GC PGM Stress Mirror Z

Multi-input composite designed to defeat single-source the data source / the data source downgrades.

David Stendahl · Market Lab Analytics · November 7, 2026

What this signal is

Multi-input composite designed to defeat single-source the data source / the data source downgrades.

The composite is bounded between minus one and plus one through tanh. On 2024-08-26 it reached its series maximum plus 0.917 and on 1997-06-09 its series minimum minus 0.995.

Today the composite reads near −0.13. See live page for current state.

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How the inputs compose

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The engine also computes four confirming features: five-day velocity, 60-day volatility regime, 60-day correlation with gold returns, 63-day lag-1 autocorrelation.

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What the state-conditional returns have actually done

The gold forward-60-day return baseline (unconditional) is mean plus 0.77 percent, median plus 0.06 percent.

> **Reference baseline (9,068 gold-aligned forward-60-day windows over the live engine window)**
>
> Gold forward-60-day return baseline: mean plus 0.77 percent, median plus 0.06 percent. Phase 0 source: Z99158 engine parquet joined with COMEX gold back-adjusted continuous closes.

PGM stress mirror elevated (Phase +1), 2,921 trading days, returned on average plus 0.76 percent.

Normal (Phase +0), 3,068 trading days, returned on average plus 0.33 percent.

PGM stress mirror calm (Phase −1), 3,228 trading days, returned on average plus 1.10 percent.

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Three cases that frame how to read the signal

Case 1: 2024-08 composite series maximum

On 2024-08-26 the composite reached its series maximum plus 0.917. Gold subsequent 60-day behavior aligned with the pgm stress mirror elevated regime pattern.

Case 2: 1997-06 composite series minimum

On 1997-06-09 the composite reached its series minimum minus 0.995. Gold subsequent 60-day behavior aligned with the pgm stress mirror calm regime pattern.

Case 3: March 2020 COVID shock window

The March 2020 COVID liquidity shock drove violent regime shifts across gold drivers. The composite oscillated as the underlying mechanism repriced.

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How to use the signal today

This is a regime detector on a 60-day forward horizon.

Three best uses. First, as a regime filter for gold exposure (Phase +1 equals pgm stress mirror elevated). Second, as a cross-check against positioning and price-momentum signals. Third, as a transition-window warning, pairing with price-based signals for conviction.

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Methodology notes

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The 1989 start reflects the earliest reliable source coverage.

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What this signal does not cover

Four caveats. The signal is a regime detector, not a timing signal. State-conditional means hold on average, not for every individual window. Regime persistence varies with macroeconomic backdrop. Individual windows can run much longer or shorter than mean sample. State-conditional edges are backward-looking empirical averages. Future regimes may differ. The baseline is COMEX gold back-adjusted continuous (GC_1240BD).

Not investment advice. Signal readings and empirical statistics are derived from publicly available data sources. (c) 2026 David Stendahl.