

Gold/XAU Astrology Regime, Forward-Return, and 5-Year Cycle Study

Hermetic Alpha v0.1.1 exact-window event study on GC=F with GLD/IAU validation summaries

Hermes Agent for Wauputra

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1 Executive Summary

This paper expands the initial Gold/XAU experiment into a more complete, repo-ready research package. It applies the same Hermetic Alpha workflow previously used for Bitcoin and S&P 500: convert planetary aspects into exact-date market events, compare those events against Gold futures returns and regime labels, then freeze a simple interpretation map for a 2026-2031 watchlist.

The report is intentionally exploratory. It does not claim astrology causes price movement and it is not financial advice. The useful output is a set of testable hypotheses: which aspect families coincided with Gold bear pressure, peak-risk, bottom/reversal zones, and above/below-baseline forward returns.

Main takeaways:

- Primary data: Yahoo Finance GC=F / COMEX Gold Futures, 2000-08-30 to 2026-06-05, 6,465 daily candles. Yahoo did not return a usable XAUUSD=X series in the run, so futures are the primary proxy.
- Major regime labels: 4 drawdown cycles of at least 20%, with bear/pressure days equal to 29.374% of the sample.
- Gold is not S&P 500. Stress themes are not automatically bearish because Gold can receive safe-haven flows. The best practical reading is four buckets: pressure/volatility, peak-risk, bottom/reversal watch, and constructive support.
- The most consistent constructive forward-return themes in this run include jupiter_saturn, sun_venus, outer-outer soft themes, and selected Mars/Saturn or Mars/Uranus sextile/trine features.
- The clearest instability/underperformance candidate is jupiter_uranus, especially around 30-day horizons, where test-period behavior lagged baseline.
- The 2026-2031 future table is a watchlist, not a forecast. 2027 has the densest mix of peak-risk and constructive windows; it should be monitored as a high-information year rather than interpreted one-directionally.

2 Research Questions

1. Which large-cycle aspect themes are over-represented during Gold bear/pressure regimes?
2. Which themes cluster around historically defined peak-risk and bottom/reversal windows?
3. Which exact aspect windows show same-direction train/test forward-return edges versus Gold baseline?
4. Can those findings be converted into a simple 5-year watchlist without pretending to predict price?

3 Data Provenance

Item	Value
Primary asset	GC=F / COMEX Gold Futures via Yahoo Finance
Requested start	1990-01-01
Actual start	2000-08-30
Actual end	2026-06-05
Candles	6,465
Train/test split	Train through 2013-12-31 (3,341 candles); test after (3,124 candles)
Validation proxies	GLD, IAU summary checks
Library	hermetic-alpha / hermetic-alpha-library v0.1.1 workspace

Why GC=F: the first attempted spot-like Yahoo symbol, XAUUSD=X, returned a market-data provider error. GC=F is not identical to spot XAU/USD; it can include futures contract and roll artifacts. The result should be treated as a Gold-proxy study until a cleaner spot source is added.

4 Methodology

4.1 Aspect event construction

- Generate daily planetary positions over the asset date range.
- Scan conjunction, opposition, trine, square, and sextile aspects.
- Collapse consecutive active aspect days into one event window.
- Use the minimum-orb day as the exact event date.
- Map non-trading exact dates to the same or next available Gold candle within a documented 3-calendar-day tolerance.
- Measure forward returns from exact event dates only, avoiding the mistake of counting every active day in a multi-day aspect as an independent observation.

4.2 Universes scanned

Universe	Bodies	Exact windows mapped	Raw aspect days	Feature buckets	Theme buckets
Outer big cycles	jupiter, saturn, uranus, neptune, pluto	179	12431	17	27
Full no-moon scan	sun, mercury, venus, mars, jupiter, saturn, uranus, neptune, pluto	4812	36093	137	107

4.3 Regime labels

Regimes are hindsight labels based on $\geq 20\%$ drawdown cycles. bear is the peak-to-bottom decline. peak_window_30td and bottom_window_30td are +/-30 trading-day windows around detected major peaks/bottoms. pre_peak_30td and post_bottom_30td are one-sided context labels.

4.4 Return scoring

Forward-return horizons are 3, 7, 14, 30, 60, 90, and 180 trading days. Each event return is compared against the same-asset baseline for the same horizon. A candidate is more interesting when train edge and test edge have the same direction, median does not contradict average, and event count is not tiny.

5 Gold Baseline

Horizon	Valid days	Avg	Median	Bullish	Min	Max
3d	6462	0.147%	0.167%	54.287%	-12.809%	13.996%
7d	6458	0.345%	0.393%	56.302%	-14.708%	21.934%
14d	6451	0.688%	0.596%	56.751%	-18.138%	19.523%

Horizon	Valid days	Avg	Median	Bullish	Min	Max
30d	6435	1.479%	1.113%	58.135%	-19.748%	25.620%
60d	6405	2.984%	2.604%	63.700%	-22.165%	33.891%
90d	6375	4.564%	4.223%	68.894%	-24.907%	45.500%
180d	6285	9.350%	8.306%	72.745%	-31.890%	64.646%

Gold has a positive long-run drift in this sample, especially at 90d and 180d horizons. This is why raw positive post-event returns are not sufficient; the event must beat Gold baseline to be interesting.

5.1 Detected $\geq 20\%$ drawdown cycles

Peak	Bottom	Recovery	Max drawdown	Peak-to-bottom trading days
2006-05-11	2006-10-04	2007-09-19	-21.923%	101
2008-03-18	2008-11-13	2009-09-11	-29.735%	168
2011-08-22	2015-12-17	2020-07-23	-44.364%	1088
2020-08-06	2022-09-26	2023-12-01	-20.873%	538

Base day shares:

Label	Share of trading days
bear	29.374%
bottom_window_30td	3.774%
bull	70.626%
peak_window_30td	3.774%
post_bottom_30td	1.918%
pre_peak_30td	1.918%

6 Regime Enrichment Results

The enrichment tables show which aspect/theme buckets appeared inside a regime label more often than the label baseline. Lift > 1 means the bucket appeared more frequently inside that label than random trading days did. The z-score is approximate and used only for screening.

6.1 Bear / pressure: outer big-cycle themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	jupiter_uranus	26	12	46.154%	29.374%	1.571	1.879	14	0.129%	0.490%
2	jupiter_uranus_instability	26	12	46.154%	29.374%	1.571	1.879	14	0.129%	0.490%
3	jupiter_trine	32	11	34.375%	29.374%	1.170	0.621	90	-1.494%	-0.970%
4	jupiter_sextile	14	8	33.333%	29.374%	1.135	0.426	14	1.132%	0.003%
5	saturn_trine	24	8	33.333%	29.374%	1.135	0.426	180	-1.735%	-6.188%
6	aspect:square	44	14	31.818%	29.374%	1.083	0.356	180	1.978%	2.248%
7	planet:uranus	54	17	31.481%	29.374%	1.072	0.340	90	0.077%	2.615%
8	aspect:sextile	14	13	31.707%	29.374%	1.079	0.328	60	3.007%	2.432%
9	aspect_family:soft	92	28	30.435%	29.374%	1.036	0.223	60	0.983%	1.329%
10	pair_family:outer_outer_soft	92	28	30.435%	29.374%	1.036	0.223	60	0.983%	1.329%

6.2 Bear / pressure: full no-moon themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	jupiter_uranus	26	12	46.154%	29.374%	1.571	1.879	30	-0.643%	-2.276%
2	jupiter_uranus_instability	26	12	46.154%	29.374%	1.571	1.879	30	-0.643%	-2.276%
3	neptune_opposition	104	39	37.500%	29.374%	1.277	1.820	30	-0.378%	-1.525%
4	pluto_trine	196	68	34.694%	29.374%	1.181	1.635	60	-0.348%	-1.397%
5	saturn_conjunction	97	34	35.052%	29.374%	1.193	1.228	180	1.526%	0.977%
6	uranus_opposition	104	36	34.615%	29.374%	1.178	1.174	90	2.935%	1.735%
7	pluto_square	209	68	32.536%	29.374%	1.108	1.004	60	-0.037%	-0.785%
8	venus_opposition	143	47	32.867%	29.374%	1.119	0.917	60	-0.640%	-1.376%
9	mars_pluto	119	39	32.773%	29.374%	1.116	0.814	30	-0.978%	-0.690%
10	uranus_trine	204	65	31.863%	29.374%	1.085	0.781	90	0.135%	0.608%

6.3 Peak-risk window: outer big-cycle themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	jupiter_uranus	26	2	7.692%	3.774%	2.038	1.048	14	0.129%	0.490%
2	jupiter_uranus_instability	26	2	7.692%	3.774%	2.038	1.048	14	0.129%	0.490%
3	planet:uranus	54	3	5.556%	3.774%	1.472	0.687	90	0.077%	2.615%
4	planet:pluto	60	3	5.000%	3.774%	1.325	0.498	90	0.394%	2.102%
5	aspect:sextile	14	2	4.878%	3.774%	1.292	0.371	60	3.007%	2.432%
6	aspect_family:soft	92	4	4.348%	3.774%	1.152	0.289	60	0.983%	1.329%
7	pair_family:outer_outer_soft	92	4	4.348%	3.774%	1.152	0.289	60	0.983%	1.329%
8	outer_soft_release	92	4	4.348%	3.774%	1.152	0.289	60	0.983%	1.329%
9	aspect:square	44	2	4.545%	3.774%	1.204	0.268	180	1.978%	2.248%

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
10	jupiter_sextile	14	1	4.167%	3.774%	1.104	0.101	14	1.132%	0.003%

6.4 Peak-risk window: full no-moon themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	pluto_opposition	103	9	8.738%	3.774%	2.315	2.643	180	1.308%	1.966%
2	aspect:opposition	516	29	5.620%	3.774%	1.489	2.200	3	0.030%	0.110%
3	mars_square	252	15	5.952%	3.774%	1.577	1.814	7	0.603%	0.104%
4	sun_opposition	135	9	6.667%	3.774%	1.766	1.764	3	0.481%	0.183%
5	mercury_opposition	157	10	6.369%	3.774%	1.688	1.706	90	1.021%	0.659%
6	mercury_trine	329	18	5.471%	3.774%	1.450	1.615	60	0.624%	0.508%
7	jupiter_opposition	110	7	6.364%	3.774%	1.686	1.425	180	-0.346%	-2.039%
8	pluto_trine	196	11	5.612%	3.774%	1.487	1.350	60	-0.348%	-1.397%
9	mars_mercury	196	11	5.612%	3.774%	1.487	1.350	7	0.004%	-0.228%
10	venus_opposition	143	8	5.594%	3.774%	1.482	1.142	60	-0.640%	-1.376%

6.5 Pre-peak 30 trading days: outer big-cycle themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	planet:uranus	54	2	3.704%	1.918%	1.931	0.957	90	0.077%	2.615%
2	jupiter_uranus	26	1	3.846%	1.918%	2.005	0.717	14	0.129%	0.490%
3	jupiter_uranus_instability	26	1	3.846%	1.918%	2.005	0.717	14	0.129%	0.490%
4	jupiter_trine	32	1	3.125%	1.918%	1.629	0.498	90	-1.494%	-0.970%
5	aspect:square	44	1	2.273%	1.918%	1.185	0.172	180	1.978%	2.248%
6	aspect:trine	51	1	1.961%	1.918%	1.022	0.022	180	-0.580%	-3.745%
7	planet:pluto	60	1	1.667%	1.918%	0.869	-0.142	90	0.394%	2.102%
8	aspect_family:hard	84	1	1.190%	1.918%	0.621	-0.486	180	3.563%	0.972%
9	pair_family:outer_outer_hard	84	1	1.190%	1.918%	0.621	-0.486	180	3.563%	0.972%
10	outer_hard_pressure	84	1	1.190%	1.918%	0.621	-0.486	180	3.563%	0.972%

6.6 Pre-peak 30 trading days: full no-moon themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	pluto_opposition	103	6	5.825%	1.918%	3.037	2.891	180	1.308%	1.966%
2	mars_pluto_conjuction	63	3	4.762%	1.918%	2.483	1.646	180	-0.121%	-0.561%

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
3	aspect:opposi116on	15		2.907%	1.918%	1.516	1.638	3	0.030%	0.110%
4	sun_opposition135	5		3.704%	1.918%	1.931	1.513	3	0.481%	0.183%
5	saturn_opposi101on	4		3.960%	1.918%	2.065	1.496	60	-0.663%	-1.010%
6	neptune_conj105tion	4		3.810%	1.918%	1.986	1.413	90	-3.509%	-1.148%
7	mars_mercury196	6		3.061%	1.918%	1.596	1.167	7	0.004%	-0.228%
8	mercury_oppos157ion	5		3.185%	1.918%	1.660	1.157	90	1.021%	0.659%
9	mars_sextile253	7		2.767%	1.918%	1.443	0.984	180	0.661%	1.406%
10	sun_sextile 271	7		2.583%	1.918%	1.347	0.798	30	0.392%	0.541%

6.7 Bottom / reversal window: outer big-cycle themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	aspect:square44	5		11.364%	3.774%	3.011	2.642	180	1.978%	2.248%
2	aspect_family84hard	6		7.143%	3.774%	1.893	1.620	180	3.563%	0.972%
3	pair_family:84outer_outer_hard	6		7.143%	3.774%	1.893	1.620	180	3.563%	0.972%
4	outer_hard_p84essure	6		7.143%	3.774%	1.893	1.620	180	3.563%	0.972%
5	planet:uranus54	4		7.407%	3.774%	1.963	1.401	90	0.077%	2.615%
6	planet:neptune55	4		7.273%	3.774%	1.927	1.361	180	2.377%	5.787%
7	jupiter_uran26	2		7.692%	3.774%	2.038	1.048	14	0.129%	0.490%
8	jupiter_uran26instability	2		7.692%	3.774%	2.038	1.048	14	0.129%	0.490%
9	pair_family:176outer_outer	9		5.114%	3.774%	1.355	0.932	180	1.477%	1.741%
10	jupiter_square30	2		6.667%	3.774%	1.766	0.831	180	3.741%	6.657%

6.8 Bottom / reversal window: full no-moon themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	uranus_trine204	15		7.353%	3.774%	1.948	2.682	90	0.135%	0.608%
2	pair_family:84outer_outer_hard	7		8.333%	3.774%	2.208	2.193	180	3.417%	0.418%
3	neptune_square212	14		6.604%	3.774%	1.750	2.162	60	1.160%	1.153%
4	pluto_conjuncti101on	7		6.931%	3.774%	1.836	1.665	30	1.653%	1.596%
5	jupiter_sextile102	12		5.941%	3.774%	1.574	1.616	14	-0.192%	-0.390%
6	pair_family:1612r_personal_soft	73		4.529%	3.774%	1.200	1.589	14	-0.036%	-0.292%
7	uranus_opposi104on	7		6.731%	3.774%	1.783	1.582	90	2.935%	1.735%
8	outer_soft_re1678ase	75		4.470%	3.774%	1.184	1.495	14	-0.050%	-0.241%
9	aspect:square1017	47		4.621%	3.774%	1.224	1.418	7	0.284%	0.035%
10	aspect:trine972	45		4.630%	3.774%	1.227	1.400	7	-0.031%	-0.136%

6.9 Post-bottom 30 trading days: outer big-cycle themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	aspect:square	44	3	6.818%	1.918%	3.555	2.370	180	1.978%	2.248%
2	planet:uranus	54	3	5.556%	1.918%	2.897	1.949	90	0.077%	2.615%
3	aspect_family:hard	84	3	3.571%	1.918%	1.862	1.105	180	3.563%	0.972%
4	pair_family:outer_outer_hard	84	3	3.571%	1.918%	1.862	1.105	180	3.563%	0.972%
5	outer_hard_pressure	84	3	3.571%	1.918%	1.862	1.105	180	3.563%	0.972%
6	jupiter_sextile	14	1	4.167%	1.918%	2.172	0.803	14	1.132%	0.003%
7	jupiter_uranus	26	1	3.846%	1.918%	2.005	0.717	14	0.129%	0.490%
8	jupiter_uranus_instability	26	1	3.846%	1.918%	2.005	0.717	14	0.129%	0.490%
9	jupiter_saturn	27	1	3.704%	1.918%	1.931	0.676	180	2.890%	7.260%
10	jupiter_square	30	1	3.333%	1.918%	1.738	0.565	180	3.741%	6.657%

6.10 Post-bottom 30 trading days: full no-moon themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	pluto_conjunction	101	6	5.941%	1.918%	3.097	2.947	30	1.653%	1.596%
2	mars_conjunction	134	6	4.478%	1.918%	2.334	2.160	90	-0.943%	-1.358%
3	saturn_square	203	8	3.941%	1.918%	2.055	2.101	3	0.052%	0.061%
4	uranus_square	209	8	3.828%	1.918%	1.996	2.013	180	1.161%	0.148%
5	neptune_square	212	8	3.774%	1.918%	1.967	1.970	60	1.160%	1.153%
6	sun_venus	32	2	6.250%	1.918%	3.259	1.787	60	0.429%	2.246%
7	sun_venus_ref	32	2	6.250%	1.918%	3.259	1.787	60	0.429%	2.246%
8	aspect:square	2017	27	2.655%	1.918%	1.384	1.713	7	0.284%	0.035%
9	venus_conjunction	240	8	3.333%	1.918%	1.738	1.599	60	0.522%	0.461%
10	aspect:conjunction	757	20	2.642%	1.918%	1.377	1.452	180	-0.250%	-0.619%

6.11 Bull / constructive background: outer big-cycle themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	aspect:opposition	26	21	80.769%	70.626%	1.144	1.135	30	-0.330%	0.080%
2	jupiter_neptune	31	24	77.419%	70.626%	1.096	0.830	180	3.810%	1.142%
3	jupiter_neptune_liquidity	31	24	77.419%	70.626%	1.096	0.830	180	3.810%	1.142%
4	jupiter_square	30	23	76.667%	70.626%	1.086	0.726	180	3.741%	6.657%
5	jupiter_pluto	30	23	76.667%	70.626%	1.086	0.726	3	0.031%	0.089%
6	jupiter_pluto_power	30	23	76.667%	70.626%	1.086	0.726	3	0.031%	0.089%

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
7	aspect_family:hard	84	62	73.810%	70.626%	1.045	0.641	180	3.563%	0.972%
8	pair_family:outer_outer_hard	84	62	73.810%	70.626%	1.045	0.641	180	3.563%	0.972%
9	outer_hard_pressure	84	62	73.810%	70.626%	1.045	0.641	180	3.563%	0.972%
10	planet:saturn	74	54	72.973%	70.626%	1.033	0.443	180	1.723%	5.675%

6.12 Bull / constructive background: full no-moon themes

Rank	Bucket	Events	Inside label	Rate	Baseline	Lift	z	Best h	Train edge	Test edge
1	neptune_conjunction	105	81	77.143%	70.626%	1.092	1.466	90	-3.509%	-1.148%
2	saturn_opposition	101	77	76.238%	70.626%	1.079	1.238	60	-0.663%	-1.010%
3	neptune_sextile	108	155	74.519%	70.626%	1.055	1.233	60	0.273%	1.160%
4	saturn_trine	210	156	74.286%	70.626%	1.052	1.164	180	-0.167%	-1.099%
5	planet:mercury	1445	1040	71.972%	70.626%	1.019	1.123	60	0.553%	0.052%
6	pluto_sextile	219	162	73.973%	70.626%	1.047	1.087	7	-0.269%	-0.043%
7	uranus_conjunction	102	77	75.490%	70.626%	1.069	1.078	90	-1.593%	-1.518%
8	uranus_sextile	105	151	73.659%	70.626%	1.043	0.953	180	0.591%	0.897%
9	aspect:sextile	1051	755	71.836%	70.626%	1.017	0.861	90	0.104%	0.498%
10	jupiter_neptune	31	24	77.419%	70.626%	1.096	0.830	180	3.810%	1.142%

7 Forward-Return Results

These tables rank candidates by robust same-direction train/test edge. Positive candidates are not necessarily trade signals; they are hypothesis candidates for further validation. Negative candidates are underperformance or caution themes versus Gold baseline.

7.1 Robust bullish / constructive themes

Rank	Bucket	Events	Best horizon	Train edge	Test edge	Avg return	Median	Bullish	Median agrees
1	jupiter_saturn	27	180d	2.775%	7.260%	14.023%	12.098%	80.769%	yes
2	sun_venus	32	60d	0.429%	2.246%	4.321%	4.514%	81.250%	yes
3	sun_venus_relf	32	60d	0.429%	2.246%	4.321%	4.514%	81.250%	yes
4	pluto_opposition	103	180d	1.308%	1.966%	10.965%	8.925%	77.670%	yes
5	uranus_opposition	104	90d	2.935%	1.735%	6.922%	6.805%	77.885%	yes
6	pluto_conjunction	101	30d	1.653%	1.596%	3.104%	2.989%	69.307%	yes
7	pair_family:outer_outer	176	180d	1.348%	1.558%	10.794%	9.658%	73.529%	yes
8	saturn_sextile	206	90d	0.953%	1.468%	5.778%	5.436%	73.267%	yes

Rank	Bucket	Events	Best horizon	Train edge	Test edge	Avg return	Median	Bullish	Median agrees
9	neptune_trine	202	180d	0.272%	1.463%	10.139%	9.258%	74.490%	yes
10	mars_sextile	253	180d	0.661%	1.406%	10.355%	9.793%	74.899%	yes
11	pair_family:outer_outer_solar	60d		1.061%	1.384%	4.203%	2.667%	66.667%	yes
12	neptune_sextile	108	60d	0.273%	1.160%	3.696%	3.040%	69.118%	yes
13	neptune_square	212	60d	1.160%	1.153%	4.141%	3.493%	67.619%	yes
14	jupiter_neptune	34	180d	3.810%	1.142%	12.042%	10.761%	83.871%	yes
15	jupiter_neptune_liquidity	34	180d	3.810%	1.142%	12.042%	10.761%	83.871%	yes
16	mercury_venus	120	180d	0.114%	1.068%	9.929%	9.724%	76.923%	yes
17	mars_uranus	119	180d	0.849%	1.031%	10.283%	9.793%	74.783%	yes
18	saturn_conjunction	97	180d	1.526%	0.977%	10.622%	9.884%	67.742%	yes

7.2 Robust bearish / underperforming themes

Rank	Bucket	Events	Best horizon	Train edge	Test edge	Avg return	Median	Bullish	Median agrees
1	jupiter_uranus	26	30d	-0.643%	-2.276%	0.208%	-0.281%	42.308%	yes
2	jupiter_uranus_instability	26	30d	-0.643%	-2.276%	0.208%	-0.281%	42.308%	yes
3	jupiter_opposition	100	180d	-0.346%	-2.039%	8.268%	6.895%	67.593%	yes
4	neptune_opposition	104	30d	-0.378%	-1.525%	0.594%	0.697%	56.731%	yes
5	uranus_conjunction	102	90d	-1.593%	-1.518%	3.005%	2.016%	61.616%	yes
6	pluto_trine	196	60d	-0.348%	-1.397%	2.142%	2.050%	61.658%	yes
7	venus_opposition	143	60d	-0.640%	-1.376%	1.994%	2.227%	59.441%	yes
8	mars_conjunction	134	90d	-0.943%	-1.358%	3.425%	3.498%	72.093%	yes
9	neptune_conjunction	105	90d	-3.509%	-1.148%	2.236%	2.533%	61.000%	yes
10	saturn_trine	210	180d	-0.167%	-1.099%	8.772%	8.554%	74.510%	no
11	jupiter_mars	107	180d	-0.994%	-1.028%	8.342%	6.654%	69.903%	yes
12	saturn_opposition	100	60d	-0.663%	-1.010%	2.180%	2.241%	61.386%	yes
13	mars_uranus_square	50	14d	-0.093%	-0.903%	0.197%	0.780%	55.932%	no
14	pluto_square	209	60d	-0.037%	-0.785%	2.593%	2.098%	62.927%	yes
15	venus_square	291	180d	-0.692%	-0.695%	8.657%	7.902%	71.174%	yes
16	mars_pluto	119	30d	-0.978%	-0.690%	0.640%	0.757%	55.085%	yes
17	neptune_venus	220	180d	-0.261%	-0.681%	8.898%	8.532%	70.423%	no
18	aspect:conjunction	757	180d	-0.250%	-0.619%	8.925%	8.106%	71.272%	yes

7.3 Robust bullish exact features

Rank	Bucket	Events	Best horizon	Train edge	Test edge	Avg return	Median	Bullish	Median agrees
1	jupiter_saturn	square	180d	5.587%	16.919%	22.020%	18.777%	87.500%	yes
2	mars_uranus	sextile	180d	4.249%	5.249%	14.051%	10.844%	87.097%	yes
3	mars_saturn	opposition	180d	0.226%	4.831%	11.701%	8.576%	84.615%	yes
4	mars_saturn	trine	180d	3.015%	4.740%	13.200%	13.144%	90.323%	yes
5	mercury_pluto	opposition	180d	2.452%	4.156%	12.686%	11.787%	77.778%	yes
6	mars_sun	sextile	180d	1.018%	3.846%	11.664%	10.913%	79.167%	yes
7	mercury_neptune	trine	180d	0.445%	3.614%	11.216%	10.282%	74.138%	yes
8	saturn_venus	conjunction	180d	4.246%	3.198%	13.130%	13.039%	70.370%	yes
9	mars_uranus	opposition	90d	1.541%	3.165%	6.917%	7.384%	75.000%	yes
10	mercury_venus	sextile	180d	1.388%	2.799%	11.419%	10.432%	86.207%	yes
11	mars_saturn	sextile	30d	2.162%	2.780%	3.906%	5.156%	82.143%	yes
12	pluto_sun	conjunction	60d	1.720%	2.709%	5.198%	5.183%	76.923%	yes
13	saturn_sun	conjunction	90d	1.298%	2.674%	6.493%	4.478%	83.333%	yes
14	mars_venus	trine	180d	1.149%	2.616%	11.255%	10.582%	69.697%	yes
15	mercury_saturn	conjunction	180d	0.267%	2.409%	10.546%	9.064%	73.333%	yes
16	neptune_sun	square	180d	1.582%	2.381%	11.300%	7.211%	76.000%	no
17	mars_venus	sextile	90d	0.515%	2.292%	5.968%	2.908%	65.625%	no
18	jupiter_mercury	trine	60d	0.444%	2.290%	4.427%	4.569%	65.574%	yes

7.4 Robust bearish exact features

Rank	Bucket	Events	Best horizon	Train edge	Test edge	Avg return	Median	Bullish	Median agrees
1	pluto_uranus	square	180d	-17.602%	-9.468%	-4.765%	-5.466%	14.286%	yes
2	mars_saturn	conjunction	180d	-0.231%	-8.545%	4.962%	2.554%	50.000%	yes
3	jupiter_neptune	trine	60d	-2.549%	-4.321%	-0.156%	0.222%	55.556%	yes
4	neptune_sun	conjunction	180d	-3.324%	-4.286%	5.565%	5.418%	68.000%	yes
5	uranus_venus	conjunction	180d	-3.558%	-3.616%	5.764%	4.010%	72.000%	yes
6	mars_uranus	conjunction	60d	-0.113%	-3.576%	1.387%	2.002%	57.143%	yes
7	pluto_venus	opposition	60d	-1.163%	-3.437%	0.810%	0.620%	51.852%	yes
8	mars_neptune	conjunction	90d	-3.216%	-3.338%	1.292%	2.353%	76.923%	yes
9	jupiter_pluto	trine	180d	-2.976%	-3.158%	6.293%	8.633%	66.667%	no
10	sun_uranus	conjunction	180d	-1.243%	-3.084%	7.224%	7.541%	72.000%	yes
11	mars_neptune	sextile	90d	-1.205%	-2.820%	2.582%	0.377%	55.556%	yes
12	saturn_sun	trine	180d	-0.177%	-2.687%	7.995%	9.879%	73.469%	no
13	pluto_venus	conjunction	180d	-1.316%	-2.686%	7.375%	4.321%	62.963%	yes
14	mars_venus	square	180d	-2.340%	-2.667%	6.847%	4.307%	64.706%	yes
15	pluto_sun	trine	60d	-0.009%	-2.654%	1.706%	3.244%	60.000%	no

Rank	Bucket	Events	Best horizon	Train edge	Test edge	Avg return	Median	Bullish	Median agrees
16	mercury_uranus	33conjunction	180d	-1.386%	-2.574%	7.444%	7.226%	78.125%	yes
17	jupiter_uranus	8_trine	30d	-5.238%	-2.572%	-2.426%	-2.930%	25.000%	yes
18	mercury_saturn	27opposition	180d	-2.184%	-2.362%	7.091%	6.826%	73.077%	yes

8 Headline Candidate Profiles

8.0.1 Horizon profile: jupiter_saturn

Horizon	Baseline avg	Train avg	Train edge	Test avg	Test edge	All median	All bullish	Same direction
3d	0.147%	0.477%	0.330%	-0.051%	-0.198%	0.073%	59.259%	no
7d	0.345%	2.638%	2.293%	0.937%	0.592%	2.382%	66.667%	yes
14d	0.688%	3.802%	3.114%	1.536%	0.848%	2.471%	70.370%	yes
30d	1.479%	5.429%	3.950%	3.319%	1.840%	5.408%	77.778%	yes
60d	2.984%	4.359%	1.375%	6.317%	3.333%	5.643%	70.370%	yes
90d	4.564%	7.574%	3.009%	7.315%	2.750%	6.574%	77.778%	yes
180d	9.350%	12.125%	2.775%	16.610%	7.260%	12.098%	80.769%	yes

8.0.2 Horizon profile: sun_venus

Horizon	Baseline avg	Train avg	Train edge	Test avg	Test edge	All median	All bullish	Same direction
3d	0.147%	-0.340%	-0.488%	0.228%	0.081%	-0.297%	46.875%	no
7d	0.345%	-0.088%	-0.433%	0.564%	0.219%	0.435%	56.250%	no
14d	0.688%	0.762%	0.073%	3.043%	2.354%	1.810%	68.750%	yes
30d	1.479%	1.314%	-0.165%	4.243%	2.764%	3.391%	75.000%	no
60d	2.984%	3.413%	0.429%	5.230%	2.246%	4.514%	81.250%	yes
90d	4.564%	5.136%	0.571%	3.695%	-0.869%	4.333%	78.125%	no
180d	9.350%	9.236%	-0.114%	8.421%	-0.930%	11.637%	74.194%	yes

8.0.3 Horizon profile: jupiter_uranus

Horizon	Baseline avg	Train avg	Train edge	Test avg	Test edge	All median	All bullish	Same direction
3d	0.147%	0.696%	0.549%	-0.420%	-0.567%	0.118%	53.846%	no
7d	0.345%	1.911%	1.565%	-0.535%	-0.880%	0.820%	61.538%	no
14d	0.688%	0.567%	-0.122%	1.178%	0.490%	0.018%	50.000%	no
30d	1.479%	0.836%	-0.643%	-0.797%	-2.276%	-0.281%	42.308%	yes
60d	2.984%	4.998%	2.014%	-0.688%	-3.672%	1.830%	57.692%	no
90d	4.564%	5.146%	0.581%	2.334%	-2.230%	3.068%	61.538%	no
180d	9.350%	11.027%	1.676%	2.088%	-7.262%	5.197%	57.692%	no

8.0.4 Horizon profile: pluto_uranus_square

Horizon	Baseline avg	Train avg	Train edge	Test avg	Test edge	All median	All bullish	Same direction
3d	0.147%	1.418%	1.271%	2.485%	2.337%	1.570%	85.714%	yes
7d	0.345%	0.997%	0.652%	5.280%	4.935%	1.074%	85.714%	yes
14d	0.688%	0.053%	-0.635%	5.008%	4.320%	1.171%	57.143%	no
30d	1.479%	-2.556%	-4.035%	3.849%	2.370%	-2.858%	42.857%	no
60d	2.984%	-1.303%	-4.287%	5.943%	2.959%	2.752%	57.143%	no
90d	4.564%	-0.871%	-5.436%	2.711%	-1.853%	0.483%	57.143%	yes
180d	9.350%	-8.251%	-17.602%	-0.118%	-9.468%	-5.466%	14.286%	yes

9 Interpretation Map

9.1 1. Pressure / bear watch

The clearest large-cycle pressure candidate is jupiter_uranus. In the outer-cycle scan it had 26 events, with 46.154% inside bear regimes versus a 29.374% bear baseline. It also appeared in peak and bottom windows at roughly 2x baseline, which makes it an instability marker rather than a simple bearish signal. In forward returns, jupiter_uranus was a same-direction underperformer at the 30d horizon in the full no-moon theme screen.

Other pressure-enriched full-scan themes include neptune_opposition, pluto_trine, saturn_conjunction, uranus_opposition, pluto_square, and venus_opposition. These should be read as volatility and stress markers first.

9.2 2. Peak-risk watch

Peak-risk enrichment leans toward opposition/square language: pluto_opposition, broad opposition, mars_square, sun_opposition, mercury_opposition, and jupiter_opposition. In Gold this can mean late-cycle speculative acceleration, macro stress, or exhaustion depending on the prior price path.

9.3 3. Bottom / reversal watch

Bottom-window enrichment is not purely soft. The outer-cycle scan highlights square, hard, and outer_outer_hard, while the full scan highlights uranus_trine, neptune_square, pluto_conjunction, jupiter_sextile, and outer_personal_soft. This supports a reset/rebuild interpretation: Gold bottoms may form around both hard capitulation windows and soft release windows.

9.4 4. Constructive windows

Forward-return candidates make jupiter_saturn the cleanest constructive theme in this run: 27 events, best horizon 180d, train edge +2.775pp, test edge +7.260pp, average return 14.023%, median 12.098%, bullish 80.769%. sun_venus is shorter horizon but also notable: 32 events, best horizon 60d, train edge +0.429pp, test edge +2.246pp, average return 4.321%, median 4.514%, bullish 81.250%.

9.5 5. Gold versus S&P 500

For equities, pressure windows often map more directly to downside risk. For Gold, the same macro-stress window can produce either pressure or a defensive bid. Therefore the Gold framework should not be used as a one-line long/short engine. It is better as a context layer: identify historically interesting dates, then check trend, real rates, USD strength, inflation expectations, liquidity, and geopolitical stress.

10 Validation Proxies: GLD and IAU

The current run includes GLD and IAU as regime/data sanity checks, not full replicated aspect scans. They broadly confirm that ETF Gold proxies have similar major drawdown structure but shorter histories than GC=F.

Asset	Start	End	Candles	Bull share	Bear share	Peak window	Bottom window	Drawdown cycles
GLD	2004-11-18	2026-06-04	5419	66.414%	33.586%	4.503%	4.503%	[{'bottom_close': 55.62, 'bottom_date': '2006-06-14', 'bottom_idx': 394, 'max_drawdown_pct': -21.794, 'peak_close': 71.12, 'peak_date': '2006-05-12', 'peak_idx': 372, 'peak_to_bottom_days': 22, 'recovery_date': '2007-09-18', 'recovery_idx': 711, 'status': 'recovered', 'underwater_trading_days': 340}, {'bottom_close': 70.0, 'bottom_date': '2008-11-12', 'bottom_idx': 1003, 'max_drawdown_pct': -29.414, 'peak_close': 99.17, 'peak_date': '2008-03-17', 'peak_idx': 835, 'peak_to_bottom_days': 168, 'recovery_date': '2009-09-16', 'recovery_idx': 1214, 'status':

Asset	Start	End	Candles	Bull share	Bear share	Peak window	Bottom window	Drawdown cycles
IAU	2005-01-28	2026-06-04	5371	66.301%	33.699%	4.543%	4.543%	[{'bottom_close': 11.12, 'bottom_date': '2006-06-14', 'bottom_idx': 346, 'max_drawdown_pct': -21.987, 'peak_close': 14.254, 'peak_date': '2006-05-11', 'peak_idx': 323, 'peak_to_bottom_days': 23, 'recovery_date': '2007-09-18', 'recovery_idx': 663, 'status': 'recovered', 'underwater_trading_days': 341}, {'bottom_close': 14.068, 'bottom_date': '2008-11-12', 'bottom_idx': 955, 'max_drawdown_pct': -29.228, 'peak_close': 19.878, 'peak_date': '2008-03-17', 'peak_idx': 787, 'peak_to_bottom_days': 168, 'recovery_date': '2009-09-16', 'recovery_idx': 1166, 'status':

Asset	Start	End	Candles	Bull share	Bear share	Peak window	Bottom window	Drawdown cycles
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Next validation should run the complete event/return scan on GLD, IAU, GDX, GDXJ, UUP, and TLT, then test whether the same frozen Gold rules remain directionally useful.

11 Five-Year Projection Watchlist: 2026-2031

The future projection freezes the historical interpretation map into category rules and applies it to future exact aspect windows. It is not a price forecast. It is a dated research checklist.

Item	Value
Projection start	2026-06-06
Projection end	2031-06-05
Future exact aspect windows generated	936
Classified watchlist windows	259

11.1 Category counts by year

Year	Peak-risk	Pressure	Bottom/reversal watch	Constructive window
2026	8	11	4	8
2027	21	14	5	21
2028	15	12	7	16
2029	16	13	3	18
2030	17	13	4	18
2031	9	2	1	8

Interpretation: 2027 is the busiest year by both peak-risk and constructive markers. That does not mean “up” or “down”; it means more historically interesting windows where Gold should be monitored closely. 2028-2030 remain active but more balanced. 2031 is partial-year only in this projection.

11.2 Category definitions

- `peak_risk`: euphoria, instability, exhaustion, or fragile-structure candidates.
- `pressure`: stress, drawdown, volatility, or macro-risk candidates. In Gold, pressure may also coincide with safe-haven demand.
- `bottom_reversal_watch`: capitulation, reset, or rebuild candidates; most useful after a preceding decline.
- `constructive_bull_window`: historically supportive or relief-oriented candidates, not standalone buy signals.

11.3 Highest-score highlights by year

11.3.1 2026

Exact date	Window	Feature	Categories	Score
2026-09-01	2026-08-23 to 2026-09-10	jupiter_saturn_trine	bottom_reversal_watch, constructive_bull_window	5.099
2026-06-26	2026-06-24 to 2026-06-28	neptune_sun_square	peak_risk	4.098
2026-08-29	2026-08-27 to 2026-08-31	sun_uranus_square	peak_risk	4.097
2026-12-05	2026-11-29 to 2026-12-11	mars_uranus_square	peak_risk	4.097
2026-08-17	2026-08-14 to 2026-08-21	mars_neptune_square	peak_risk	4.089
2026-12-27	2026-12-26 to 2026-12-28	mercury_neptune_square	peak_risk	4.089
2026-07-14	2026-07-12 to 2026-07-15	uranus_venus_square	peak_risk	4.083
2026-12-23	2026-12-22 to 2026-12-25	neptune_sun_square	peak_risk	4.080

11.3.2 2027

Exact date	Window	Feature	Categories	Score
2027-07-12	2027-06-21 to 2027-07-27	jupiter_saturn_trine	bottom_reversal_watch, constructive_bull_window	5.100
2027-04-04	2027-03-21 to 2027-04-23	jupiter_saturn_trine	bottom_reversal_watch, constructive_bull_window	5.097
2027-05-29	2027-05-23 to 2027-06-04	mars_uranus_square	peak_risk	4.099
2027-02-17	2027-02-15 to 2027-02-19	mercury_uranus_square	peak_risk	4.098
2027-12-01	2027-11-28 to 2027-12-04	mars_neptune_square	peak_risk	4.098
2027-06-11	2027-06-03 to 2027-06-19	mercury_neptune_square	peak_risk	4.097
2027-09-11	2027-08-30 to 2027-09-22	jupiter_uranus_square	peak_risk	4.097
2027-12-26	2027-12-24 to 2027-12-28	neptune_sun_square	peak_risk	4.097
2027-02-17	2027-02-11 to 2027-02-23	mars_uranus_square	peak_risk	4.096
2027-12-21	2027-12-20 to 2027-12-22	mercury_neptune_square	peak_risk	4.096
2027-09-10	2027-09-07 to 2027-09-13	mars_pluto_square	peak_risk	4.094
2027-02-06	2027-02-04 to 2027-02-07	neptune_venus_square	peak_risk	4.088

11.3.3 2028

Exact date	Window	Feature	Categories	Score
2028-09-24	2028-09-14 to 2028-10-05	jupiter_pluto_trine	bottom_reversal_watch, constructive_bull_window	5.097
2028-08-03	2028-07-31 to 2028-08-06	mars_neptune_square	peak_risk	4.098

Exact date	Window	Feature	Categories	Score
2028-02-25	2028-02-23 to 2028-02-27	sun_uranus_square	peak_risk	4.096
2028-06-30	2028-06-28 to 2028-07-02	neptune_sun_square	peak_risk	4.095
2028-02-18	2028-02-16 to 2028-02-21	mars_uranus_square	peak_risk	4.094
2028-07-14	2028-07-13 to 2028-07-15	mercury_neptune_square	peak_risk	4.094
2028-05-10	2028-05-07 to 2028-05-13	mars_pluto_square	peak_risk	4.092
2028-11-16	2028-11-12 to 2028-11-20	mars_uranus_square	peak_risk	4.092
2028-09-06	2028-09-04 to 2028-09-08	sun_uranus_square	peak_risk	4.091
2028-10-14	2028-10-13 to 2028-10-16	uranus_venus_square	peak_risk	4.088
2028-12-27	2028-12-25 to 2028-12-29	neptune_sun_square	peak_risk	4.085
2028-08-17	2028-08-15 to 2028-08-18	neptune_venus_square	peak_risk	4.080

11.3.4 2029

Exact date	Window	Feature	Categories	Score
2029-03-13	2029-03-12 to 2029-03-14	mercury_uranus_square	peak_risk	4.098
2029-08-22	2029-08-19 to 2029-08-25	mars_pluto_square	peak_risk	4.097
2029-09-11	2029-09-09 to 2029-09-13	sun_uranus_square	peak_risk	4.097
2029-06-11	2029-06-09 to 2029-06-12	neptune_venus_square	peak_risk	4.095
2029-01-13	2029-01-12 to 2029-01-15	neptune_venus_square	peak_risk	4.093
2029-09-29	2029-09-19 to 2029-10-01	mercury_uranus_square	peak_risk	4.093
2029-12-10	2029-12-09 to 2029-12-12	mercury_neptune_square	peak_risk	4.092
2029-12-30	2029-12-28 to 2030-01-01	neptune_sun_square	peak_risk	4.092
2029-08-05	2029-08-04 to 2029-08-07	uranus_venus_square	peak_risk	4.091
2029-07-03	2029-07-01 to 2029-07-05	neptune_sun_square	peak_risk	4.089
2029-03-05	2029-03-04 to 2029-03-07	uranus_venus_square	peak_risk	4.087
2029-08-14	2029-08-12 to 2029-08-15	mercury_uranus_square	peak_risk	4.087

11.3.5 2030

Exact date	Window	Feature	Categories	Score
2030-01-30	2030-01-17 to 2030-02-08	neptune_venus_square	peak_risk	4.100
2030-02-08	2030-02-05 to 2030-02-11	mars_uranus_square	peak_risk	4.100
2030-01-23	2030-01-21 to 2030-01-25	mercury_neptune_square	peak_risk	4.099
2030-11-08	2030-11-05 to 2030-11-12	mars_uranus_square	peak_risk	4.099
2030-09-23	2030-09-22 to 2030-09-25	uranus_venus_square	peak_risk	4.097
2030-12-18	2030-12-17 to 2030-12-20	neptune_venus_square	peak_risk	4.097
2030-03-05	2030-03-03 to 2030-03-07	sun_uranus_square	peak_risk	4.095

Exact date	Window	Feature	Categories	Score
2030-04-20	2030-04-18 to 2030-04-22	uranus_venus_square	peak_risk	4.093
2030-07-22	2030-07-18 to 2030-07-25	mars_neptune_square	peak_risk	4.090
2030-01-02	2029-12-31 to 2030-01-03	mercury_neptune_square	peak_risk	4.089
2030-06-29	2030-06-28 to 2030-06-30	mercury_neptune_square	peak_risk	4.089
2030-07-05	2030-07-03 to 2030-07-07	neptune_sun_square	peak_risk	4.088

11.3.6 2031

Exact date	Window	Feature	Categories	Score
2031-01-21	2031-01-10 to 2031-02-01	jupiter_uranus_opposition	peak_risk, pressure	7.096
2031-05-05	2031-04-29 to 2031-05-11	mars_pluto_square	peak_risk	4.098
2031-05-21	2031-05-19 to 2031-05-23	neptune_venus_square	peak_risk	4.097
2031-01-20	2031-01-19 to 2031-01-21	mercury_neptune_square	peak_risk	4.093
2031-02-13	2031-02-06 to 2031-02-20	mars_pluto_square	peak_risk	4.093
2031-02-11	2031-02-09 to 2031-02-12	uranus_venus_square	peak_risk	4.092
2031-01-01	2030-12-30 to 2031-01-03	neptune_sun_square	peak_risk	4.090
2031-03-10	2031-03-08 to 2031-03-12	sun_uranus_square	peak_risk	4.088

11.4 Full classified highlight table

Exact date	Window	Feature	Categories	Score
2026-06-26	2026-06-24 to 2026-06-28	neptune_sun_square	peak_risk	4.098
2026-07-14	2026-07-12 to 2026-07-15	uranus_venus_square	peak_risk	4.083
2026-08-17	2026-08-14 to 2026-08-21	mars_neptune_square	peak_risk	4.089
2026-08-29	2026-08-27 to 2026-08-31	sun_uranus_square	peak_risk	4.097
2026-09-01	2026-08-23 to 2026-09-10	jupiter_saturn_trine	bottom_reversal_watch, constructive_bull_window	5.099
2026-12-05	2026-11-29 to 2026-12-11	mars_uranus_square	peak_risk	4.097
2026-12-23	2026-12-22 to 2026-12-25	neptune_sun_square	peak_risk	4.080
2026-12-27	2026-12-26 to 2026-12-28	mercury_neptune_square	peak_risk	4.089
2027-02-03	2027-02-01 to 2027-02-05	mercury_uranus_square	peak_risk	4.079
2027-02-06	2027-02-04 to 2027-02-07	neptune_venus_square	peak_risk	4.088
2027-02-17	2027-02-15 to 2027-02-19	mercury_uranus_square	peak_risk	4.098
2027-02-17	2027-02-11 to 2027-02-23	mars_uranus_square	peak_risk	4.096
2027-02-21	2027-02-19 to 2027-02-23	sun_uranus_square	peak_risk	4.085
2027-03-21	2027-03-19 to 2027-03-22	mercury_uranus_square	peak_risk	4.082
2027-03-29	2027-03-27 to 2027-03-30	uranus_venus_square	peak_risk	4.079

Exact date	Window	Feature	Categories	Score
2027-04-04	2027-03-21 to 2027-04-23	jupiter_saturn_trine	bottom_reversal_watch, constructive_bull_window	5.097
2027-05-29	2027-05-23 to 2027-06-04	mars_uranus_square	peak_risk	4.099
2027-06-11	2027-06-03 to 2027-06-19	mercury_neptune_square	peak_risk	4.097
2027-06-29	2027-06-26 to 2027-07-01	neptune_sun_square	peak_risk	4.082
2027-07-12	2027-06-21 to 2027-07-27	jupiter_saturn_trine	bottom_reversal_watch, constructive_bull_window	5.100
2027-07-20	2027-07-18 to 2027-07-21	mercury_neptune_square	peak_risk	4.079
2027-08-29	2027-08-27 to 2027-08-30	uranus_venus_square	peak_risk	4.088
2027-09-03	2027-08-31 to 2027-09-05	sun_uranus_square	peak_risk	4.084
2027-09-10	2027-09-07 to 2027-09-13	mars_pluto_square	peak_risk	4.094
2027-09-11	2027-08-30 to 2027-09-22	jupiter_uranus_square	peak_risk	4.097
2027-11-29	2027-11-27 to 2027-11-30	neptune_venus_square	peak_risk	4.084
2027-12-01	2027-11-28 to 2027-12-04	mars_neptune_square	peak_risk	4.098
2027-12-21	2027-12-20 to 2027-12-22	mercury_neptune_square	peak_risk	4.096
2027-12-26	2027-12-24 to 2027-12-28	neptune_sun_square	peak_risk	4.097
2028-01-18	2028-01-17 to 2028-01-20	uranus_venus_square	peak_risk	4.078
2028-02-18	2028-02-16 to 2028-02-21	mars_uranus_square	peak_risk	4.094
2028-02-25	2028-02-23 to 2028-02-27	sun_uranus_square	peak_risk	4.096
2028-05-10	2028-05-07 to 2028-05-13	mars_pluto_square	peak_risk	4.092
2028-06-30	2028-06-28 to 2028-07-02	neptune_sun_square	peak_risk	4.095
2028-07-14	2028-07-13 to 2028-07-15	mercury_neptune_square	peak_risk	4.094
2028-08-03	2028-07-31 to 2028-08-06	mars_neptune_square	peak_risk	4.098
2028-08-17	2028-08-15 to 2028-08-18	neptune_venus_square	peak_risk	4.080
2028-09-06	2028-09-04 to 2028-09-08	sun_uranus_square	peak_risk	4.091
2028-09-24	2028-09-14 to 2028-10-05	jupiter_pluto_trine	bottom_reversal_watch, constructive_bull_window	5.097
2028-10-14	2028-10-13 to 2028-10-16	uranus_venus_square	peak_risk	4.088
2028-11-16	2028-11-12 to 2028-11-20	mars_uranus_square	peak_risk	4.092
2028-12-14	2028-12-13 to 2028-12-15	mercury_neptune_square	peak_risk	4.080
2028-12-27	2028-12-25 to 2028-12-29	neptune_sun_square	peak_risk	4.085
2029-01-13	2029-01-12 to 2029-01-15	neptune_venus_square	peak_risk	4.093
2029-03-01	2029-02-27 to 2029-03-03	sun_uranus_square	peak_risk	4.084
2029-03-05	2029-03-04 to 2029-03-07	uranus_venus_square	peak_risk	4.087
2029-03-13	2029-03-12 to 2029-03-14	mercury_uranus_square	peak_risk	4.098
2029-06-11	2029-06-09 to 2029-06-12	neptune_venus_square	peak_risk	4.095
2029-07-03	2029-07-01 to 2029-07-05	neptune_sun_square	peak_risk	4.089
2029-08-05	2029-08-04 to 2029-08-07	uranus_venus_square	peak_risk	4.091
2029-08-14	2029-08-12 to 2029-08-15	mercury_uranus_square	peak_risk	4.087
2029-08-22	2029-08-19 to 2029-08-25	mars_pluto_square	peak_risk	4.097
2029-09-11	2029-09-09 to 2029-09-13	sun_uranus_square	peak_risk	4.097

Exact date	Window	Feature	Categories	Score
2029-09-29	2029-09-19 to 2029-10-01	mercury_uranus_square	peak_risk	4.093
2029-11-15	2029-11-13 to 2029-11-18	neptune_venus_square	peak_risk	4.086
2029-11-16	2029-11-13 to 2029-11-18	mars_neptune_square	peak_risk	4.084
2029-12-10	2029-12-09 to 2029-12-12	mercury_neptune_square	peak_risk	4.092
2029-12-30	2029-12-28 to 2030-01-01	neptune_sun_square	peak_risk	4.092
2030-01-02	2029-12-31 to 2030-01-03	mercury_neptune_square	peak_risk	4.089
2030-01-23	2030-01-21 to 2030-01-25	mercury_neptune_square	peak_risk	4.099
2030-01-30	2030-01-17 to 2030-02-08	neptune_venus_square	peak_risk	4.100
2030-02-08	2030-02-05 to 2030-02-11	mars_uranus_square	peak_risk	4.100
2030-03-05	2030-03-03 to 2030-03-07	sun_uranus_square	peak_risk	4.095
2030-04-20	2030-04-18 to 2030-04-22	uranus_venus_square	peak_risk	4.093
2030-04-24	2030-04-21 to 2030-04-27	mars_pluto_square	peak_risk	4.087
2030-06-29	2030-06-28 to 2030-06-30	mercury_neptune_square	peak_risk	4.089
2030-07-05	2030-07-03 to 2030-07-07	neptune_sun_square	peak_risk	4.088
2030-07-22	2030-07-18 to 2030-07-25	mars_neptune_square	peak_risk	4.090
2030-09-16	2030-09-14 to 2030-09-18	sun_uranus_square	peak_risk	4.086
2030-09-23	2030-09-22 to 2030-09-25	uranus_venus_square	peak_risk	4.097
2030-11-08	2030-11-05 to 2030-11-12	mars_uranus_square	peak_risk	4.099
2030-12-18	2030-12-17 to 2030-12-20	neptune_venus_square	peak_risk	4.097
2031-01-01	2030-12-30 to 2031-01-03	neptune_sun_square	peak_risk	4.090
2031-01-20	2031-01-19 to 2031-01-21	mercury_neptune_square	peak_risk	4.093
2031-01-21	2031-01-10 to 2031-02-01	jupiter_uranus_opposition	peak_risk, pressure	7.096
2031-02-11	2031-02-09 to 2031-02-12	uranus_venus_square	peak_risk	4.092
2031-02-13	2031-02-06 to 2031-02-20	mars_pluto_square	peak_risk	4.093
2031-03-10	2031-03-08 to 2031-03-12	sun_uranus_square	peak_risk	4.088
2031-05-05	2031-04-29 to 2031-05-11	mars_pluto_square	peak_risk	4.098
2031-05-21	2031-05-19 to 2031-05-23	neptune_venus_square	peak_risk	4.097

12 Practical Research Workflow

A practical way to use this research without over-trusting it:

1. Keep the 2026-2031 dates as a watchlist.
2. Before each window, check whether Gold is extended, basing, or already drawing down.
3. Pair the astrology bucket with non-astrology context: real rates, USD, inflation expectations, central-bank policy, liquidity, and geopolitical stress.
4. Record what actually happened after each window without changing the rules.
5. After enough future windows pass, evaluate the frozen rules out-of-sample.

13 Caveats and Failure Modes

- Exploratory research only; not financial advice.
- Yahoo Finance commodity futures data is convenient but not audit-grade and may include contract/roll artifacts.
- Peak and bottom labels are hindsight-defined by drawdown cycles.
- Multiple testing is severe; future projection is a watchlist, not a prediction.
- The projection should be validated against spot XAU/USD, GLD, and gold-miner equities when better data is available.
- Futures data can differ from spot Gold because of contract roll, liquidity, adjustment, and Yahoo data choices.
- Hindsight drawdown labels are useful for research, but they are not known in real time.
- Multiple testing is severe. A pattern that looks good after scanning many bodies/aspects/horizons can be a false positive.
- Outer-planet aspects have small event counts; treat them as narrative hypotheses unless validated elsewhere.
- Average returns can be distorted by a few large moves; median and bullish percentage must be checked alongside averages.
- The future calendar can look authoritative because it has exact dates. It should be read as a watchlist, not a prediction.

14 Suggested Next Steps

1. Add a cleaner spot XAU/USD provider and rerun the same pipeline.
2. Run full scans on GLD, IAU, GDX, GDXJ, UUP, TLT, and real-rate proxies.
3. Convert the frozen interpretation rules into code under Hermetic Alpha so future watchlist generation is reproducible.
4. Create a prospective tracking issue/discussion that logs each 2026-2031 window outcome without changing criteria.
5. Compare Gold rules against S&P 500 and Bitcoin rules to separate asset-specific behavior from broad macro-cycle behavior.

15 Reproducibility

Artifacts in this research package:

- README.md: this paper.
- gold-xau-astrology-research-hermetic-alpha-v011.pdf: PDF version.
- scripts/gold_xau_astrology_research.py: reproduction script used for the experiment.
- scripts/generate_comprehensive_gold_report.py: report generator used to convert the JSON result into this paper.

The source script writes a JSON results file and then the paper generator converts selected tables and interpretation into Markdown/PDF artifacts.

16 Disclaimer

This is exploratory market research and library dogfooding. It is not investment advice, financial advice, or a recommendation to buy, sell, short, or leverage Gold or any related instrument.