExtremeHurst signals on a ratio chart identify extremes in relative valuation rather than absolute price. PriceWizard will run if Bloomberg fundamental data is available for the numerator security.

When a spread chart is saved as part of a Chart Group, both the numerator and denominator symbols are stored and restored on group load.

5.2 Chart Group Save / Load

Chart Groups allow an entire workspace of open charts — with all their symbols, timeframes, study configurations, and layout positions — to be saved as a single named group and restored in one click.

Saving a Group

- Arrange and configure all charts as desired.
- Click the Group Save button in the toolbar (or File > Save Chart Group).
- Enter a descriptive name for the group (e.g. "Fixed Income Dashboard" or "Tech Pair Monitor").
- Click Save. The group is stored locally and will appear in the Load list.

Loading a Group

- Click the Group Load button (or File > Load Chart Group).
- Select the desired group from the list.
- Click Load. All charts in the group are opened and positioned as saved. Bloomberg data requests are issued automatically.

Chart Groups save layout geometry, symbol/timeframe/spread configuration, BarsToMerge, date range, active studies, and study settings. Refresh rate, chart linking state, and sub-chart panel visibility (e.g. whether the HurstFur or RSz panel is open) are also preserved.

Layout Modes

When saving or opening a Chart Group, Parallax Charting supports four distinct layout modes. The mode is selected from the Group Save dialog and is restored automatically on load.

- **Single Chart** — A single maximized chart window. Suitable for focused analysis of one symbol.
- **Multiple Single Charts** — Several independent chart windows tiled or floated freely. Each chart has its own symbol, timeframe, and study configuration.
- **Symbol Grid** — A uniform grid of charts, each showing a different symbol at the same timeframe. Useful for screening a portfolio or watchlist at a glance.
- **Time Grid** — A grid of charts showing the same symbol across multiple timeframes simultaneously — for example, Monthly, Weekly, and Daily side by side. All charts in a Time Grid are automatically linked so that pan and zoom remain synchronized across timeframes. This is the recommended layout for multi-timeframe confluence analysis.

5.3 Chart Linking

When two or more charts are linked, pan and zoom operations applied to any one chart are immediately reflected across all linked charts. This is particularly useful for multi-timeframe analysis of the same security, or for comparing linked pairs.

To link charts:

- Open the charts to be linked.
- Click the Link button in the toolbar of each chart to be included in the linked group. Linked charts display a colored link indicator in their toolbar.
- Pan or zoom any linked chart — all others follow simultaneously.

Charts can be unlinked at any time by clicking the Link button again. Linked state is preserved when a Chart Group is saved.

5.4 Adjustable Refresh Rates

See Section 3.7 for the full description of refresh rate options. In addition to the per-chart refresh rate, the following behavior applies:

- **Market hours detection:** Automatic refresh is suppressed outside the primary trading session for the security's exchange, avoiding unnecessary Bloomberg API calls overnight and on weekends.

- **Study recalculation on refresh:** When new data arrives on refresh, only studies whose inputs have changed are recalculated. Studies that depend solely on historical data (e.g. the incoming power-law fit) are not recomputed unless the date range changes.
- **Manual override:** Ctrl+R always forces a full data and study refresh regardless of the configured refresh rate.

5.5 Chart Export

The Export function (toolbar Export button or Ctrl+E) renders the current chart to a high-resolution PNG file suitable for inclusion in client reports, Bloomberg messages, or presentation slides.

Format	PNG at 150 DPI — optimized for screen and print clarity at standard report sizes.
Content	Full chart canvas including price bars, all active study overlays, legend, axes, title, and date/time stamp.
Destination	Save to file (browse dialog) or copy directly to clipboard for immediate paste into Word, PowerPoint, or Bloomberg.

6. Troubleshooting

Symptom	Likely Cause	Resolution
No data displayed after applying settings	Bloomberg session not connected, or ticker not found	Verify the Bloomberg Terminal is running and logged in. Check the ticker format (include yellow key, e.g. EQUITY, INDEX).
Studies show no signals	Insufficient history for the study's lookback, or study disabled	Widen the date range. Confirm the study is enabled in Study Settings and its Rank Threshold is not set too high.
PriceWizard valuation not shown	Fundamental data unavailable for this security or timeframe	PriceWizard requires Weekly or Monthly data with Bloomberg fundamental history. Check that the bundle license is active.
Chart refresh does not update	Manual refresh mode selected, or market closed	Press Ctrl+R to force a manual refresh. Confirm market hours for the security's exchange.
HurstBands fill appears distorted on interest rate charts	Negative yield values previously caused fill polygon gaps	Ensure you are running the current version of Parallax Charting (v1.0+). This issue is resolved in the current release.
Spread chart shows mismatched history	One leg has shorter Bloomberg history than the other	Set Start Date to a date for which both legs have data. The spread will be computed over the common window only.

7. Contact & Support

For license enquiries, technical support, or to report issues:

Company	Parallax Financial Research
Founded	1990
Website	www.pfr.com
Support	Contact via the web store or your account representative

When reporting a bug, please include the chart symbol, timeframe, BarsToMerge setting, and a screenshot of the issue. This helps us reproduce and resolve the problem quickly.

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