

The Cartography Corner



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August 2025

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www.globaltechnicalanalysis.com



Global Technical Analysis

Clarity in Every Market Move

Welcome to the August 2025 edition of *The Cartography Corner*, where we provide technical analysis and actionable insights for E-Mini S&P 500 Futures, the U.S. Treasury 30-Year Yield, and Bitcoin Futures. Our methodology offers a disciplined framework for navigating complex markets.

July 2025 Review

E-Mini S&P 500 Futures

In our July 2025 edition of *The Cartography Corner*, we provided the following analysis of E-Mini S&P 500 Futures:

Support/Resistance:

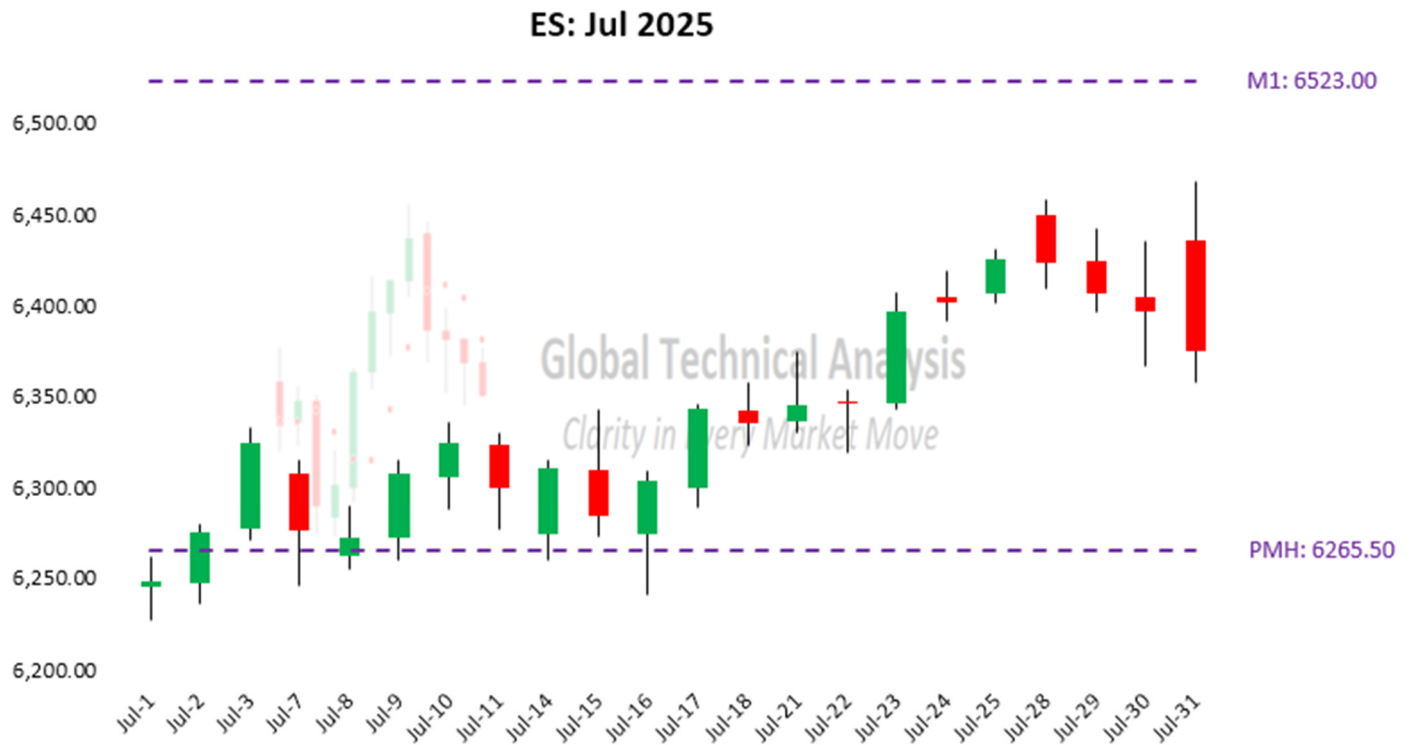
For July, the isolated monthly support and resistance levels are as follows:

- M4: 6935.00
- M3: 6591.50
- M1: 6523.00
- PMH: 6265.50
- Close: 6253.75
- M2: 6139.00
- PML: 5867.50
- MTrend: 5788.78
- M5: 5727.00

Active traders can use PMH: 6265.50 as the pivot. Traders should maintain a long position above this level and adopt a flat or short position below it.

Figure 1 presents a candlestick chart illustrating daily price movements throughout July 2025. Support and resistance levels, identified through our methodology, are indicated by dashed lines. The market price settled above our isolated pivot at PMH: 6265.50 on the second trading session. Over the following nine trading sessions, that level functioned as support. Though breached intra-session on five occasions, the market price continued to settle above it. Over the final eleven trading sessions, the market price increased but fell short of our identified resistance level at M1: 6523.00. The intra-month high was 6468.50 on July 31.

Figure 1:



U.S. Treasury 30-Year Yield

In our July 2025 edition of *The Cartography Corner*, we provided the following analysis of the U.S. Treasury 30-Year Yield:

Support/Resistance:

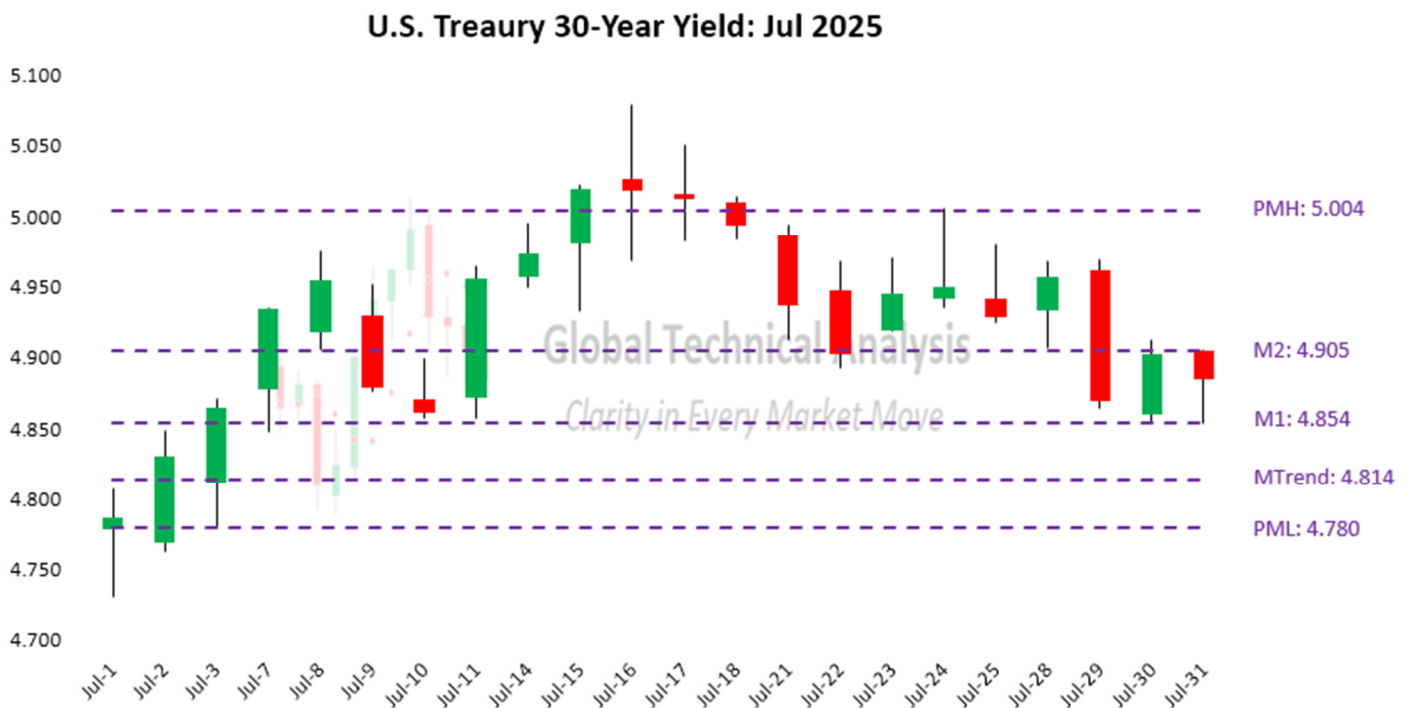
For July, the isolated monthly support and resistance levels are as follows:

- M4: 5.353
- PMH: 5.004
- M2: 4.905
- M1: 4.854
- MTrend: 4.814
- Close: 4.782
- PML: 4.780
- M3: 4.637
- M5: 4.406

Active traders can use MTrend: 4.814 as the pivot. From a yield perspective, traders should maintain a long position above this level and adopt a flat or short position below it.

Figure 2 presents a candlestick chart illustrating daily price movements throughout July 2025. Support and resistance levels, identified through our methodology, are marked by dashed lines. On the first trading session, the market yield surpassed June's low yield at PML: 4.780, achieving its monthly objective for July. (Note: The objective of each trading session is to surpass the high and/or low of the previous session.) The intra-month low occurred on July 1 at 4.730. The yield also settled below our identified pivot at MTrend: 4.814. Over the subsequent ten trading sessions, the market yield reversed upward. It breached our identified pivot and resistance levels at MTrend: 4.814, M1: 4.854, and M2: 4.905. This upward movement peaked on July 16, when the yield surpassed June's high yield at PMH: 5.004, again achieving its monthly objective for July. The intra-month high was recorded at 5.079. Over the final eleven trading sessions, the market yield declined but did not reach our identified pivot level at MTrend: 4.814.

Figure 2:



August 2025 Analysis

E-Mini S&P 500 Futures

We begin by providing a monthly analysis of E-Mini S&P 500 Futures. This analysis can be conducted for any period or aggregated across multiple timeframes.

Trends:

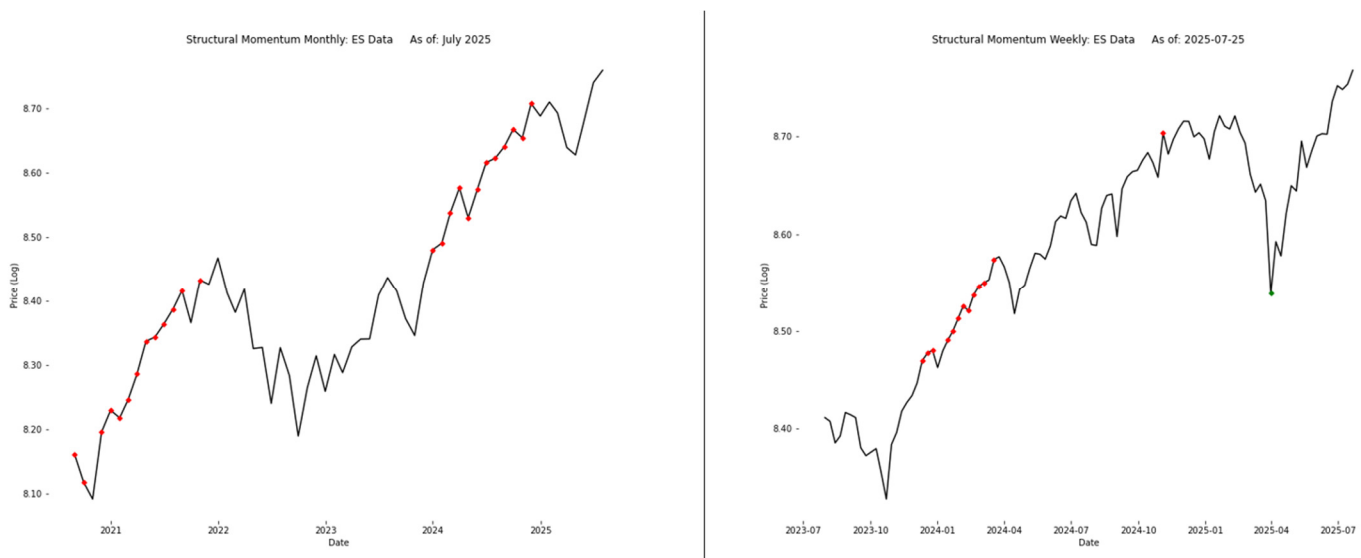
- Daily Trend: 6404.81
- Current Settlement: 6374.25
- Weekly Trend: 6332.14
- Monthly Trend: 6108.53
- Quarterly Trend: 5834.77

The relative positioning of the Trend Levels indicates a bull market. The quarterly chart shows E-Mini S&P 500 Futures trending upward for ten quarters. On the monthly chart, the market price settled above Monthly Trend for the third consecutive month. On the weekly chart, the market price has been trending upward for fourteen weeks.

Momentum:

This metric evaluates the market price's deviation from its average trading point over a specified period. Monthly Momentum is currently neutral. Weekly Momentum is also neutral. For a detailed visual analysis, refer to Figure 3.

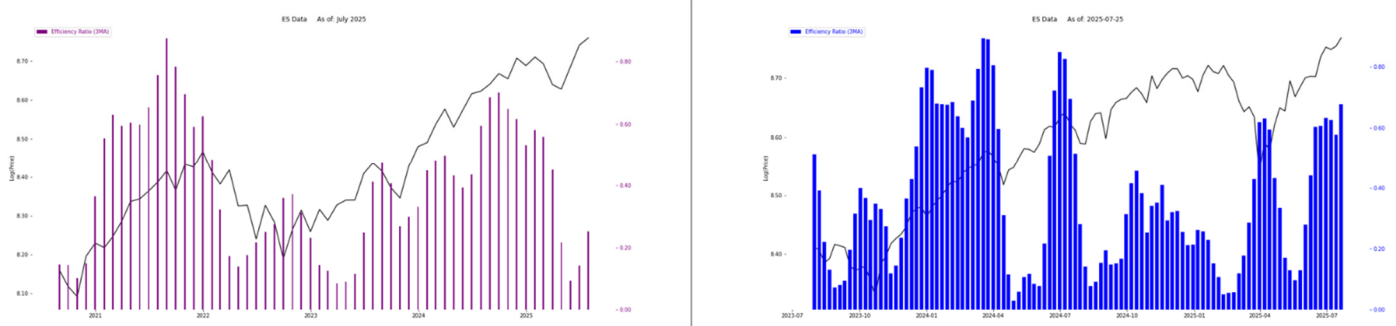
Figure 3:



Efficiency Ratio (ER):

This metric gauges the 'noise' of market prices. A low ER reflects higher noise and a lack of trending behavior, while a high ER signals stronger trends. The Monthly Efficiency Ratio indicates that the rebound from the April low is gaining strength. The Weekly Efficiency Ratio indicates that the recent bullish trend remains strong. For a detailed visual analysis, refer to Figure 4.

Figure 4:



Market Reversals and Signals:

We identify exhaustion levels to anticipate market reversals. A key principle involves anticipating a two-period high or low (e.g., weeks, months, or quarters) within four to six subsequent periods of the same timeframe after reaching the Downside or Upside Exhaustion level. In 2Q 2025, a signal was identified suggesting a two-quarter high within the next four to six quarters. *This high was realized in 3Q 2025 with the trade above 6265.50.*

Support/Resistance:

For August, the isolated monthly support and resistance levels are as follows:

- M4: 7069.50
- M1: 6671.50
- M2: 6587.00
- M3: 6494.75
- PMH: 6468.50
- Close: 6374.25
- PML: 6227.25
- M5: 6189.00
- MTrend: 6108.53

Active traders can use M3: 6494.75 as the pivot. Traders should maintain a long position above this level and adopt a flat or short position below it.



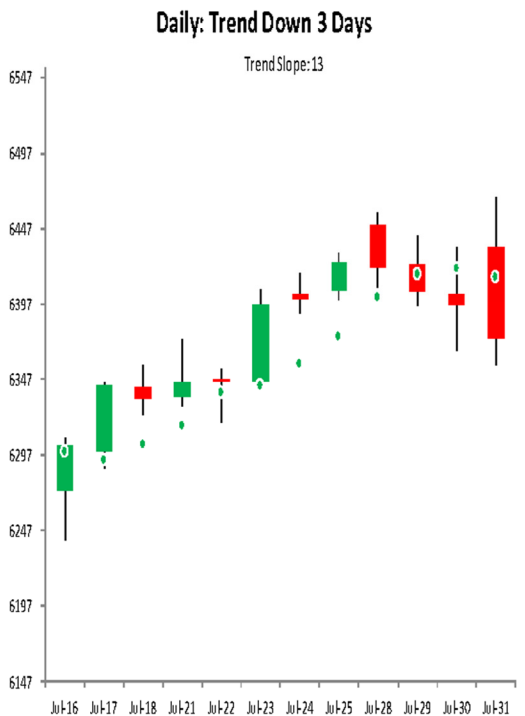
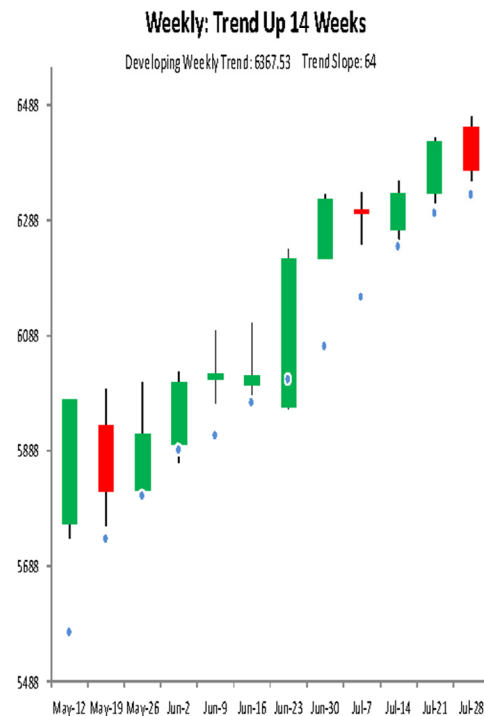
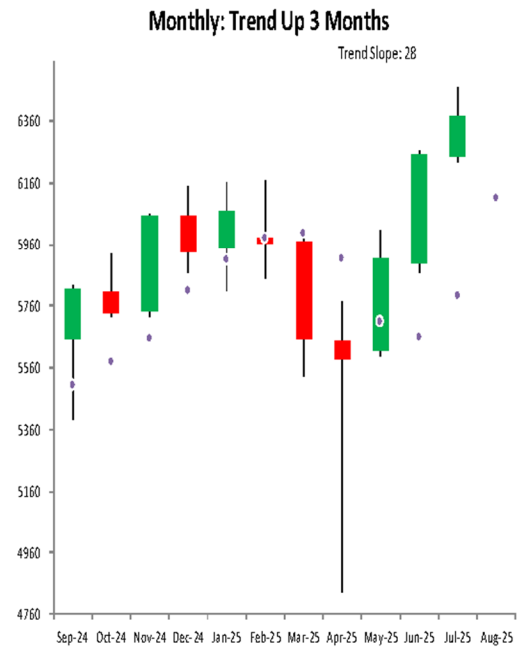
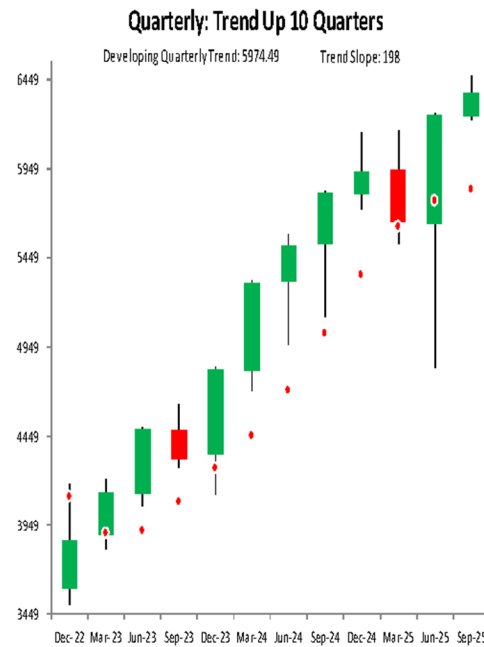
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SP 500 Futures

August 1, 2025

ESU5	57.95
M4	7069.50
Q4	7001.55
Q3	6854.25
M1	6671.50
W4	6621.00
M2	6587.00
D4	6570.25
W3	6515.25
W1	6505.00
D1	6501.75
M3	6494.75
PMH	6468.50
PDH	6468.50
PWH	6431.00
DTrend	6404.81
W2	6396.50
Close	6374.25
Q1	6364.50
PDL	6357.50
D3	6352.25
D2	6348.25
WTrend	6332.14
PWL	6318.75
W5	6280.50
D5	6279.75
PQH	6265.50
PML	6227.25
M5	6189.00
MTrend	6108.53
QTrend	5834.77
PQL	4832.00
Q2	4134.55
Q5	3497.50



Bitcoin Futures

For August, our focus is on Bitcoin Futures. This analysis can be conducted for any period or aggregated across multiple timeframes.

Trends:

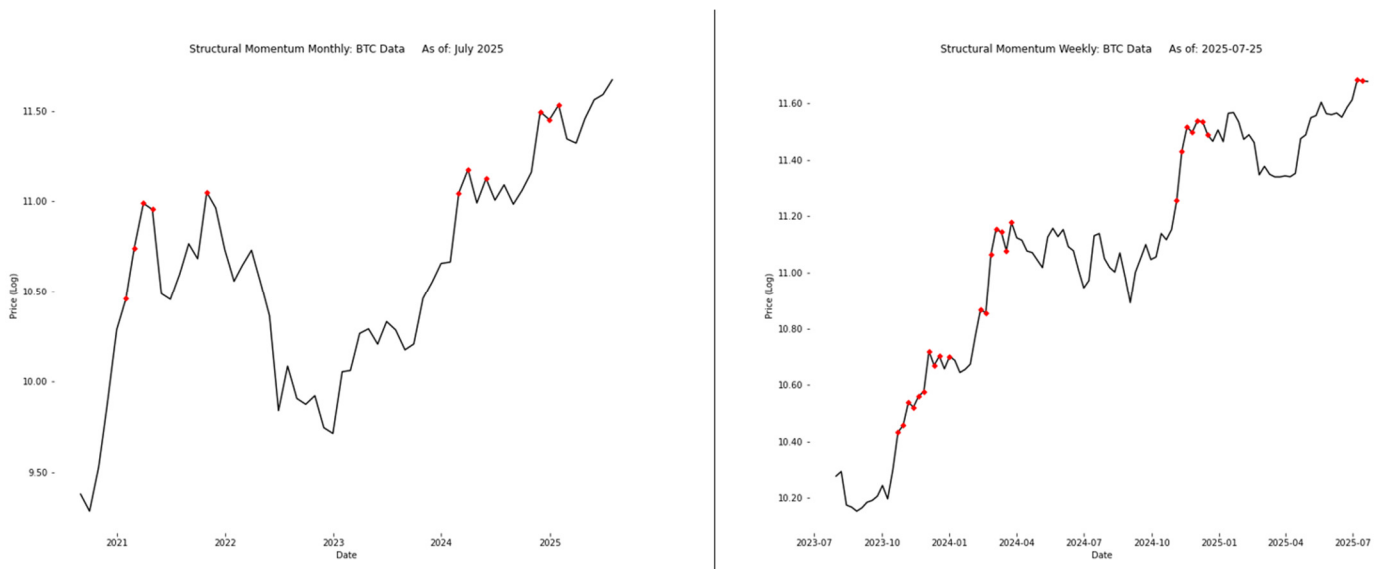
- Daily Trend: 118,284
- Weekly Trend: 117,606
- Current Settlement: 117,435
- Monthly Trend: 108,540
- Quarterly Trend: 91,956

The Trend Levels' relative positioning signals a bull market. The quarterly chart shows Bitcoin Futures have been trending upward for the past ten quarters. On the monthly chart, the market price settled above Monthly Trend for the fourth consecutive month. On the weekly chart, the market price has been trending upward for the past five weeks.

Momentum:

This metric evaluates the market price's deviation from its average trading point over a specified period. Monthly Momentum is currently neutral. Weekly Momentum is in the right tail of the 98% Confidence Interval. For a detailed visual analysis, refer to Figure 5.

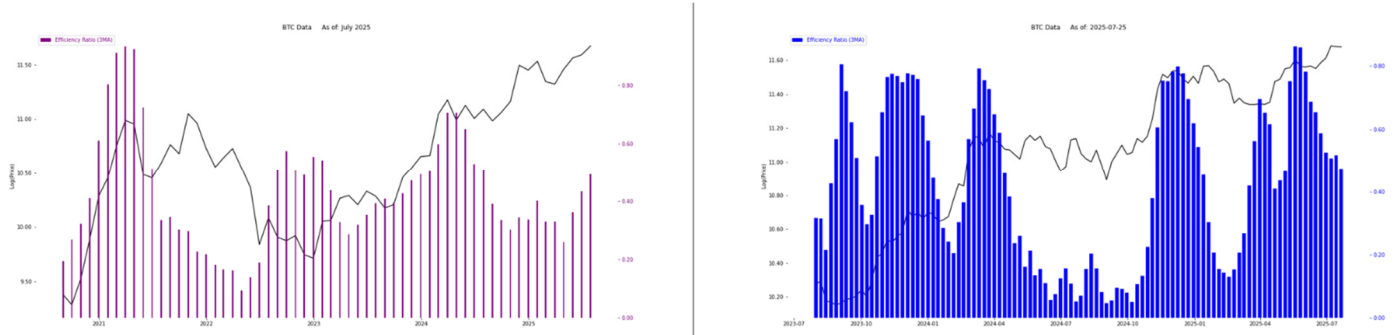
Figure 5:



Efficiency Ratio (ER):

This metric gauges the 'noise' of market prices. A low ER reflects higher noise and a lack of trending behavior, while a high ER signals stronger trends. The Monthly Efficiency Ratio indicates that the strength of the uptrend is increasing, while the Weekly Efficiency Ratio suggests that the recent bullish trend is diminishing. This divergence with price warrants further analysis. For a detailed visual analysis, refer to Figure 6.

Figure 6:



Market Reversals and Signals:

We identify exhaustion levels to anticipate market reversals. A key principle involves anticipating a two-period high or low (e.g., weeks, months, or quarters) within four to six subsequent periods of the same timeframe after reaching the Downside or Upside Exhaustion level. In 4Q 2024, a signal was identified suggesting a two-quarter low within the next four to six quarters (now, two to four quarters). *This low can be realized in 3Q 2025 with a trade below 74,635.*

Support/Resistance:

For August, the isolated monthly support and resistance levels are as follows:

- M4: 147,572
- M1: 136,340
- M3: 126,635
- PMH: 123,615
- Close: 117,435
- M2: 111,222
- MTrend: 108,540
- PML: 105,440
- M5: 99,990

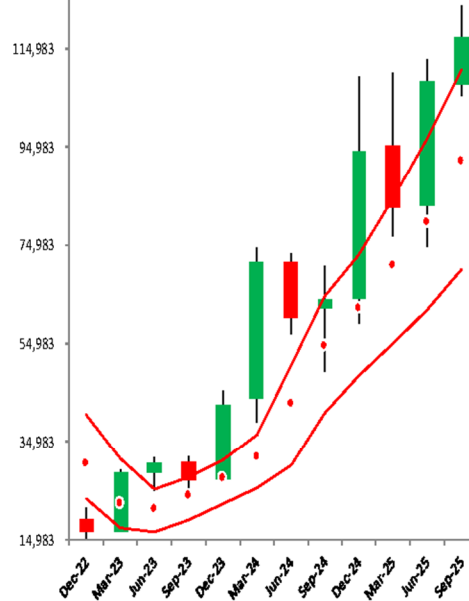
Active traders can use M3: 126,635 as the pivot. Traders should maintain a long position above this level and adopt a flat or short position below it. (**N.B.**, the lines on the graphs below ARE NOT Bollinger Bands. They are moving averages of highs and lows, over a specific lookback period.)



BTQ5	3378
Q4	148,807
M4	147,572
M1	136,340
Q3	133,760
W4	126,860
M3	126,635
PMH	123,615
D4	123,110
PWH	121,475
D1	119,830
PDH	119,785
W1	119,335
DTrend	118,284
D2	117,730
W3	117,639
WTrend	117,606
Close	117,435
D3	117,250
PDL	117,095
PWL	115,675
Q1	115,392
W2	115,260
D5	114,450
PQH	112,771
M2	111,222
MTrend	108,540
W5	107,735
PML	105,440
M5	99,990
QTrend	91,956
PQL	74,635
Q2	72,535
Q5	39,120

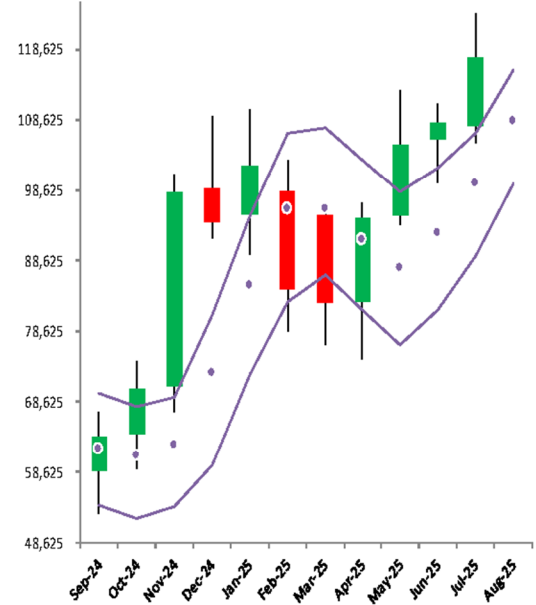
Quarterly: Trend Up 10 Quarters

Developing Quarterly Trend: 101303 Trend Slope: 6368



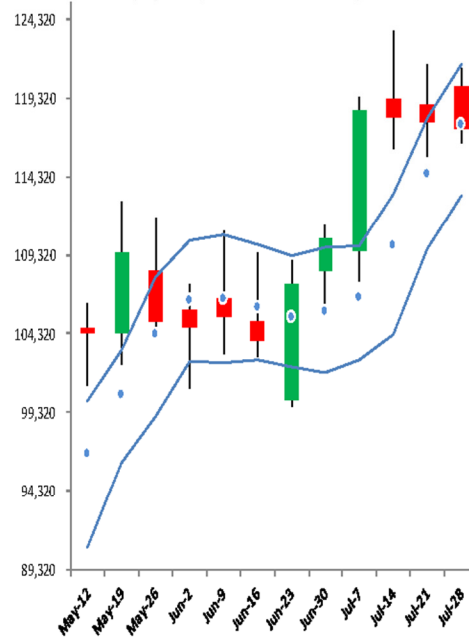
Monthly: Trend Up 4 Months

Trend Slope: 4077



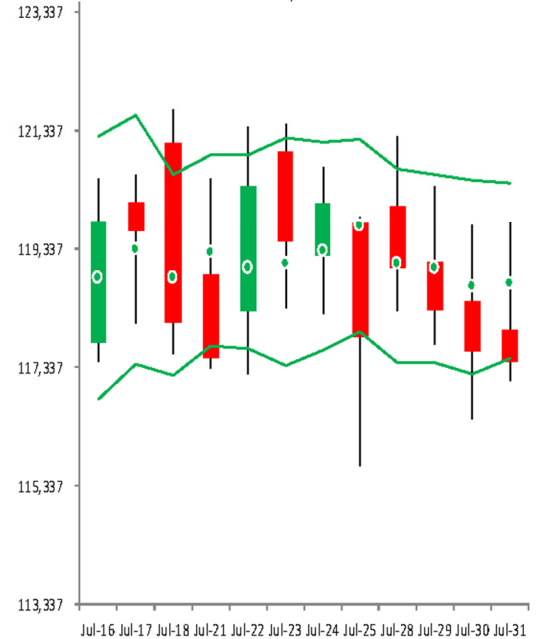
Weekly: Trend Up 5 Weeks

Developing Weekly Trend: 118661 Trend Slope: 1382



Daily: Trend Down 5 Days

Trend Slope: -14



Trend Model

As of July 31, 2025:

	MYMU25	ZNU25	M6EU25	MBTQ25	MHGU25	ZCZ25	LBU25	MCLU25
STDEV.S % (Rolling 21-D)	0.61	0.30	0.46	2.06	3.26	1.37	1.00	1.80
ANNUALIZED %	9.70	4.76	7.24	32.71	51.75	21.72	15.84	28.61
CURRENT ACCOUNT EQUITY (TRADEABLE) \$250,000		\$250,000	TOTAL CURRENT ACCOUNT EQUITY					
ANNUALIZED % VOLATILITY TARGET 18.25%		1.1%	DAILY % VOLATILITY TARGET					
ANNUALIZED CASH VOL TARGET \$45,625		\$2,874	DAILY CASH VOL TARGET					
					1.4%	SCALAR ADJUSTED		
					\$3,449	SCALAR ADJUSTED		
M CONTRACT FORECAST (-20 <=> 20)	20.0	(8.1)	1.8	20.0	20.0	(20.0)	20.0	20.0
W CONTRACT FORECAST (-20 <=> 20)	(20.0)	1.6	(20.0)	20.0	(1.2)	(20.0)	20.0	20.0
CONTRACT FORECAST (-20 <=> 20)	12.0	(6.1)	(2.6)	20.0	15.8	(20.0)	20.0	20.0
PRICE % VOL	0.61%	0.30%	0.46%	2.06%	3.26%	1.37%	1.00%	1.80%
CONTRACT POINT VALUE	1	1,000	12,500	0.1	2,500	50	27.5	100
PREVIOUS SETTLEMENT PRICE	44,633	111	1.14615	117,620	5.5860	4.1225	691.50	70.00
BLOCK VALUE (1%)	\$223.17	\$1,110.00	€ 143.27	\$117.62	\$139.65	\$206.13	\$190.16	\$70.00
CONTRACT CURRENCY VOL	\$136.38	\$332.99	€ 65.32	\$242.40	\$455.27	\$282.08	\$189.70	\$126.18
EXCHANGE RATE	1.00	1.00	€ 1.14615	1.00	1.00	1.00	1.00	1.00
CONTRACT VALUE VOL	\$136.38	\$332.99	\$74.87	\$242.40	\$455.27	\$282.08	\$189.70	\$126.18
VOL SCALAR	21.1	8.6	38.4	11.9	6.3	10.2	15.2	22.8
STAND-ALONE POSITION	25.3	(5.3)	(9.9)	23.7	9.9	(20.4)	30	45.6
CONTRACT WEIGHT	20.00%	0.00%	0.00%	20.00%	20.00%	0.00%	20.00%	20.00%
WEIGHTED POSITION	5.1	0.0	0.0	4.7	2.0	0.0	6.1	9.1
DIVERSIFICATION SCALAR (1.20 cap)	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
NET POSITION	6	0	0	6	2	0	7	11

The amounts and positions shown are for demonstration and educational purposes only and do not represent actual figures.

Summary

Technical analysis reduces multi-dimensional markets into a clear framework of price and time. Our methodology identifies trends, support/resistance levels, and potential trading ranges with consistency, applicable to any security or index with a reliable price history. We deliver actionable insights across markets. Connect with us at <https://www.globaltechnicalanalysis.com/contact> to explore our analysis and enhance your trading strategy.