

Start simply. Explore every workspace.

The core guided tour, current feature chapters, and a refreshed directory of source-qualified data definitions.

[Open Watchtower](#) · [Download manual PDF](#) · [Markdown manual](#)

Edition reviewed 31 October 2026 · 84 inventoried application surfaces · 395 normalized point definitions · 218 reviewed API/MCP route paths. Counts have different units; source dates and access limits remain authoritative.

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What is current in this edition

This edition brings the website, searchable data catalogue and manual up to the product released through 31 October 2026. It adds the newer history, company-exposure, historical-map, Sentry price and shared-data workflows to the existing core tour. These are product and metadata updates—not a claim that every underlying observation was made today.

Use Monitor / Simple to orient yourself, then Investigate / Advanced for the specialist workspace. Personal layouts and access permissions can affect which controls you see. The existing interactive core tours remain available; the new chapters provide additional task-by-task instructions and links to the relevant methods.

- Open the data catalogue to search every route and point definition in this dated metadata build, including unavailable and configuration-dependent entries.
- Check the source observation or reporting period, collection time, units and scope before comparing records. A recent fetch does not make an older statistic current.

- Use the application-to-MCP inventory for shared-source mappings. Workspace counts, route paths, point definitions, raw records, captures and price bars are different units and must not be added together.

Data History: prices, evidence and revisions

Open Advanced / Investigate → Data History. Start with the source inventory, then choose daily prices or retained evidence. A price series is identified by provider, instrument, symbol, exchange, currency, interval and bar time. Open, high, low, close, adjusted close and volume have different meanings.

Five-year provider-history requests use daily bars where the source supports them. Longer history can require additional source-bounded requests. Backfills are paced and coverage varies by instrument: an instrument reference is not proof that a complete price series has been stored. Missing dates are not filled with invented prices, and market closures are not zero-price observations.

Retained evidence has both source clocks and capture clocks. Use the observation/publication time when asking when an event or measurement occurred; use capture time when asking when Watchtower retained it. A revision is a version of a record, not automatically a new independent event. History begins with genuine source history or retained captures; it cannot recreate observations never collected.

1. Select the source and exact instrument or evidence family. Inspect currency, units and the available period.
2. Choose a date range and examine individual records or bars. Open the source metadata and any available versions.
3. Follow the returned source cursor or offset for additional rows. Keep snapshot identifiers when continuing a fixed selection.
4. Export the selected evidence with its provenance. Record missing dates, stale fallbacks and provider limits alongside the result.

[Data History methods and worked MCP reads](#)

[Daily history and complete-source search release](#)

Search, source inventories and shared-data MCP

Global Markets & Data Search and MCP can search the retained canonical corpus, the complete public Commodity Atlas tables and retained archive revisions. These are different collections with different count units. The canonical index keeps its own two-million-entry capacity; that is not a combined cap on the Atlas and archive readers.

The released Commodity Atlas search covers 5,949,702 source rows across observations, assets, trade and derived exposure tables. Those are reported, reference, estimated and modeled records—not millions of live market quotes. Native source filters and pages are the way to traverse a particular collection; keyword search is not a guarantee that every external-provider record is indexed.

The application-to-MCP inventory records 84 workspace/panel surfaces, 80 with shared-source mappings and four private/control-only surfaces. It identifies 218 reviewed route paths, including an existing alias, and 158 reference

datasets/documents. The reference material includes 53 methods documents and a package of 24 application-definition tables. These dated inventory figures describe access and reference structure, not source freshness or independent observations.

1. Refresh your assistant's tool discovery after a product update. Use `watchtower.list_data_routes` or `watchtower.get_application_coverage` to find the relevant source and its parameters.
 2. Use `watchtower.read_data_route` for the chosen path. Preserve source dates, missing values, units and model/reference labels.
 3. Distinguish native row pagination from MCP JSON Pointer/value pages. Follow each returned continuation with its matching source or MCP snapshot.
 4. For large reference records, use the documented structure, fields or search-fields views; continue long strings with the returned text offset.
 5. Keep your private investigations, portfolio, layouts and account records in their native account scope. Shared inputs in a mixed workspace do not expose those private records.
- Discovery, usable source records, global search indexing, retained history and predictive validation are separate checks.
 - Large integers and non-round-tripping decimals may be returned as explicitly typed strings; preserve that representation.
 - Public MCP research examples are available to read. Their publication does not make private conversations or account records part of the shared-data catalogue.

[Application-to-MCP inventory](#)

[Assistant connection guide](#)

[Public research examples](#)

Watchtower Sentry: natural-language prices and spot metals

Watchtower Sentry is the renamed voice interface in the native Monitor / Simple workspace. It remains an administrator preview; a normal Pro subscription alone does not grant administrator access. Start a new conversation after a tool/instruction update. Its speech-reactive display is a visualization of the conversation, not a financial signal.

Sentry can resolve ordinary asset names through the supported read-only price tool. Ask for the instrument and currency you mean: an equity index is quoted in index points, an equity listing has an exchange and quote currency, and an ECB reference fixing is different from an intraday market quote. Ambiguous names and missing coverage should remain explicit rather than becoming guessed prices.

Gold and silver spot requests now use the dedicated spot source through the existing price tool. Spot is quoted per troy ounce and is separate from an explicit futures contract. The provider's `updatedAt` is its source-fetch time, not a claimed last-trade timestamp. Non-USD output can be a provider conversion; where the FX clock is not supplied, it remains unavailable. A failed spot request must not silently become a futures quotation.

1. Open Sentry with an eligible administrator session and start a fresh conversation.
2. Try a precise request such as: What is the latest available gold spot price per troy ounce in Canadian dollars? Or: Give me the S&P 500 index level and its source time.

3. Ask which provider, instrument type, units and timestamp basis were used. Speech may round values; inspect the exact tool evidence when precision matters.
4. If a name has multiple listings or the source is unavailable, choose the intended identity or retain the reported gap. Optional research/model usage keeps its existing access and cost rules.

[Ask Sentry for prices by name](#)

[Gold and silver spot-price source details](#)

Company Exposure Watch and the credit boundary

Open Advanced / Investigate → Company Exposure Watch with professional access. Build an owner-scoped workspace, identify the company and exposure, inspect candidate evidence, and review the source binding before treating a match as relevant. A nearby hazard or a matching company name is not proof of an operational or financial effect.

The released source integration has qualified paths for 13 configured source families. Projections are bounded and preserve source-specific limitations; this is not universal incident or subdataset coverage. Source dates, forecast valid times, reporting locations and reference facilities must not be treated as interchangeable observations.

Review maps, supporting documents, financial sensitivities and authored scenarios together. A scenario is an assumption-driven exploration, not an observed loss or calibrated prediction. Import, export, sharing and private review actions retain native ownership and explicit controls. Saved evidence and notifications should be revisited when the source or review state changes.

- Published operating bounds include 10,000 records per workspace, 30 workspaces per owner, a 64 MiB shared store and bounded workers. These are implementation/workload bounds, not an SLA or an arbitrary-concurrency guarantee.
- Bloomberg setup choices are visible, but a customer's contract, entitlement, credentials and compatible runtime are still required. Merely selecting a setup option does not activate licensed ingestion or redistribution.
- Credit Watch remains a separate analyst pilot. Its new issuer-directory backend does not mean every issuer has a populated credit model: the displayed/private review cohort remains 20. Do not infer official index membership, universal international normalization or a newly activated collection timer.

[Company-exposure source bindings and capacity](#)

[Credit issuer-directory backend release](#)

[Credit Watch methods](#)

Ancient Map: historical maps with explicit dates

Open Advanced / Investigate → Ancient Map. Search the catalogue, choose a historical period or collection, and inspect the original source and licence. The released catalogue contains 796 map-image records, 795 hosted previews and 22 collections, alongside 51 historical/reference basemap frames. A record is not necessarily a unique original map.

Keep the depicted period separate from the publication, copy or photograph date. Unknown dates stay unknown, BCE/CE handling has no year zero, and reference geometry does not establish today's borders or control. The historical basemap range spans 5000 BCE to 2010 CE; dated frames do not imply continuously observed boundaries between them.

Use the available timeline, overlays, opacity, synchronized views and side-by-side/blend/swipe comparisons to examine a question. Image-comparison controls do not georeference an unregistered scan. Attribution, image rights and the applicable basemap licence remain with the source.

1. Choose a question and a depicted period before selecting an image.
2. Read the creator, publication/copy date and collection record. Open the source when a date or interpretation is uncertain.
3. Compare two records or a record and a reference basemap, keeping their different scales, projections and dates visible.
4. Export or share with the original source and licence, and state any alignment or date limitations.

[Ancient Map methods and licences](#)

[Historical atlas release](#)

Geopolitical reporting, food stress and freshness

Geopolitical country views now show drought, hunger and famine reporting context, including visible counts and food-stress points. These are conservative source-text/country associations—not an official IPC famine classification, a confirmed affected location or a calibrated probability.

The released reporting component weights drought at 1.5, hunger/starvation/food-insecurity reporting at 2, and famine reporting at 3 before its other guards. Warning context receives half weight; denial, resolution and nonliteral matches contribute zero. Source age/decay, deduplication, publisher limits and a 12-point country cap apply. Existing news, military and market prerequisites remain; a food headline is not a standalone trigger.

Geopolitical Futures distinguishes the current screen date from annual, monthly/provisional and reference-source periods. Visible authorized views check for updates every five minutes while preserving focused or edited work. A publication discovery or collection timestamp does not make the underlying annual edition a current-month observation, and a forecast issue time is not an observed outcome.

1. Open the country row and inspect Drought, Hunger, Famine and Food points alongside their sources.
2. Read the original wording and date, then distinguish observed reporting, warnings, denials and uncertainty.
3. In Geopolitical Futures, inspect model, target, horizon, source periods and validation/track-record qualifications before interpreting an estimate.
4. Keep edits or scenario drafts while reviewing the update notice. Revisit the selected evidence deliberately rather than assuming a refresh resolved missing data.

[Food-stress methods](#)

[Geopolitical Futures methods](#)

[Source dates and automatic renewal](#)

Research ideas to try with the current workspace

These are suggested research workflows, not pre-computed conclusions. Choose a bounded question, keep the original evidence and record what remains unknown.

Explain a price disagreement

Compare a spot-metal quote, an explicit futures contract and any currency conversion. Check units, contract identity, provider and source-time basis before describing a difference as a market move.

Trace a shipping disruption into company research

Start with source-backed port or corridor evidence, inspect time/geography, then review the relevant company exposure and assumptions. A spatial match is a candidate relationship, not proof of loss.

Find what actually changed in a source

Choose one source or instrument in Data History, compare retained versions, and separate observation date from capture date. Distinguish a corrected value, a newly captured older record and a new observation.

Compare a historical narrative with its map sources

Use Ancient Map to compare records with different publication and depicted dates. Preserve projection/alignment limitations and source licences rather than treating the overlays as ground truth.

Build a repeatable assistant research trail

Discover the exact MCP route, save source parameters and snapshot identifiers, traverse the native and field pages correctly, then retain citations and missing values in your own investigation.

[Connected research workflows](#)

[Public MCP examples](#)

Read the new data catalogue without mixing its units

The current catalogue separates reviewed API paths, normalized point definitions and registered source packs. Point types now include observations, reported statistics, official estimates, provider forecasts, official indices,

price-derived measures, event counts, inventories, coverage/status records and calculated indices. The type and unit tell you how a value may be interpreted.

A registered definition can be unavailable, stale, reference-only or withheld from model use. A configured source pack is not proof of licensed ingestion. Populated fields include labels and metadata; they are not independent observations. Historical response-volume measurements retained from 7 October keep that date, while newly listed route volumes are explicitly not recounted.

Missing values must not be rewritten as zero. Provider forecasts, Watchtower scenarios and source observations remain different evidence classes. Source coverage and predictive validation are separate: a healthy feed or a fully mapped field does not validate a probability model.

- Use the catalogue's type, subject and route-access filters; open an entry for recorded field names, source links and MCP discovery.
- Keep the exact provider and instrument identity in a price export; do not merge currencies, exchanges, daily bars and sampled quotes.
- For large datasets, follow pagination and retain snapshot boundaries rather than assuming the first response is the full collection.
- Close globe / map when you no longer need the top viewer. This releases that viewer's graphics and background work; it does not stop independent workspaces or server-side collectors.

[Search the updated data catalogue](#)

[Data-strength methods](#)

[Top-globe shutdown behavior](#)

Simple Mode tour

Welcome to Watchtower Pro Simple Mode

Start with the six Simple Mode tabs, learn how to read their data, then choose whether to continue into Advanced Mode. Close at any time with Close or Escape. Help can replay any section.

- Simple Mode is also labelled Monitor in navigation. Advanced Mode is labelled Investigate.
- The tour only explains and navigates. You make all settings, alert, export and AI-generation decisions.

Pro Brief

Start with the concise briefing. Pick one item that matters to you and follow it to its evidence.

- Read the headline together with its source and observation date.
- Use the brief's selections and available refresh controls to focus your reading. A refresh is not a new observation.
- Open a related workspace when you need the underlying records rather than only the summary.

Your Pro Brief windows

The seven original sections are a starting layout. Every section is a configurable window, and you can add more windows for the feeds or data points you want.

- The original News, Prices, Priorities, Risk & credit, Around the world, What's next and Sources remain ready-made choices.
- Click Choose feed on any window to replace it. The navigation buttons follow your current window order and titles.
- Each custom window keeps source dates, units, definitions, missing-value states and preview bounds visible. Counts and model indices do not become calibrated probabilities.

Choose feeds, news settings, refresh and export

Choose what each window shows, then read its source information before sharing.

- Use Add window or Choose feed to choose a data source; the original News section keeps its existing news preferences.
- Refresh brief requests ordinary updated reads, respecting source caches and provider pauses. It does not force a new observation.
- Export brief includes only the selected windows, with their current status, definitions, source data and preview limits. Export layout contains configuration only.
- Explore opens the related workspace. Review its filters there; it is not a promise that every window filter transfers automatically.
- In the original News window, enter a keyword or quoted phrase and press Enter or Filter news. All terms must match; -term excludes a term. Clear removes the keyword. Existing topic/source/region filters still apply; no matches stay empty. Daily Brief has its own saved news choices.

Click a Pro Brief window and choose its feed

Click a window's heading or empty area, or use Choose feed. Search for the information you want, inspect its preview and select Use this feed. Add window creates another independent selection.

- Original sections, current normalized data points and reviewed public dataset feeds are available in the picker. A listed source may be stale, incomplete or unavailable.
- Choose Summary, Records / table or named data fields. Optional source filters use that dataset's own country/year/view meanings. Apply commits the selection; closing the picker cancels the draft.
- Window options move, resize or remove a window. Undo restores the preceding layout. Restore original layout returns the seven starting sections.
- Choices are saved for the verified account in this browser, not synchronized to other devices. Export/import layout moves definitions only; Export brief contains the selected windows and their source-qualified data.
- Changing a feed does not create a new observation, change a model, enable an alert or call a paid AI model.

My Watchtower: your daily starting point

Follow what matters, read your briefing and check your private inbox. Your saved setup belongs to your signed-in account.

- Start in Overview. Following keeps your saved interests; Inbox holds notifications; History keeps dated briefing editions.
 - Choose Add a watch, complete the three steps and save explicitly.
 - Help & tips explains the current task without discarding your draft.
-

Four everyday views, with the rest in More

Overview, Following, Inbox and History keep the daily routine together.

- Overview: review your setup and read or create a briefing.
 - Following: create or edit topics, places, saved news searches and value alerts.
 - Inbox: mark read or dismiss notifications from enabled watches.
 - History: reopen saved editions; deletion and export are explicit.
 - More: What changed, Briefing schedule, Source coverage, Research pilot and Research tools.
-

Set up a watch in three short steps

Choose interests → Choose alerts → Review & save. Back keeps your choices; an error leaves the draft available.

- Use searchable checkboxes for places and areas—no Ctrl/Command multi-selection needed.
- Places AND areas AND subjects narrow each other; choices within a group are alternatives.
- Inbox alerts are optional. A first healthy check establishes a baseline.
- More → Briefing schedule uses a named time zone and a local hour; this is an in-app edition, not email.
- For a numeric price/value rule, select it in Advanced and choose Set alert. Help & tips explains the difference.

Signal Board

Scan signals to decide what to investigate next.

- Use the displayed filters and time selections to narrow the board.
- Read each tile's measure, scale, geography and coverage; equally coloured tiles need not measure the same thing.
- Open Source or Data Proof to inspect evidence. Help beside a data point explains it again.

Alerts

Read the Simple alert display and understand what each alert actually means.

- Check the alert's condition, selected metric and observation time.
- Missing evidence is not a negative result or an all-clear.
- Detailed rule authoring lives in Advanced tools. Only explicit user actions save or enable a rule.

Global Markets

Browse worldwide market references and compare like-for-like observations.

- Use available region, market and search controls to narrow the table.
- Check instrument identity, currency, units, market hours and the original quote date.
- Percent changes, percentage-point changes and basis points are different. Read source and export options before sharing.

Watchtower Search

Find a subject, source record or workspace without browsing every tab.

- Enter a specific question, place, organisation or instrument.
- Use the available filters and inspect dates and source identity in results.
- Open a relevant result and follow its source. Similar headlines are not necessarily independent evidence.

Read any data card

A number becomes useful only with its definition and evidence.

- Identify what is measured, its unit, geography and observation period.
 - Separate observation time, model-computation time and the time Watchtower checked the source.
 - Zero, missing, stale and partial coverage are different states. A model index is not automatically a probability.
-

Filters, sorting and viewing controls

Use each tab's visible controls to narrow and inspect data.

- Start with one region, entity or time range. Check the active filters before comparing results.
 - Sorting changes the order, not the evidence. Hidden columns may still matter to interpretation.
 - Fullscreen and map controls change the view. Save/export only when you deliberately choose to.
-

Sources and Data Proof

Follow a data point back to its evidence and definitions.

- Open Source identifies the underlying provider or record.
 - Data Proof explains provenance, original clocks, coverage and transformations when available.
 - Use Explain this data point for a guided reading of the same point. Unknown fields stay unknown.
-

Assistant and optional AI

Use Help for the tour and manual. Use Assistant when you deliberately want an AI-supported research task.

- Reading this tour does not need a model connection.
 - Opening help does not submit an AI prompt or consume paid model usage.
 - AI interpretations require checking their cited sources and your account's configured access.
-

Find a tab and get help again

The Help button is always available. A tab's Help this tab button starts its own walkthrough.

- Choose Simple tour to replay this introduction.
- Choose Help this tab for the current workspace, or browse a particular data point.
- The manual contains the same tour sections and a searchable workspace/data-point directory.

Ready to learn Advanced Mode?

- You have finished the Simple tour. You can stop here, or continue through Advanced navigation, every registered workspace and every available data-point type.
- You can close, go back or jump to a chapter at any time.
 - Advanced explanations are readable by everyone. Opening restricted tools still requires normal account access.

Advanced workspace tour

Each registered tab has a dedicated section. Access and hidden-layout preferences still apply when opening the real application.

Summary

Scan source-qualified market benchmarks, identities, units and observation clocks.

- Read a market row: Start in Market Overview Summary and inspect the instrument, source and clock.
- Compare a specialist panel: Use the Markets panel for the relevant asset class. Indices and individual stocks are different inventories.
- Explore the global atlas: Open Global Markets and check regional selection, company/listing-country basis and available coverage.

▼ Summary — reference detail

The left **Market Overview**, lower **Markets** panel and full-width **Global Markets** now share consistent identities, source dates, units, flags and evidence controls. Use the compact panels for scanning and Global Markets for a wider table or symbol lookup.

Left Market Overview tabs

Tab	Read it this way
Summary	A cross-regional selection of benchmarks, commodity references, currency pairs, digital assets and qualified context. Open the complete inventory below for breadth.
US curve	Nominal Treasury yields arranged by maturity. TIPS are separate real-yield series and are excluded from this nominal curve.
Ratios	Source-aligned comparisons such as gold/silver or equity-index/gold. The dimensions and benchmark scope matter.

Tab	Read it this way
Global yields	Country ten-year sovereign yield observations. These are bond yields, not central-bank policy rates.
Fear & Greed	Restored Watchtower cross-asset and geographic heuristic gauges, with component eligibility and source clocks.
Market Tone	A separate descriptive view of qualified regional index price changes.
FX strength	Currency changes versus USD using the correct pair direction and reciprocal-return calculation.

Lower Markets and the full-width atlas

Commodities shows native futures quotations; **Indices** shows the registered benchmark universe; **Forex** offers market quotes and ECB references; **Crypto** shows the source-defined asset universe; **Global Stocks** shows the filtered worldwide equity-mover scan. Use the available regional, text, rising/falling, data-gap and period controls. A rising/falling filter requires eligible non-missing change data; an undated source is not automatically a current mover.

Global Markets adds an overview and dedicated **Indices**, **FX**, **Commodities**, **Equities**, **Crypto**, **Yields** and **Sources** views. Symbol lookup searches supported public references. Confirm instrument type and exchange: the same ticker can identify different listings. Open the instrument for its existing chart controls, or use the information button for normalized evidence and original fields. CSV reflects the selected view; inspect the export's units, source and observation columns.

Worldwide coverage, flags and identities

The benchmark registry contains **56 indices across 44 countries/areas**. The market release verified 55 available values, including qualified SET, PSEi, Tadawul All Share and DFM General supplements. Chile S&P IPSA was a visible remaining gap. Availability can change; the registry count is not a guarantee that every record is presently populated.

Index flags identify the benchmark area. **Stock flags now prefer source-reported company country**, matched to the exact exchange-qualified instrument. That reference is not independently verified legal domicile. If company country is unavailable, a known venue flag carries an explicit **Listing** tag; if both are unknown, a neutral marker appears. Country is not guessed from quote currency or a bare ticker. Inspect the flag's source/basis and retrieval date; retrieval is not an invented corporate-validity date.

This identity treatment also appears in quote searches, company views, stock-chart headers and portfolio stock rows. Equity display-region filters use the preferred country; the company screener's existing country column is explicitly **Listing country**. CSV adds company/listing country and flag basis. FX displays the base and quote currency areas; EUR uses a union reference. Commodity mini-icons and crypto glyphs supplement names and tickers. Unknown tokens retain a readable badge. [Company-country flag update](#).

Corrections include the actual **S&P/TSX Composite**, **SSE 50**, **US CBOE VIX** identities and the current CME lumber reference **LBR=F**. Duplicate aliases for one benchmark are consolidated. An unverified name-only fallback cannot become a newly verified symbol.

Currency-reference example

Open **Forex** → **ECB references**, choose a base such as CAD, then inspect a row. The source provides currencies per EUR. Watchtower calculates a cross as **quote-per-EUR ÷ base-per-EUR on the same fixing date**. The reviewed source supplied 30 currencies including EUR and a 90-day reference file. The prior common fixing supplies the comparison, not an invented intraday quote.

For a USD/foreign pair with a 10% rise, the reciprocal foreign/USD return is approximately −9.09%, not −10%: $(1 / (1 + 0.10) - 1) \times 100$. Pair direction therefore matters in FX strength.

ECB information is available free of charge from the ECB. Cross-rates and changes are Watchtower calculations. Fixings are dated reference information, not executable transaction quotes. See market sources and calculations.

</watchtower/market-coverage-methods.html>

US curve

Read the US Treasury curve by tenor and distinguish yields from their changes.

- Read a market row: Start in Market Overview Summary and inspect the instrument, source and clock.
- Compare a specialist panel: Use the Markets panel for the relevant asset class. Indices and individual stocks are different inventories.
- Explore the global atlas: Open Global Markets and check regional selection, company/listing-country basis and available coverage.

▼ US curve — reference detail

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[/watchtower/market-coverage-methods.html](#)

Ratios

Inspect the defined market/commodity ratios and the sources behind each comparison.

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Lower Markets and the full-width atlas

Commodities shows native futures quotations; **Indices** shows the registered benchmark universe; **Forex** offers market quotes and ECB references; **Crypto** shows the source-defined asset universe; **Global Stocks** shows the filtered worldwide equity-mover scan. Use the available regional, text, rising/falling, data-gap and period controls. A rising/falling filter requires eligible non-missing change data; an undated source is not automatically a current mover.

Global Markets adds an overview and dedicated **Indices, FX, Commodities, Equities, Crypto, Yields** and **Sources** views. Symbol lookup searches supported public references. Confirm instrument type and exchange: the same ticker can identify different listings. Open the instrument for its existing chart controls, or use the information button for normalized evidence and original fields. CSV reflects the selected view; inspect the export's units, source and observation columns.

Worldwide coverage, flags and identities

The benchmark registry contains **56 indices across 44 countries/areas**. The market release verified 55 available values, including qualified SET, PSEi, Tadawul All Share and DFM General supplements. Chile S&P IPSA was a visible remaining gap. Availability can change; the registry count is not a guarantee that every record is presently populated.

Index flags identify the benchmark area. **Stock flags now prefer source-reported company country**, matched to the exact exchange-qualified instrument. That reference is not independently verified legal domicile. If company country is unavailable, a known venue flag carries an explicit **Listing** tag; if both are unknown, a neutral marker appears. Country is not guessed from quote currency or a bare ticker. Inspect the flag's source/basis and retrieval date; retrieval is not an invented corporate-validity date.

This identity treatment also appears in quote searches, company views, stock-chart headers and portfolio stock rows. Equity display-region filters use the preferred country; the company screener's existing country column is explicitly **Listing country**. CSV adds company/listing country and flag basis. FX displays the base and quote currency areas; EUR uses a union reference. Commodity mini-icons and crypto glyphs supplement names and tickers. Unknown tokens retain a readable badge. [Company-country flag update](#).

Corrections include the actual **S&P/TSX Composite, SSE 50, US CBOE VIX** identities and the current CME lumber reference **LBR=F**. Duplicate aliases for one benchmark are consolidated. An unverified name-only fallback cannot become a newly verified symbol.

Currency-reference example

Open **Forex** → **ECB references**, choose a base such as CAD, then inspect a row. The source provides currencies per EUR. Watchtower calculates a cross as **quote-per-EUR ÷ base-per-EUR on the same fixing date**. The reviewed source supplied 30 currencies including EUR and a 90-day reference file. The prior common fixing supplies the comparison, not an invented intraday quote.

For a USD/foreign pair with a 10% rise, the reciprocal foreign/USD return is approximately −9.09%, not −10%: $(1 / (1 + 0.10) - 1) \times 100$. Pair direction therefore matters in FX strength.

ECB information is [available free of charge from the ECB](#). Cross-rates and changes are Watchtower calculations. Fixings are dated reference information, not executable transaction quotes. See [market sources and calculations](#).

</watchtower/market-coverage-methods.html>

Global yields

Compare available government-yield references with their country and source dates.

- Read a market row: Start in Market Overview Summary and inspect the instrument, source and clock.
- Compare a specialist panel: Use the Markets panel for the relevant asset class. Indices and individual stocks are different inventories.
- Explore the global atlas: Open Global Markets and check regional selection, company/listing-country basis and available coverage.

▼ Global yields — reference detail

The left **Market Overview**, lower **Markets** panel and full-width **Global Markets** now share consistent identities, source dates, units, flags and evidence controls. Use the compact panels for scanning and Global Markets for a wider table or symbol lookup.

Left Market Overview tabs

Tab	Read it this way
Summary	A cross-regional selection of benchmarks, commodity references, currency pairs, digital assets and qualified context. Open the complete inventory below for breadth.
US curve	Nominal Treasury yields arranged by maturity. TIPS are separate real-yield series and are excluded from this nominal curve.
Ratios	Source-aligned comparisons such as gold/silver or equity-index/gold. The dimensions and benchmark scope matter.
Global yields	Country ten-year sovereign yield observations. These are bond yields, not central-bank policy rates.
Fear & Greed	Restored Watchtower cross-asset and geographic heuristic gauges, with component eligibility and source clocks.
Market Tone	A separate descriptive view of qualified regional index price changes.
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</watchtower/market-coverage-methods.html>

Fear & Greed

Inspect the cross-asset Fear & Greed view, its composition and coverage.

- Inspect the sentiment method: Open Fear & Greed and read which inputs the current view uses.
- Compare Market Tone: Inspect its own composition and source state rather than assuming it duplicates the other gauge.
- Calculate a yield change: Use the practice calculator to distinguish basis points, percentage points and relative change.

▼ Fear & Greed — reference detail

Two sentiment views with different meanings

Fear & Greed restores seven cross-asset scopes—US, Europe, Asia-Pacific, crypto, commodities, forex and bonds—plus a composite, seven regional views and the 44 covered country contexts. The release introduced 59 cards. Search for a scope, open its component detail and check the eligible input denominator and source dates.

These are **Watchtower heuristics**, not republished CNN, Alternative.me, CoinMarketCap or Tickertape readings. The publisher directory links those services; a directory link does not mean a live numerical integration. The composite uses available core cross-asset scopes rather than adding their regional/country subdivisions again.

Market Tone remains a separate equal-weight regional price-change screen. Its declared transformation is `clamp(50 + 12 × mean qualified one-day index percentage change, 0, 100)`. Missing and stale inputs are excluded with the denominator shown. Neither view is a calibrated event probability or a promise of predictive performance.

Read bond moves in three units

The updated yield rows and details expose basis points, percentage-point change and relative yield change when the source supports those quantities.

Worked example: a yield moves from 4.00% to 4.10%.

- Percentage-point move: **+0.100 pp**.
- Basis-point move: **+10 bps**, because one percentage point is 100 bps.
- Relative yield change: **+2.50%**, because $0.10 \div 4.00 \times 100 = 2.50$.

That last figure is a change in the yield, **not the bond's price return**. Relative change is withheld when its denominator is unsuitable or the source unit is unknown. Check CSV and evidence details for the same distinction. [Release explanation](#).

Market Tone

Read Market Tone as its own stated price/input-based gauge.

- Inspect the sentiment method: Open Fear & Greed and read which inputs the current view uses.
- Compare Market Tone: Inspect its own composition and source state rather than assuming it duplicates the other gauge.
- Calculate a yield change: Use the practice calculator to distinguish basis points, percentage points and relative change.

▼ Market Tone — reference detail

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FX strength

Inspect currency-strength context without confusing reference rates, returns and economic exposure.

- Read a market row: Start in Market Overview Summary and inspect the instrument, source and clock.
- Compare a specialist panel: Use the Markets panel for the relevant asset class. Indices and individual stocks are different inventories.
- Explore the global atlas: Open Global Markets and check regional selection, company/listing-country basis and available coverage.

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The left **Market Overview**, lower **Markets** panel and full-width **Global Markets** now share consistent identities, source dates, units, flags and evidence controls. Use the compact panels for scanning and Global Markets for a wider table or symbol lookup.

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</watchtower/market-coverage-methods.html>

Natural Hazards

Inspect observed hazards, warnings, forecasts and historical/reference layers with their source definitions.

- Read a warning window: Open Weather Alerts and inspect issue/effective/expiry times and source geometry.
- Compare the hazard evidence: Open Natural Hazards for its event and source-specific context.
- Check the layer's meaning: Separate observed events, forecast areas, historical references, advisories and unlocated records.

▼ Natural Hazards — reference detail

Weather Alerts

The global warning view offers country, severity, current/upcoming and multilingual text filters; paginated lists; original information/instructions; source details; map geometry; JSON export; and a country/territory coverage directory.

Read the issuing authority, issue/effective/expiry times, severity and message status. CAP updates and cancellations follow explicit source references. Multiple messages or language blocks are not necessarily separate storms. Japan's JMA municipality/hazard states retain their own levels and are not simply interchangeable with CAP severity categories.

A coverage directory listing does not guarantee complete current delivery for that country. **No reported warning, partial, stale, not integrated** and **unavailable** have different meanings. Warnings without qualified geometry remain in the list; Watchtower does not fabricate a country-centre impact polygon. [Global warning release](#).

Natural Hazards

Use **Natural Hazards** for earthquakes, severe-weather products, fires, tropical systems, volcanic evidence and related observations/reference layers. Its recent expansion reuses still-valid global warnings, adds source event inspection and improves native-unit temperature, rain and snowfall cards.

The volcanic controls include source bulletins and published VAAC observed/+6/+12/+18-hour airborne-ash areas, with source flight levels. **Airborne ash is not ground ashfall, a pyroclastic-flow footprint or an evacuation zone**. An older open EONET listing does not establish a continuing eruption. No synthetic danger cone should be inferred from a volcano point.

Optional historical landslide reports, dated fault traces, reference volcanoes and LHASA model imagery have separate meanings and are generally off until selected. COOLR reports can be historical. GEM fault traces are geological references, not earthquake predictions. Provider-latest LHASA imagery may lack an exposed run timestamp.

Snow depth appears only when a source supplies it; rainfall is not converted to snowfall with an assumed ratio. Preserve observation/forecast/maximum labels, units and accumulation windows. The newness highlight uses an eligible source time for a bounded ten-minute window; refreshing does not restart an event's age. [Expanded hazard methods](#).

</watchtower/natural-hazards-expanded-methods.html>

My Watchtower: your daily research routine

Follow what matters, read your briefing and check your private inbox. Your saved setup belongs to your signed-in account.

Open: My Watchtower in Monitor (Simple) or Investigate (Advanced). Updated 24 October 2026.

Find your way around

- **Overview:** your starting point and latest open briefing.
- **Following:** saved topics, places, news searches and value alerts.
- **Inbox:** notifications you enabled.
- **History:** saved briefing editions.
- **More:** What changed, Briefing schedule, Source coverage, Research pilot and Research tools.
- **Help & tips:** opens this task-based help without losing your form.

Start with one thing to follow

1. Open Following and choose Add a watch. A watch is a saved set of interests, not a trade or an order.
2. Name it, then enter a topic or choose a place or subject area. Start broad: Energy is a useful first area; add a country only if you want to narrow it.
3. Choose whether matching updates should appear in your inbox. Alerts are off for a new topic watch until you choose them.
4. Read the review and choose Save watch. Then use Overview to create your first briefing.

How matching works

A record must match every group you use: places AND areas AND subjects. Choices within one group are alternatives. Canada plus Energy means Canadian-context energy records; adding a company narrows it again.

Topics and company names are source-text or entity mentions. A country mention is context, not proof of an event's location, your exposure or a causal link. Leave optional filters empty for broader coverage.

Following also lists saved news searches and value/source alerts. Edit opens the appropriate native editor so their exact filters, fields and units stay attached. Removing a watch leaves saved briefing editions in History.

Alerts: what arrives and when

1. For matching news and evidence, turn on Inbox alerts in the topic-watch wizard.
2. For a price or numeric value, find the instrument or data in Advanced, select it and choose Set alert. Pick a threshold, amount of change or source-staleness rule and save explicitly.
3. Read new notifications in Inbox. Mark read keeps an item; Dismiss removes it from the active list. Neither action stops its watch.

The first healthy check establishes a starting point. A saved alert does not send an immediate historical notification. Source availability, field definitions, cooldowns and delivery limits affect when an alert arrives.

Value/source watches are checked approximately every five minutes subject to source capacity. Standard watches use the existing server evaluation cycle. Missing or stale values are not zero; incompatible definitions pause comparison. There is a shared limit of 10 deliveries per account per day.

Notifications appear inside Watchtower. These controls do not subscribe you to email, SMS or phone push notifications.

Briefing, History and Pro Brief

Overview creates a source-linked briefing from your topic/place watches or saved news searches. You can create up to four manual editions per day. Value-only alerts deliver to Inbox; add a topic watch to create a narrative briefing.

History keeps up to 30 saved editions. An edition is a dated record: creating a new one does not rewrite the old one. Open an edition to read, download PDF/printable HTML or inspect its sources.

Pro Brief is a separate customizable board of cards. My Watchtower is your saved following setup, generated briefings and alert inbox. Adding a Pro Brief card does not automatically create a watch or enable an alert.

Choose your daily briefing time

1. Open More → Briefing schedule.
2. Use your device's time zone or choose a named time zone, then select a local hour.
3. Choose whether to create a daily briefing and select Save schedule.

The server uses the first healthy retained source snapshot after that local hour. It can run while your browser is closed; it is not a guarantee of delivery at an exact minute. The named time zone handles daylight-saving changes.

This schedule creates a saved briefing in My Watchtower, not an email. Your current saved schedule is shown before editing; changes apply only when you save.

Understand the evidence

Open Source details on an item to see a readable summary, why it matched, the original source time and the captured source snapshot. Technical JSON is inside an optional disclosure.

An observation time describes the source observation. A publication time describes publication. A capture or check time describes Watchtower's read. Refreshing does not make old evidence newly observed.

Delayed, unknown and limited coverage are shown explicitly. No matching records does not mean nothing happened. More → Source coverage shows available evidence and gaps. What changed compares retained source content; first appearance is not proof an event just occurred.

If you get stuck

No briefing yet: save a topic/place watch first. If the source snapshot is delayed, keep your setup and try again after a healthy capture. A price-only watch belongs in Inbox.

No alerts yet: check that the watch has alerts on, allow a healthy baseline check, and review its source state, cooldown and daily limit. Lack of an alert is not a safety signal.

Too few matches: clear a country or area filter, or use a broader phrase. Remember that different groups narrow each other.

Unsaved edits: Back keeps your wizard choices. Cancel or leaving a view asks before discarding changes. A save error keeps the draft so you can correct it. If another device changed your setup, refresh and review before saving again.

Need a copy: Following → Import / export copies watch settings. Import adds watches rather than replacing your collection; imported alert settings apply after your explicit confirmation.

Account changes or replay: private content and in-flight edits are cleared. Return to live mode and verify the correct account to continue.

Optional research pilot

More → Research pilot is optional. Join with your individual invitation and consent; joining does not change your subscription. The existing six task reports remain available there.

Administrators can create invitations and export coded feedback. Five real participants and their submitted results are still needed for the human pilot; automated QA is separate.

Limits and account privacy

Up to 20 watches and 30 retained briefing editions. Watch settings, inbox and saved editions are account-private. Optional pilot feedback is separate from ordinary use. Current access, source availability and deletion protections still apply. No paid AI is needed to use this help or create an ordinary watch.

▼ My Watchtower — reference detail

My Watchtower is the personal daily-workflow workspace. It combines cloud watchlists, acknowledged changes, scheduled briefings, an in-app inbox and usefulness feedback. Its settings and results belong to the verified account.

Create your first watch

1. Open **My Watchtower** and create a clearly named watch, such as “Canada: banking and household debt.”
2. Choose the supported country, domain, company, sector, topic or asset selectors. A focused watch is easier to evaluate than a broad list of everything.
3. Save it and inspect the initial baseline. Existing evidence establishes the starting state; it is not all automatically a new event.
4. Open **What changed**. Review source-content changes, dates and coverage before acknowledging the items you have read.
5. If useful, enable selective alerts with an appropriate priority, cooldown and daily budget. Check the matched rule and evidence in each inbox item.

The initial implementation supports up to 20 watches. Typed thresholds bind to the intended field, units and version. Missing or stale evidence does not silently rearm a condition. Cross-watch deduplication and budgets reduce repeated notifications; they do not prove that every relevant development has been detected.

Personal briefings

Choose your timezone and local briefing hour. A personal edition can include a bounded set of qualified highlights, upcoming schedules, forecast outcomes and source gaps. Open the edition before exporting JSON, HTML or PDF. The saved edition is an immutable research record; later source revisions do not silently rewrite its original evidence.

The server scheduler can continue preparing the in-app workflow independently of an open tab. Delivery here is an **in-app inbox**, not a promise of email or SMS. Browser notification behaviour in other workspaces is separate. Use feedback controls to record whether an alert or briefing was useful, rather than broadening thresholds merely to produce more messages.

An optional research pilot requires an invitation and consent. Participation is separate from plan entitlement; it does not automatically grant additional access or mean that any recruitment target has been filled.

Calendar

Check event schedules, release values, revisions and source time zones.

- Select the calendar window: Open Calendar and choose the relevant region, day or event type.
- Read the release state: Separate scheduled time, actual release, estimate, previous value and revised value.
- Use the event as a question: Connect the release to its native units and specialist workspace; do not treat a scheduled event as a known surprise.

▼ Calendar — reference detail

The **Calendar** combines official and provider schedules, reference periods, prior values and market expectations where supplied. It is a planning tool for upcoming information, not proof that a release has occurred.

1. Select the date range and the relevant country, category or source.
2. Read the event's timezone/time basis. A date-only schedule should remain date-only.
3. Distinguish **scheduled time**, **reference period**, **previous value**, **consensus** and **actual release**. They describe different stages.

4. Open the official source or event detail for publication and revision context.
5. Use the table or fullscreen view for a longer horizon. Its light-theme headers and day groupings are now explicitly styled for readability.

Compare like-for-like units and periods before interpreting a surprise. A percentage-point difference between actual and consensus is not necessarily a relative percentage change. A passed scheduled time with no actual value is an unresolved data state, not an observed zero.

Calendar evidence also appears as catalysts in Forecast Lab, Geopolitical Outlook and reports. Those appearances do not turn a schedule into a forecast or independent corroborating event. See [Calendar methods](#).

</watchtower/economic-calendar-methods.html>

Forecast Lab

Review defined market/scenario/energy targets, evidence, historical research and genuine issued outcomes.

- Read the target definition: Open Forecast Lab and select an instrument/scenario and horizon.
- Inspect the track record: Separate current-vintage research from issued forecasts and compatible resolved outcomes.
- Review an energy assumption: Use Energy's source units, production context and explicit supply assumptions; retain missing denominators and source limits.

▼ Forecast Lab — reference detail

Markets, scenarios and track record

Forecast Lab combines statistical market research, source-linked cross-domain scenarios, weather outlooks, economic catalysts, conditional comparisons, personal browser watches and immutable forecast/evidence records. It also includes the newer Systemic risk and Energy views.

For the original Markets pilot, the nine reference funds are SPY, QQQ, EFA, EEM, TLT, HYG, GLD, USO and UUP. Targets are defined over one, five and twenty NYSE sessions. A displayed directional estimate refers to the stated fund-price return, not every constituent, a country, a spot commodity, a yield or a total-return investment strategy. Distributions, execution costs and slippage are not silently included.

Select an instrument and horizon. Read its base and target session, empirical range, component/analogue evidence and baseline. Then inspect historical and prospective performance separately. Brier score, log loss, calibration and interval coverage answer different questions; a nominal 80% interval still needs observed coverage evaluation.

Live issuance uses actual issue times and freezes its definition, source cutoff and inputs. A missing target session remains awaiting evidence. A source revision can withhold scoring instead of rewriting the original forecast. Previously displayed research is not automatically a backdated issuance.

What-if comparisons and local watches

The What-if Lab selects non-overlapping historical windows meeting a specified reference-fund return condition and examines another fund in the same windows. It needs enough matching cases. This is conditional historical co-movement, not a causal shock-response estimate or a calibrated future conditional forecast.

Forecast Lab's original watches and saved baselines are account-scoped in the browser. Their visible-workspace estimate-change checks do not imply closed-browser delivery. Use My Watchtower's separate server workflow when that is the intended monitoring channel. [Forecast Lab methods](#).

Energy

The Energy view includes price overview, futures curves, production/impact context, a declared supply scenario, sources/coverage, historical observations, research ranges and exports. It brings together EIA, World Bank, EU consumer-price and selected electricity references with native currencies, units, taxes and periods.

Select the series and market before comparing numbers. USD per barrel, USD per MMBtu, EUR per litre, monthly commodity benchmarks and hourly/daily electricity references describe different things. Published futures quotes are delivery-contract references, not expected future spot prices or official settlements unless explicitly identified as such.

The research projection uses a fixed declared historical method and persistence comparison. It is not established live forecasting skill. Current news/weather is context and is not inserted into historical training as though known then. The supply scenario uses explicit local-loss and elasticity assumptions; a missing comparable world total prevents numerical propagation. Production-country shares retain their source years. [Energy methods](#).

</watchtower/forecast-lab-methods.html> · </watchtower/energy-outlook-methods.html>

Social

Inspect public social-source reporting, original posts, source clocks and uncertainty.

- Compare news lenses: Choose Breaking, Economics, Technology, Health/Bio or Natural Disasters for the question at hand.
- Inspect public social context: Review the original post, attribution and time. Treat it according to its source and evidence class.
- Follow a narrative: Use Narratives to compare reported claims and their evolution; inspect originals for important changes.

▼ Social — reference detail

The News area contains **Breaking**, **Economics**, **Technology**, **Health / Bio**, **Natural Disasters**, **Search** and **Narratives**. The separate **Social** workspace is in the main Advanced navigation. Reader topic controls remain available in expanded/fullscreen views.

Read across sources

Choose a topic, date window and geography, then refine by source type, platform or editorial context where offered. Open the original story or post. Compare publication times and publisher families before interpreting repeated coverage as independent support. Reading-list and saved-filter tools preserve the source metadata needed to revisit the item.

Source type, **editorial/political leaning**, **platform** and **reliability** are not interchangeable. A source can be unclassified without being centrist. Wire status does not guarantee neutrality. Labels may be based on publisher self-description or attributed editorial review and do not assign beliefs to every author or reader.

The expanded source directory includes alternative and libertarian publications and selected public Bluesky, YouTube, Mastodon, Lemmy, PeerTube, Rumble-reference, Odysee and podcast sources. These are bounded reviewed feeds, not complete social-platform firehoses. A publisher-linked video reference may retain the referring article's clock rather than a verified video-upload timestamp. A directory-only channel is a discoverable reference, not a connected feed.

Use **Narratives** to explore themes and related reporting. A cluster describes a grouping, not proof of coordination or truth. When exporting or writing a report, retain publisher URLs, publication dates and relevant source labels. Detailed distinctions are in [media methods](#).

</watchtower/media-methods.html>

Linked Events

Follow related source records, revisions, evidence links and local research context.

- Start with a source record: Open Linked Events and select a topic or record.
- Inspect the relationship: Use Incident Graph to see the stated link, dates and source evidence.
- Resolve the entity: Open Entity Explorer when an organisation, identifier or relationship needs closer inspection.

▼ Linked Events — reference detail

Linked Events: follow source records and revisions

Open **Linked Events** for the feed, filters, timeline, map, associations, sources and recorded changes. Search and narrow by source/type/time before opening a record. Its detail distinguishes occurrence, publication, issuance, source-snapshot and collection clocks where available.

Track a record, add a note or save a view when you want to return to it. The tracker can preserve changes observed since collection began; it does not reconstruct every earlier revision at the publisher. Tracking here is browser-local and does not automatically arm an alert or synchronise to another browser. Export/import or use My Watchtower for its separate cloud workflow.

Associations use shared entities, headline/document evidence and time windows. They are leads for investigation, not causal connections or independent verification. A publisher's country and a place mentioned in text do not automatically establish event coordinates. Relevant unlocated records remain useful in the list.

Incident Graph and Entity Explorer

Incident Graph helps inspect relationships among events, places and related evidence. Select a node or map item, read the relationship description and open the supporting records. Expand the map or description controls when the graph is dense. Ask whether an edge represents a shared reference, inferred association, model relation or observed fact.

Entity Explorer is useful when the subject is an organisation, person, asset or other named entity rather than a single event. Resolve ambiguous names using identifiers and source context. Similar labels can describe different entities; repeated mentions are not evidence of legal ownership or operational control.

A good investigation preserves three things separately: the original record, your relationship hypothesis and the evidence that would confirm or contradict that hypothesis.

Insurance Stress

Compare insurance evidence and worldwide hazard/conflict/unrest context without inferring carrier losses.

- Choose the evidence lens: Open Insurance Stress and inspect the financial or worldwide stress view.
- Read dates, geography and source class: Distinguish hazard observations/warnings, reported conflict/unrest, historical records and original authored CAT references.
- Inspect the financial boundary: A hazard near an asset does not supply a carrier's policies, treaty terms or measured insured loss.

▼ Insurance Stress — reference detail

The navigation tab **Insurance Stress** opens the broader Insurance Risk & Resilience workspace. Its views include country/industry statistics, solvency/capital, premiums/claims, balance sheets, allocation, market development, protection gaps, backstops, catastrophe observations, selected insurer references, histories, comparisons and sources. The older US proxy monitor remains separately labelled.

Choose a financial measure and reporting period before using a map or ranking. Preserve currency multipliers, ratio scale, solo/group scope and provisional/final status. A ratio of 1.0 can mean 100% in the source; EUR million is not EUR. Year-to-date quarters are not independent flows to be summed. Country reporting domicile is not an insurer's entire underwriting footprint.

Source-qualified review flags identify declared thresholds, such as a reported solvency or combined-ratio condition. They are not blended insolvency probabilities. A net combined ratio uses its specified claims/expense and premium basis; investment income and a claims-paid/gross-written-premium calculation are different.

Catastrophe points are source physical-event references. They do not automatically establish insured losses or carrier exposure. EIOPA protection-gap models, historical statistics and dated scheme descriptions retain their vintages. The selected insurer directory is a reference collection, not a complete licensed-register census. Retain source/derivative/free-original-material notices in exported work.

The current worldwide stress map includes source-qualified natural hazards, military/conflict and civil-unrest context alongside original CAT reference zones. Choose its Layers/view controls and inspect the source class and geometry precision. [Worldwide insurance stress methods](#).

</watchtower/insurance-stress-map-methods.html>

Crypto Intel

Explore token/network, protocol and market evidence with exact identities and source scope.

- Select a crypto view: Open Crypto Intel and identify the token/network or market being discussed.
- Check identities and clocks: Read contract/network identifiers, source time and available coverage before comparing names.
- Keep the evidence classes separate: A price move, protocol metric, exchange event and heuristic risk label answer different questions.

▼ Crypto Intel — reference detail

The lower **Crypto** market tab is a quote view. **Crypto Intel** is the deeper research workspace, with Overview, Markets, Stablecoins, DeFi/venues, Chains, NFTs, Derivatives, Network, Security, Global policy, News and Sources. Existing model/watchlist/analyst functions sit alongside this source-based research.

Search and filter the chosen family, open an asset or protocol, inspect a history and use comparison/export controls where offered. Complete filtered exports can span multiple pages; preserve a coherent source snapshot. Provider rate limits and partial directories remain visible.

Important distinctions

- **Stablecoins:** token supply and USD-valued circulation differ. A non-USD peg requires its proper FX basis; yield/share/fund tokens are not automatically USD1 pegs.
- **DeFi and venues:** TVL, trading volume, fees and revenue are different quantities. Overlapping protocol and chain totals should not be summed blindly. CEX asset references are not proof of solvency.
- **Yield pools:** APY is source-reported context, not a guaranteed forward return.
- **NFTs:** a listed floor is not a bid; floor × supply is not readily liquid market value. Addresses are not people. Collection directories can be partial.
- **Derivatives:** preserve contract type, expiry and native open-interest units. An options notional and a contract count are not the same measure.
- **Security and policy:** distinguish a historical exploit report, an official regulatory reference and an issuer assertion. A directory entry is not a legal approval or reserve audit.

Use the Source view to understand coverage before comparing chains or countries. A country filter in policy references is not a physical-risk map of a blockchain.

Global Bonds

Research curves, sovereign/corporate credit, ratings/CDS, derivatives, offshore currencies and funding sources.

- Inspect Global Bonds: Choose a curve, sovereign, credit, derivatives or funding view and read the source classification.
- Check wider funding context: Open Financial Stress or Deposits and retain each measure's own period and method.
- Inspect a banking reference: Use Bank Run Monitor's institution/source views and the separate Bank CDS table.

▼ Global Bonds — reference detail

Global Bonds: choose a measurement, then its source

Open **Global Bonds** and use Desk, Sovereigns, Markets, Credit, Ratings & CDS, Derivatives, Offshore Currencies, Leverage/Collateral, Structured, Swap Lines/Repo, Flows, Warnings or Sources according to the question. The primary panels distinguish direct observations, contextual prices/proxies, source-required gaps and authored model components.

Read sovereign yield tenors and native units. In fiscal comparisons, general-government debt, central-only debt, consolidation and expenditure/expense definitions stay explicit. Total expenditure and expense are not summed as if they were non-overlapping measures. Source year and estimated/provisional status can differ across countries.

Ratings & CDS contains a separate broad reference workflow for issuers, funds/vehicles and rated instruments, plus public credit-derivative disclosures. See its dedicated lesson for source status, identities, contracts and price distinctions. The aggregate corporate credit/debt model does not become an issuer-level default estimate merely because a company reference is available nearby.

Derivatives, offshore currencies and funding

BIS notional, gross market value and legally netted credit exposure have different meanings. Currency legs and alternative instrument/maturity/rating breakdowns can overlap. Period-matched shares require compatible numerators/denominators. Market size is not measured loss.

Offshore USD/EUR/JPY credit and Hong Kong offshore-RMB deposit measures have source-specific currencies, components and coverage. They are not one complete global Eurocurrency money-supply total. Keep reported stocks separate from illustrative running debt clocks.

Financial Stress, Deposits and Bank Run Monitor

Use Financial Stress and Deposits for their exact funding/liquidity/positioning/price indicators and stated models. In Bank Run Monitor, distinguish official institution/system observations, authored bank-sample diagnostics and reported news/context. A payment outage, stock decline and deposit outflow are different observations.

Bank CDS retains a selected published five-year premium reference with holding-company/operating-bank boundaries and original dates. Its contract details can be incomplete. Wider rating/CDS links lead to the reference workspace rather than silently replacing model values or inferring deposit safety.

[Government finance methods](#) · [Credit/CDS methods](#) · [Bank evidence methods](#)

</watchtower/government-finance-methods.html> · </watchtower/credit-ratings-cds-methods.html> · </watchtower/bankrun-evidence-methods.html>

Global Markets & Data Search

Open **Advanced / Investigate** → **Global Markets**. The new search combines global instrument discovery with the reviewed Watchtower data catalogue, published data points and retained indexed source records.

Search beyond the movers on screen

1. Enter a company, exact listing symbol, indicator, country or topic.
2. Choose an instrument class or data-domain/source filter if needed.
3. Select **Search globally**. Typing alone does not send a provider search.
4. Switch between **Instruments**, **Data points**, **Source records**, and **Datasets & fields**, or keep **All results** to see each section.

The worldwide-equities and other market snapshot filters now have a **Search globally** action; pressing Enter hands the same query to this search. Their local filter still describes only the rows currently loaded, while the global action queries the broader discovery services.

Use **Expand search** for a full-screen research workspace. Your query, result selection and source inspector remain part of the same search.

Try Apple, RY.T0, 7203.T, 0700.HK, VOD.L, SAP.DE, RELIANCE.NS, SPY, EURUSD=X, BTC-USD, GC=F, inflation, or US deficits 2026. Provider availability and source matches vary; examples are not guaranteed live quotes.

Instruments and listings

Public Yahoo Finance discovery covers supported equities, ETFs, funds, indices, currencies, futures and crypto; TradingView adds recognized equity venue candidates. Queries are sent to those providers without Watchtower cookies or account credentials. The server requests up to 30 candidates from each provider, includes an exact-symbol fallback when applicable, and bounds the retained discovery at 90 candidates.

More instruments pages eight at a time through one five-minute discovery snapshot. Quote reads are separately bounded and source-dated; a page can have missing quotes or partial provider coverage. An expired or mismatched snapshot requires a new search. This is global discovery, not a complete exchange security master or a guarantee of real-time market data.

Check the exact symbol, asset class, exchange, currency and observation time. Cross listings are separate instruments. Company-country reference and listing country are different; unsupported TradingView venue conversions are excluded rather than assumed to be a US listing. GBP and GBp, index points, futures units and FX direction remain distinct. A missing observation time stays unknown.

Open **Charts** for the native instrument view. Its existing actions can track that exact supported selection in Pro Brief or configure an explicit alert.

Watchtower data and evidence

- **Data points** searches all definitions returned by the native public point registry: IDs, labels, descriptions, units, source names and workspace associations. Inspect a result to read its current source-qualified value and underlying fields.
- **Source records** searches the existing permission-aware retained index. Records include indexed fields, articles, events and source excerpts, with provenance. Old indexed prices or rating references are not automatically current quotes or certified current ratings. More records uses native pagination; if the index generation changes, rerun the search rather than mixing pages silently.
- **Datasets & fields** searches every reviewed source definition available through the catalogue, including catalogue-only sources with no indexed matching records. Open a dataset, set its source-native filters, then browse or search the fields and values in the returned response.

The **Search coverage & source dates** panel shows current source/point counts, index materialization time and indexed/catalogue-only/bounded coverage. The current retained index is bounded at one million records; native histories and source pagination can extend beyond it. This does not mean all information in the world is indexed. Private account data, unreviewed feeds and licensed-only provider data are not admitted to this public evidence search.

Inspect fields without leaving Global Markets

1. Choose **Browse source & fields** or **Inspect data**.
2. Review source state, values, units and distinct observation/publication/snapshot/ retrieval clocks. Definitions and original fields are in an optional disclosure.
3. For a dataset, expand **Source-native filters & pagination**. Use the documented read-only view, query, country, year or returned identifier required by that source. **Apply source filters** updates the preview.
4. Select **Browse / search source fields**. Search a field name or value, open nested objects/arrays, or select **Preview this field / record**.
5. The preview keeps stable record identity, original unit, reporting period and status when supplied. Anonymous array values require an explicitly dated reference.

More fields pages the selected response, not the source's entire history. Source-native offset/cursor/snapshot controls are independent and remain visible. Field traversal and source responses are bounded; unavailable and missing data remain explicit, not zero. Some definitions require an exact ID before they can return data. A bulk-only route may not be eligible as a Pro Brief feed.

Save and continue researching

Put in Pro Brief uses the existing owner-bound saved board and keeps Global Markets open. A stable field tracks that source identity; a retained indexed record is a dated reference. Anonymous selections use the native explicit snapshot

path. No watch or alert is enabled automatically. Existing card limits and layout/snapshot validation still apply.

Delays, cancellation and account changes

Results arrive independently: a slow market provider does not block searchable Watchtower evidence. Retry the failed section, refine the query, or use Cancel. Source dates on retained results stay unchanged. Instrument discovery is bounded to7seconds, quote enrichment to6seconds and optional country enrichment to1.5seconds; upstream availability still varies. Existing rate/capacity controls apply.

Search state and inspectors clear on account/replay transitions, and late responses are fenced. Each private facade request uses the current verified owner. This search does not require paid AI and does not rebuild the index or force source collectors.

▼ Global Markets — reference detail

The left **Market Overview**, lower **Markets** panel and full-width **Global Markets** now share consistent identities, source dates, units, flags and evidence controls. Use the compact panels for scanning and Global Markets for a wider table or symbol lookup.

Left Market Overview tabs

Tab	Read it this way
Summary	A cross-regional selection of benchmarks, commodity references, currency pairs, digital assets and qualified context. Open the complete inventory below for breadth.
US curve	Nominal Treasury yields arranged by maturity. TIPS are separate real-yield series and are excluded from this nominal curve.
Ratios	Source-aligned comparisons such as gold/silver or equity-index/gold. The dimensions and benchmark scope matter.
Global yields	Country ten-year sovereign yield observations. These are bond yields, not central-bank policy rates.
Fear & Greed	Restored Watchtower cross-asset and geographic heuristic gauges, with component eligibility and source clocks.
Market Tone	A separate descriptive view of qualified regional index price changes.
FX strength	Currency changes versus USD using the correct pair direction and reciprocal-return calculation.

Lower Markets and the full-width atlas

Commodities shows native futures quotations; **Indices** shows the registered benchmark universe; **Forex** offers market quotes and ECB references; **Crypto** shows the source-defined asset universe; **Global Stocks** shows the filtered

worldwide equity-mover scan. Use the available regional, text, rising/falling, data-gap and period controls. A rising/falling filter requires eligible non-missing change data; an undated source is not automatically a current mover.

Global Markets adds an overview and dedicated **Indices, FX, Commodities, Equities, Crypto, Yields** and **Sources** views. Symbol lookup searches supported public references. Confirm instrument type and exchange: the same ticker can identify different listings. Open the instrument for its existing chart controls, or use the information button for normalized evidence and original fields. CSV reflects the selected view; inspect the export's units, source and observation columns.

Worldwide coverage, flags and identities

The benchmark registry contains **56 indices across 44 countries/areas**. The market release verified 55 available values, including qualified SET, PSEi, Tadawul All Share and DFM General supplements. Chile S&P IPSA was a visible remaining gap. Availability can change; the registry count is not a guarantee that every record is presently populated.

Index flags identify the benchmark area. **Stock flags now prefer source-reported company country**, matched to the exact exchange-qualified instrument. That reference is not independently verified legal domicile. If company country is unavailable, a known venue flag carries an explicit **Listing** tag; if both are unknown, a neutral marker appears. Country is not guessed from quote currency or a bare ticker. Inspect the flag's source/basis and retrieval date; retrieval is not an invented corporate-validity date.

This identity treatment also appears in quote searches, company views, stock-chart headers and portfolio stock rows. Equity display-region filters use the preferred country; the company screener's existing country column is explicitly **Listing country**. CSV adds company/listing country and flag basis. FX displays the base and quote currency areas; EUR uses a union reference. Commodity mini-icons and crypto glyphs supplement names and tickers. Unknown tokens retain a readable badge. [Company-country flag update](#).

Corrections include the actual **S&P/TSX Composite, SSE 50, US CBOE VIX** identities and the current CME lumber reference **LBR=F**. Duplicate aliases for one benchmark are consolidated. An unverified name-only fallback cannot become a newly verified symbol.

Currency-reference example

Open **Forex** → **ECB references**, choose a base such as CAD, then inspect a row. The source provides currencies per EUR. Watchtower calculates a cross as **quote-per-EUR ÷ base-per-EUR on the same fixing date**. The reviewed source supplied 30 currencies including EUR and a 90-day reference file. The prior common fixing supplies the comparison, not an invented intraday quote.

For a USD/foreign pair with a 10% rise, the reciprocal foreign/USD return is approximately -9.09%, not -10%: $(1 / (1 + 0.10) - 1) \times 100$. Pair direction therefore matters in FX strength.

ECB information is [available free of charge from the ECB](#). Cross-rates and changes are Watchtower calculations. Fixings are dated reference information, not executable transaction quotes. See [market sources and calculations](#).

</watchtower/market-coverage-methods.html>

Global Politics

Read governance indicators, political news and official/report-based legislative updates by source and period.

- Select a country profile: Open Countries and compare the year, definition and coverage of a statistic.
- Inspect politics and legislation: Use Global Politics for political news and bills/legislation, including source-specific stages and dates.
- Follow the source: Separate an indicator, a news report, passage of a bill and legal commencement; keep uncertain status explicit.

▼ Global Politics — reference detail

Countries: build a dated dossier

Choose a country in **Countries** and work through its overview, statistics/trends, encyclopedia, **Demographics**, comparisons and source references. Compare compatible measures and source years; some tools allow up to four countries. Export exact source series with their units and periods.

The country/territory directory is broader than contemporary coverage for every measure. World Bank statistics have publication lags. Wikipedia prose is an on-demand revision-dated reference. Archived CIA Factbook fields retain original dates; the Factbook's retirement does not turn archival text into a current census.

Demographics provides ages/sex, families/health, education/work, migration/living and source-qualified cultural references. A same-year population pyramid requires compatible cohorts and denominators. See the dedicated Demographics lesson for details.

Politics, news and legislation

In **Global Politics**, compare country governance/development measures using their definitions, years and coverage. Use **Political news** or **Bills & legislation** to inspect source-backed records. Select country/topic/source/date and read the source-specific stage. Original publication, capture, observation, passage and effective dates are different clocks.

A publisher's headquarters is not the subject country of its report. Automated subject matches are not verified incident coordinates. Official legislative metadata and news-reported statements retain different evidence classes. Chamber passage is not automatically enactment or current legal force. Read the original record and any known official coverage gap.

The native country/source alert controls prepare a draft for review in Alert Center. An observed discovery/revision sequence is different from the time the event occurred; the first sample establishes a baseline. The guide never saves or enables that rule for you.

[Country demographic methods](#) · [Political news and legislation methods](#)

</watchtower/country-demographics-methods.html> · </watchtower/political-updates-methods.html>

Geopolitical Risk

Inspect country/region outlook, fiscal and market context, evidence, catalysts and defined model outputs.

- Read the country evidence: Open Geopolitical Risk and inspect country-table/source clocks and qualifiers.
- Inspect a scenario: Open Outcome Tree and read its criterion, horizon and contributing inputs.
- Check sensitivity and results: Separate authored assumptions, dependence bounds and actual prospective outcomes before interpreting a model value.

▼ Geopolitical Risk — reference detail

Geopolitical Risk / Outlook

The workspace includes Situation/Outlook, the Country table, forecast exploration, evidence timelines, market expectations, catalysts, track record and sources, with classic diagnostics retained separately. Select a country or region and a horizon, then open the evidence behind the chosen view. Fullscreen map-and-evidence mode keeps the map with collapsible filter and data rails.

Country tables contain source-year fiscal, market, governance and model fields. Check their individual periods and qualifications. A global scenario displayed beside a country does not become that country's probability. Reporting attention describes publication activity in its stated windows; it is not an incidence rate or coverage-adjusted measure of danger.

Compare up to four countries where offered, but keep a consistent indicator definition and date basis. Prediction-market contracts and Calendar catalysts remain separately defined evidence. Optional historical conflict layers are dated context, not a current census. [Geopolitical Outlook methods](#).

Outcome Tree / Global Risk Studio

Outcome Tree makes the authored cross-domain scenario engine inspectable. Its eight non-exclusive scenario families span banking/liquidity, cross-asset dislocation, strategic supply corridors, grid/digital infrastructure, geopolitical escalation, health/biosecurity, mobility/official controls and food/energy pressure. Supported global horizons include 24 hours, seven days and thirty days.

1. Select a scenario and horizon. Read the precise criterion and forecast window.
2. Inspect retained contributors, excluded/context-only inputs and dependency groups.
3. Open the original source records and their clocks. Shared inputs can make models dependent.
4. Use a hypothetical experiment to remove groups, attenuate evidence or change an assumed prior. Observe sensitivity without treating it as a real intervention.
5. Inspect the track record and resolution state before interpreting a numerical estimate as demonstrated predictive skill.

These scenarios are not mutually exclusive, so their values do not sum to 100%. Published conditional pathways are shown only where the source model supports them. Compound-risk views use dependence-agnostic mathematical bounds rather than assuming independence. A sensitivity range is not automatically a confidence interval.

Saved experiment recipes are account-local browser preferences. Reapplying a recipe to a newer capture can produce a different experiment; read the changed-capture message. An active experiment may stay on its accepted capture until you explicitly refresh. [Outcome Studio methods](#).

</watchtower/geopolitical-outlook-methods.html> · </watchtower/outcome-studio-methods.html>

Outcome Tree

Explore authored cross-domain scenario pathways, sensitivity, dependence and outcome evidence.

- Read the country evidence: Open Geopolitical Risk and inspect country-table/source clocks and qualifiers.
- Inspect a scenario: Open Outcome Tree and read its criterion, horizon and contributing inputs.
- Check sensitivity and results: Separate authored assumptions, dependence bounds and actual prospective outcomes before interpreting a model value.

▼ Outcome Tree — reference detail

Geopolitical Risk / Outlook

The workspace includes Situation/Outlook, the Country table, forecast exploration, evidence timelines, market expectations, catalysts, track record and sources, with classic diagnostics retained separately. Select a country or region and a horizon, then open the evidence behind the chosen view. Fullscreen map-and-evidence mode keeps the map with collapsible filter and data rails.

Country tables contain source-year fiscal, market, governance and model fields. Check their individual periods and qualifications. A global scenario displayed beside a country does not become that country's probability. Reporting attention describes publication activity in its stated windows; it is not an incidence rate or coverage-adjusted measure of danger.

Compare up to four countries where offered, but keep a consistent indicator definition and date basis. Prediction-market contracts and Calendar catalysts remain separately defined evidence. Optional historical conflict layers are dated context, not a current census. [Geopolitical Outlook methods](#).

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1. Select a scenario and horizon. Read the precise criterion and forecast window.
2. Inspect retained contributors, excluded/context-only inputs and dependency groups.
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Saved experiment recipes are account-local browser preferences. Reapplying a recipe to a newer capture can produce a different experiment; read the changed-capture message. An active experiment may stay on its accepted capture until you explicitly refresh. [Outcome Studio methods](#).

</watchtower/geopolitical-outlook-methods.html> · </watchtower/outcome-studio-methods.html>

Countries

Build country dossiers, compare source series and inspect demographics, profiles and source references.

- Select a country profile: Open Countries and compare the year, definition and coverage of a statistic.
- Inspect politics and legislation: Use Global Politics for political news and bills/legislation, including source-specific stages and dates.
- Follow the source: Separate an indicator, a news report, passage of a bill and legal commencement; keep uncertain status explicit.

▼ Countries — reference detail

Countries: build a dated dossier

Choose a country in **Countries** and work through its overview, statistics/trends, encyclopedia, **Demographics**, comparisons and source references. Compare compatible measures and source years; some tools allow up to four countries. Export exact source series with their units and periods.

The country/territory directory is broader than contemporary coverage for every measure. World Bank statistics have publication lags. Wikipedia prose is an on-demand revision-dated reference. Archived CIA Factbook fields retain original dates; the Factbook's retirement does not turn archival text into a current census.

Demographics provides ages/sex, families/health, education/work, migration/living and source-qualified cultural references. A same-year population pyramid requires compatible cohorts and denominators. See the dedicated Demographics lesson for details.

Politics, news and legislation

In **Global Politics**, compare country governance/development measures using their definitions, years and coverage. Use **Political news** or **Bills & legislation** to inspect source-backed records. Select country/topic/source/date and read the source-specific stage. Original publication, capture, observation, passage and effective dates are different clocks.

A publisher's headquarters is not the subject country of its report. Automated subject matches are not verified incident coordinates. Official legislative metadata and news-reported statements retain different evidence classes. Chamber

passage is not automatically enactment or current legal force. Read the original record and any known official coverage gap.

The native country/source alert controls prepare a draft for review in Alert Center. An observed discovery/revision sequence is different from the time the event occurred; the first sample establishes a baseline. The guide never saves or enables that rule for you.

[Country demographic methods](#) · [Political news and legislation methods](#)

</watchtower/country-demographics-methods.html> · </watchtower/political-updates-methods.html>

Bayes Threat · Ancap Welcomeness

Inspect declared country-comparison pillars, missing-input bounds and source-qualified tax/fee details.

- Inspect the declared pillars: Open Bayes Threat · Ancap Welcomeness and choose a country.
- Review the source and missing-input bounds: Read the model weights, observation years and coverage before using the rank.
- Inspect a tax or fee: Keep jurisdiction, residency/conditions, currency, effective/review dates and service scope with the value.

▼ Bayes Threat · Ancap Welcomeness — reference detail

Bayes Threat · Ancap Welcomeness now opens with country scores and independently refreshed evidence. Its country search, regional selection, comparisons, dossiers, pillar audit and JSON export provide several levels of detail.

Understand the score before ranking countries

The declared model uses twelve value pillars and a 60/40 liberty/practical balance. It is a value-based comparative model, not a probability that an event will happen or a personal guarantee about relocation. All 250 country/territory references can receive numerical estimates, but ranking eligibility depends on data-backed coverage. A neutral placeholder for missing evidence is not an observed average country outcome.

Select a country, open its pillar and source/weight breakdown, and inspect the reporting/review periods. Missing-input ranges are sensitivity bounds, not statistical confidence intervals. Related WGI and V-Dem evidence should not be treated as independent confirmation merely because it appears in separate rows. Historical comparisons must retain their model version.

Taxes & fees

The Taxes & fees view brings together source-reviewed professional tax summaries, World Bank fiscal/fee histories and selected official registry fees. Choose the country and tax category, then read the jurisdictional scope and conditions. Personal and corporate taxes, inheritance and gifts, and federal versus local charges are distinct.

A headline VAT or income-tax rate is not an effective tax bill for every person. A publisher's review date is not automatically a law's effective date. Conditional schedules should not be reduced to their first number. Historical Doing Business benchmarks remain historical; a listed incorporation fee applies to its stated service/channel and currency.

The declared fiscal screen uses fixed weights and explicit missing-input bounds. Unsupported local, social, sectoral, residency, relief and fee coverage remains a gap. Use the original authority/professional source for a specific legal or tax situation. [Welcomeness methods](#) · [Tax and fee methods](#).

</watchtower/ancap-welcomeness-methods.html> · </watchtower/country-tax-fees-methods.html>

Global Wealth / Affordability

Read wealth, consumer-price and affordability evidence with source years, currencies and comparison scope.

- Choose a wealth or price lens: Open Global Wealth / Affordability and read its evidence labels.
- Inspect the comparison basis: Separate nominal/real/PPP, currency, observation year and the model's selected coverage.
- Review a discovery item: A hardship headline or affordability screen is context; confirm important claims with original evidence.

▼ Global Wealth / Affordability — reference detail

Global Wealth / Affordability brings together observed price/income/wealth statistics, alternative measures, investment-category references and a real-value lab. Its broader research views cover official inflation, wealth and inequality, national capital, household portfolios, income/wages, housing/rents, food, living standards, debt/taxes, rates/money and resources.

Start with the country and indicator, not an assumed overall wealth ranking. Open an exact series to check its population, sector, frequency and unit. National capital is not household wealth; average wages are not every worker's pay; a rebased housing ratio is not automatically years of income.

Official CPI, annualised one-month inflation, twelve-month inflation and alternative measures have different windows. A Big Mac PPP comparison is a purchasing-power proxy, not an inflation rate. FAO food-price indices describe an international basket rather than a household's local shopping bill. PPP dollars and market-exchange-rate USD should remain separate.

The investment-category directory explains roles and limitations of equities, bonds, cash, housing, REITs, metals, commodities, land, infrastructure, private markets, pensions, human capital, digital assets and collectibles. It does not assign guaranteed returns. Reference-only commercial measures do not imply a subscription or numerical data entitlement.

In the **real-value lab**, choose explicit nominal-return, fee-drag and inflation assumptions. The real growth factor is $(1 + (\text{nominal} - \text{fee drag})/100) / (1 + \text{inflation}/100)$. A copied historical CPI value becomes a labelled assumption, not a future inflation forecast. Save the assumptions with the result so another reader can reproduce the scenario.

Monetary Predictions

Explore monetary/gold/resource evidence and declared scenario or comparison methods.

- Inspect the selected monetary view: Open Monetary Predictions and read the target, source date and method.
- Separate the gold measures: Keep holdings, flows, market prices and estimates in their stated units and periods.
- Compare resource evidence: In Commodity Wars, inspect source definitions and compatible country/resource periods before comparing a rank.

▼ Monetary Predictions — reference detail

Monetary Predictions contains several related but distinct research areas. Use the internal navigation to move between monetary/hyperinflation context, Gold and **Commodity Wars 2030**. Read the selected model's input definitions, source periods and evidence gaps before interpreting a ranking.

Monetary and gold research

Monetary screens combine the source evidence and declared methodology available in the workspace. A stress ranking or authored estimate is not automatically a calibrated probability of hyperinflation. Compare the underlying inflation, money, exchange-rate and fiscal observations rather than only the headline score.

Gold research links bullion/currency context, official reserve references and mine-production evidence where supplied. Separate a reserve stock from annual mine production, a futures quote from physical-dealer pricing, and tonnes from currency-valued holdings. Country references do not imply that all reserves have been independently audited by Watchtower.

Commodity Wars 2030

This is a source-based country resource/planning atlas. Choose a metric, reference year and estimate policy, then compare countries on the **same measure, basis, unit and year**. The reviewed catalogue initially contained 309 separate measures and a critical-material applications directory. "2030" is planning branding, not a forecast that a commodity conflict will occur in that year.

Production, reserves, resource endowments and processing capacity are different measures. Freshwater resources and adverse water stress point in different directions. Missing first-stage quantities remain unscored. A same-basis 0–100 ranking is relative to its eligible set; it is not a probability or a universal resource-security score.

Use Commodity Atlas to inspect physical references and Companies to investigate issuers, while retaining the distinction between national production statistics, mapped sites and company disclosures.

CBDC & Digital Money

Compare digital-money programmes and CBDC policy evidence with source-reported development stages.

- Resolve the sanctions subject: Open Sanctions / Ownership and inspect identifiers, programme, jurisdiction and dates.
- Compare ownership evidence: Treat names and relationship links as source-qualified matches, not automatic legal conclusions.
- Inspect the digital-money programme: Use CBDC & Digital Money and read whether a programme is researched, piloted, proposed or operating.

▼ CBDC & Digital Money — reference detail

Sanctions, trade controls and ownership

Open **Sanctions / Ownership** for listed targets, entities, individuals, vessels/aircraft, trade/export controls, country/thematic regimes and sources. Search for an identifier and open the exact source entry. Preserve the list/programme, measure, reasons and dates.

List entries can overlap and are not a deduplicated population of legally resolved identities. Similar names do not establish identity. Blocking, sectoral restrictions, banking measures, licensing requirements, verification lists and procurement/import rules are distinct. A source programme's update date is not automatically a designation date.

Country programme maps do not establish a universal embargo or a restriction's severity. Ownership search/reporting remains a separate research tool; the workspace does not automatically resolve ownership chains or apply every jurisdiction's ownership rule. Use the issuing authority's current record for a specific case.

CBDC & Digital Money

Explore country ratings, retail CBDCs, wholesale money, private money, cross-border projects, regulation, stablecoin context, dated evidence, comparison and source gaps. Select the track before comparing countries.

The declared maturity bands run from research through design/prototype, controlled pilot, limited operation and operational product. They are **ordinal deployment stages**, not percentages of national readiness, adoption, privacy, safety or investment merit. A country rating is based on eligible explicitly mapped project evidence within one track.

A shared project can cover several jurisdictions without becoming several independent programmes. A completed historical pilot is not necessarily current operation. Private stablecoins and tokenised deposits are not CBDCs; supported currency or partner participation does not establish national adoption. Editorial review and source availability expire separately, so a fetched page does not automatically renew a rating.

Mobility Intel

Inspect airport, port, rail, border, corridor and transit references/observations with coverage limits.

- Inspect a mobility node: Open Mobility Intel and use the appropriate airport/port/rail/border/transit layer.
- Inspect marine context: Use Marine for source-qualified maritime and chokepoint evidence.
- Keep reference and observation separate: A catalogue location, vessel contact, route connection and disruption threshold can have different dates and meanings.

▼ Mobility Intel — reference detail

Marine

Use **Marine** to investigate the available vessel, port, shipping and chokepoint references. Inspect the source and geographic coverage before interpreting a ship count. Public AIS samples may be regional, delayed or incomplete; a last-known position is not a current confirmed location. Embedded third-party views retain the provider's own coverage and access.

Compare a port or route observation with its source time, baseline and relevant event evidence. A position or traffic count does not directly establish cargo, ownership, delay, capacity utilisation or cause. Use Commodity Atlas and Infrastructure for physical context without treating nearby reference assets as proven affected assets.

Mobility Intel

Mobility connects ports/chokepoints, aviation weather/status and selected rail, border or corridor evidence. Its direct-evidence views retain native records, scope and formulas. PortWatch activity, METAR weather, FAA restrictions and sampled Finnish rail observations measure different things.

A weather report is not an airport-congestion reading. A scoped FAA restriction does not imply an airport-wide closure. Predicted rail timing is distinct from observed lateness. A same-weekday activity baseline needs adequate comparable samples; insufficient or stale data should not become an infinite anomaly score or a quiet condition.

For an investigation, choose one node/corridor, inspect its original operational series, then add weather, infrastructure and reporting as separately labelled context. Distinguish reference corridors from measured operations and preserve that distinction in exports.

Global Debt

Research sector/country debt evidence and source-anchored optional debt-clock illustrations.

- Select a debt definition: Open Global Debt and choose the sector, geography and period.
- Inspect the anchor: Read the source stock, units, covered economies and any extrapolation label.
- Compare like with like: Keep government, household, corporate and total nonfinancial debt definitions separate; distinguish reported values from running illustrations.

▼ Global Debt — reference detail

Global Debt covers household, consumer, card, mortgage, business, private, government, total nonfinancial, servicing, arrears, rates and related statistical families. It also retains the earlier Real Estate analysis in its own section. Use the atlas, country dossier, comparison and exact-series histories to understand the selected measure.

Compare a debt measure correctly

1. Choose the sector and measure before choosing the country ranking.
2. Read the reporting period and units: currency amount, percent of GDP, service ratio or borrowing rate.
3. Preserve valuation and lender scope. Market-value and nominal government debt are separate measures.
4. Compare like periods and definitions; do not add household/corporate totals to a private total that already contains them.
5. Export the selected series and source definition when using it outside Watchtower.

Reported, Run, Pause and Resume

The clock shelf starts in **Reported** mode. **Run** extends the latest reported stock using the declared four-quarter change and elapsed time. **Pause** freezes the model instant; **Resume** catches up. **Reported** returns to the source stock. A refresh or button click does not create a new observed balance.

The initial clock registry contained 248 models: 242 country measures and six covered-economy subtotals. Those totals cover the source's participating economies, not necessarily all world debt. Clock rates can include exchange-rate effects, valuation changes and revisions; they are not measured second-by-second borrowing or interest.

Running values are gated by comparable consecutive quarters, source age and projection bounds. Missing country measures remain missing. Pins can be displayed in **Signal Board**; playback is session state, while pins are owner-scoped preferences. For the reasoning behind the animation, see [source-anchored debt clocks](#).

Global Risk Overview

Use Global Risk Overview's country/region evidence map, matrix and embedded Systemic workbench.

- Select a country/domain: Open Global Risk Overview and locate the country control.
- Read drivers and coverage: Inspect the original source dates, excluded inputs and the meaning of the evidence-pressure score.
- Review Systemic outcomes: Use the embedded Systemic workbench or Forecast Lab; inspect frozen definitions and prospective performance.

▼ Global Risk Overview — reference detail

One home for country, regional and systemic research

Global Risk Overview combines the former Risk Overview and Systemic entry points. Start with **Risk map** or **All-domain matrix**, choose a country or region, then select the evidence domain and lookback. The current overview

provides 20 domains across five evidence families. Its 1/7/30-day controls are evidence lookbacks, not forecast horizons.

Open **Drivers & source evidence** to inspect the original observations, reporting periods, geography and source lineage. Missing, stale, expired or unsupported inputs remain unknown. Grey/unassessable areas are not certified low-risk areas. Composite evidence-pressure indices need sufficient independent-family coverage; source volume alone does not establish probability or confidence.

Systemic research and track record

Use the embedded **Systemic outlook & track record** workbench, also available in Forecast Lab. Read **Current, Outlook, Impact & dependencies, Evidence, Track record** and **Methods** for their distinct purposes. The Systemic framework's fourteen domains and frozen financial/regional targets remain separate from the overview's twenty-domain evidence map.

1. Select the exact target, model and horizon. Financial fund-price outcomes are not country crisis probabilities.
2. Inspect source cut-off, original input times, coverage and excluded/context-only evidence.
3. Separate a source-supported exposure share from an assumed relationship; a graph edge alone does not quantify loss.
4. Read genuinely issued prospective records and compatible outcomes separately from current-vintage historical reconstruction.
5. Keep unresolved and insufficiently sampled outcomes unresolved. Historical fit is not demonstrated live calibration.

The financial Systemic expansion defines 58 terminal-loss, close-path-loss and joint-decline targets over 1/5/20 NYSE sessions. Regional warning research uses its exact sampled CAP-message criteria and requires adequate sampling before inferring a negative. Use the current target/method definitions in the workspace.

Legacy workflows retains older regional-matrix watches, playbooks and briefing archives with their original meaning. It is not another independently calibrated country forecast.

[Global Risk Overview methods](#) · [Systemic methods](#)

</watchtower/global-risk-overview-methods.html> · </watchtower/systemic-risk-methods.html>

Data Q&A

Ask supported structured questions and inspect reviewed source values, evidence and native pages.

- Start with structured evidence: Open Data Q&A and choose a source/measure/period.
- Choose an AI task deliberately: Use Assistant for the relevant bounded task and inspect the source selection before Run AI.
- Review the deeper report scope: Open AI Analysis/Deep Analyst when an entitled report is appropriate. Check evidence, costs and provider/account status first.

▼ Data Q&A — reference detail

Deterministic Data Q&A

Data Q&A supports structured lookup over reviewed public sources. Use Ask, the source/dataset catalogue, Evidence, Browser snapshots and Methods to inspect what was read. Specify a country, measure and period when relevant. Keep units, reporting years and source coverage with every result. A registered dataset, a successful response and an original observation are different states.

The original lookup workflow remains distinct from the model-assisted **Semantic search & Data Q&A** task. Use the explicit AI handoff when you want interpretation or query expansion. Completing one displayed page does not mean an entire upstream source was read.

Assistant, AI Analysis and Oracle

The header **Assistant** offers 13 bounded research/help tasks. Choose the task, review the current public context and sources, use Preview evidence, and choose Run AI when ready. Generation uses the eligible account's configured OpenAI connection and existing request limits. A configured key is not proof that the provider will accept every request. Opening the learning guide makes no model request.

AI Analysis / Deep Analyst supports a deeper question/report workflow with its current scope and entitlement. **Oracle** is a separate interface. Check the relevant account/provider/credit terms in the actual tool rather than assuming all three have identical funding or persistence.

A useful question includes purpose, geography/entity, period, output and evidence standard: 'Summarise the selected funding and shipping evidence; separate observations, model context and missing coverage, and cite original dates.' This is a request example, not a claim about current events.

Read citations and exact supporting spans. Source support does not establish source truth, exhaustive coverage or model calibration. An AI answer does not silently become an official score, a saved case or an enabled rule. Native actions and private persistence require their own explicit controls.

[Assistant capabilities](#) · See the full Assistant tools lesson in this guide.

</watchtower/assistant-guide.html>

AI Analysis

Use the entitled deeper AI analysis/report workflow with explicit question, evidence and account scope.

- Start with structured evidence: Open Data Q&A and choose a source/measure/period.
- Choose an AI task deliberately: Use Assistant for the relevant bounded task and inspect the source selection before Run AI.
- Review the deeper report scope: Open AI Analysis/Deep Analyst when an entitled report is appropriate. Check evidence, costs and provider/account status first.

▼ AI Analysis — reference detail

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[Assistant capabilities](#) · See the full Assistant tools lesson in this guide.

</watchtower/assistant-guide.html>

Incident Graph

Inspect source-linked incident context and graph relationships without assuming independent verification.

- Start with a source record: Open Linked Events and select a topic or record.
- Inspect the relationship: Use Incident Graph to see the stated link, dates and source evidence.
- Resolve the entity: Open Entity Explorer when an organisation, identifier or relationship needs closer inspection.

▼ Incident Graph — reference detail

Linked Events: follow source records and revisions

Open **Linked Events** for the feed, filters, timeline, map, associations, sources and recorded changes. Search and narrow by source/type/time before opening a record. Its detail distinguishes occurrence, publication, issuance, source-snapshot and collection clocks where available.

Track a record, add a note or save a view when you want to return to it. The tracker can preserve changes observed since collection began; it does not reconstruct every earlier revision at the publisher. Tracking here is browser-local and does not automatically arm an alert or synchronise to another browser. Export/import or use My Watchtower for its separate cloud workflow.

Associations use shared entities, headline/document evidence and time windows. They are leads for investigation, not causal connections or independent verification. A publisher's country and a place mentioned in text do not automatically establish event coordinates. Relevant unlocated records remain useful in the list.

Incident Graph and Entity Explorer

Incident Graph helps inspect relationships among events, places and related evidence. Select a node or map item, read the relationship description and open the supporting records. Expand the map or description controls when the graph is dense. Ask whether an edge represents a shared reference, inferred association, model relation or observed fact.

Entity Explorer is useful when the subject is an organisation, person, asset or other named entity rather than a single event. Resolve ambiguous names using identifiers and source context. Similar labels can describe different entities; repeated mentions are not evidence of legal ownership or operational control.

A good investigation preserves three things separately: the original record, your relationship hypothesis and the evidence that would confirm or contradict that hypothesis.

Entity Explorer

Explore reported entities and relationships; review identifiers and source lineage.

- Start with a source record: Open Linked Events and select a topic or record.
- Inspect the relationship: Use Incident Graph to see the stated link, dates and source evidence.
- Resolve the entity: Open Entity Explorer when an organisation, identifier or relationship needs closer inspection.

▼ Entity Explorer — reference detail

Linked Events: follow source records and revisions

Open **Linked Events** for the feed, filters, timeline, map, associations, sources and recorded changes. Search and narrow by source/type/time before opening a record. Its detail distinguishes occurrence, publication, issuance, source-snapshot and collection clocks where available.

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A good investigation preserves three things separately: the original record, your relationship hypothesis and the evidence that would confirm or contradict that hypothesis.

Sanctions / Ownership

Inspect sanctions/ownership references with exact identities, authority, programme and dates.

- Resolve the sanctions subject: Open Sanctions / Ownership and inspect identifiers, programme, jurisdiction and dates.
- Compare ownership evidence: Treat names and relationship links as source-qualified matches, not automatic legal conclusions.
- Inspect the digital-money programme: Use CBDC & Digital Money and read whether a programme is researched, piloted, proposed or operating.

▼ Sanctions / Ownership — reference detail

Sanctions, trade controls and ownership

Open **Sanctions / Ownership** for listed targets, entities, individuals, vessels/aircraft, trade/export controls, country/thematic regimes and sources. Search for an identifier and open the exact source entry. Preserve the list/programme, measure, reasons and dates.

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Country programme maps do not establish a universal embargo or a restriction's severity. Ownership search/reporting remains a separate research tool; the workspace does not automatically resolve ownership chains or apply every jurisdiction's ownership rule. Use the issuing authority's current record for a specific case.

CBDC & Digital Money

Explore country ratings, retail CBDCs, wholesale money, private money, cross-border projects, regulation, stablecoin context, dated evidence, comparison and source gaps. Select the track before comparing countries.

The declared maturity bands run from research through design/prototype, controlled pilot, limited operation and operational product. They are **ordinal deployment stages**, not percentages of national readiness, adoption, privacy, safety or investment merit. A country rating is based on eligible explicitly mapped project evidence within one track.

A shared project can cover several jurisdictions without becoming several independent programmes. A completed historical pilot is not necessarily current operation. Private stablecoins and tokenised deposits are not CBDCs; supported currency or partner participation does not establish national adoption. Editorial review and source availability expire separately, so a fetched page does not automatically renew a rating.

Cyber Exposure

Read vulnerability, incident and network context without equating a reference with a confirmed compromise.

- Read the disruption evidence: Open Outages and select a source/service/geography with its original date.
- Inspect cyber evidence: Use Cyber Exposure for source-specific vulnerabilities, incidents and network context.
- Check the causal claim: An outage and a vulnerability record do not by themselves establish a common cause or a compromised organisation.

▼ Cyber Exposure — reference detail

World Disruption Observatory

Outages brings together service incidents and other disruption-related evidence with source/time/location filters, maintenance/recovery/context/stale controls, a map, an unlocated list and exports. Open the source detail before treating a coloured marker as an ongoing failure.

A provider status notice, planned maintenance, a recovery message and a measured regional power fault are different records. An unlocated cloud-service event should not acquire a headquarters “impact point.” Satellite orbit positions are not customer-impact footprints. Old standing-status notices are not newly failed systems. Source record counts are not unique outage counts.

Cyber Exposure

The deeper cyber workspace includes advisories, CISA KEV, EPSS, recent critical CVEs, package advisories, Internet measurements, response directories, ATT&CK, reporting, dated C2 history and sources. Select the view and identifiers, inspect native evidence and export a coherent filtered selection.

CVSS describes technical severity; **KEV** records known exploitation under its catalogue rules; **EPSS** is a defined thirty-day exploitation estimate/rank. A due date can apply to a particular regulated audience. None of these alone proves that your organisation runs a vulnerable affected version.

Country lenses may show measurement samples, issuing jurisdictions, directory references or report associations. They are not automatically attack-origin/victim locations or national cyber-safety rankings. Historical hosting references remain historical even if a retained source flag once said “online.” Use the original advisories and affected-version detail for a concrete exposure investigation.

Satellite & Sensor Data

Inspect satellite/sensor references, dated imagery comparisons and epoch-qualified pass calculations.

- Inspect the space-weather panel: Compare Live, Threats, Forecast, Aurora, Asteroids and Sources for their different products.
- Inspect a satellite reference: Open Satellite & Sensor Data and read catalogue/element/source epochs.
- Use imagery or pass tools carefully: A dated image comparison and a pass calculation are source/geometry-specific products, not current sensor collection or guaranteed visibility.

▼ Satellite & Sensor Data — reference detail

Space Weather tabs

The Space Weather area contains **Live**, **Threats**, **Forecast**, **Aurora**, **Asteroids** and **Sources**. Use it to distinguish measured solar-terrestrial conditions, official NOAA products, research models and NASA/JPL orbital references.

Live/Threats can include Kp, solar wind, radiation channels and official R/S/G scale context. Read channel, unit, quality flag and validity time. Kp, local K, Dst and geoelectric fields are different quantities. Missing official values should not be interpreted as G0/R0/S0. A regional geoelectric model is not a measured induced-current or power-failure map.

Aurora uses model fields and their valid times, not a direct sky observation. Inspect a cell, frame date and hemisphere/world view. Cloud, local terrain and light pollution affect what a person sees and are not automatically represented. GloTEC background-only versus observation-supported cells have their own support meaning.

Asteroids separates orbital catalogue references, predicted close approaches, Sentry monitoring, Scout candidates and historical fireballs. MOID is a distance between orbital paths, not a predicted simultaneous encounter. PHA classification is not an impact prediction. Source orbital epochs and TDB approach dates differ from a present-time position. [Space Weather methods](#).

Satellite & Sensor Data

Search the orbital/reference catalogue, filter ownership/type/coverage, select an object and inspect its source elements, epoch and projected track. Positions calculated from orbital elements are estimates with age limits. Missing or incompatible elements do not acquire invented positions.

Ownership references can be uncertain or use classifications that are not simple ISO countries. An organisation attached to a station module is not necessarily the owner of the whole station. Object counts can include reference/uncertain records and are not a count of confirmed operational satellites. Layers and fullscreen controls change presentation while retaining these qualifications.

</watchtower/space-weather-methods.html>

Infrastructure

Explore physical/network layers, street imagery, private GIS, drawing and map briefings.

- Choose an asset/network layer: Open Infrastructure and find the relevant layer/source controls.
- Inspect the feature: Read its identifier, source, date, geometry meaning and operating/proposed/unknown lifecycle.
- Compare network context: Use Pacific/subsea and integrated tools where useful; do not infer live flow or exact routes from schematic links.

▼ Infrastructure — reference detail

Infrastructure is the physical/network reference workspace: use the available asset and network layers, search, map inspection and source controls to investigate power, communications, data centres, exchanges, pipelines and related systems. Distinguish a mapped reference network from a measured service outage or current flow.

Pacific cable connections

The recent update makes the map wrap across the date line and adds a **Pacific cables** view. The selected FASTER, Unity, JUPITER, PLCN and PC1 connections are drawn as purple dashed schematic links between approximate, system-specific localities. They describe **same-system connectivity**, not surveyed seabed paths, precise landing locations or inferred cross-connects between neighbouring systems.

Open a line or locality, read the system/source description and use the original operator or specialist reference. Omitted branches and source history remain explicit. A reference to a cancelled route does not make it part of the current schematic; the cancelled PLCN Hong Kong branch is excluded.

Underwater power and pipelines

Use the **Undersea networks** controls for power/pipeline layers, search, lifecycle/history and Pacific/world framing. The parent layer matters: power follows Power or Global Grid, pipelines follow Pipelines, and schematic communications follow Fibre/Cables. If an overlay is unexpectedly absent, check the parent toggle first.

The October OSM reference capture contained 3,260 power ways and 15,332 pipeline ways, including inland-water crossings. These are mapped ways, not unique complete systems or an exhaustive operating inventory. Construction, proposed, disused and abandoned tags affect the default view; unverified lifecycle is not assumed operational. Shared-node components describe mapping topology, not proven live flow.

Native infrastructure, atlas overlays and these supplemental references have separate counts and scopes. Preserve OSM/ODbL or the stated schematic attribution in exports. [Subsea methods](#) · [Fibre methods](#).

</watchtower/infrastructure-subsea-methods.html> · </watchtower/infrastructure-fibre-methods.html>

War Room

Use guided place/dam/history questions or the full investigation, case and terrain/radio tools.

- Start with a clear question: Open War Room → Simple view and choose Check a place, Find a dam or Explore map.
- Inspect sources and assumptions: Read the chosen catalogue, historical period, geometry and any volume/terrain gaps.
- Use All tools deliberately: Open the full investigation/planning controls when needed; preserve your native case and explicitly chosen scenario inputs.

▼ War Room — reference detail

Start with Simple view

Open **War Room** and use the clear starting choices: **Check a place**, **Find a dam**, **Explore map** and **Help**. The **All tools** control returns to the complete monitoring, investigation and planning interface. These are War Room display choices, separate from the Simple/Extended levels of this guide.

For a place question, choose the intended location or a map point, select the radius and historical period, then read the summary and source details. A search radius is not a hazard footprint; no matching records does not establish safety. Country extents need an actual point rather than an invented country-centre observation. The summary can be downloaded as text for the chosen scope.

Dams, terrain and historical records

The source picker keeps GDAT, GeoDAR and the GDW viewer extract separate. Their identifiers, counts, geometry and capacity definitions differ; nearby rows are not automatically the same dam. A reservoir outline is not a catchment or flood polygon. Published storage capacity is not current storage. Terrain/place references, storm tracks and historical hazards retain their source dates and geometry meaning.

A water-budget example requires an explicit chosen/reported volume, fraction and duration. The fraction 25% means 0.25. A static water-on-terrain example and a radio line-of-sight calculation use stated assumptions and the native models. They do not establish a dam breach, arrival time, flow velocity, casualties, evacuation route, access permission or guaranteed reception. Missing terrain remains unknown.

Investigations and saved work

Use the native Monitor/Investigate/Tools workflows in All tools for source-linked cases, imagery and planning. The current War Room workbench provides authenticated owner-scoped server cases with its Save/Open/share controls. Read the save/share status before assuming a draft is persisted or another person can access it. Guided place/scenario selections and comparisons have their own session/export semantics. Private browser GIS layers and map notes belong to their own storage system.

Native fullscreen keeps the same iframe, map and draft context, with a fallback when browser fullscreen is unavailable. Use the explicit exit/close control; do not recreate the map just to gain space.

Commodity Atlas

Inspect commodity/site/network reference layers and original source geometry/periods.

- Choose a commodity and geography: Open Commodity Atlas and inspect the source layers.
- Read the data companion: Use Commodities Data for its tables and source-defined measures.
- Inspect a site reference: Read coordinates/locality precision, capacity/production definitions, lifecycle and original source before linking it to a company.

▼ Commodity Atlas — reference detail

Commodity Atlas is the map-led resource workspace; **Commodities Data** is its data-oriented companion. Use commodity/category, geography, source and available lifecycle/history filters before selecting a site, network or country reference. Open details for the native identifier, original source, observation/reference date and geometry meaning.

Commodity prices, national production totals, reserves/resources, processing facilities, ports and transport links are different layers. A mapped mine reference does not prove current production, company ownership share or available capacity. A country production series should not be allocated to a site without an explicit source.

New industrial-gas references

The gas-facility addition contains eleven curated facility/complex records and thirteen gas identities at release. It supports process, gas and text filtering and includes a **Neon** shortcut to the source-backed POSCO AIR SOLUTION Gwangyang reference.

Explore air/rare gases, helium, natural gas/LPG, electrolysis, reforming, gasification, CO₂ and biogas processes as represented. Specialty-synthesis gaps are explicit. Source-reported planned output is separate from operating output; an undated source keeps its undated status.

Markers are authored approximate **locality references**, not verified facility coordinates. Read the dashed/reference labels and source cards before using the location. The inventory is partial. Follow a reference to Companies for issuer research and to Monetary Predictions → Commodity Wars for same-basis country resource comparisons. [Gas-facility release](#).

Commodities Data

Use the data-oriented commodity companion for source-defined rows, measures and map context.

- Choose a commodity and geography: Open Commodity Atlas and inspect the source layers.
- Read the data companion: Use Commodities Data for its tables and source-defined measures.
- Inspect a site reference: Read coordinates/locality precision, capacity/production definitions, lifecycle and original source before linking it to a company.

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Commodity Atlas is the map-led resource workspace; **Commodities Data** is its data-oriented companion. Use commodity/category, geography, source and available lifecycle/history filters before selecting a site, network or country reference. Open details for the native identifier, original source, observation/reference date and geometry meaning.

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Companies

Resolve issuer/listing identities, financial facts, filings, company profiles and separate credit references.

- Find the issuer: Open Companies and use its universe or market dossier controls.
- Inspect identifiers and facts: Check the CIK/LEI/listing and the exact financial reporting period. Category membership is not proof of current production.
- Check agency and CDS references: Use the separate credit-reference card or Global Bonds hub; verify the actual source-rated entity.

▼ Companies — reference detail

Open **Companies** when you need to move from a commodity theme or ticker to a specific issuer. Search the reference universe, identify the correct listing/entity and inspect the source-backed dossier. Use the available source, category, geography and history controls rather than assuming every result is an active listed company.

The mining/extraction universe combines selected SEC extraction/mining registrants, Wikidata entities and labelled curated references. Broad industry categories can include energy and services. Company names alone do not establish commodity exposure; a “junior” label or low market capitalisation does not establish operating stage. Listing-venue and business-address country are not mine locations.

For a selected supported SEC issuer, primary facts retain the entity identifier, taxonomy concept, value, unit, reporting start/end, filing date, form and accession source. Compare compatible periods and currencies. An amendment can supersede a fact for the same period. The panel does not manufacture trailing-twelve-month results, EV multiples or cash runway from unmatched observations.

Production, reserves/resources, AISC, guidance, mine ownership and project capex require current issuer disclosures or technical reports. Use their source links for those questions. A reference company population is useful discovery, not an exhaustive current worldwide mining census. Optional connected-provider data remains subject to your account and the provider's licence. [Companies methods](#).

</watchtower/companies-research-methods.html>

Financial Stress

Inspect banking, funding, flow, positioning and wider financial-stress evidence and methods.

- Inspect Global Bonds: Choose a curve, sovereign, credit, derivatives or funding view and read the source classification.
- Check wider funding context: Open Financial Stress or Deposits and retain each measure's own period and method.
- Inspect a banking reference: Use Bank Run Monitor's institution/source views and the separate Bank CDS table.

▼ Financial Stress — reference detail

Global Bonds: choose a measurement, then its source

Open **Global Bonds** and use Desk, Sovereigns, Markets, Credit, Ratings & CDS, Derivatives, Offshore Currencies, Leverage/Collateral, Structured, Swap Lines/Repo, Flows, Warnings or Sources according to the question. The primary panels distinguish direct observations, contextual prices/proxies, source-required gaps and authored model components.

Read sovereign yield tenors and native units. In fiscal comparisons, general-government debt, central-only debt, consolidation and expenditure/expense definitions stay explicit. Total expenditure and expense are not summed as if they were non-overlapping measures. Source year and estimated/provisional status can differ across countries.

Ratings & CDS contains a separate broad reference workflow for issuers, funds/vehicles and rated instruments, plus public credit-derivative disclosures. See its dedicated lesson for source status, identities, contracts and price

distinctions. The aggregate corporate credit/debt model does not become an issuer-level default estimate merely because a company reference is available nearby.

Derivatives, offshore currencies and funding

BIS notional, gross market value and legally netted credit exposure have different meanings. Currency legs and alternative instrument/maturity/rating breakdowns can overlap. Period-matched shares require compatible numerators/denominators. Market size is not measured loss.

Offshore USD/EUR/JPY credit and Hong Kong offshore-RMB deposit measures have source-specific currencies, components and coverage. They are not one complete global Eurocurrency money-supply total. Keep reported stocks separate from illustrative running debt clocks.

Financial Stress, Deposits and Bank Run Monitor

Use Financial Stress and Deposits for their exact funding/liquidity/positioning/price indicators and stated models. In Bank Run Monitor, distinguish official institution/system observations, authored bank-sample diagnostics and reported news/context. A payment outage, stock decline and deposit outflow are different observations.

Bank CDS retains a selected published five-year premium reference with holding-company/operating-bank boundaries and original dates. Its contract details can be incomplete. Wider rating/CDS links lead to the reference workspace rather than silently replacing model values or inferring deposit safety.

[Government finance methods](#) · [Credit/CDS methods](#) · [Bank evidence methods](#)

</watchtower/government-finance-methods.html> · </watchtower/credit-ratings-cds-methods.html> · </watchtower/bankrun-evidence-methods.html>

Deposits

Read deposit/liquidity measures with their definitions, source coverage and reporting periods.

- Inspect Global Bonds: Choose a curve, sovereign, credit, derivatives or funding view and read the source classification.
- Check wider funding context: Open Financial Stress or Deposits and retain each measure's own period and method.
- Inspect a banking reference: Use Bank Run Monitor's institution/source views and the separate Bank CDS table.

▼ Deposits — reference detail

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[Government finance methods](#) · [Credit/CDS methods](#) · [Bank evidence methods](#)

</watchtower/government-finance-methods.html> · </watchtower/credit-ratings-cds-methods.html> · </watchtower/bankrun-evidence-methods.html>

Prediction Markets

Inspect prediction-market contract terms, deadlines, resolution sources and market context.

- Open a contract: Use Prediction Markets to select a specific market and outcome.
- Read the rule: Inspect the question wording, outcome deadline, resolution source and trading state.
- Compare carefully: Separate price-implied expectations from a Watchtower forecast and from an already verified outcome.

▼ Prediction Markets — reference detail

Prediction Markets → **Market Radar** provides a risk radar, screener, repricing view, closing calendar, event ladders, themes, browser-local watchlist, comparisons and source methods. The integrated catalogue is a reviewed subset of

Polymarket and Kalshi, not each venue's entire market universe.

Open the exact contract before interpreting a displayed price. Read the outcome wording, Yes polarity, resolution criteria, close time and quote time. Two similar headlines can have different settlement conditions. Nested thresholds or contracts about the same event overlap and should not be added into a total probability.

Use books/depth and histories where available to understand the quotation's context. Missing trades or a thin book should remain missing/thin, not be replaced with an assumed price. USD volume on one venue and contract counts on another are distinct measures. Related news or a Watchtower model can provide context, but does not settle the contract.

A market price is a market observation about a particular payoff. It is not Watchtower's calibrated forecast or confirmation that the event happened. Watchlist saves here are browser-local. See [Prediction Markets methods](#).

</watchtower/prediction-risk-methods.html>

Cameras

Search public camera references, use explicit viewing-wall controls and inspect mapped Flock locations.

- Inspect a camera record: Open Cameras and read the source, media type, timestamps and available access.
- Use playback explicitly: Start/stop the supported image/stream or viewing-wall slot yourself; registered references do not guarantee playback.
- Inspect Flock locations: Treat these as community-mapped location references with source-change history, not plate records or verified live hardware status.

▼ Cameras — reference detail

Public camera explorer

Open **Cameras** to search a place, radius, country, source or media type. Inspect the source record before opening an image or stream. Official snapshots, community discovery links and directory-only references are different. A registered camera record does not guarantee live playback.

Create a viewing wall using the supported 1/4/9/16-slot layouts, favourites and explicit start/stop controls. Custom public HTTPS images/HLS/clips or YouTube links may be supported, subject to browser, codec, CORS and provider rules. The wall does not create a recording or a media-rebroadcast entitlement.

Walls/favourites and custom URLs are account-scoped browser preferences. Export/import them for a deliberate backup. Hidden/replay/account transitions stop or clear playback as required; opening a new account should not restore another account's wall. [Camera methods](#).

Flock locations

Choose **Flock locations** for the community-mapped OSM/DeFlock ALPR reference inventory, its map/list/search/radius filters, explicit bearings and source-change history. This is a database of reported locations, not plate records, camera video, verified hardware counts or current operational status.

An added or removed source record is a mapping change; it does not prove that hardware was installed, removed or moved at that instant. No viewing cone is inferred from a point. Tracked IDs are browser-local and do not send notifications. Preserve the source dates and ODbL attribution in exports. [Flock release](#).

</watchtower/camera-methods.html>

Bank Run Monitor

Inspect institution/system banking evidence, model context and the selected published bank CDS reference.

- Inspect Global Bonds: Choose a curve, sovereign, credit, derivatives or funding view and read the source classification.
- Check wider funding context: Open Financial Stress or Deposits and retain each measure's own period and method.
- Inspect a banking reference: Use Bank Run Monitor's institution/source views and the separate Bank CDS table.

▼ Bank Run Monitor — reference detail

Global Bonds: choose a measurement, then its source

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[Government finance methods](#) · [Credit/CDS methods](#) · [Bank evidence methods](#)

</watchtower/government-finance-methods.html> · </watchtower/credit-ratings-cds-methods.html> · </watchtower/bankrun-evidence-methods.html>

Pro Brief

Build your own Pro Brief by clicking windows and choosing their feeds, while retaining source dates, units and original ready-made sections.

- 1. Choose a window:** Click a window heading or Choose feed. Search the picker for a ready-made section, public data point or reviewed source.
- 2. Choose what it shows:** Review Summary, Records / table or named data fields. Set optional native source filters, then Use this feed.
- 3. Arrange and keep your layout:** Add, move, resize or remove windows. Undo and Restore original layout are available. Browser-local preferences are account-scoped; export/import layout definitions to move them deliberately.
- 4. Read and export responsibly:** Check source state, observation time, units, scope and preview bounds. Export brief reflects the displayed selections rather than hidden original sections.

▼ Pro Brief — reference detail

These are different entry points for different jobs.

Surface	Best use	Key distinction
Brief / public overview	A public first look at current source-backed context.	Selected overview, not the full specialist workspace.
Pro Brief	A compact signed-in research starting point.	News and prices first, with deeper context and navigation.
My Watchtower briefing	Your watch-based personal edition and changes.	Private configuration and server-generated personal workflow.
Reports	Periodic or requested documents and retained evidence.	A report edition has its own period, access and source manifest.

Read the lead items, then open their canonical workspace. A concise card is a pointer to evidence, not a substitute for all source qualifications. When a source is unavailable, follow the coverage detail rather than interpreting an empty card as a normal condition.

Signal Board lets you assemble a focused monitoring display. Search for a signal, pin it, reorder or remove tiles, and expand the board when useful. Source-anchored debt clocks can also be pinned here. Their playback state is shared with the corresponding debt-clock controls during the session; a running animation does not turn a reported stock into a live measurement.

Alert Screen is the compact place to review monitoring conditions. It is not identical to the Alerts rule editor or My Watchtower's server inbox. Use the alert's own origin, threshold, timestamp and evidence to decide where to investigate next.

Choose the news in a Brief

Pro Brief and Daily Brief offer **News preferences** for topic, source type, editorial perspective and an integer story count from 0 to 50. Zero hides news; the initial defaults are six Pro Brief stories and ten Daily Brief stories. Choices are browser-local by default, per owner and per brief, with a separate guest namespace; Research tools → Device sync can explicitly transfer selected account preferences. Pro uses a 48-hour window; Daily uses the current UTC day and retains its region selection. Publisher labels describe source context, not article accuracy or inferred event geography. Saved invalid choices require explicit correction rather than silent replacement. A copied live Brief link does not transfer your saved preferences.

Signal Board

Triage displayed signals and inspect the exact measure or source behind a tile.

- Choose an overview: Open Pro Brief and identify its period and scope.
- Inspect a signal: Open Signal Board, choose one item and trace the source behind it.
- Review the alert screen: Compare the board's chosen metrics with the specific thresholds or conditions they represent.

▼ Signal Board — reference detail

These are different entry points for different jobs.

Surface	Best use	Key distinction
Brief / public overview	A public first look at current source-backed context.	Selected overview, not the full specialist workspace.
Pro Brief	A compact signed-in research starting point.	News and prices first, with deeper context and navigation.
My Watchtower briefing	Your watch-based personal edition and changes.	Private configuration and server-generated personal workflow.
Reports	Periodic or requested documents and retained evidence.	A report edition has its own period, access and source manifest.

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Alert Screen

Use the configured monitoring/alert display and read its chosen conditions and metrics.

- Choose an overview: Open Pro Brief and identify its period and scope.
- Inspect a signal: Open Signal Board, choose one item and trace the source behind it.
- Review the alert screen: Compare the board's chosen metrics with the specific thresholds or conditions they represent.

▼ Alert Screen — reference detail

These are different entry points for different jobs.

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My Watchtower briefing	Your watch-based personal edition and changes.	Private configuration and server-generated personal workflow.
Reports	Periodic or requested documents and retained evidence.	A report edition has its own period, access and source manifest.

Read the lead items, then open their canonical workspace. A concise card is a pointer to evidence, not a substitute for all source qualifications. When a source is unavailable, follow the coverage detail rather than interpreting an empty card as a normal condition.

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Watchtower Search

Search the retained public corpus and follow qualified results to source records and workspaces.

- Ask a focused search question: Use a place, issuer, event or source term rather than a broad conclusion.
- Narrow the search: Use the source/type/category/period controls offered in the result view. Inspect duplicates and original-source links.
- Open the evidence home: Follow a result to its specialist workspace and keep its source date and scope with your notes.

▼ Watchtower Search — reference detail

Watchtower Search searches the retained canonical corpus and is available in both Simple and Advanced layouts. It can surface source records, public reporting, social items, data and supported destinations with provenance and freshness context.

Search deliberately

1. Start with an entity, instrument, country or phrase. Add a second discriminating term if the results are broad.
2. Use the available result-type/category filters. A news result, source status row and measured event are different things.
3. Expand the result to read its indexed excerpt and source metadata. The excerpt is what was retained, not guaranteed to be the complete current publisher page.

- 4. Follow the original source, qualified data detail, country view or market destination.
- 5. If a **Show on map (OpenStreetMap)** action is present, read the coordinate qualification. It opens an external marked map for a supported source-owned point; it does not establish a new main-globe observation.

Search is a retained index with a scheduled refresh. A record newly available in a live dataset may appear in Search later. Source-specific filters, retention limits and entitlements still apply. Private My Watchtower items, account records and private investigation contents are not part of the shared public corpus. Live search is withheld during replay rather than being mixed into a historical view.

Use **Data Q&A** for supported structured numeric questions; use Search when you need to locate records or reporting. Use a specialist workspace when the task requires complete filtered tables, detailed histories or source-native pagination.

Alerts

Inspect alerts and rule definitions, including evaluation location, freshness, unknowns and delivery.

- Identify the monitoring system: Open Alerts and distinguish browser rules from personal server-inbox workflows.
- Read the condition tree: Inspect ALL/ANY/NOT groups, units, crossing/duration behaviour, freshness and cooldown before saving or arming.
- Practise missing-input logic: Use the teaching example to see how unknown propagates through a condition.

▼ Alerts — reference detail

There are several monitoring workflows. Choose by where the condition is evaluated and where you expect to read the result.

Workflow	Evaluation and delivery	What to remember
Alerts / Intelligence Rule Studio	Browser evaluation while the eligible page is visible, live and verified.	Closing the page stops this evaluator; it does not promise email, Telegram or webhooks.
My Watchtower	Private server workflow with configured watches, budgets, scheduled briefings and in-app inbox.	Read the server inbox and its exact matched evidence.
Aviation operations	Supported server watch/inbox features plus browser-specific notifications.	Browser notifications require their open/allowed context; paid manual lookups are separate.
Forecast Lab original watches	Account-local browser baselines and visible-workspace change checks.	A saved target is not automatically a closed-browser notification subscription.
Linked Events / Flock tracking	Local tracking, notes or source-change inspection.	Tracking by itself does not arm an alert.
Exposure monitor	Its own entitled, owner-scoped monitoring rules.	Confirm the particular rule and channel; do not assume it shares another tool's capabilities.

Build a multi-input browser rule

1. Open **Alerts** → **Intelligence Rule Studio** and name the question the rule is meant to detect.
2. Select inputs from the available loaded public-source field catalogue. Read each field's units and timestamp basis.
3. Combine conditions using **ALL (AND)**, **ANY (OR)** and optional **NOT** groups. For example, A AND (B OR C) makes a different claim from (A AND B) OR C.
4. Set the maximum age, matching/crossing/duration behaviour and cooldown deliberately.
5. Test against the current evidence. Inspect true, false and unknown branches before saving and arming.
6. Read a triggered report for the exact thresholds, source values, times and optional scenario note.

Missing, stale, failed or future inputs are **unknown**. NOT unknown remains unknown. A crossing needs two comparable timestamped values. "Observed true for" means matching sampled checks over the chosen duration; gaps can reset that duration. Unknown data does not silently rearm a condition as if it had become known false.

Imported definitions require review and arming. Browser-local rule/report exports can contain your notes and assumptions. Experimental linear projection from session samples is an extrapolation of observed snapshots, not a calibrated event forecast or invented historical series. [Rule methods](#).

</watchtower/intelligence-rules-methods.html>

Portfolio

Review owner-scoped holdings/exposure inputs, source quotes, valuation gaps and explicit saves.

- Check the active account: Open Portfolio and verify the account and saved-state status before editing.
- Inspect the inputs: Read quantities, instrument/listing identifiers, currencies and quote freshness. Enter or save only through the native controls.
- Review the exposure method: An overlap or industry relationship is not a measured loss; keep assumptions and mapping gaps with the conclusion.

▼ Portfolio — reference detail

Portfolio applies research context to the holdings and exposure information you choose to maintain. Begin by checking the verified account and the saved portfolio state before editing. Identify each instrument and listing, enter quantities/cost assumptions in the appropriate units, and confirm the application's save result. A portfolio view is not a broker order ticket.

Inspect quote freshness and mapping coverage before interpreting valuations or exposures. A fund can hold many underlying assets; a ticker's listing country does not establish its economic exposure. A missing quote or unresolved mapping is a gap, not a zero-value holding. Snapshot valuations, historical research and scenario assumptions should remain separately labelled in any report.

Personal-relevance/consequences tools can connect selected evidence to your supplied context. Treat their results as conditional research: the source event, exposure mapping and assumed consequence are separate steps. A geographic overlap or shared industry label is not measured loss or a guaranteed impact on a holding.

Where the account's exposure-monitor rules are available, inspect the rule's fields, thresholds, evaluation status and delivery channel. These rules have their own server-side contracts. They do not automatically convert every browser rule, watchlist or map pin into unattended monitoring. Export the assessment assumptions with your evidence when sharing a portfolio-related conclusion.

Only the portfolio's native controls edit or save holdings. Learning progress contains lesson identifiers and knowledge checks, not your portfolio inputs.

Reports

Read or request an entitled report and preserve its edition, period and evidence manifest.

- Select an edition: Open Reports and read the publication and covered period.
- Inspect edition evidence: Use the source/manifest controls and keep the edition's captured evidence identity.
- Export or request explicitly: Read the offered formats and current price/scope before any purchase or generation. Use native confirmation controls yourself.

▼ Reports — reference detail

Open **Reports** in the app or the [report library](#). The system distinguishes periodic daily/weekly/monthly editions, requested special reports, local/browser research outputs and personal My Watchtower briefings.

Read an edition

1. Identify the edition date and covered period: daily, weekly or trailing calendar-month windows are not interchangeable.
2. Read the executive briefing and domain sections, then open the source/coverage register.
3. Use **Inspect edition evidence** where entitled. The evidence view binds to the edition's captured source identity rather than silently substituting today's data.
4. Inspect source fields/pages or download the source manifest. Preserve original observations, source state, query scope and model versions.
5. Download the offered HTML/PDF/JSON formats and writing style. The selected style should not change the underlying factual evidence or purchased scope.

An edition can include current evidence, retained/aged context, unknown clocks and unavailable sources. Its source count is not a number of independent verified incidents. A lack of capture history limits what "changed over the period" can establish. Report documents can remain available after some raw evidence retention expires; use the manifest and any explicit evidence-expiry notice.

Request and purchase deliberately

Choose the report's topic/scope and inspect availability and the displayed price before confirming. Use the current displayed report scope, price and checkout terms; offers can change. Optional research requests may have separate credit/provider costs.

After a payment or generation request, use the existing purchase/confirmation status and report library. A pending confirmation is not an instruction to pay again. Download under the purchasing account, and retain the original edition identity with your copy. [Reporting release](#).

Marine

Read maritime, port and chokepoint evidence and distinguish movement observations from references.

- Inspect a mobility node: Open Mobility Intel and use the appropriate airport/port/rail/border/transit layer.
- Inspect marine context: Use Marine for source-qualified maritime and chokepoint evidence.
- Keep reference and observation separate: A catalogue location, vessel contact, route connection and disruption threshold can have different dates and meanings.

▼ Marine — reference detail

Marine

Use **Marine** to investigate the available vessel, port, shipping and chokepoint references. Inspect the source and geographic coverage before interpreting a ship count. Public AIS samples may be regional, delayed or incomplete; a last-known position is not a current confirmed location. Embedded third-party views retain the provider's own coverage and access.

Compare a port or route observation with its source time, baseline and relevant event evidence. A position or traffic count does not directly establish cargo, ownership, delay, capacity utilisation or cause. Use Commodity Atlas and Infrastructure for physical context without treating nearby reference assets as proven affected assets.

Mobility Intel

Mobility connects ports/chokepoints, aviation weather/status and selected rail, border or corridor evidence. Its direct-evidence views retain native records, scope and formulas. PortWatch activity, METAR weather, FAA restrictions and sampled Finnish rail observations measure different things.

A weather report is not an airport-congestion reading. A scoped FAA restriction does not imply an airport-wide closure. Predicted rail timing is distinct from observed lateness. A same-weekday activity baseline needs adequate comparable samples; insufficient or stale data should not become an infinite anomaly score or a quiet condition.

For an investigation, choose one node/corridor, inspect its original operational series, then add weather, infrastructure and reporting as separately labelled context. Distinguish reference corridors from measured operations and preserve that distinction in exports.

Air / Aviation

Inspect public aircraft/contact observations, replay/context and supported private research/watch features.

- Select an observation: Open Air / Aviation and inspect the source-native aircraft/contact identity and time.
- Read operational context: Review airport, weather and airspace evidence with its own source clock and coverage.
- Choose a research workflow: Use retained replay, comparisons or authorised private case/watch features deliberately. Manual paid/provider lookups are separate actions.

▼ Air / Aviation — reference detail

The dedicated **Air / Aviation** workspace supports 2D/3D views, unified search, filters, aircraft detail, follow, trails/charts, airport lookup, replay, comparisons, context, licensed reference images, private investigations and supported cloud views/watches/inbox functions.

Follow a public observation

1. Search by a supported callsign, registration, identifier or airport reference. Check the identity fields rather than relying only on a familiar label.
2. Select the aircraft. Compare **position time**, **last contact time** and collection time.
3. Inspect altitude/speed/track units and the available observed trail. A directional marker follows supplied track; missing direction is not invented.
4. Use follow or fullscreen when useful. Switch to retained-observation replay for history actually captured by Watchtower.
5. Export the supported public observation or trail with its source attribution and gaps.

Public ADSB.lol is the default source. Receiver/query/metadata coverage is uneven; counts include source targets and are not all worldwide flights or verified flight legs. Retained history grows from actual collection and can shorten under caps. Gaps and implausible jumps split trails rather than being joined into a fabricated flight path.

Airport, weather and airspace context

Context can include OurAirports references, AWC METAR/TAF/SIGMET/G-AIRMET, FAA status/TFR/airspace and retained weather warnings. FAA coverage is not a complete global NOTAM service. A weather polygon overlapping a horizontal aircraft position does not prove flight impact. Read original notices and validity windows.

Personal and licensed additions

Use the workspace's supported cloud views, watches, server inbox and account-private investigations for its newer operations workflow. Browser notifications require the relevant open browser context; server inbox evaluation is separate. Local watch preferences and cloud records are not interchangeable.

API Connections & Add-ons → **Aviation Data Add-ons** can use your eligible FlightAware AeroAPI, ADSBX Enterprise or aviationstack credentials. These are manual, owner-private lookups with separate provider terms/charges. They do not turn paid results into shared public trails, watches or cases. [Aviation methods](#) · [Investigation release](#).

Conflict / Military

Review source-qualified public conflict/military reports, observations and historical context.

- Select the public evidence view: Open Conflict / Military and choose the appropriate source/layer/time selection.
- Inspect a report or marker: Read its source, date, classification and geography precision rather than treating a symbol as verification.
- Compare independent context: Use original reports and dated historical layers separately; volume and proximity do not establish an operational conclusion.

▼ Conflict / Military — reference detail

Conflict / Military aggregates source-qualified conflict and military-related public evidence. Use geography, time, source and layer filters, then select a record and read its geometry, event class and original report. Country outlines, event points, reference facilities and reported activity should remain distinct.

The unified map is useful for moving from a regional overview to the underlying source, rather than drawing conclusions from the density of markers alone. Multiple reports can concern one development; uneven reporting can leave significant gaps. A military-related headline, an official statement and an independently observed event have different meanings.

Use Geopolitical Risk for global model/context views, War Room for a place-based investigation, Aviation for its dedicated public aircraft observations, and Satellite & Sensor Data for orbital/reference context. A source military label on an aircraft is not independently verified ownership, mission, occupants or intent. Sharing a location or date across layers is a research lead, not by itself a causal or operational conclusion.

Outages

Inspect disruption evidence by source, service, geography and original event/publication times.

- Read the disruption evidence: Open Outages and select a source/service/geography with its original date.
- Inspect cyber evidence: Use Cyber Exposure for source-specific vulnerabilities, incidents and network context.
- Check the causal claim: An outage and a vulnerability record do not by themselves establish a common cause or a compromised organisation.

▼ Outages — reference detail

World Disruption Observatory

Outages brings together service incidents and other disruption-related evidence with source/time/location filters, maintenance/recovery/context/stale controls, a map, an unlocated list and exports. Open the source detail before treating a coloured marker as an ongoing failure.

A provider status notice, planned maintenance, a recovery message and a measured regional power fault are different records. An unlocated cloud-service event should not acquire a headquarters “impact point.” Satellite orbit positions are not customer-impact footprints. Old standing-status notices are not newly failed systems. Source record counts are not unique outage counts.

Cyber Exposure

The deeper cyber workspace includes advisories, CISA KEV, EPSS, recent critical CVEs, package advisories, Internet measurements, response directories, ATT&CK, reporting, dated C2 history and sources. Select the view and identifiers, inspect native evidence and export a coherent filtered selection.

CVSS describes technical severity; **KEV** records known exploitation under its catalogue rules; **EPSS** is a defined thirty-day exploitation estimate/rank. A due date can apply to a particular regulated audience. None of these alone proves that your organisation runs a vulnerable affected version.

Country lenses may show measurement samples, issuing jurisdictions, directory references or report associations. They are not automatically attack-origin/victim locations or national cyber-safety rankings. Historical hosting references remain historical even if a retained source flag once said “online.” Use the original advisories and affected-version detail for a concrete exposure investigation.

Weather Alerts

Read official warnings, weather products and source-specific area/validity windows.

- Read a warning window: Open Weather Alerts and inspect issue/effective/expiry times and source geometry.
- Compare the hazard evidence: Open Natural Hazards for its event and source-specific context.
- Check the layer’s meaning: Separate observed events, forecast areas, historical references, advisories and unlocated records.

▼ Weather Alerts — reference detail

Weather Alerts

The global warning view offers country, severity, current/upcoming and multilingual text filters; paginated lists; original information/instructions; source details; map geometry; JSON export; and a country/territory coverage directory.

Read the issuing authority, issue/effective/expiry times, severity and message status. CAP updates and cancellations follow explicit source references. Multiple messages or language blocks are not necessarily separate storms. Japan's JMA municipality/hazard states retain their own levels and are not simply interchangeable with CAP severity categories.

A coverage directory listing does not guarantee complete current delivery for that country. **No reported warning, partial, stale, not integrated** and **unavailable** have different meanings. Warnings without qualified geometry remain in the list; Watchtower does not fabricate a country-centre impact polygon. [Global warning release](#).

Natural Hazards

Use **Natural Hazards** for earthquakes, severe-weather products, fires, tropical systems, volcanic evidence and related observations/reference layers. Its recent expansion reuses still-valid global warnings, adds source event inspection and improves native-unit temperature, rain and snowfall cards.

The volcanic controls include source bulletins and published VAAC observed/+6/+12/+18-hour airborne-ash areas, with source flight levels. **Airborne ash is not ground ashfall, a pyroclastic-flow footprint or an evacuation zone.** An older open EONET listing does not establish a continuing eruption. No synthetic danger cone should be inferred from a volcano point.

Optional historical landslide reports, dated fault traces, reference volcanoes and LHASA model imagery have separate meanings and are generally off until selected. COOLR reports can be historical. GEM fault traces are geological references, not earthquake predictions. Provider-latest LHASA imagery may lack an exposed run timestamp.

Snow depth appears only when a source supplies it; rainfall is not converted to snowfall with an assumed ratio. Preserve observation/forecast/maximum labels, units and accumulation windows. The newness highlight uses an eligible source time for a bounded ten-minute window; refreshing does not restart an event's age. [Expanded hazard methods](#).

</watchtower/natural-hazards-expanded-methods.html>

Health / Biosecurity

Inspect public-health/biosecurity observations with definitions, denominators, periods and source scope.

- Inspect health evidence: Open Health / Biosecurity and read the source definition, period and geography.
- Inspect crime/security evidence: Open Crime & Terror and distinguish reported events, official statistics and authored context.
- Check comparability: Different reporting systems, denominators and missing coverage can make simple country rankings misleading.

▼ Health / Biosecurity — reference detail

Health / Biosecurity

Use Health's evidence views for official disease/outbreak reporting, wastewater and animal-health context where supplied, plus its facilities reference view. Select the source, country, date and event type, then read reporting/observation periods and geographical coverage. More reports can reflect more surveillance rather than a directly comparable increase in disease incidence.

The **Facilities** view supports source, type, focus, containment and lifecycle filters. It combines reviewed institutional references with supported registration evidence. FDA registration is not product approval or containment certification. BSL4, CL4, PC4 and other source schemes retain their own labels. Planned or commissioning facilities do not become verified operational capacity.

Facility markers can be city/locality references rather than building coordinates. Unmapped records remain available. A source reference should not be interpreted as a complete census of laboratories, manufacturing plants or national health capacity. [Health methods](#) · [Facility methods](#).

Crime & Terror

This map-led workspace combines global evidence with selected police/agency bulletins and statistical area/cell references. Use the filter and data rails, source/lag details, unlocated records, comparison and export tools. Some workflows open a map-first fullscreen view; close it to restore the original tab.

Police bulletins can be preliminary. A municipality centre is not an incident site. Statistical cells aggregate a specified category/month and reporting sample, while coverage can be capped or lagged. Different jurisdiction definitions and collection windows prevent treating raw counts as comparable personal-risk rates.

Inspect the original classification, period and geometry before combining Crime & Terror with a country dossier or a War Room case. A blank area can be uncovered or suppressed by filters; it does not establish low crime. Separate your assessment from the source's statement.

</watchtower/health-world-methods.html> · </watchtower/health-facilities-methods.html>

Crime & Terror

Read source-qualified crime/security events and statistics without assuming complete reporting.

- Inspect health evidence: Open Health / Biosecurity and read the source definition, period and geography.
- Inspect crime/security evidence: Open Crime & Terror and distinguish reported events, official statistics and authored context.
- Check comparability: Different reporting systems, denominators and missing coverage can make simple country rankings misleading.

▼ Crime & Terror — reference detail

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Crime & Terror

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</watchtower/health-world-methods.html> · </watchtower/health-facilities-methods.html>

Breaking

Read the current breaking-news selection and inspect each original report and publication clock.

- Compare news lenses: Choose Breaking, Economics, Technology, Health/Bio or Natural Disasters for the question at hand.
- Inspect public social context: Review the original post, attribution and time. Treat it according to its source and evidence class.
- Follow a narrative: Use Narratives to compare reported claims and their evolution; inspect originals for important changes.

▼ Breaking — reference detail

The News area contains **Breaking**, **Economics**, **Technology**, **Health / Bio**, **Natural Disasters**, **Search** and **Narratives**. The separate **Social** workspace is in the main Advanced navigation. Reader topic controls remain available in expanded/fullscreen views.

Read across sources

Choose a topic, date window and geography, then refine by source type, platform or editorial context where offered. Open the original story or post. Compare publication times and publisher families before interpreting repeated coverage as independent support. Reading-list and saved-filter tools preserve the source metadata needed to revisit the item.

Source type, **editorial/political leaning**, **platform** and **reliability** are not interchangeable. A source can be unclassified without being centrist. Wire status does not guarantee neutrality. Labels may be based on publisher self-description or attributed editorial review and do not assign beliefs to every author or reader.

The expanded source directory includes alternative and libertarian publications and selected public Bluesky, YouTube, Mastodon, Lemmy, PeerTube, Rumble-reference, Odysee and podcast sources. These are bounded reviewed feeds, not complete social-platform firehoses. A publisher-linked video reference may retain the referring article's clock rather than a verified video-upload timestamp. A directory-only channel is a discoverable reference, not a connected feed.

Use **Narratives** to explore themes and related reporting. A cluster describes a grouping, not proof of coordination or truth. When exporting or writing a report, retain publisher URLs, publication dates and relevant source labels. Detailed distinctions are in [media methods](#).

</watchtower/media-methods.html>

Economics

Focus the newsroom on economic reporting while keeping claims and observations distinct.

- Compare news lenses: Choose Breaking, Economics, Technology, Health/Bio or Natural Disasters for the question at hand.
- Inspect public social context: Review the original post, attribution and time. Treat it according to its source and evidence class.
- Follow a narrative: Use Narratives to compare reported claims and their evolution; inspect originals for important changes.

▼ Economics — reference detail

The News area contains **Breaking**, **Economics**, **Technology**, **Health / Bio**, **Natural Disasters**, **Search** and **Narratives**. The separate **Social** workspace is in the main Advanced navigation. Reader topic controls remain available in expanded/fullscreen views.

Read across sources

Choose a topic, date window and geography, then refine by source type, platform or editorial context where offered. Open the original story or post. Compare publication times and publisher families before interpreting repeated coverage as independent support. Reading-list and saved-filter tools preserve the source metadata needed to revisit the item.

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</watchtower/media-methods.html>

Technology

Focus on technology reporting and inspect the original claim/source context.

- Compare news lenses: Choose Breaking, Economics, Technology, Health/Bio or Natural Disasters for the question at hand.
- Inspect public social context: Review the original post, attribution and time. Treat it according to its source and evidence class.
- Follow a narrative: Use Narratives to compare reported claims and their evolution; inspect originals for important changes.

▼ Technology — reference detail

The News area contains **Breaking**, **Economics**, **Technology**, **Health / Bio**, **Natural Disasters**, **Search** and **Narratives**. The separate **Social** workspace is in the main Advanced navigation. Reader topic controls remain available in expanded/fullscreen views.

Read across sources

Choose a topic, date window and geography, then refine by source type, platform or editorial context where offered. Open the original story or post. Compare publication times and publisher families before interpreting repeated coverage as independent support. Reading-list and saved-filter tools preserve the source metadata needed to revisit the item.

Source type, **editorial/political leaning**, **platform** and **reliability** are not interchangeable. A source can be unclassified without being centrist. Wire status does not guarantee neutrality. Labels may be based on publisher self-description or attributed editorial review and do not assign beliefs to every author or reader.

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</watchtower/media-methods.html>

Health / Bio

Read health/biosecurity reporting with the source's evidence, dates and terminology.

- Compare news lenses: Choose Breaking, Economics, Technology, Health/Bio or Natural Disasters for the question at hand.
- Inspect public social context: Review the original post, attribution and time. Treat it according to its source and evidence class.
- Follow a narrative: Use Narratives to compare reported claims and their evolution; inspect originals for important changes.

▼ Health / Bio — reference detail

The News area contains **Breaking**, **Economics**, **Technology**, **Health / Bio**, **Natural Disasters**, **Search** and **Narratives**. The separate **Social** workspace is in the main Advanced navigation. Reader topic controls remain available in expanded/fullscreen views.

Read across sources

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Use **Narratives** to explore themes and related reporting. A cluster describes a grouping, not proof of coordination or truth. When exporting or writing a report, retain publisher URLs, publication dates and relevant source labels. Detailed distinctions are in [media methods](#).

</watchtower/media-methods.html>

Natural Disasters

Read natural-hazard reporting alongside the relevant official/event workspace.

- Compare news lenses: Choose Breaking, Economics, Technology, Health/Bio or Natural Disasters for the question at hand.
- Inspect public social context: Review the original post, attribution and time. Treat it according to its source and evidence class.
- Follow a narrative: Use Narratives to compare reported claims and their evolution; inspect originals for important changes.

▼ Natural Disasters — reference detail

The News area contains **Breaking**, **Economics**, **Technology**, **Health / Bio**, **Natural Disasters**, **Search** and **Narratives**. The separate **Social** workspace is in the main Advanced navigation. Reader topic controls remain available in expanded/fullscreen views.

Read across sources

Choose a topic, date window and geography, then refine by source type, platform or editorial context where offered. Open the original story or post. Compare publication times and publisher families before interpreting repeated coverage as independent support. Reading-list and saved-filter tools preserve the source metadata needed to revisit the item.

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Use **Narratives** to explore themes and related reporting. A cluster describes a grouping, not proof of coordination or truth. When exporting or writing a report, retain publisher URLs, publication dates and relevant source labels. Detailed distinctions are in [media methods](#).

</watchtower/media-methods.html>

Search

Search the news selection deliberately and open the original source record.

- Compare news lenses: Choose Breaking, Economics, Technology, Health/Bio or Natural Disasters for the question at hand.
- Inspect public social context: Review the original post, attribution and time. Treat it according to its source and evidence class.
- Follow a narrative: Use Narratives to compare reported claims and their evolution; inspect originals for important changes.

▼ Search — reference detail

The News area contains **Breaking**, **Economics**, **Technology**, **Health / Bio**, **Natural Disasters**, **Search** and **Narratives**. The separate **Social** workspace is in the main Advanced navigation. Reader topic controls remain available in expanded/fullscreen views.

Read across sources

Choose a topic, date window and geography, then refine by source type, platform or editorial context where offered. Open the original story or post. Compare publication times and publisher families before interpreting repeated coverage as independent support. Reading-list and saved-filter tools preserve the source metadata needed to revisit the item.

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Use **Narratives** to explore themes and related reporting. A cluster describes a grouping, not proof of coordination or truth. When exporting or writing a report, retain publisher URLs, publication dates and relevant source labels. Detailed distinctions are in [media methods](#).

</watchtower/media-methods.html>

Narratives

Follow narrative/reporting patterns while checking source lineage and changes in scope.

- Compare news lenses: Choose Breaking, Economics, Technology, Health/Bio or Natural Disasters for the question at hand.
- Inspect public social context: Review the original post, attribution and time. Treat it according to its source and evidence class.
- Follow a narrative: Use Narratives to compare reported claims and their evolution; inspect originals for important changes.

▼ Narratives — reference detail

The News area contains **Breaking**, **Economics**, **Technology**, **Health / Bio**, **Natural Disasters**, **Search** and **Narratives**. The separate **Social** workspace is in the main Advanced navigation. Reader topic controls remain available in expanded/fullscreen views.

Read across sources

Choose a topic, date window and geography, then refine by source type, platform or editorial context where offered. Open the original story or post. Compare publication times and publisher families before interpreting repeated coverage as independent support. Reading-list and saved-filter tools preserve the source metadata needed to revisit the item.

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</watchtower/media-methods.html>

Commodities

Inspect commodity-market reference rows with instrument, currency, unit and source time.

- Read a market row: Start in Market Overview Summary and inspect the instrument, source and clock.
- Compare a specialist panel: Use the Markets panel for the relevant asset class. Indices and individual stocks are different inventories.
- Explore the global atlas: Open Global Markets and check regional selection, company/listing-country basis and available coverage.

▼ Commodities — reference detail

The left **Market Overview**, lower **Markets** panel and full-width **Global Markets** now share consistent identities, source dates, units, flags and evidence controls. Use the compact panels for scanning and Global Markets for a wider table or symbol lookup.

Left Market Overview tabs

Tab	Read it this way
Summary	A cross-regional selection of benchmarks, commodity references, currency pairs, digital assets and qualified context. Open the complete inventory below for breadth.
US curve	Nominal Treasury yields arranged by maturity. TIPS are separate real-yield series and are excluded from this nominal curve.
Ratios	Source-aligned comparisons such as gold/silver or equity-index/gold. The dimensions and benchmark scope matter.
Global yields	Country ten-year sovereign yield observations. These are bond yields, not central-bank policy rates.
Fear & Greed	Restored Watchtower cross-asset and geographic heuristic gauges, with component eligibility and source clocks.
Market Tone	A separate descriptive view of qualified regional index price changes.
FX strength	Currency changes versus USD using the correct pair direction and reciprocal-return calculation.

Lower Markets and the full-width atlas

Commodities shows native futures quotations; **Indices** shows the registered benchmark universe; **Forex** offers market quotes and ECB references; **Crypto** shows the source-defined asset universe; **Global Stocks** shows the filtered worldwide equity-mover scan. Use the available regional, text, rising/falling, data-gap and period controls. A rising/falling filter requires eligible non-missing change data; an undated source is not automatically a current mover.

Global Markets adds an overview and dedicated **Indices, FX, Commodities, Equities, Crypto, Yields** and **Sources** views. Symbol lookup searches supported public references. Confirm instrument type and exchange: the same ticker can identify different listings. Open the instrument for its existing chart controls, or use the information button for normalized evidence and original fields. CSV reflects the selected view; inspect the export's units, source and observation columns.

Worldwide coverage, flags and identities

The benchmark registry contains **56 indices across 44 countries/areas**. The market release verified 55 available values, including qualified SET, PSEi, Tadawul All Share and DFM General supplements. Chile S&P IPSA was a visible remaining gap. Availability can change; the registry count is not a guarantee that every record is presently populated.

Index flags identify the benchmark area. **Stock flags now prefer source-reported company country**, matched to the exact exchange-qualified instrument. That reference is not independently verified legal domicile. If company country is unavailable, a known venue flag carries an explicit **Listing** tag; if both are unknown, a neutral marker appears. Country is not guessed from quote currency or a bare ticker. Inspect the flag's source/basis and retrieval date; retrieval is not an invented corporate-validity date.

This identity treatment also appears in quote searches, company views, stock-chart headers and portfolio stock rows. Equity display-region filters use the preferred country; the company screener's existing country column is explicitly **Listing country**. CSV adds company/listing country and flag basis. FX displays the base and quote currency areas; EUR uses a union reference. Commodity mini-icons and crypto glyphs supplement names and tickers. Unknown tokens retain a readable badge. [Company-country flag update](#).

Corrections include the actual **S&P/TSX Composite, SSE 50, US CBOE VIX** identities and the current CME lumber reference **LBR=F**. Duplicate aliases for one benchmark are consolidated. An unverified name-only fallback cannot become a newly verified symbol.

Currency-reference example

Open **Forex** → **ECB references**, choose a base such as CAD, then inspect a row. The source provides currencies per EUR. Watchtower calculates a cross as **quote-per-EUR ÷ base-per-EUR on the same fixing date**. The reviewed source supplied 30 currencies including EUR and a 90-day reference file. The prior common fixing supplies the comparison, not an invented intraday quote.

For a USD/foreign pair with a 10% rise, the reciprocal foreign/USD return is approximately −9.09%, not −10%: $(1 / (1 + 0.10) - 1) \times 100$. Pair direction therefore matters in FX strength.

ECB information is [available free of charge from the ECB](#). Cross-rates and changes are Watchtower calculations. Fixings are dated reference information, not executable transaction quotes. See [market sources and calculations](#).

</watchtower/market-coverage-methods.html>

Indices

Inspect equity index/benchmark rows; this is distinct from an individual-company universe.

- Read a market row: Start in Market Overview Summary and inspect the instrument, source and clock.
- Compare a specialist panel: Use the Markets panel for the relevant asset class. Indices and individual stocks are different inventories.
- Explore the global atlas: Open Global Markets and check regional selection, company/listing-country basis and available coverage.

▼ Indices — reference detail

The left **Market Overview**, lower **Markets** panel and full-width **Global Markets** now share consistent identities, source dates, units, flags and evidence controls. Use the compact panels for scanning and Global Markets for a wider table or symbol lookup.

Left Market Overview tabs

Tab	Read it this way
Summary	A cross-regional selection of benchmarks, commodity references, currency pairs, digital assets and qualified context. Open the complete inventory below for breadth.
US curve	Nominal Treasury yields arranged by maturity. TIPS are separate real-yield series and are excluded from this nominal curve.
Ratios	Source-aligned comparisons such as gold/silver or equity-index/gold. The dimensions and benchmark scope matter.
Global yields	Country ten-year sovereign yield observations. These are bond yields, not central-bank policy rates.
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Worldwide coverage, flags and identities

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ECB information is [available free of charge from the ECB](#). Cross-rates and changes are Watchtower calculations. Fixings are dated reference information, not executable transaction quotes. See [market sources and calculations](#).

</watchtower/market-coverage-methods.html>

Forex

Read FX pairs and their reference/change conventions with the relevant source clock.

- Read a market row: Start in Market Overview Summary and inspect the instrument, source and clock.
- Compare a specialist panel: Use the Markets panel for the relevant asset class. Indices and individual stocks are different inventories.
- Explore the global atlas: Open Global Markets and check regional selection, company/listing-country basis and available coverage.

▼ Forex — reference detail

The left **Market Overview**, lower **Markets** panel and full-width **Global Markets** now share consistent identities, source dates, units, flags and evidence controls. Use the compact panels for scanning and Global Markets for a wider table or symbol lookup.

Left Market Overview tabs

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Summary	A cross-regional selection of benchmarks, commodity references, currency pairs, digital assets and qualified context. Open the complete inventory below for breadth.
US curve	Nominal Treasury yields arranged by maturity. TIPS are separate real-yield series and are excluded from this nominal curve.
Ratios	Source-aligned comparisons such as gold/silver or equity-index/gold. The dimensions and benchmark scope matter.
Global yields	Country ten-year sovereign yield observations. These are bond yields, not central-bank policy rates.
Fear & Greed	Restored Watchtower cross-asset and geographic heuristic gauges, with component eligibility and source clocks.
Market Tone	A separate descriptive view of qualified regional index price changes.
FX strength	Currency changes versus USD using the correct pair direction and reciprocal-return calculation.

Lower Markets and the full-width atlas

Commodities shows native futures quotations; **Indices** shows the registered benchmark universe; **Forex** offers market quotes and ECB references; **Crypto** shows the source-defined asset universe; **Global Stocks** shows the filtered worldwide equity-mover scan. Use the available regional, text, rising/falling, data-gap and period controls. A rising/falling filter requires eligible non-missing change data; an undated source is not automatically a current mover.

Global Markets adds an overview and dedicated **Indices, FX, Commodities, Equities, Crypto, Yields** and **Sources** views. Symbol lookup searches supported public references. Confirm instrument type and exchange: the same ticker can identify different listings. Open the instrument for its existing chart controls, or use the information button for normalized evidence and original fields. CSV reflects the selected view; inspect the export's units, source and observation columns.

Worldwide coverage, flags and identities

The benchmark registry contains **56 indices across 44 countries/areas**. The market release verified 55 available values, including qualified SET, PSEi, Tadawul All Share and DFM General supplements. Chile S&P IPSA was a visible remaining gap. Availability can change; the registry count is not a guarantee that every record is presently populated.

Index flags identify the benchmark area. **Stock flags now prefer source-reported company country**, matched to the exact exchange-qualified instrument. That reference is not independently verified legal domicile. If company country is unavailable, a known venue flag carries an explicit **Listing** tag; if both are unknown, a neutral marker appears. Country is not guessed from quote currency or a bare ticker. Inspect the flag's source/basis and retrieval date; retrieval is not an invented corporate-validity date.

This identity treatment also appears in quote searches, company views, stock-chart headers and portfolio stock rows. Equity display-region filters use the preferred country; the company screener's existing country column is explicitly **Listing country**. CSV adds company/listing country and flag basis. FX displays the base and quote currency areas; EUR uses a union reference. Commodity mini-icons and crypto glyphs supplement names and tickers. Unknown tokens retain a readable badge. [Company-country flag update](#).

Corrections include the actual **S&P/TSX Composite, SSE 50, US CBOE VIX** identities and the current CME lumber reference **LBR=F**. Duplicate aliases for one benchmark are consolidated. An unverified name-only fallback cannot become a newly verified symbol.

Currency-reference example

Open **Forex** → **ECB references**, choose a base such as CAD, then inspect a row. The source provides currencies per EUR. Watchtower calculates a cross as **quote-per-EUR ÷ base-per-EUR on the same fixing date**. The reviewed source supplied 30 currencies including EUR and a 90-day reference file. The prior common fixing supplies the comparison, not an invented intraday quote.

For a USD/foreign pair with a 10% rise, the reciprocal foreign/USD return is approximately −9.09%, not −10%: $(1 / (1 + 0.10) - 1) \times 100$. Pair direction therefore matters in FX strength.

ECB information is [available free of charge from the ECB](#). Cross-rates and changes are Watchtower calculations. Fixings are dated reference information, not executable transaction quotes. See [market sources and calculations](#).

</watchtower/market-coverage-methods.html>

Crypto

Read crypto market price rows, then use Crypto Intel for deeper token/network context.

- Read a market row: Start in Market Overview Summary and inspect the instrument, source and clock.
- Compare a specialist panel: Use the Markets panel for the relevant asset class. Indices and individual stocks are different inventories.
- Explore the global atlas: Open Global Markets and check regional selection, company/listing-country basis and available coverage.

▼ Crypto — reference detail

The left **Market Overview**, lower **Markets** panel and full-width **Global Markets** now share consistent identities, source dates, units, flags and evidence controls. Use the compact panels for scanning and Global Markets for a wider table or symbol lookup.

Left Market Overview tabs

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</watchtower/market-coverage-methods.html>

Global Markets & Data Search

Open **Advanced / Investigate** → **Global Markets**. The new search combines global instrument discovery with the reviewed Watchtower data catalogue, published data points and retained indexed source records.

Search beyond the movers on screen

1. Enter a company, exact listing symbol, indicator, country or topic.
2. Choose an instrument class or data-domain/source filter if needed.
3. Select **Search globally**. Typing alone does not send a provider search.
4. Switch between **Instruments**, **Data points**, **Source records**, and **Datasets & fields**, or keep **All results** to see each section.

The worldwide-equities and other market snapshot filters now have a **Search globally** action; pressing Enter hands the same query to this search. Their local filter still describes only the rows currently loaded, while the global action queries the broader discovery services.

Use **Expand search** for a full-screen research workspace. Your query, result selection and source inspector remain part of the same search.

Try Apple, RY.T0, 7203.T, 0700.HK, VOD.L, SAP.DE, RELIANCE.NS, SPY, EURUSD=X, BTC-USD, GC=F, inflation, or US deficits 2026. Provider availability and source matches vary; examples are not guaranteed live quotes.

Instruments and listings

Public Yahoo Finance discovery covers supported equities, ETFs, funds, indices, currencies, futures and crypto; TradingView adds recognized equity venue candidates. Queries are sent to those providers without Watchtower cookies or account credentials. The server requests up to 30 candidates from each provider, includes an exact-symbol fallback when applicable, and bounds the retained discovery at 90 candidates.

More instruments pages eight at a time through one five-minute discovery snapshot. Quote reads are separately bounded and source-dated; a page can have missing quotes or partial provider coverage. An expired or mismatched snapshot requires a new search. This is global discovery, not a complete exchange security master or a guarantee of real-time market data.

Check the exact symbol, asset class, exchange, currency and observation time. Cross listings are separate instruments. Company-country reference and listing country are different; unsupported TradingView venue conversions are excluded rather than assumed to be a US listing. GBP and GBp, index points, futures units and FX direction remain distinct. A missing observation time stays unknown.

Open **Charts** for the native instrument view. Its existing actions can track that exact supported selection in Pro Brief or configure an explicit alert.

Watchtower data and evidence

- **Data points** searches all definitions returned by the native public point registry: IDs, labels, descriptions, units, source names and workspace associations. Inspect a result to read its current source-qualified value and underlying fields.
- **Source records** searches the existing permission-aware retained index. Records include indexed fields, articles, events and source excerpts, with provenance. Old indexed prices or rating references are not automatically current quotes or certified current ratings. More records uses native pagination; if the index generation changes, rerun the search rather than mixing pages silently.
- **Datasets & fields** searches every reviewed source definition available through the catalogue, including catalogue-only sources with no indexed matching records. Open a dataset, set its source-native filters, then browse or search the fields and values in the returned response.

The **Search coverage & source dates** panel shows current source/point counts, index materialization time and indexed/catalogue-only/bounded coverage. The current retained index is bounded at one million records; native histories and source pagination can extend beyond it. This does not mean all information in the world is indexed. Private account data, unreviewed feeds and licensed-only provider data are not admitted to this public evidence search.

Inspect fields without leaving Global Markets

1. Choose **Browse source & fields** or **Inspect data**.
2. Review source state, values, units and distinct observation/publication/snapshot/ retrieval clocks. Definitions and original fields are in an optional disclosure.
3. For a dataset, expand **Source-native filters & pagination**. Use the documented read-only view, query, country, year or returned identifier required by that source. **Apply source filters** updates the preview.
4. Select **Browse / search source fields**. Search a field name or value, open nested objects/arrays, or select **Preview this field / record**.
5. The preview keeps stable record identity, original unit, reporting period and status when supplied. Anonymous array values require an explicitly dated reference.

More fields pages the selected response, not the source's entire history. Source-native offset/cursor/snapshot controls are independent and remain visible. Field traversal and source responses are bounded; unavailable and missing data remain explicit, not zero. Some definitions require an exact ID before they can return data. A bulk-only route may not be eligible as a Pro Brief feed.

Save and continue researching

Put in Pro Brief uses the existing owner-bound saved board and keeps Global Markets open. A stable field tracks that source identity; a retained indexed record is a dated reference. Anonymous selections use the native explicit snapshot

path. No watch or alert is enabled automatically. Existing card limits and layout/snapshot validation still apply.

Delays, cancellation and account changes

Results arrive independently: a slow market provider does not block searchable Watchtower evidence. Retry the failed section, refine the query, or use Cancel. Source dates on retained results stay unchanged. Instrument discovery is bounded to7seconds, quote enrichment to6seconds and optional country enrichment to1.5seconds; upstream availability still varies. Existing rate/capacity controls apply.

Search state and inspectors clear on account/replay transitions, and late responses are fenced. Each private facade request uses the current verified owner. This search does not require paid AI and does not rebuild the index or force source collectors.

▼ Global Stocks — reference detail

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</watchtower/market-coverage-methods.html>

Live

Read current space-weather observations with source issue/observation times.

- Inspect the space-weather panel: Compare Live, Threats, Forecast, Aurora, Asteroids and Sources for their different products.
- Inspect a satellite reference: Open Satellite & Sensor Data and read catalogue/element/source epochs.
- Use imagery or pass tools carefully: A dated image comparison and a pass calculation are source/geometry-specific products, not current sensor collection or guaranteed visibility.

▼ Live — reference detail

Space Weather tabs

The Space Weather area contains **Live**, **Threats**, **Forecast**, **Aurora**, **Asteroids** and **Sources**. Use it to distinguish measured solar-terrestrial conditions, official NOAA products, research models and NASA/JPL orbital references.

Live/Threats can include Kp, solar wind, radiation channels and official R/S/G scale context. Read channel, unit, quality flag and validity time. Kp, local K, Dst and geoelectric fields are different quantities. Missing official values should not be interpreted as G0/R0/S0. A regional geoelectric model is not a measured induced-current or power-failure map.

Aurora uses model fields and their valid times, not a direct sky observation. Inspect a cell, frame date and hemisphere/world view. Cloud, local terrain and light pollution affect what a person sees and are not automatically represented. GloTEC background-only versus observation-supported cells have their own support meaning.

Asteroids separates orbital catalogue references, predicted close approaches, Sentry monitoring, Scout candidates and historical fireballs. MOID is a distance between orbital paths, not a predicted simultaneous encounter. PHA classification is not an impact prediction. Source orbital epochs and TDB approach dates differ from a present-time position. [Space Weather methods](#).

Satellite & Sensor Data

Search the orbital/reference catalogue, filter ownership/type/coverage, select an object and inspect its source elements, epoch and projected track. Positions calculated from orbital elements are estimates with age limits. Missing or incompatible elements do not acquire invented positions.

Ownership references can be uncertain or use classifications that are not simple ISO countries. An organisation attached to a station module is not necessarily the owner of the whole station. Object counts can include reference/uncertain records and are not a count of confirmed operational satellites. Layers and fullscreen controls change presentation while retaining these qualifications.

</watchtower/space-weather-methods.html>

Threats

Inspect space-weather threat/warning products and their validity windows.

- Inspect the space-weather panel: Compare Live, Threats, Forecast, Aurora, Asteroids and Sources for their different products.
- Inspect a satellite reference: Open Satellite & Sensor Data and read catalogue/element/source epochs.
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</watchtower/space-weather-methods.html>

Forecast

Read forecast products with the source's horizon and uncertainty rather than treating them as observations.

- Inspect the space-weather panel: Compare Live, Threats, Forecast, Aurora, Asteroids and Sources for their different products.
- Inspect a satellite reference: Open Satellite & Sensor Data and read catalogue/element/source epochs.
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</watchtower/space-weather-methods.html>

3D Solar System and smooth aurora maps

Open **Space Weather** → **Asteroids** or **Space Weather** → **Aurora**. Use **Full screen** for the largest map; the same controls work inside the full observatory.

Explore the 3D Solar System

- **Solar System** frames the Sun and all eight planets. **Inner planets** brings the near-Earth asteroid sample into view. Outer planets and inner orbits span very different distances; use the presets rather than expecting every body to look equally large in one view.
- Drag to orbit the camera. Shift/right-drag pans; scroll or pinch zooms. Arrow keys rotate, plus/minus zoom, and 0 resets. Touch uses one finger to rotate and two to pan/zoom. Keyboard focus on the canvas shows its focus outline.
- Choose **Focus planet** or click a visible planet to inspect a textured 3D body. Saturn includes a ring model. Close the information card when you want more room.
- Click an asteroid marker or use **Layers** → **Inspect a displayed asteroid** for its native NASA/JPL record. **Focus selected** centers the selected marker when its approximate scene-date position is available.
- **Time & display** chooses a UTC reference date from 2000 through 2049. **Play orbits** advances the illustrative scene by 8 days/second; **Pause orbits** stops it and **Today** returns to the current reference time. Motion is paused by default and stops when the scene is hidden or the account/replay context changes.
- Layers control asteroid paths, approximate markers, labels, planet orbit guides and planet bodies. **Map view** still offers the separate encounter distance/date chart and historical fireball globe. Source tables and exports remain available.

What the 3D positions mean

Planet positions use NASA/JPL SSD's **Table 1 fitted Keplerian elements and rates**, in the mean ecliptic/equinox of J2000, valid 1800–2050. This is a lower-accuracy reference model, not a numerical Horizons ephemeris. The Earth marker uses the **Earth–Moon barycenter**, not an exact Earth geocenter. Source nominal errors are body-dependent; outer-planet distance errors can be hundreds of thousands of kilometres or more.

The scene's UTC reference is converted with a fixed **+69.184 seconds** modern TT/TDB approximation. It is not an exact historical/future leap-second conversion. This approximation and the fitted orbit model are unsuitable for precise encounter timing, spacecraft navigation or occultation work. For high-precision ephemerides, use [NASA/JPL Horizons](#).

Asteroid paths retain the source semimajor axis, eccentricity, inclination, ascending node and argument of perihelion in heliocentric ecliptic J2000. Approximate scene-date markers advance the source mean anomaly using its published mean motion: $M = M_0 + n \times (\text{scene JD} - \text{source epoch JD})$. This is two-body visualization; planetary perturbations, close-encounter dynamics and covariance are not propagated. Markers more than 365.25 days from the source epoch,

or with missing/unsupported parameters, are withheld. Their valid nominal paths and original source details can still be read. The bounded map sample is at most 120 asteroids; the native catalogue remains separately searchable and exportable.

Positions and orbit paths share a **linear astronomical-unit scale**. Body sizes are enlarged for visibility, and surface orientation/lighting/stars are illustrative. The 3D scene is **not an impact corridor or collision forecast**. Use the unchanged NASA/JPL close-approach table for source TDB encounter times, geocentric miss distances and three-sigma bounds. MOID, PHA classification and Sentry probabilities retain their distinct source meanings.

Smooth aurora colors

The NOAA OVATION globe now uses a higher-resolution display raster, missing-aware bilinear interpolation and linear texture filtering. This removes block-like color steps while keeping a fixed 0–100% color scale. Interpolation wraps longitude across the date line and does not fill missing source cells or overshoot neighboring values. Rendering is performed in a bounded worker where supported, with an on-demand fallback.

- **Layers** → **Smooth aurora colors (display only)** switches between the smooth rendering and source-cell display.
- **Overlay opacity** changes visibility over the basemap. **Aurora display threshold** hides lower displayed values; it does not increase the published probabilities.
- **North / South / World**, city references, basemap selection, day/night and fullscreen remain available. Higher-quality globe antialiasing and a smoother day/night texture improve visual edges.
- A click still reports the **exact nearest published grid node**, not a newly observed/interpolated probability. **Export displayed aurora grid** exports the unchanged 360×181 source grid, with 255 reserved for missing values.
- Observation time, forecast-valid time and selected historical frame stay separate. Expired current fields are withheld; historical captured frames remain labelled. Smoothing does not add source resolution, a visibility guarantee or a system-failure probability. Clouds, local light pollution and the observer's horizon are not modeled.
- The smoothing switch applies to OVATION. GloTEC and regional geoelectric layers keep their own units, source-cell/support rules and interpretation.

Graphics, accessibility and recovery

The scene renders on demand, caps drawing-buffer size and releases hidden graphics. If WebGL 3D is unavailable, the original orbit chart and source tables remain available. A lost 3D context offers **Retry 3D**. Source failure clears the affected live evidence; reference planet geometry does not imply that asteroid data were successfully fetched. Account/replay changes clear selections and stop animation. No new paid model or provider collection is triggered by the camera controls.

Sources and visual credits

- [NASA/JPL SSD approximate positions, Table 1](#), based on E. M. Standish and J. G. Williams (1992). Coefficients and fitted validity interval are retained; the interface limits scene dates to 2000–2049.
- [NASA/JPL small-body API documentation](#) for the existing orbital catalogue, CAD, Sentry, Scout and historical fireballs.
- [NOAA SWPC OVATION model](#).
- Planet/Sun/ring textures: **Solar System Scope / INOVE**, [source pack](#), [CC BY 4.0](#). The source adjusts colors and artistically fills some unmapped terrain. These are illustrative textures, not current planetary observations. Images are hosted locally; credit remains visible on the scene and in object details.
- Three.js 0.180.0 and OrbitControls/Line2: MIT license. The pinned bundle and [license](#) are included in the release.

The [Space Weather methods](#) describe the full measurement, forecast, quality, temporal and coverage rules.

▼ Aurora — reference detail

Space Weather tabs

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3D Solar System and smooth aurora maps

Open **Space Weather** → **Asteroids** or **Space Weather** → **Aurora**. Use **Full screen** for the largest map; the same controls work inside the full observatory.

Explore the 3D Solar System

- **Solar System** frames the Sun and all eight planets. **Inner planets** brings the near-Earth asteroid sample into view. Outer planets and inner orbits span very different distances; use the presets rather than expecting every body to look equally large in one view.
- Drag to orbit the camera. Shift/right-drag pans; scroll or pinch zooms. Arrow keys rotate, plus/minus zoom, and 0 resets. Touch uses one finger to rotate and two to pan/zoom. Keyboard focus on the canvas shows its focus outline.
- Choose **Focus planet** or click a visible planet to inspect a textured 3D body. Saturn includes a ring model. Close the information card when you want more room.
- Click an asteroid marker or use **Layers** → **Inspect a displayed asteroid** for its native NASA/JPL record. **Focus selected** centers the selected marker when its approximate scene-date position is available.
- **Time & display** chooses a UTC reference date from 2000 through 2049. **Play orbits** advances the illustrative scene by 8 days/second; **Pause orbits** stops it and **Today** returns to the current reference time. Motion is paused by default and stops when the scene is hidden or the account/replay context changes.
- Layers control asteroid paths, approximate markers, labels, planet orbit guides and planet bodies. **Map view** still offers the separate encounter distance/date chart and historical fireball globe. Source tables and exports remain available.

What the 3D positions mean

Planet positions use NASA/JPL SSD's **Table 1 fitted Keplerian elements and rates**, in the mean ecliptic/equinox of J2000, valid 1800–2050. This is a lower-accuracy reference model, not a numerical Horizons ephemeris. The Earth marker uses the **Earth–Moon barycenter**, not an exact Earth geocenter. Source nominal errors are body-dependent; outer-planet distance errors can be hundreds of thousands of kilometres or more.

The scene's UTC reference is converted with a fixed **+69.184 seconds** modern TT/TDB approximation. It is not an exact historical/future leap-second conversion. This approximation and the fitted orbit model are unsuitable for precise encounter timing, spacecraft navigation or occultation work. For high-precision ephemerides, use [NASA/JPL Horizons](#).

Asteroid paths retain the source semimajor axis, eccentricity, inclination, ascending node and argument of perihelion in heliocentric ecliptic J2000. Approximate scene-date markers advance the source mean anomaly using its published mean motion: $M = M_0 + n \times (\text{scene JD} - \text{source epoch JD})$. This is two-body visualization; planetary perturbations, close-encounter dynamics and covariance are not propagated. Markers more than 365.25 days from the source epoch,

or with missing/unsupported parameters, are withheld. Their valid nominal paths and original source details can still be read. The bounded map sample is at most 120 asteroids; the native catalogue remains separately searchable and exportable.

Positions and orbit paths share a **linear astronomical-unit scale**. Body sizes are enlarged for visibility, and surface orientation/lighting/stars are illustrative. The 3D scene is **not an impact corridor or collision forecast**. Use the unchanged NASA/JPL close-approach table for source TDB encounter times, geocentric miss distances and three-sigma bounds. MOID, PHA classification and Sentry probabilities retain their distinct source meanings.

Smooth aurora colors

The NOAA OVATION globe now uses a higher-resolution display raster, missing-aware bilinear interpolation and linear texture filtering. This removes block-like color steps while keeping a fixed 0–100% color scale. Interpolation wraps longitude across the date line and does not fill missing source cells or overshoot neighboring values. Rendering is performed in a bounded worker where supported, with an on-demand fallback.

- **Layers** → **Smooth aurora colors (display only)** switches between the smooth rendering and source-cell display.
- **Overlay opacity** changes visibility over the basemap. **Aurora display threshold** hides lower displayed values; it does not increase the published probabilities.
- **North / South / World**, city references, basemap selection, day/night and fullscreen remain available. Higher-quality globe antialiasing and a smoother day/night texture improve visual edges.
- A click still reports the **exact nearest published grid node**, not a newly observed/interpolated probability. **Export displayed aurora grid** exports the unchanged 360×181 source grid, with 255 reserved for missing values.
- Observation time, forecast-valid time and selected historical frame stay separate. Expired current fields are withheld; historical captured frames remain labelled. Smoothing does not add source resolution, a visibility guarantee or a system-failure probability. Clouds, local light pollution and the observer's horizon are not modeled.
- The smoothing switch applies to OVATION. GloTEC and regional geoelectric layers keep their own units, source-cell/support rules and interpretation.

Graphics, accessibility and recovery

The scene renders on demand, caps drawing-buffer size and releases hidden graphics. If WebGL 3D is unavailable, the original orbit chart and source tables remain available. A lost 3D context offers **Retry 3D**. Source failure clears the affected live evidence; reference planet geometry does not imply that asteroid data were successfully fetched. Account/replay changes clear selections and stop animation. No new paid model or provider collection is triggered by the camera controls.

Sources and visual credits

- [NASA/JPL SSD approximate positions, Table 1](#), based on E. M. Standish and J. G. Williams (1992). Coefficients and fitted validity interval are retained; the interface limits scene dates to 2000–2049.
- [NASA/JPL small-body API documentation](#) for the existing orbital catalogue, CAD, Sentry, Scout and historical fireballs.
- [NOAA SWPC OVATION model](#).
- Planet/Sun/ring textures: **Solar System Scope / INOVE**, [source pack](#), [CC BY 4.0](#). The source adjusts colors and artistically fills some unmapped terrain. These are illustrative textures, not current planetary observations. Images are hosted locally; credit remains visible on the scene and in object details.
- Three.js 0.180.0 and OrbitControls/Line2: MIT license. The pinned bundle and [license](#) are included in the release.

The [Space Weather methods](#) describe the full measurement, forecast, quality, temporal and coverage rules.

▼ Asteroids — reference detail

Space Weather tabs

The Space Weather area contains **Live**, **Threats**, **Forecast**, **Aurora**, **Asteroids** and **Sources**. Use it to distinguish measured solar-terrestrial conditions, official NOAA products, research models and NASA/JPL orbital references.

Live/Threats can include Kp, solar wind, radiation channels and official R/S/G scale context. Read channel, unit, quality flag and validity time. Kp, local K, Dst and geoelectric fields are different quantities. Missing official values should not be interpreted as G0/R0/S0. A regional geoelectric model is not a measured induced-current or power-failure map.

Aurora uses model fields and their valid times, not a direct sky observation. Inspect a cell, frame date and hemisphere/world view. Cloud, local terrain and light pollution affect what a person sees and are not automatically represented. GloTEC background-only versus observation-supported cells have their own support meaning.

Asteroids separates orbital catalogue references, predicted close approaches, Sentry monitoring, Scout candidates and historical fireballs. MOID is a distance between orbital paths, not a predicted simultaneous encounter. PHA classification is not an impact prediction. Source orbital epochs and TDB approach dates differ from a present-time position. [Space Weather methods](#).

Satellite & Sensor Data

Search the orbital/reference catalogue, filter ownership/type/coverage, select an object and inspect its source elements, epoch and projected track. Positions calculated from orbital elements are estimates with age limits. Missing or incompatible elements do not acquire invented positions.

Ownership references can be uncertain or use classifications that are not simple ISO countries. An organisation attached to a station module is not necessarily the owner of the whole station. Object counts can include reference/uncertain records and are not a count of confirmed operational satellites. Layers and fullscreen controls change presentation while retaining these qualifications.

</watchtower/space-weather-methods.html>

Sources

Inspect the space-weather source catalogue and qualifications behind the panel.

- Inspect the space-weather panel: Compare Live, Threats, Forecast, Aurora, Asteroids and Sources for their different products.
- Inspect a satellite reference: Open Satellite & Sensor Data and read catalogue/element/source epochs.
- Use imagery or pass tools carefully: A dated image comparison and a pass calculation are source/geometry-specific products, not current sensor collection or guaranteed visibility.

▼ Sources — reference detail

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</watchtower/space-weather-methods.html>

Geopolitical Futures

Connect historical opponents and source-qualified pressures to explicit future resource scenarios and competing strategic paths.

1. **Find Geopolitical Futures:** In Investigate / Advanced, Geopolitical Futures is the first main tab, immediately left of Natural Hazards. It is also available from the first Mission control and Research Tools shortcuts. User-hidden layout preferences and access gates still apply.
2. **Choose a country pair and map measure:** Open Geopolitical Futures beside War Room. Select a country, comparison country, future year and a clearly defined map measure.
3. **Trace the historical and resource evidence:** Use Country & opponents, Conflict history and Resources & demography. Read original dates, exact actor roles, unknowns and the input/formula table.
4. **Compare a scenario with its alternatives:** Build a tabletop scenario, add explicit strategic choices, compare cooperation and escalation paths, then inspect Model & track record before interpreting a probability.

▼ Geopolitical Futures — reference detail

A useful starting workflow

Open **Geopolitical Futures**, beside War Room. Start on **Hotspot atlas**, choose a country pair and a future reference year, then select a map measure. Population growth, density, land/person, water/person, source water stress and historical activity have different units; the map does not combine them into an attack score.

Country, terrain and disputes

Use **Country & opponents** to inspect the recorded opposing parties, primary/secondary roles and archived terrain, borders, rivers, natural resources and dispute wording. The country archive retains original years and its publication retirement on 4 February 2026. **Read recent reporting** retrieves a bounded, separately dated selection from the current political-news collection; publication and country mentions are not verified event locations, and reporting does not alter the historical model. A geographic study or representative point does not settle sovereignty, control or exact local impact. Related native workspaces provide fuller map and current-source research.

Read the historical evidence

Conflict history provides state-based conflict-years and opposing actor-pair years from 1946–2025, non-state conflict records, country-year organized violence, onset definitions, termination coding, stated rebel-group issues, peace agreements and external support. Each source keeps its own end year and record unit. A side-A label does not mean attacker. Year1000 in the issues source is undated/founding context, not the year1000 CE. Historical polities are not silently substituted for every present-day country.

Use country roles, opposing-country selection, years and text search. Clear the second country to see other opponents; clear both for global records. Read source-native pages as well as any MCP field pages. Record counts from different datasets overlap and are not counts of unique wars.

Explore population and resource futures

Resources & demography uses World Bank population estimates/projections through 2050 and dated land, water, agriculture and resource-rent observations. Adjust population deviation, renewable-water change, withdrawal per person and arable area. Read the exact formula and original anchor years below the result. User changes are assumptions, not UN confidence variants or a climate model. Internal renewable water excludes incoming international flows; arable hectares are not food production, and resource rents are not recoverable reserves.

Run a strategic scenario tabletop

Choose a geographic study or custom country pair, hypothetical trigger and third-party assumption. Build the scenario to see an evidence brief, possible directions of pressure and historical mechanism analogues. Add up to 12 moves for side A or B: talks, an access/resource agreement, political/economic pressure, an explicitly assumed limited confrontation, or standing down. Undo or clear rounds to compare paths. The initiating actor is only a user assumption; the model does not infer a future government's attack decision from history, nationality or religion.

Compare negotiated access, contained confrontation and wider spillover. These are rule-based conditional branches, without invented branch probabilities, military targeting or victory/casualty estimates. Scenario drafts are session-only; **Export selection** keeps the assumptions and source snapshot.

Understand model and track record

The numerical historical model targets **source-coded state-based organized-violence event presence inside country borders in a calendar year**. It is not a bilateral attack, aggression or war-onset model. Only complete five-year source histories enter the model. Validation and test use later calendar periods with a frozen training cutoff; prevalence and persistence comparisons, Brier score, log-loss and reliability bins are shown. The retrospective source vintage is explicit.

Population projections extend to 2050; conflict probabilities are displayed only at qualified, separately tested annual leads. The current 2025 input cutoff means a 2027 value uses two model steps. Longer unqualified leads stay unknown. Initial prospective outcomes remain unresolved; new forecasts have actual issuance times in their own append-only record. Historical zeros mean no eligible source record, not proof that no violence occurred. Actor objectives and country cultural references are contextual, not demographic aggression predictors.

See [Geopolitical Futures methods](#) for source versions, definitions, formulas and limitations.

</watchtower/geopolitical-futures-methods.html>

Shared tools

AI Help Guide

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Contextual Analyst

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Explain risk & change

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Semantic search & Data Q&A

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Multilingual claim extraction

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Country-role review

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Semantic report linking

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Contradictions & revisions

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Cited briefing

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Alert triage & rule drafts

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Document analysis

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Map query assistant

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Forecast evidence review

Use this explicitly requested AI task with selected public evidence or product documentation. Inspect inputs, citations, scope and the current account/provider status.

Map Layers

Open the main layer directory; specialist maps also have their own layer controls.

Evidence inspector

Inspect the selected item and its source/clock/meaning in the native evidence pane.

Timeline

Inspect current timeline/replay context with the source's own event definitions.

Commands

Find supported native tools and navigation entries by name.

Workspace fullscreen

Expand a current workspace while retaining the same native view.

Customize Workspace

Review supported panel, layout and preference controls before saving or resetting.

API Connections & Add-ons

Configure eligible owned provider connections through the native account controls.

Hosted AI Agent MCP

Create an appropriately scoped token and discover the live reviewed dataset catalogue.

Report an issue

Describe the affected workspace, action, time and visible error using native reporting/support.

Learning progress

Resume public lessons and practice checks; guide progress does not grant account permissions.

Current data-point directory

395 normalized definitions from the 31 October metadata snapshot. Types, units and registration do not certify current availability or predictive validity. Open an entry for its recorded fields.

Definition	Type and unit	Source and fields
45-day forecast Ap space-forecast45-primary-ap	Provider forecast nT	forecast45 Inspect 10 recorded fields
45-day forecast F10.7 space-forecast45-primary-f107	Provider forecast sfu	forecast45 Inspect 10 recorded fields
ADS-B military air activity adsb-military-air-activity	Source status coverage_or_mixed_records	Public/partner ADS-B military feeds Inspect 9 recorded fields
AIS / Port-Call History ais-port-call-history	Source status coverage_or_mixed_records	Commercial AIS / public AIS history source pack Inspect 9 recorded fields
Alpha particles 104000-158000 keV · GOES 19 space-diff-alphas-goes-19-104000-158000-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 15200-27100 keV · GOES 19 space-diff-alphas-goes-19-15200-27100-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 164000-286000 keV · GOES 19 space-diff-alphas-goes-19-164000-286000-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 30100-49200 keV · GOES 19 space-diff-alphas-goes-19-30100-49200-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 318000-380000 keV · GOES 19 space-diff-alphas-goes-19-318000-380000-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 3790-6780 keV · GOES 19 space-diff-alphas-goes-19-3790-6780-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 394000-485000 keV · GOES 19 space-diff-alphas-goes-19-394000-485000-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 55800-99500 keV · GOES 19 space-diff-alphas-goes-19-55800-99500-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 573000-894000 keV · GOES 19 space-diff-alphas-goes-19-573000-894000-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 7600-8900 keV · GOES 19 space-diff-alphas-goes-19-7600-8900-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Alpha particles 9180-12800 keV · GOES 19 space-diff-alphas-goes-19-9180-12800-kev	Source observation particles/(cm²·s·sr·keV)	diff-alphas Inspect 10 recorded fields
Analyst case workflow analyst-case-workflow	Source status coverage_or_mixed_records	Watchtower internal provenance and case records Inspect 9 recorded fields
Animal disease official animal-disease-official	Event / record count events_or_records	WOAH WAHIS + FAO EMPRES + USDA APHIS monitors Inspect 6 recorded fields
AT · Gold Philharmoniker 1 oz - 2026 bullion-premium-philoro-at-gold	Price-derived measure percent over equivalent fine-metal spot	philoro Inspect 19 recorded fields
AU · Perth Mint Silver Kangaroo Rectangular Minted Bar 1oz bullion-premium-bullionnow-au-silver	Price-derived measure percent over equivalent fine-metal spot	Bullion Now Inspect 19 recorded fields
Average test initiation-to-settlement time · agora cbdc-agora-rvt-settlement-2026-07	Reported statistic seconds	agora Inspect 7 recorded fields

Definition	Type and unit	Source and fields
Aviation Accident History aviation-accident-history	Source status coverage_or_mixed_records	NTSB aviation accident census Inspect 9 recorded fields
Aviation maritime ops source pack aviation-maritime-ops-source-pack	Coverage measure coverage_or_mixed_records	Eurocontrol + FAA OIS/NOTAM + MarineCadastre + USACE source pack Inspect 10 recorded fields
Bank call report stress bank-call-report-stress	Source status coverage_or_mixed_records	FFIEC Call Reports Inspect 9 recorded fields
Bank Solvency / Contagion domain-bank-solvency-contagion	Calculated index index_points	Banking systemic risk model Inspect 8 recorded fields
Banking plumbing systemic-banking-plumbing	Calculated index index_points	Banking systemic risk model Inspect 8 recorded fields
Banks offering retail CBDC wallets · india-retail cbdc-rbi-retail-banks-2026-10-01	Reported statistic banks	rbi-digital Inspect 7 recorded fields
Beneficial ownership risk beneficial-ownership-risk	Source status coverage_or_mixed_records	OpenOwnership BODS Inspect 9 recorded fields
BG · 1 унция златна монета Виенска Филхармония bullion-premium-tavex-bg-gold	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
BG · 1 унция сребърна монета Виенска Филхармония bullion-premium-tavex-bg-silver	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
BIS CBDC-work engagement · 2020 survey cbdc-bis-survey-2020	Reported statistic percent of responding central banks	bis-survey-2020-pdf Inspect 9 recorded fields
BIS CBDC-work engagement · 2021 survey cbdc-bis-survey-2021	Reported statistic percent of responding central banks	bis-survey-2021-pdf Inspect 9 recorded fields
BIS CBDC-work engagement · 2022 survey cbdc-bis-survey-2022	Reported statistic percent of responding central banks	bis-survey-2022-pdf Inspect 9 recorded fields
BIS CBDC-work engagement · 2023 survey cbdc-bis-survey-2023	Reported statistic percent of responding central banks	bis-survey-2023-pdf Inspect 9 recorded fields
BIS CBDC-work engagement · 2024 survey cbdc-bis-survey-2024	Reported statistic percent of responding central banks	bis-survey-2024-pdf Inspect 9 recorded fields
BIS financial bulk inventory bis-financial-bulk-inventory	Source inventory inventory_records	BIS Data Portal bulk downloads Inspect 15 recorded fields
Boulder local K space-boulder-k-primary-k-index	Official estimate local K	boulder-k Inspect 10 recorded fields
Bullion premiums bullion-dealer-premiums	Source inventory dealer quotes	Named public bullion dealers; row-specific spot sources Inspect 11 recorded fields
CA · 1 oz Canadian Gold Maple Leaf bullion-premium-CA-gold	Price-derived measure percent over equivalent fine-metal spot	CanadianPMX Inspect 19 recorded fields
CA · 1 oz Canadian Silver Maple Leaf bullion-premium-CA-silver	Price-derived measure percent over equivalent fine-metal spot	CanadianPMX Inspect 19 recorded fields
Canada Contract Awards canada-contract-awards	Source status coverage_or_mixed_records	Government of Canada proactive contracts Inspect 9 recorded fields
Capital Controls / FX Restrictions capital-controls-fx-restrictions	Source status coverage_or_mixed_records	IMF AREAER + central bank / finance ministry notices Inspect 9 recorded fields
Cat bond spread stress cat-bond-spread-stress	Source status coverage_or_mixed_records	Swiss Re cat bond indices + public ILS market context Inspect 9 recorded fields
CDC wastewater respiratory early warning cdc-wastewater-respiratory-early-warning	Coverage measure coverage_or_mixed_records	CDC NWSS + respiratory surveillance monitors Inspect 11 recorded fields

Definition	Type and unit	Source and fields
CISA ICS OT advisories cisa-ics-ot-advisories	Event / record count events_or_records	CISA ICS/OT advisory monitors Inspect 6 recorded fields
CISA infra cyber cisa-infra-cyber	Event / record count events_or_records	CISA KEV + Advisories Inspect 6 recorded fields
CISA known-exploited vulnerability catalogue cyber-kev-inventory	Source inventory catalogued CVEs	cyber Inspect 7 recorded fields
Clearinghouse margin stress clearinghouse-margin-stress	Source status coverage_or_mixed_records	CME / ICE / OCC margin and risk notices Inspect 9 recorded fields
COLORADO RIVER AT LEES FERRY, AZ · Discharge, cubic feet per second hydrology-09380000-00060	Source observation ft3/s	usgs-gauges Inspect 7 recorded fields
COLORADO RIVER AT LEES FERRY, AZ · Gage height, feet hydrology-09380000-00065	Source observation ft	usgs-gauges Inspect 7 recorded fields
COLUMBIA RIVER AT THE DALLES, OR · Discharge, cubic feet per second hydrology-14105700-00060	Source observation ft3/s	usgs-gauges Inspect 7 recorded fields
COLUMBIA RIVER AT THE DALLES, OR · Gage height, feet hydrology-14105700-00065	Source observation ft	usgs-gauges Inspect 7 recorded fields
Commodity gross market value finance-otc-value-J	Reported statistic USD	otc-value Inspect 9 recorded fields
Conflict event baseline conflict-event-baseline	Source status coverage_or_mixed_records	UCDP GED full/candidate conflict events Inspect 9 recorded fields
Contributing magnetometer stations space-kp-primary-station-count	Official estimate stations	kp Inspect 10 recorded fields
Corporate Distress domain-corporate-distress	Calculated index index_points	SEC current filings + credit stress Inspect 8 recorded fields
Corporate registry graph corporate-registry-graph	Source status coverage_or_mixed_records	GLEIF LEI + public company registries Inspect 9 recorded fields
Country full analysis source pack country-full-analysis-source-pack	Coverage measure coverage_or_mixed_records	Country dossier + World Bank + RestCountries + Watchtower country-risk + TradingEconomics calendar Inspect 9 recorded fields
Credit gross market value finance-otc-value-T	Reported statistic USD	otc-value Inspect 9 recorded fields
Critical facility operator risk critical-facility-operator-risk	Source status coverage_or_mixed_records	Facility registries + operator financial/legal/cyber context Inspect 9 recorded fields
Currency swaps finance-otc-instrument-I-B	Reported statistic USD	otc-instruments Inspect 9 recorded fields
Cyber / Internet Infrastructure domain-cyber-internet-infra	Calculated index index_points	Network plumbing + CISA/NVD Inspect 7 recorded fields
Cyber risk systemic-cyber-risk	Event / record count qualified_source_records	CISA KEV/Advisories + NVD Inspect 7 recorded fields
Cyclone track source pack cyclone-track-source-pack	Coverage measure coverage_or_mixed_records	JTWC + NOAA IBTrACS source pack Inspect 10 recorded fields
Daily electrons fluence >=2 MeV · GOES 19 space-electron-fluence-goes-19-2-mev	Reported statistic particles/(cm².sr)	electron-fluence Inspect 10 recorded fields
Daily protons fluence >=1 MeV · GOES 18 space-proton-fluence-goes-18-1-mev	Reported statistic particles/(cm².sr)	proton-fluence Inspect 10 recorded fields

Definition	Type and unit	Source and fields
Daily protons fluence >=10 MeV · GOES 18 space-proton-fluence-goes-18-10-mev	Reported statistic particles/(cm ² ·sr)	proton-fluence Inspect 10 recorded fields
Daily X-ray background · GOES 18 space-xray-background-goes-18-background	Reported statistic W/m ²	xray-background Inspect 10 recorded fields
DE · Goldbarren 1 oz - philoro bullion-premium-philoro-de-gold	Price-derived measure percent over equivalent fine-metal spot	philoro Inspect 19 recorded fields
Electrons 134 keV · GOES 19 space-diff-electrons-goes-19-134-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons 1509 keV · GOES 19 space-diff-electrons-goes-19-1509-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons 186 keV · GOES 19 space-diff-electrons-goes-19-186-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons 2205 keV · GOES 19 space-diff-electrons-goes-19-2205-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons 271 keV · GOES 19 space-diff-electrons-goes-19-271-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons 2894 keV · GOES 19 space-diff-electrons-goes-19-2894-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons 378 keV · GOES 19 space-diff-electrons-goes-19-378-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons 548 keV · GOES 19 space-diff-electrons-goes-19-548-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons 79 keV · GOES 19 space-diff-electrons-goes-19-79-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons 865 keV · GOES 19 space-diff-electrons-goes-19-865-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-electrons Inspect 10 recorded fields
Electrons >=2 MeV · GOES 19 space-electrons-goes-19-2-mev	Source observation particles/(cm ² ·s·sr)	electrons Inspect 10 recorded fields
Energy System Stress domain-energy-system-stress	Calculated index index_points	Power/grid + outage + energy proxy monitor Inspect 7 recorded fields
ENLIL modeled Earth density space-enlil-primary-earth-particles-per-cm3	Provider forecast cm ⁻³	enlil Inspect 10 recorded fields
ENLIL modeled temperature space-enlil-primary-temperature	Provider forecast K	enlil Inspect 10 recorded fields
ENLIL phi field space-enlil-primary-b-phi	Provider forecast nT	enlil Inspect 10 recorded fields
ENLIL phi flow space-enlil-primary-v-phi	Provider forecast km/s	enlil Inspect 10 recorded fields
ENLIL radial field space-enlil-primary-b-r	Provider forecast nT	enlil Inspect 10 recorded fields
ENLIL radial flow space-enlil-primary-v-r	Provider forecast km/s	enlil Inspect 10 recorded fields
ENLIL theta field space-enlil-primary-b-theta	Provider forecast nT	enlil Inspect 10 recorded fields
ENLIL theta flow space-enlil-primary-v-theta	Provider forecast km/s	enlil Inspect 10 recorded fields
Environmental Enforcement environmental-enforcement	Source status coverage_or_mixed_records	EPA ECHO Inspect 9 recorded fields

Definition	Type and unit	Source and fields
Equity gross market value finance-otc-value-E	Reported statistic USD	otc-value Inspect 9 recorded fields
Estimated planetary Kp · 1 minute space-kp1m-primary-estimated-kp	Official estimate Kp	kp1m Inspect 10 recorded fields
EU global procurement watch eu-global-procurement-watch	Source status coverage_or_mixed_records	EU TED public procurement Inspect 9 recorded fields
EU Procurement Intelligence eu-procurement-intelligence	Source status coverage_or_mixed_records	EU TED Search API Inspect 9 recorded fields
EUR bank loans outside the euro area finance-gli-eur-g	Reported statistic EUR	gli-credit Inspect 9 recorded fields
EUR international debt securities outside the euro area finance-gli-eur-d	Reported statistic EUR	gli-credit Inspect 9 recorded fields
EUR total credit outside the euro area finance-gli-eur-b	Reported statistic EUR	gli-credit Inspect 9 recorded fields
European Disease Surveillance europe-disease-surveillance	Source status coverage_or_mixed_records	ECDC aggregate open data Inspect 9 recorded fields
EUV line 1175 Å · GOES 19 space-euv-goes-19-1175	Source observation W/m²	euv Inspect 10 recorded fields
EUV line 1216 Å · GOES 19 space-euv-goes-19-1216	Source observation W/m²	euv Inspect 10 recorded fields
EUV line 1335 Å · GOES 19 space-euv-goes-19-1335	Source observation W/m²	euv Inspect 10 recorded fields
EUV line 1405 Å · GOES 19 space-euv-goes-19-1405	Source observation W/m²	euv Inspect 10 recorded fields
EUV line 256 Å · GOES 19 space-euv-goes-19-256	Source observation W/m²	euv Inspect 10 recorded fields
EUV line 284 Å · GOES 19 space-euv-goes-19-284	Source observation W/m²	euv Inspect 10 recorded fields
EUV line 304 Å · GOES 19 space-euv-goes-19-304	Source observation W/m²	euv Inspect 10 recorded fields
F10.7 ninety-day mean · Noon space-f107-noon-90-day-mean	Source observation sfu	f107 Inspect 10 recorded fields
FAA NAS status faa-nas-status	Event / record count events_or_records	FAA NAS Status Inspect 7 recorded fields
FCC dirs nors outages fcc-dirs-nors-outages	Source status coverage_or_mixed_records	FCC DIRS/NORS public outage communications Inspect 9 recorded fields
FDIC bank profile risk fdic-bank-profile-risk	Source status coverage_or_mixed_records	FDIC SDI / BankFind Inspect 9 recorded fields
FI · 1 oz Itävallan Philharmoniker hopeakolikko bullion-premium-tavex-fi-silver	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
FI · 1 oz Itävallan Philharmoniker kultakolikko bullion-premium-tavex-fi-gold	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
Flood Insurance Losses nfip-flood-losses	Source status coverage_or_mixed_records	OpenFEMA NFIP Claims v3 Inspect 9 recorded fields
Flood SAR EMS source pack flood-sar-ems-source-pack	Coverage measure coverage_or_mixed_records	Sentinel-1 SAR + GloFAS + Copernicus EMS source pack Inspect 10 recorded fields

Definition	Type and unit	Source and fields
Food crop stress systemic-food-crop-stress	Event / record count qualified_source_records	USDA/drought/grain headline monitors Inspect 7 recorded fields
Food insecurity phase risk food-insecurity-phase-risk	Source status coverage_or_mixed_records	IPC acute food insecurity Inspect 9 recorded fields
Food Security domain-food-security	Calculated index index_points	USDA/drought/water + official animal disease + inflation monitors Inspect 7 recorded fields
Food security source pack food-security-source-pack	Coverage measure coverage_or_mixed_records	FEWS NET + FAO GIEWS + Crop Monitor source pack Inspect 9 recorded fields
Forward rate agreements finance-otc-instrument-M-D	Reported statistic USD	otc-instruments Inspect 9 recorded fields
Funding Stress domain-funding-stress	Calculated index index_points	Funding liquidity + banking plumbing Inspect 8 recorded fields
FX finance-otc-maturity-B-D	Reported statistic USD	otc-maturity Inspect 9 recorded fields
FX contracts involving CNY finance-otc-currency-B-CNY	Reported statistic USD	otc-currency Inspect 9 recorded fields
FX contracts involving EUR finance-otc-currency-B-EUR	Reported statistic USD	otc-currency Inspect 9 recorded fields
FX contracts involving JPY finance-otc-currency-B-JPY	Reported statistic USD	otc-currency Inspect 9 recorded fields
FX contracts involving USD finance-otc-currency-B-USD	Reported statistic USD	otc-currency Inspect 9 recorded fields
FX forwards & swaps finance-otc-instrument-D-B	Reported statistic USD	otc-instruments Inspect 9 recorded fields
FX gross market value finance-otc-value-B	Reported statistic USD	otc-value Inspect 9 recorded fields
FX options finance-otc-instrument-R-B	Reported statistic USD	otc-instruments Inspect 9 recorded fields
FX: over 5 years finance-otc-maturity-B-F	Reported statistic USD	otc-maturity Inspect 9 recorded fields
FX: up to 1 year finance-otc-maturity-B-U	Reported statistic USD	otc-maturity Inspect 9 recorded fields
GB · 1 oz UK Britannia Gold bullion-premium-GB-gold	Price-derived measure percent over equivalent fine-metal spot	Bleyer Bullion Inspect 19 recorded fields
GB · 1 oz UK Britannia Silver bullion-premium-GB-silver	Price-derived measure percent over equivalent fine-metal spot	Atkinsons Bullion Inspect 19 recorded fields
Geospace model Dst space-geospace-dst-primary-dst	Provider forecast nT	geospace-dst Inspect 10 recorded fields
Geospace model Kp space-geospace-kp-primary-k	Provider forecast Kp	geospace-kp Inspect 10 recorded fields
Global AIS history risk global-ais-history-risk	Source status coverage_or_mixed_records	AIS history and dark-activity monitors Inspect 9 recorded fields
Global event stream global-event-stream	Source status coverage_or_mixed_records	GDELT Events 2.1 Inspect 9 recorded fields
Global Politics · Elections, Parties & Institutions global-politics-evidence	Source inventory election calendar records	Attributed political and institutional source snapshots Inspect 19 recorded fields

Definition	Type and unit	Source and fields
GOES magnetic He · GOES 19 space-magnetometers-goes-19-he	Source observation nT	magnetometers Inspect 10 recorded fields
GOES magnetic Hn · GOES 19 space-magnetometers-goes-19-hn	Source observation nT	magnetometers Inspect 10 recorded fields
GOES magnetic Hp · GOES 19 space-magnetometers-goes-19-hp	Source observation nT	magnetometers Inspect 10 recorded fields
GOES magnetic total · GOES 19 space-magnetometers-goes-19-total	Source observation nT	magnetometers Inspect 10 recorded fields
Government Gazette / Legal Change Parser government-gazette-legal-change-parser	Source status coverage_or_mixed_records	Federal Register + EUR-Lex + official gazettes Inspect 9 recorded fields
Health CDC WHO severity health-cdc-who-severity	Event / record count events_or_records	WHO/CDC + WOA/FAO/APHIS + Country Source Pack Inspect 6 recorded fields
Historical U.S. Coastal AIS historical-vessel-tracks	Source status coverage_or_mixed_records	NOAA Marine Cadastre Inspect 9 recorded fields
Hong Kong RMB demand & savings deposits finance-hkma-demand_savings_deposits	Reported statistic CNY	hkma Inspect 9 recorded fields
Hong Kong RMB time deposits finance-hkma-time_deposits	Reported statistic CNY	hkma Inspect 9 recorded fields
Household debt · covered economies reported-debt-world-h	Reported statistic USD	bis-credit Inspect 8 recorded fields
HU · 1 uncías Ausztrál Kenguru aranyérme bullion-premium-tavex-hu-gold	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
Humanitarian disaster source pack humanitarian-disaster-source-pack	Coverage measure coverage_or_mixed_records	ReliefWeb + HDX + UN OCHA source pack Inspect 11 recorded fields
Imagery change detection index imagery-change-detection-index	Source status coverage_or_mixed_records	Sentinel / Landsat derived change detection Inspect 9 recorded fields
IMF BX GSE · ACE space-rtsw-mag-ace-bx-gse	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BX GSE · IMAP space-rtsw-mag-imap-bx-gse	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BX GSE · SOLAR1 space-rtsw-mag-solar1-bx-gse	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BX GSM · ACE space-rtsw-mag-ace-bx-gsm	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BX GSM · IMAP space-rtsw-mag-imap-bx-gsm	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BX GSM · SOLAR1 space-rtsw-mag-solar1-bx-gsm	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BY GSE · ACE space-rtsw-mag-ace-by-gse	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BY GSE · IMAP space-rtsw-mag-imap-by-gse	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BY GSE · SOLAR1 space-rtsw-mag-solar1-by-gse	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BY GSM · ACE space-rtsw-mag-ace-by-gsm	Source observation nT	rtsw-mag Inspect 10 recorded fields

Definition	Type and unit	Source and fields
IMF BY GSM · IMAP space-rtsw-mag-imap-by-gsm	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BY GSM · SOLAR1 space-rtsw-mag-solar1-by-gsm	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BZ GSE · ACE space-rtsw-mag-ace-bz-gse	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BZ GSE · IMAP space-rtsw-mag-imap-bz-gse	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BZ GSE · SOLAR1 space-rtsw-mag-solar1-bz-gse	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BZ GSM · ACE space-rtsw-mag-ace-bz-gsm	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BZ GSM · IMAP space-rtsw-mag-imap-bz-gsm	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF BZ GSM · SOLAR1 space-rtsw-mag-solar1-bz-gsm	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF GSM latitude angle · ACE space-rtsw-mag-ace-theta-gsm	Source observation degrees	rtsw-mag Inspect 10 recorded fields
IMF GSM latitude angle · IMAP space-rtsw-mag-imap-theta-gsm	Source observation degrees	rtsw-mag Inspect 10 recorded fields
IMF GSM latitude angle · SOLAR1 space-rtsw-mag-solar1-theta-gsm	Source observation degrees	rtsw-mag Inspect 10 recorded fields
IMF GSM longitude angle · ACE space-rtsw-mag-ace-phi-gsm	Source observation degrees	rtsw-mag Inspect 10 recorded fields
IMF GSM longitude angle · IMAP space-rtsw-mag-imap-phi-gsm	Source observation degrees	rtsw-mag Inspect 10 recorded fields
IMF GSM longitude angle · SOLAR1 space-rtsw-mag-solar1-phi-gsm	Source observation degrees	rtsw-mag Inspect 10 recorded fields
IMF magnitude Bt · ACE space-rtsw-mag-ace-bt	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF magnitude Bt · IMAP space-rtsw-mag-imap-bt	Source observation nT	rtsw-mag Inspect 10 recorded fields
IMF magnitude Bt · SOLAR1 space-rtsw-mag-solar1-bt	Source observation nT	rtsw-mag Inspect 10 recorded fields
Industrial asset bulk layer industrial-asset-bulk-layer	Source status coverage_or_mixed_records	Global Energy Monitor bulk trackers Inspect 9 recorded fields
Inflation price corroboration inflation-price-corroboration	Calculated index index_points	FRED money/credit + BLS fixed-unit prices + Trufflation/Trading Economics/BPP/Adobe + fuel/shelter/input trackers Inspect 39 recorded fields
Infrastructure ownership dependency graph infrastructure-ownership-dependency-graph	Source status coverage_or_mixed_records	OpenStreetMap / OpenInfraMap + corporate registry ownership context Inspect 9 recorded fields
Institutions in real-value testing · agora cbdc-agora-rvt-institutions-2026-07	Reported statistic financial institutions and central banks	agora Inspect 7 recorded fields
Insurance / Shipping Risk domain-insurance-shipping-risk	Calculated index index_points	Marine war-risk + port/freight + AIS + GNSS monitors Inspect 7 recorded fields
Insurance claims loss estimates insurance-claims-loss-estimates	Source status coverage_or_mixed_records	NOAA disasters + insurance loss-estimate sources Inspect 9 recorded fields

Definition	Type and unit	Source and fields
Interest-rate finance-otc-maturity-D-D	Reported statistic USD	otc-maturity Inspect 9 recorded fields
Interest-rate contracts involving CNY finance-otc-currency-D-CNY	Reported statistic USD	otc-currency Inspect 9 recorded fields
Interest-rate contracts involving EUR finance-otc-currency-D-EUR	Reported statistic USD	otc-currency Inspect 9 recorded fields
Interest-rate contracts involving JPY finance-otc-currency-D-JPY	Reported statistic USD	otc-currency Inspect 9 recorded fields
Interest-rate contracts involving USD finance-otc-currency-D-USD	Reported statistic USD	otc-currency Inspect 9 recorded fields
Interest-rate gross market value finance-otc-value-D	Reported statistic USD	otc-value Inspect 9 recorded fields
Interest-rate options finance-otc-instrument-R-D	Reported statistic USD	otc-instruments Inspect 9 recorded fields
Interest-rate swaps finance-otc-instrument-N-D	Reported statistic USD	otc-instruments Inspect 9 recorded fields
Interest-rate: over 5 years finance-otc-maturity-D-F	Reported statistic USD	otc-maturity Inspect 9 recorded fields
Interest-rate: up to 1 year finance-otc-maturity-D-U	Reported statistic USD	otc-maturity Inspect 9 recorded fields
Internet backbone systemic-internet-backbone	Event / record count qualified_source_records	Cloud/status + BGP/DNS headline monitors Inspect 7 recorded fields
Internet routing source pack internet-routing-source-pack	Coverage measure coverage_or_mixed_records	RIPE RIS/RIPEstat + CAIDA BGPStream + Cloudflare Radar source pack Inspect 11 recorded fields
JPY bank loans outside Japan finance-gli-jpy-g	Reported statistic JPY	gli-credit Inspect 9 recorded fields
JPY international debt securities outside Japan finance-gli-jpy-d	Reported statistic JPY	gli-credit Inspect 9 recorded fields
JPY total credit outside Japan finance-gli-jpy-b	Reported statistic JPY	gli-credit Inspect 9 recorded fields
Legal enforcement pressure legal-enforcement-pressure	Source status coverage_or_mixed_records	Federal Register enforcement records + CourtListener Inspect 9 recorded fields
LME COMEX warehouse stocks lme-comex-warehouse-stocks	Source status coverage_or_mixed_records	LME and CME warehouse stock reports Inspect 9 recorded fields
Marine war risk insurance marine-war-risk-insurance	Event / record count events_or_records	Public marine war-risk and insurance monitors Inspect 6 recorded fields
Market microstructure systemic-market-microstructure	Calculated index index_points	Funding liquidity + credit derivatives monitors Inspect 8 recorded fields
Market Structure Stress domain-market-structure-stress	Calculated index index_points	Credit derivatives + fund-flow + hedge-crowding models Inspect 8 recorded fields
METAR · Auckland Intl, AU, NZ weather-metar-nzaa	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Beijing Intl, BJ, CN weather-metar-zbaa	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Bogota/El Dorado Arpt, CA, CO weather-metar-skbo	Source observation °C	noaa-metar Inspect 12 recorded fields

Definition	Type and unit	Source and fields
METAR · Cairo Intl, QH, EG weather-metar-heca	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Dubai Intl, DU, AE weather-metar-omdb	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Frankfurt/Main Arpt, HE, DE weather-metar-eddf	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Johannesburg/Tambo Intl, NP, ZA weather-metar-faor	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Lagos/Muhammed Intl, LA, NG weather-metar-dnmm	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · London/Heathrow Intl, EN, GB weather-metar-egll	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Los Angeles Intl, CA, US weather-metar-klax	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Mexico City Intl, DF, MX weather-metar-mmxx	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Nairobi/Kenyatta Intl, NA, KE weather-metar-hkjk	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · New Delhi/Gandhi Intl, DL, IN weather-metar-vidp	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · New York/JF Kennedy Intl, NY, US weather-metar-kjfk	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Oslo/Gardermoen Arpt, AK, NO weather-metar-engm	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Santiago/Benítez Intl, RM, CL weather-metar-scel	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Sao Paulo Intl, PR, BR weather-metar-sbgr	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Singapore/Changi Intl, 4, SG weather-metar-wsss	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Sydney Intl, NS, AU weather-metar-yssy	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Tokyo/Haneda Intl, 13, JP weather-metar-rjtt	Source observation °C	noaa-metar Inspect 12 recorded fields
METAR · Vancouver Intl, BC, CA weather-metar-cyvr	Source observation °C	noaa-metar Inspect 12 recorded fields
Mg II core-to-wing index · GOES 19 space-euv-goes-19-mgii-index	Source observation ratio	euv Inspect 10 recorded fields
Migration / Border Pressure domain-migration-border-pressure	Calculated index index_points	Mobility border nodes + country-risk overlap Inspect 7 recorded fields
Migration route monitor migration-route-monitor	Source status coverage_or_mixed_records	IOM DTM via HDX catalog Inspect 9 recorded fields
Mississippi River at St. Louis, MO · Discharge, cubic feet per second hydrology-07010000-00060	Source observation ft3/s	usgs-gauges Inspect 7 recorded fields
Mississippi River at St. Louis, MO · Gage height, feet hydrology-07010000-00065	Source observation ft	usgs-gauges Inspect 7 recorded fields

Definition	Type and unit	Source and fields
Money market fund holdings risk money-market-fund-holdings-risk	Source status coverage_or_mixed_records	SEC N-MFP Inspect 9 recorded fields
Money-Market Fund Exposures money-market-fund-exposures	Source status coverage_or_mixed_records	SEC EDGAR Form N-MFP Inspect 9 recorded fields
Monthly international sunspot number space-cycle-observed-primary-ssn	Reported statistic sunspot number	cycle-observed Inspect 10 recorded fields
Monthly observed F10.7 space-cycle-observed-primary-f10-7	Reported statistic sfu	cycle-observed Inspect 10 recorded fields
Monthly SWPC sunspot number space-cycle-observed-primary-observed-swpc-ssn	Reported statistic sunspot number	cycle-observed Inspect 10 recorded fields
Multi-name CDS finance-otc-instrument-W-T	Reported statistic USD	otc-instruments Inspect 9 recorded fields
NHC active-system catalogue nhc-structured-active-storms	Source inventory source-listed systems	noaa-nhc Inspect 7 recorded fields
NHC storm advisories nhc-storm-advisories	Event / record count events_or_records	NOAA National Hurricane Center Inspect 5 recorded fields
NL · Britannia 1 troy ounce zilveren munt - diverse jaartallen bullion-premium-hollandgold-nl-silver	Price-derived measure percent over equivalent fine-metal spot	Holland Gold Inspect 19 recorded fields
NL · Krugerrand 1 troy ounce gouden munt - diverse jaartallen bullion-premium-hollandgold-nl-gold	Price-derived measure percent over equivalent fine-metal spot	Holland Gold Inspect 19 recorded fields
NO · 1 oz Østerriksk Philharmoniker gullmynt 2026 (ny) bullion-premium-tavex-no-gold	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
NO · 1 oz Østerriksk Philharmoniker sølvmynt 2026 (ny) bullion-premium-tavex-no-silver	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
NOAA estimated Kp · estimated space-kp-forecast-estimated-kp	Official estimate Kp	kp-forecast Inspect 10 recorded fields
NOAA observed Kp · observed space-kp-forecast-observed-kp	Official estimate Kp	kp-forecast Inspect 10 recorded fields
NOAA predicted Kp · predicted space-kp-forecast-predicted-kp	Provider forecast Kp	kp-forecast Inspect 10 recorded fields
Nonfinancial corporate debt · covered economies reported-debt-world-n	Reported statistic USD	bis-credit Inspect 8 recorded fields
NZ · Buy 1 oz New Zealand Pure Gold Cast Bullion Bar bullion-premium-bullionstar-nz-gold	Price-derived measure percent over equivalent fine-metal spot	BullionStar Inspect 19 recorded fields
Observed F10.7 radio flux · Afternoon space-f107-afternoon-flux	Source observation sfu	f107 Inspect 10 recorded fields
Observed F10.7 radio flux · Morning space-f107-morning-flux	Source observation sfu	f107 Inspect 10 recorded fields
Observed F10.7 radio flux · Noon space-f107-noon-flux	Source observation sfu	f107 Inspect 10 recorded fields
OECD macro labor expansion oecd-macro-labor-expansion	Source status coverage_or_mixed_records	OECD Data Explorer Inspect 9 recorded fields
OFAC recent actions ofac-recent-actions	Event / record count events_or_records	OFAC Recent Actions RSS Inspect 4 recorded fields

Definition	Type and unit	Source and fields
Official energy source pack official-energy-source-pack	Coverage measure coverage_or_mixed_records	EIA + ENTSO-E + GIE AGSI + JODI source pack Inspect 13 recorded fields
Official rail volume service official-rail-volume-service	Coverage measure coverage_or_mixed_records	AAR/STB/BTS/FRA rail volume and service monitors Inspect 7 recorded fields
OFR Credit ofr-fsi-credit	Official index OFR FSI index points	ofr-fsi Inspect 7 recorded fields
OFR Emerging markets ofr-fsi-em	Official index OFR FSI index points	ofr-fsi Inspect 7 recorded fields
OFR Equity valuation ofr-fsi-equity-valuation	Official index OFR FSI index points	ofr-fsi Inspect 7 recorded fields
OFR financial stress ofr-financial-stress	Official index OFR FSI index points	ofr-fsi Inspect 14 recorded fields
OFR Funding ofr-fsi-funding	Official index OFR FSI index points	ofr-fsi Inspect 7 recorded fields
OFR Other advanced economies ofr-fsi-ae	Official index OFR FSI index points	ofr-fsi Inspect 7 recorded fields
OFR Safe assets ofr-fsi-flight-to-safety	Official index OFR FSI index points	ofr-fsi Inspect 7 recorded fields
OFR United States ofr-fsi-us	Official index OFR FSI index points	ofr-fsi Inspect 7 recorded fields
OFR Volatility ofr-fsi-volatility	Official index OFR FSI index points	ofr-fsi Inspect 7 recorded fields
Openinframap critical assets openinframap-critical-assets	Source status coverage_or_mixed_records	OpenInfraMap / OSM infrastructure Inspect 9 recorded fields
Opensanctions index opensanctions-index	Source inventory inventory_records	OpenSanctions Default Dataset Inspect 7 recorded fields
Passport / Residency / Exit Mobility passport-residency-exit-mobility	Source status coverage_or_mixed_records	Community Passport Index Dataset (MIT) Inspect 13 recorded fields
Physical commodity inventories physical-commodity-inventories	Source status coverage_or_mixed_records	EIA / JODI / exchange warehouse inventory sources Inspect 9 recorded fields
PL · Srebrna moneta Kanadyjski Liść Klonu 1 oz bullion-premium-tavex-pl-silver	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
PL · Złota moneta Britannia 1 oz bullion-premium-tavex-pl-gold	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
Planetary Kp space-kp-primary-kp	Official estimate Kp	kp Inspect 10 recorded fields
Port chokepoints systemic-port-chokepoints	Event / record count qualified_source_records	Port/freight + maritime anomaly + marine war-risk monitor Inspect 7 recorded fields
Port maritime chokepoints port-maritime-chokepoints	Event / record count events_or_records	Watchtower port + maritime + marine war-risk stress Inspect 6 recorded fields
Power grid emergency power-grid-emergency	Event / record count events_or_records	Watchtower power/grid stress Inspect 16 recorded fields
Power market stress systemic-power-market-stress	Event / record count qualified_source_records	Grid/outage + energy proxy monitor Inspect 7 recorded fields
Predicted monthly F10.7 space-cycle-predicted-primary-predicted-f10-7	Provider forecast sfu	cycle-predicted Inspect 10 recorded fields

Definition	Type and unit	Source and fields
Predicted monthly sunspot number space-cycle-predicted-primary-predicted-ssn	Provider forecast sunspot number	cycle-predicted Inspect 10 recorded fields
Private nonfinancial debt · covered economies reported-debt-world-p	Reported statistic USD	bis-credit Inspect 8 recorded fields
Procurement award risk procurement-award-risk	Source status coverage_or_mixed_records	USAspending + SAM.gov + FPDS Inspect 9 recorded fields
Propagated magnetic Bz space-propagated-wind-primary-bz	Provider forecast nT	propagated-wind Inspect 10 recorded fields
Propagated proton density space-propagated-wind-primary-density	Provider forecast cm ⁻³	propagated-wind Inspect 10 recorded fields
Propagated solar-wind speed space-propagated-wind-primary-speed	Provider forecast km/s	propagated-wind Inspect 10 recorded fields
proton vx gse · SOLAR1 space-rtsw-plasma-solar1-proton-vx-gse	Source observation km/s	rtsw-plasma Inspect 10 recorded fields
proton vx gsm · SOLAR1 space-rtsw-plasma-solar1-proton-vx-gsm	Source observation km/s	rtsw-plasma Inspect 10 recorded fields
proton vy gse · SOLAR1 space-rtsw-plasma-solar1-proton-vy-gse	Source observation km/s	rtsw-plasma Inspect 10 recorded fields
proton vy gsm · SOLAR1 space-rtsw-plasma-solar1-proton-vy-gsm	Source observation km/s	rtsw-plasma Inspect 10 recorded fields
proton vz gse · SOLAR1 space-rtsw-plasma-solar1-proton-vz-gse	Source observation km/s	rtsw-plasma Inspect 10 recorded fields
proton vz gsm · SOLAR1 space-rtsw-plasma-solar1-proton-vz-gsm	Source observation km/s	rtsw-plasma Inspect 10 recorded fields
Proton-only dynamic pressure · ACE space-rtsw-plasma-ace-proton-pressure	Source observation nPa	rtsw-plasma Inspect 10 recorded fields
Proton-only dynamic pressure · IMAP space-rtsw-plasma-imap-proton-pressure	Source observation nPa	rtsw-plasma Inspect 10 recorded fields
Proton-only dynamic pressure · SOLAR1 space-rtsw-plasma-solar1-proton-pressure	Source observation nPa	rtsw-plasma Inspect 10 recorded fields
Protons 1020-1860 keV · GOES 18 space-diff-protons-goes-18-1020-1860-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 115000-143000 keV · GOES 18 space-diff-protons-goes-18-115000-143000-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 11640-23270 keV · GOES 18 space-diff-protons-goes-18-11640-23270-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 160000-242000 keV · GOES 18 space-diff-protons-goes-18-160000-242000-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 1900-2300 keV · GOES 18 space-diff-protons-goes-18-1900-2300-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 2310-3340 keV · GOES 18 space-diff-protons-goes-18-2310-3340-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 25900-38100 keV · GOES 18 space-diff-protons-goes-18-25900-38100-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 276000-404000 keV · GOES 18 space-diff-protons-goes-18-276000-404000-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 3400-6480 keV · GOES 18 space-diff-protons-goes-18-3400-6480-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields

Definition	Type and unit	Source and fields
Protons 40300-73400 keV · GOES 18 space-diff-protons-goes-18-40300-73400-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 5840-11000 keV · GOES 18 space-diff-protons-goes-18-5840-11000-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 83700-98500 keV · GOES 18 space-diff-protons-goes-18-83700-98500-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons 99900-118000 keV · GOES 18 space-diff-protons-goes-18-99900-118000-kev	Source observation particles/(cm ² ·s·sr·keV)	diff-protons Inspect 10 recorded fields
Protons >=1 MeV · GOES 18 space-protons-goes-18-1-mev	Source observation particles/(cm ² ·s·sr)	protons Inspect 10 recorded fields
Protons >=10 MeV · GOES 18 space-protons-goes-18-10-mev	Source observation particles/(cm ² ·s·sr)	protons Inspect 10 recorded fields
Protons >=100 MeV · GOES 18 space-protons-goes-18-100-mev	Source observation particles/(cm ² ·s·sr)	protons Inspect 10 recorded fields
Protons >=30 MeV · GOES 18 space-protons-goes-18-30-mev	Source observation particles/(cm ² ·s·sr)	protons Inspect 10 recorded fields
Protons >=5 MeV · GOES 18 space-protons-goes-18-5-mev	Source observation particles/(cm ² ·s·sr)	protons Inspect 10 recorded fields
Protons >=50 MeV · GOES 18 space-protons-goes-18-50-mev	Source observation particles/(cm ² ·s·sr)	protons Inspect 10 recorded fields
Protons >=500 MeV · GOES 18 space-protons-goes-18-500-mev	Source observation particles/(cm ² ·s·sr)	protons Inspect 10 recorded fields
Protons >=60 MeV · GOES 18 space-protons-goes-18-60-mev	Source observation particles/(cm ² ·s·sr)	protons Inspect 10 recorded fields
Provider high F10.7 band space-cycle-predicted-primary-high-f10-7	Provider forecast sfu	cycle-predicted Inspect 10 recorded fields
Provider high sunspot band space-cycle-predicted-primary-high-ssn	Provider forecast sunspot number	cycle-predicted Inspect 10 recorded fields
Provider low F10.7 band space-cycle-predicted-primary-low-f10-7	Provider forecast sfu	cycle-predicted Inspect 10 recorded fields
Provider low sunspot band space-cycle-predicted-primary-low-ssn	Provider forecast sunspot number	cycle-predicted Inspect 10 recorded fields
Public debt · market value · covered economies reported-debt-world-g	Reported statistic USD	bis-credit Inspect 8 recorded fields
Public debt · nominal value · covered economies reported-debt-world-gn	Reported statistic USD	bis-credit Inspect 8 recorded fields
Public Health Capacity Stress domain-public-health-capacity	Calculated index index_points	WHO/CDC + WOA/FAO/APHIS + OWID health capacity Inspect 7 recorded fields
Public health notices in retained selection health-notice-inventory	Source inventory notice records	health Inspect 7 recorded fields
Ransomware victim intelligence ransomware-victim-intelligence	Source status coverage_or_mixed_records	CISA KEV + public ransomware victim monitors Inspect 9 recorded fields
Real-value test scenarios · agora cbdc-agora-rvt-scenarios-2026-07	Reported statistic scenarios	agora Inspect 7 recorded fields
Real-value test transactions · agora cbdc-agora-rvt-transactions-2026-07	Reported statistic transactions	agora Inspect 7 recorded fields

Definition	Type and unit	Source and fields
Recession Radar recession-radar	Calculated index index_points	FHWA/BTS/EIA/FRED + SEC EDGAR + BLS + open market/news proxies Inspect 8 recorded fields
Refugee displacement pressure refugee-displacement-pressure	Source status coverage_or_mixed_records	UNHCR Operational Data Inspect 9 recorded fields
Repo treasury fails repo-treasury-fails	Source status coverage_or_mixed_records	Federal Reserve / OFR Treasury market plumbing data Inspect 9 recorded fields
RMB customer deposits in Hong Kong finance-hkma-total_deposits	Reported statistic CNY	hkma Inspect 9 recorded fields
RO · 1 uncie Monedă de Argint Britannia Britanică bullion-premium-tavex-ro-silver	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
RO · Monedă de Aur Krugerrand Sud-African 1 uncie bullion-premium-tavex-ro-gold	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
RS · 1 oz (31.1g) zlatna kovanica Bečka Filharmonija, Austrija bullion-premium-tavex-rs-gold	Price-derived measure percent over equivalent fine-metal spot	Tavex Inspect 19 recorded fields
Running equivalent ap space-kp-primary-a-running	Official estimate index	kp Inspect 10 recorded fields
Sanctions Entity / Vessel / Ownership Graph sanctions-entity-vessel-ownership-graph	Source status coverage_or_mixed_records	OpenSanctions + OFAC/EU/UN/OFSI + OpenOwnership + vessel registries Inspect 9 recorded fields
Sanctions trade controls systemic-sanctions-trade-controls	Event / record count qualified_source_records	OFAC + OpenSanctions + export-control monitors Inspect 7 recorded fields
Satellite reentry reliable feed satellite-reentry-reliable-feed	Source status coverage_or_mixed_records	Space-Track decay/reentry Inspect 9 recorded fields
Sentinel SAR flood change sentinel-sar-flood-change	Source status coverage_or_mixed_records	Copernicus Sentinel-1 SAR + EMS flood mapping Inspect 9 recorded fields
Severe Weather Loss Events storm-loss-events	Source status coverage_or_mixed_records	NOAA NCEI Storm Events Inspect 9 recorded fields
SG · Buy 100 Gram BullionStar No-Spread Gold Bullion Bar bullion-premium-bullionstar-sg-gold	Price-derived measure percent over equivalent fine-metal spot	BullionStar Inspect 19 recorded fields
Single-name CDS finance-otc-instrument-V-T	Reported statistic USD	otc-instruments Inspect 9 recorded fields
Smoothed F10.7 space-cycle-observed-primary-smoothed-f10-7	Reported statistic sfu	cycle-observed Inspect 10 recorded fields
Smoothed international sunspot number space-cycle-observed-primary-smoothed-ssn	Reported statistic sunspot number	cycle-observed Inspect 10 recorded fields
Smoothed SWPC sunspot number space-cycle-observed-primary-smoothed-swpc-ssn	Reported statistic sunspot number	cycle-observed Inspect 10 recorded fields
Solar radio 1415 MHz · Kaena Point space-radio-kaena-point-1415mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 1415 MHz · Learmonth space-radio-learmonth-1415mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 1415 MHz · San Vito space-radio-san-vito-1415mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 15400 MHz · Learmonth space-radio-learmonth-15400mhz	Source observation sfu	radio Inspect 10 recorded fields

Definition	Type and unit	Source and fields
Solar radio 15400 MHz · San Vito space-radio-san-vito-15400mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 245 MHz · Kaena Point space-radio-kaena-point-245mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 245 MHz · Sagamore Hill space-radio-sagamore-hill-245mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 245 MHz · San Vito space-radio-san-vito-245mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 2695 MHz · Kaena Point space-radio-kaena-point-2695mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 2695 MHz · Learmonth space-radio-learmonth-2695mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 2695 MHz · San Vito space-radio-san-vito-2695mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 410 MHz · Kaena Point space-radio-kaena-point-410mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 410 MHz · Sagamore Hill space-radio-sagamore-hill-410mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 410 MHz · San Vito space-radio-san-vito-410mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 4995 MHz · Kaena Point space-radio-kaena-point-4995mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 4995 MHz · Learmonth space-radio-learmonth-4995mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 4995 MHz · San Vito space-radio-san-vito-4995mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 610 MHz · Kaena Point space-radio-kaena-point-610mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 610 MHz · Sagamore Hill space-radio-sagamore-hill-610mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 610 MHz · San Vito space-radio-san-vito-610mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 8800 MHz · Kaena Point space-radio-kaena-point-8800mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 8800 MHz · Learmonth space-radio-learmonth-8800mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar radio 8800 MHz · San Vito space-radio-san-vito-8800mhz	Source observation sfu	radio Inspect 10 recorded fields
Solar-wind proton density · ACE space-rtsw-plasma-ace-proton-density	Source observation cm ⁻³	rtsw-plasma Inspect 10 recorded fields
Solar-wind proton density · IMAP space-rtsw-plasma-imap-proton-density	Source observation cm ⁻³	rtsw-plasma Inspect 10 recorded fields
Solar-wind proton density · SOLAR1 space-rtsw-plasma-solar1-proton-density	Source observation cm ⁻³	rtsw-plasma Inspect 10 recorded fields
Solar-wind proton speed · ACE space-rtsw-plasma-ace-proton-speed	Source observation km/s	rtsw-plasma Inspect 10 recorded fields
Solar-wind proton speed · IMAP space-rtsw-plasma-imap-proton-speed	Source observation km/s	rtsw-plasma Inspect 10 recorded fields

Definition	Type and unit	Source and fields
Solar-wind proton speed · SOLAR1 space-rtsw-plasma-solar1-proton-speed	Source observation km/s	rtsw-plasma Inspect 10 recorded fields
Solar-wind proton temperature · ACE space-rtsw-plasma-ace-proton-temperature	Source observation K	rtsw-plasma Inspect 10 recorded fields
Solar-wind proton temperature · IMAP space-rtsw-plasma-imap-proton-temperature	Source observation K	rtsw-plasma Inspect 10 recorded fields
Solar-wind proton temperature · SOLAR1 space-rtsw-plasma-solar1-proton-temperature	Source observation K	rtsw-plasma Inspect 10 recorded fields
Source-reported aircraft targets aviation-observed-targets	Source inventory reported targets	aviation Inspect 7 recorded fields
Sovereign / Political Stability domain-sovereign-political-stability	Calculated index index_points	Country risk + OFAC/OpenSanctions/trade controls Inspect 7 recorded fields
Space satellite risk systemic-space-satellite-risk	Event / record count qualified_source_records	GNSS interference + NOAA SWPC Inspect 7 recorded fields
Stablecoin issuer reserve attestations stablecoin-issuer-reserve-attestations	Coverage measure coverage_or_mixed_records	Stablecoin issuer reserve/transparency monitors Inspect 9 recorded fields
Strategic reserve stockpiles strategic-reserve-stockpiles	Source status coverage_or_mixed_records	EIA SPR + public strategic reserve notices Inspect 9 recorded fields
Structured Election Calendar structured-election-calendar	Source status coverage_or_mixed_records	Global Politics · attributed open calendars and institution records Inspect 9 recorded fields
Structured hydromet river risk structured-hydromet-river-risk	Event / record count events_or_records	NWS/SPC/NOAA Water/USGS river monitors Inspect 4 recorded fields
Structured sanctions source pack structured-sanctions-source-pack	Coverage measure coverage_or_mixed_records	EU/OFSI/UN/BIS/U.S. CSL source pack Inspect 11 recorded fields
Subnational AnCap Policy Layer subnational-ancap-policy-layer	Source status coverage_or_mixed_records	Tax Foundation + state/province/canton policy sources Inspect 9 recorded fields
Supply Chain Friction domain-supply-chain-friction	Calculated index index_points	Port/freight + marine war-risk + mobility + trade-control monitors Inspect 7 recorded fields
Telecom regulatory outages telecom-regulatory-outages	Source status coverage_or_mixed_records	National telecom regulators + internet observability feeds Inspect 9 recorded fields
Total nonfinancial debt · covered economies reported-debt-world-c	Reported statistic USD	bis-credit Inspect 8 recorded fields
Total real-value test amount · agora cbdc-agora-rvt-value-2026-07	Reported statistic CHF equivalent	agora Inspect 7 recorded fields
Trade dependency precision trade-dependency-precision	Source status coverage_or_mixed_records	UN Comtrade + WITS + OEC Inspect 9 recorded fields
U.S. Power Asset Ownership power-asset-ownership	Source status coverage_or_mixed_records	EIA Form 860 Inspect 9 recorded fields
US · 1 oz American Gold Eagle bullion-premium-US-gold	Price-derived measure percent over equivalent fine-metal spot	Hero Bullion Inspect 19 recorded fields
US · 1 oz American Silver Eagle bullion-premium-US-silver	Price-derived measure percent over equivalent fine-metal spot	Hero Bullion Inspect 19 recorded fields
USD bank loans outside the United States finance-gli-usd-g	Reported statistic USD	gli-credit Inspect 9 recorded fields

Definition	Type and unit	Source and fields
USD international debt securities outside the United States finance-gli-usd-d	Reported statistic USD	gli-credit Inspect 9 recorded fields
USD total credit outside the United States finance-gli-usd-b	Reported statistic USD	gli-credit Inspect 9 recorded fields
VIIRS nightlights delta viirs-nightlights-delta	Source status coverage_or_mixed_records	NASA/NOAA VIIRS nightlights derived outage and activity deltas Inspect 9 recorded fields
Water security systemic-water-security	Event / record count qualified_source_records	USGS/water headline monitors Inspect 7 recorded fields
Wholesale pilot participants · india-wholesale cbdc-rbi-wholesale-participants-2026-10-01	Reported statistic banks and non-banks	rbi-digital Inspect 7 recorded fields
Wholesale pilot use cases · india-wholesale cbdc-rbi-wholesale-usecases-2026-10-01	Reported statistic use cases	rbi-digital Inspect 7 recorded fields
X-ray 0.05-0.4nm · GOES 18 space-xray-goes-18-0-05-0-4nm	Source observation W/m ²	xray Inspect 10 recorded fields
X-ray 0.1-0.8nm · GOES 18 space-xray-goes-18-0-1-0-8nm	Source observation W/m ²	xray Inspect 10 recorded fields

Glossary

Advanced

The broader capability-gated specialist workspace, distinct from the public brief.

Alert

A particular monitoring condition/result. Always identify its evaluator and delivery channel.

API

A programmatic interface; availability of a route does not grant every source licence.

Basis point (bp/bps)

One hundredth of a percentage point. A 4.00% to 4.10% yield move is 10 bps.

CAP

Common Alerting Protocol. A message is an issuing product, not necessarily one distinct physical event.

Canonical home

The main workspace for a data family; other views can link or summarise it.

Catalogue

Registered interfaces, fields, sources or references; registration differs from usable current data.

Collected / checked

Watchtower's retrieval or verification clock, not automatically the original observation time.

Confidence / support

A source/model-specific concept. Read its definition; it is not a universal probability of truth.

Coverage

Which places, times, entities or source records a dataset actually supports.

CSV

A tabular export. Preserve units, period, source and selection scope.

Daily bar

A source trading-session record. Its timestamp is not necessarily a current last-trade clock.

Derived

Calculated from stated inputs rather than separately observed.

Exposure

A defined relationship to an asset, place or event; association alone is not measured loss.

Fixing

A dated reference exchange-rate determination; distinct from an executable live quote.

Forecast horizon

The exact future window or session count for a specified target.

Gated / ineligible

A required access, source, definition, freshness or evidence condition is not met.

GeoJSON

A geographic export format; geometry still needs its source and precision label.

Heuristic

An authored screening rule or transformation, not necessarily an empirically calibrated prediction.

Immutable edition / issuance

A record whose original content/identity is retained; corrections use separate versions or outcomes.

JSON Pointer

A path such as /sources/0 selecting a field/subtree in a structured response.

Last known / retained

Previously accepted evidence retained with its original clocks and state.

Locality reference

Approximate place context, not a surveyed site or exact event position.

MCP

Model Context Protocol: a way for an authorised AI client to discover/call the reviewed tools.

Missing / null

No qualified value supplied. It is not a numerical zero.

Model version

The definition/calculation identity needed to compare or reproduce an output.

Nominal / real / PPP

Current monetary units, inflation-adjusted values and purchasing-power comparisons; not interchangeable.

Observation period

The date/month/quarter/year or interval a statistic describes.

Owner-scoped

Bound to the verified account rather than shared across signed-in users.

Percent / percentage point

A relative ratio/change versus an arithmetic difference between percentages.

Prospective

Actually issued before the target outcome, with its real issue time and frozen evidence.

Published-vintage replay

Historical reconstruction using currently available historical data, which may contain revisions.

Reference-only

A useful directory/method/source link without a qualified integrated numerical feed.

Replay

A captured historical application/source context; it is not an instruction to fill gaps with live data.

Resolution

The defined process that records whether a forecast's exact target occurred with sufficient evidence.

Scenario / sensitivity

A conditional assumption or changed-input experiment, not automatically a confidence interval.

Snapshot

A captured generation used for coherent reads; native source and MCP snapshots can be separate.

Source-revised

A source change affects compatibility with a frozen record; scoring can be withheld.

Stale / partial

Outside the source-age requirement or incomplete in the declared scope.

Stock / flow

A balance at a point in time versus an amount measured over an interval.

TVL / volume / fees / revenue

Distinct digital-asset measures that should not be added or substituted without a defined basis.

Watchlist

A saved selection. Its storage, evaluation and notification behaviour depends on the feature.

Yield

A rate for the specified instrument/convention, not its price return.

Basis point

One hundredth of a percentage point. 100 bps equals 1 percentage point.

CDS spread

A reported credit-derivative spread field with its own contract, source time and price notation.

Coupon

A contractual fixed payment rate; it is not automatically the observed market spread.

Upfront payment

A separately reported monetary payment, not a par spread or probability.

LEI

A legal-entity identifier. Check the source entity and parent boundary rather than relying on a similar name.

ISIN

A securities identifier for a particular instrument; not automatically an issuer identity.

UPI

A derivative product identifier; it is not a legal-entity identifier.

Prospective forecast

A forecast actually issued before its outcome, under a frozen target/input definition.

Current-vintage backtest

Historical research reconstructed using a stated data vintage; not automatically an issued live forecast.

Source record

A published/retained row or document; multiple records can describe the same event.

Learning progress

Your local lesson/check history. It is not a credential, access grant or proof of source/model accuracy.

Unknown

An unestablished value or condition, distinct from a reported zero or known false.

National rating scale

An agency's scope-specific ranking system; it is not automatically interchangeable with a global scale.

Tour controls and privacy

Next, Back and the chapter picker navigate the tour. Close and Escape work at every step. Simple Mode ends with a choice to stop or continue to Advanced. Help this tab and Explain this data point replay a focused section. Help remains readable without a paid model connection.

The new tour starts on the first verified Pro Simple Mode entry in a browser session. Closing it suppresses repeated automatic opening for that account during this session; Help always replays it. The session key uses a hash of the verified owner, contains only a seen marker, and falls back to visit memory if storage is unavailable. Account or replay changes cancel active guidance. The tour never saves settings, enables alerts, submits paid AI requests or changes data.

Historical dated downloads remain historical documents. Active Help, guide and tour buttons now use this unified tour and this manual. Source-method pages remain available because their evidence qualifications are part of reading data correctly.

Public finance and official government feeds

Central banks, treasuries & budgets

Open Monetary Predictions → Central banks, treasuries & budgets. Start with Coverage, choose a jurisdiction and measure, then Inspect a series for its original decimal values and source history. Budget/account links lead to publisher documents; they are not parsed enacted-budget totals.

Central-bank total assets and statement components; central-government financial-only stocks; Canadian public accounts; fiscal outturns and WDI fiscal context; budget/account document links. These are different accounting measures, not universal audited statements or enacted budgets. Keep source units, multipliers, periods, raw decimal values, statuses and retained-source clocks. Do not add parent/subtotal rows, Eurosystem and national central banks. No changes to hyperinflation model outputs.

Read-only MCP dataset: `/agent/api/public-finance`. Start with overview; retain native snapshot and nextOffset when paging records, alongside the separate MCP field-page snapshot.

Official government updates

Open Global Politics → Official government updates. Review Coverage, then Official updates. Select a publication window, inspect the authority and date basis, and follow the original source. Use Sources for access/coverage gaps. Officeholder references and social links have their own sections.

Reviewed government-office publications and secondary-directory-discovered government-domain feeds retain separate authority labels. Officeholder/institution associations are secondary references, not an independently verified current roster. Official publication is not independent verification of a claim. X account references are links only; posts are not ingested. Missing or undated updates do not mean zero activity.

Read-only MCP dataset: `/agent/api/government-official-feeds`. Start with overview; retain native snapshot and nextOffset when paging records, alongside the separate MCP field-page snapshot.

Source clocks and coverage

Sources shows fetched/cache status separately from parsed records. Reference-directory coverage is not numeric or news coverage. A new collection timestamp does not re-date a fiscal period or publication. Known access denials are retained for review; missing data is not zero. Publisher attribution and licences apply.

[Complete dataset methods and examples](#)

Deficits, proposed budgets and shortage mentions

Fiscal balances and IMF evidence

Expanded public-finance evidence includes IMF WEO and Fiscal Monitor overall and primary balances, revenue, expenditure, gross/net debt and cyclically adjusted balances; historical IMF government finance; additional World Bank fiscal indicators; and Eurostat general-government financial stocks and deficit/surplus. Keep government sector, numerator, GDP versus potential-GDP denominator, signs, periods and source edition separate. IMF series include estimates/projections with no per-observation actual/estimate boundary; they are not government budget proposals. Deficits & surpluses defaults to a period no later than the current year. Use the annual reference-year filter and Inspect for full history.

Budget proposals and documents

Proposed / draft budgets and Enacted budget documents are source-title classifications. A published draft can later be enacted; its label is not a current legislative-status determination. Document year comes from title/URL, not collection time. Use the year filter for 2026 or 2027 materials. Source links include published US President budget proposals, Japan draft highlights and Philippines proposed-budget materials; coverage varies. Numeric totals in linked budget PDFs are not parsed.

Geopolitical shortage mentions

Geopolitical Outlook → Country table now has a Shortage mentions ·30days column. Counts are canonical article URLs with matching source text for fuel, food, electricity, water, medicine and industrial inputs. Click counts or Browse all shortage mentions for source excerpts, types and 7/30/90day/all-retained windows. Risk/forecast and denial/resolution wording remain labelled. Country-name/source-dossier associations are context, not verified shortage locations. Missing/undated coverage never becomes a no-shortage claim. Search-term/language and corpus bounds are exposed; this is not a risk-score input.

MCP: `/agent/api/public-finance?view=deficits&country=US&year=2026` and `/agent/api/shortage-mentions?view=records&category=fuel&days=30`. Native source snapshots and record pagination differ from MCP field-page snapshots.

Ask AI: applied screen context and targeted retrieval

Ask AI now uses the applied Monetary public-finance selection (country, year, view, series, native page/snapshot), the Geopolitical Outlook country/horizon/filters, and the selected Official government updates dataset. Pending/unavailable selections are clearly identified; unapplied input edits are not treated as selected evidence. Each Preview/Run recaptures the current public selection. Contextual Analyst now plans typed source queries before answering; explicit

manual source selections override automatic planning. Source periods, native units, fiscal status and signed balances stay attached to financial evidence. Rounded currency display conversions are marked as deterministic arithmetic. Preview uses no model calls. Run retains the existing at-most-three-model-call/6000-output-token budget and support review. The running status shows elapsed time, not fabricated stage progress. Other workspaces can still provide only limited context; missing data and model/provider failures remain possible.

Core workflow features and earlier additions

This edition was checked against the deployed application, current workspace/tour registry, recent accepted release notes and public source catalogue. These are product capabilities and dated coverage, not new source observations.

Pro Brief windows

Every original section is now configurable. Click Choose feed, search, review a preview and Use this feed. Add, arrange, remove, undo, restore and export/import are available.

War Room Simple view

Check a place, find a dam, explore past events/terrain, or use optional guided radio and water examples. GDAT, GeoDAR and the reduced GDW viewer stay separately labelled. No safety or engineered-flood claims.

Global Risk Overview

Country/regional evidence-pressure maps and the matrix share a home with the Systemic workbench. The twenty-domain evidence map and separately defined Systemic forecasts retain their own methods and validation limits.

Geopolitical Futures

In Investigate / Advanced, Geopolitical Futures is the first main tab, immediately left of Natural Hazards. It is also available from the first Mission control and Research Tools shortcuts. User-hidden layout preferences and access gates still apply. Source-conditioned and exploratory estimates retain model/target/horizon and track-record qualifications.

Government finance and official updates

Monetary Predictions includes central-bank/treasury references, deficits/surpluses, annual reference years and proposed/enacted source documents. IMF estimates/projections, signed balances, sectors, units and source editions remain distinct. Global Politics includes official-government feeds with original authority and date basis.

Shortage mentions

Geopolitical Outlook country-table counts open cited fuel, food, electricity, water, medicine and industrial-input mentions. Reporting context, forecasts and denials are distinguished; the counts are not confirmed shortages or risk inputs.

Credit, demographics and global maps

Ratings/CDS references, source-qualified country demographics, worldwide insurance evidence, Aviation/Mobility and map-interface improvements remain documented in their detailed workspace chapters. Source coverage and historical dates still apply.

Assistant and the unified tour

The current Assistant uses applied public-finance country/year/view and geopolitical country/horizon selections, with specific official-government sources where supported. Default Analyst performs bounded typed retrieval; manual sources override it. Preview has no model calls; Run uses the account's configured model access. Other workspaces may provide only limited context. The retained interactive core tour covers its registered workspaces and shared tools; the current edition adds chapters for newer workspaces and links to the dated application inventory.

Data access and privacy

The current catalogue lists 218 reviewed API/MCP route paths. Pro Brief exposes its supported bounded feed subset plus current normalized points; a reviewed route is not automatically a window feed.

Private/customer/provider/operational/binary controls remain excluded. A catalogue entry does not guarantee source availability.

News keyword filters

The original Pro Brief News window and Daily Brief have a Keyword / phrase box. Enter or Filter news applies literal, case-insensitive terms, quoted phrases and -term exclusions alongside the existing news filters. Clear removes the keyword. No query runs while typing; no-match stays empty. The two brief views keep independent browser-local news preferences.

Build a brief by adding and moving cards

Open **Pro Brief** in Monitor or Investigate. Your brief is a board you can arrange.

Add real data in three steps

1. Click **+ Add data**.
2. Search a name or topic. Try **Apple Inc CDS**, **Apple Inc ratings**, **Blackstone Private Credit Fund**, **US deficits 2026**, or **inflation**.
3. Check the returned entity, value, source and date, then click **Add to brief**. On a wide desktop, you can also drag a ready result's handle onto the board.

Search covers the registered public data-point and dataset catalogues. Recognized rating, CDS, reporting and public-finance searches query those actual sources. Other matching data points and datasets offer **Preview**. Unavailable or empty results are shown explicitly. Search does not claim to search every field in every global database. Use a full issuer name when a short name is ambiguous: Apple Bank and Apple Inc. are different entities.

The desktop data drawer stays alongside the board so you can add several cards. On a smaller screen, Add opens a sheet and returns to the board after a successful addition. **Edit** changes an existing card. Common source filters are readable inputs; raw parameters, data sections and field pointers are inside **Advanced options**. Changed filters require a new preview before they can be added.

Arrange it like a page

- Drag the **≡ handle** in a card heading to its new position. The drop marker shows where it will go. Mouse, touch and pen are supported.
- Drag the **↘ corner** to resize. Width snaps to small, half or full width on wider screens; height stays within 220–1200 pixels. Narrow screens reflow to one column.
- Keyboard: focus the move handle and use arrow keys to move a card earlier/later. The resize handle uses left/right for width and up/down for height. **Escape** cancels a gesture. Card options also offer move, width and automatic-height actions.
- Use **Undo** after an edit, move, resize or removal. **Board options** provides import/export, reload, a blank board and the starter board.

Source links, form controls and selectable text keep their normal behavior. Moving or resizing a card changes its layout rather than refreshing its source. An active gesture defers the original brief's background repaint. Card data retains its original observation/publication dates and source qualifications.

Read credit data correctly

Rating cards show the exact issuer or instrument reference, agency, rating type, currency basis and original rating-action date. An old action date is not replaced with today's retrieval time. A public registry reference does not independently certify a current rating, and an issuer grade is not automatically a bond grade.

CDS cards distinguish a reported trade/disclosure spread from a market quotation. Contract coupon and upfront payments remain separate fields. Reference labels are not automatic legal-entity matches, and reporting streams can overlap. Missing ISINs, prices and dates remain missing. Fund issuer ratings are not fund performance ratings or a credit rating for every underlying holding.

Financial cards prefer the explicitly selected source year when supplied and keep original decimal values, units, multipliers, signs and estimate/projection labels. Data-point cards retain the source's primary metric definition. **Source details & coverage** provides the query, source clocks, definitions and native pagination.

Saving, account sync and older layouts

Up to 24 cards are saved under the verified account in this browser. Version 1 layouts open with their order, titles, data bindings and widths preserved; the first explicit edit saves version 2 dimensions under the same owner-scoped storage key. Older clients reject the new format instead of silently removing dimensions. Unknown or malformed formats remain stored until you explicitly replace them.

Research tools → **Device sync** → **Layout** can explicitly preview and transfer the board with the other display preferences. This does not automatically overwrite another device. If another browser tab changes the saved board, use **Reload saved board** before editing. Storage failure is labelled visit-only; export the layout if you need to retain that visit's changes.

Account changes, unverified access and replay clear the current private board view and cancel pending searches, previews and gestures. The builder uses reviewed public readers and existing access controls. It does not create alerts, execute trades, change source data or run a paid AI model.

Reviewed source-interface directory

218 reviewed API/MCP route paths, including an existing alias. This is not a promise that every route can be a Pro Brief window: the picker shows its supported bounded subset. Native parameters, account access and provider limits apply.

Dataset/interface	Reviewed path	Route access
Air EWS	/agent/api/air-ews	professional
Alt Dollar Stress	/agent/api/alt-dollar-stress	professional
Alternative Economics Catalog	/agent/api/alternative-economics-catalog	professional
Alternative Economics Dashboard	/agent/api/alternative-economics-dashboard	professional
Ancient Map source collection and historical frames	/agent/api/ancient-map-evidence	professional
Application-to-MCP coverage inventory	/agent/api/application-coverage	professional
Asteroid Threats	/agent/api/asteroid-threats	professional
Aviation Tracker	/agent/api/aviation-tracker	public
Bank CDS Reference	/agent/api/bank-cds-reference	professional
Banking Systemic Risk	/agent/api/banking-systemic-risk	professional
Bankrun History References	/agent/api/bankrun-history-references	professional
Bankrun Official Evidence	/agent/api/bankrun-official-evidence	professional
Bankrun Tracker	/agent/api/bankrun-tracker	professional
Biosecurity Risk	/agent/api/biosecurity-risk	professional
Bond yields and fixed-income data	/agent/api/bonds	professional
Bullion Premiums	/agent/api/bullion-premiums	professional
Calendar	/agent/api/calendar	public
Camera Catalog Evidence	/agent/api/camera-catalog-evidence	professional
Cameras World	/agent/api/cameras/world	professional
Cat Insurance Stress	/agent/api/cat-insurance-stress	professional
Commodity Atlas	/agent/api/commodity-atlas	professional
Commodity Atlas Catalog	/agent/api/commodity-atlas-catalog	professional
Commodity Atlas OSINT	/agent/api/commodity-atlas-osint	professional
Commodity Atlas Reference	/agent/api/commodity-atlas-reference	professional
Commodity Atlas v4 Evidence	/agent/api/commodity-atlas-v4-evidence	professional
Commodity Gas Facilities	/agent/api/commodity-gas-facilities	professional
Commodity Stock Analysis	/agent/api/commodity-stock-analysis	professional
Commodity Supply Chain	/agent/api/commodity-supply-chain	professional
Commodity Wars	/agent/api/commodity-wars	professional
Company Miner Dossier	/agent/api/company-miner-dossier	professional
Company Research Facts	/agent/api/company-research-facts	professional
Conflict Events	/agent/api/conflict-events	public
Conflict Network	/agent/api/conflict-network	professional

Dataset/interface	Reviewed path	Route access
Conflict Research	/agent/api/conflict-research	professional
Corporate Credit Dossier	/agent/api/corporate-credit-dossier	professional
Country Calendar Signals	/agent/api/country-calendar-signals	professional
Country Commodity Production	/agent/api/country-commodity-production	professional
Country credit rating references	/agent/api/country-credit-ratings	professional
Country Crime Monitor	/agent/api/country-crime-monitor	public
Country Demographics	/agent/api/country-demographics	professional
Country Dossier	/agent/api/country-dossier	public
Country Encyclopedia	/agent/api/country-encyclopedia	professional
Country Facts	/agent/api/country-facts	public
Country Risk	/agent/api/country-risk	public
Country Source Pack	/agent/api/country-source-pack	professional
Country Trade Annual	/agent/api/country-trade-annual	professional
Crash Warning Radar	/agent/api/crash-warning-radar	professional
Credit Derivatives Risk	/agent/api/credit-derivatives-risk	professional
Credit Evidence	/agent/api/credit-evidence	professional
Credit Issuer Evidence	/agent/api/credit-issuer-evidence	professional
Crime Command	/agent/api/crime-command	professional
Crime Live Events	/agent/api/crime-live-events	professional
Crime World Evidence	/agent/api/crime-world-evidence	professional
Cross Domain Alerts	/agent/api/cross-domain-alerts	professional
Cross-asset market overview	/agent/api/market-overview-live	public
Crypto Token Intel	/agent/api/crypto-token-intel	professional
Crypto World Evidence	/agent/api/crypto-world-evidence	professional
Cryptocurrency market prices	/agent/api/crypto-markets	public
Cyber Infra Risk	/agent/api/cyber-infra-risk	professional
Cyber World Evidence	/agent/api/cyber-world-evidence	professional
Daily provider market-price history	/agent/api/market-price-history	professional
Data coverage and durable-history inventory	/agent/api/data-inventory	professional
Debt World Evidence	/agent/api/debt-world-evidence	professional
Deposits Liquidity	/agent/api/deposits-liquidity	professional
Digital Money World	/agent/api/digital-money-world	professional
Drone Incidents	/agent/api/drone-incidents	professional
Durable source evidence and revisions	/agent/api/evidence-history	professional
Earnings Calendar	/agent/api/earnings-calendar	professional
Economic Calendar	/agent/api/economic-calendar	public
Eurodollar Series History	/agent/api/eurodollar-series-history	professional
External Intel	/agent/api/external-intel	public

Dataset/interface	Reviewed path	Route access
Financial Stress Evidence	/agent/api/financial-stress-evidence	professional
Financial Stress Expanded	/agent/api/financial-stress-expanded	professional
Flights	/agent/api/flights	professional
Forecast Calibration	/agent/api/forecast-calibration	professional
Forecast Lab	/agent/api/forecast-lab	professional
Freedom Prosperity	/agent/api/freedom-prosperity	professional
Fund Flow Risk	/agent/api/fund-flow-risk	professional
Funding Liquidity	/agent/api/funding-liquidity	professional
Geopolitical Futures	/agent/api/geopolitical-futures	professional
Geopolitical Outlook	/agent/api/geopolitical-outlook	professional
Global Bond Intel	/agent/api/global-bond-intel	professional
Global Finance Counters	/agent/api/global-finance-counters	professional
Global fuel prices	/agent/api/global-fuel-prices	professional
Global Market Lookup	/agent/api/global-market-lookup	professional
Global Politics	/agent/api/global-politics	professional
Global Risk Overview	/agent/api/global-risk-overview	professional
Global satellite orbit references	/agent/api/satellites/global	professional
Global stock index references	/agent/api/global-index-markets	professional
Global stock market data	/agent/api/global-stocks	public
GNSS Interference	/agent/api/gnss-interference	public
Government Official Feeds	/agent/api/government-official-feeds	professional
Grid US Power	/agent/api/grid-us-power	professional
Hard Asset Stress	/agent/api/hard-asset-stress	professional
Health Capacity	/agent/api/health-capacity	professional
Health Command	/agent/api/health-command	professional
Health Outbreaks	/agent/api/health-outbreaks	public
Health World	/agent/api/health-world	professional
Hedge Crowding Risk	/agent/api/hedge-crowding-risk	professional
Hidden Credit Stress	/agent/api/hidden-credit-stress	professional
Homicide Rates	/agent/api/homicide-rates	professional
Incident Graph Command	/agent/api/incident-graph-command	public
Inflation and consumer price evidence	/agent/api/inflation-prices	professional
Infrastructure Assets	/agent/api/infrastructure-assets	professional
Infrastructure Export	/agent/api/infrastructure-export	professional
Infrastructure Manifest	/agent/api/infrastructure-manifest	professional
Infrastructure Network	/agent/api/infrastructure-network	professional
Infrastructure Network Catalog	/agent/api/infrastructure-network-catalog	professional
Infrastructure Network Feature	/agent/api/infrastructure-network-feature	professional

Dataset/interface	Reviewed path	Route access
Infrastructure Public Evidence	/agent/api/infrastructure-public-evidence	professional
Infrastructure Search	/agent/api/infrastructure-search	professional
Insurance Stress	/agent/api/insurance-stress	professional
Insurance World Evidence	/agent/api/insurance-world-evidence	professional
Intel Matrix	/agent/api/intel-matrix	professional
Intel Matrix Normalized	/agent/api/intel-matrix-normalized	professional
Legislation	/agent/api/legislation	professional
Linked Events	/agent/api/linked-events	professional
Liveuamap Regions	/agent/api/liveuamap-regions	professional
Logistics Stress	/agent/api/logistics-stress	professional
Macro Plumbing	/agent/api/macro-plumbing	professional
Marine and shipping intelligence	/agent/api/marine-intelligence-command	public
Maritime Anomalies	/agent/api/maritime-anomalies	public
Maritime Hazard Forecast	/agent/api/maritime-hazard-forecast	professional
Market Reference	/agent/api/market-reference	professional
Market valuation context	/agent/api/market-valuation-context	professional
Media Intel	/agent/api/media-intel	professional
Metric Semantics	/agent/api/metric-semantics	professional
Military	/agent/api/military	public
Military Map	/agent/api/military-map	professional
Mining Juniors Analysis	/agent/api/mining-juniors-analysis	professional
Mobility Infrastructure	/agent/api/mobility-infrastructure	professional
Mobility Public Evidence	/agent/api/mobility-public-evidence	professional
Monetary Gold	/agent/api/monetary-gold	professional
Monetary Predictions	/agent/api/monetary-predictions	professional
NASA FIRMS fire hotspots	/agent/api/firms/hotspots	professional
Natural Disaster Forecast	/agent/api/natural-disaster-forecast	professional
Natural hazards command	/agent/api/natural-hazards-command	public
Natural Hazards Evidence	/agent/api/natural-hazards-evidence	public
Network Plumbing	/agent/api/network-plumbing	public
Next Data Source Packs	/agent/api/next-data-source-packs	public
OFR financial stress and selected USGS river observations	/agent/api/primary-observations	professional
Organized Crime	/agent/api/organized-crime	public
OSINT Command Center	/agent/api/osint-command-center	professional
OSINT Cyber Exposure	/agent/api/osint-cyber-exposure	professional
OSINT Entity Explorer	/agent/api/osint-entity-explorer	professional
OSINT Legal Enforcement	/agent/api/osint-legal-enforcement	professional

Dataset/interface	Reviewed path	Route access
OSINT Narrative Tracker	/agent/api/osint-narrative-tracker	professional
OSINT Procurement Intel	/agent/api/osint-procurement-intel	professional
OSINT Sanctions Ownership	/agent/api/osint-sanctions-ownership	professional
OSM Infra	/agent/api/osm-infra	professional
Outage World Evidence	/agent/api/outage-world-evidence	professional
Outages	/agent/api/outages	public
Outbreak Momentum	/agent/api/outbreak-momentum	public
Outcome Studio	/agent/api/outcome-studio	professional
Payments Rail Health	/agent/api/payments-rail-health	professional
Political News	/agent/api/political-news	professional
Polymarket Top Bets	/agent/api/polymarket-top-bets	professional
Port Freight Stress	/agent/api/port-freight-stress	public
Power Grid Stress	/agent/api/power-grid-stress	public
Power Plants	/agent/api/power-plants	professional
Prediction Risk	/agent/api/prediction-risk	professional
Probability Change Alerts	/agent/api/probability-change-alerts	professional
Public Finance	/agent/api/public-finance	professional
Public news feed	/agent/api/news	public
Public Reference Evidence	/agent/api/public-reference-evidence	professional
Quotes Batch	/agent/api/quotes-batch	professional
Rainviewer Maps	/agent/api/rainviewer-maps	professional
Ratios	/agent/api/gold-silver-ratio	public
Ratios	/agent/api/ratios	public
Real Economy Pulse	/agent/api/real-economy-pulse	professional
Real Estate Intel	/agent/api/real-estate-intel	professional
Recession Radar	/agent/api/recession-radar	professional
Retained finance analytics history	/agent/api/finance-history	professional
Sanctions World Evidence	/agent/api/sanctions-world-evidence	professional
Satellites GP	/agent/api/satellites/gp	professional
Satellites Reentry	/agent/api/satellites/reentry	professional
Search	/agent/api/search	professional
SEC Company History	/agent/api/sec-company-history	professional
SEC Current Filings	/agent/api/sec-current-filings	professional
Shared military-world OSINT projection	/agent/api/military-world-evidence	professional
Shortage Mentions	/agent/api/shortage-mentions	professional
Social Feed	/agent/api/social/feed	public
Source-dated instrument quote	/agent/api/quote	professional
Sovereign Consumer Stress	/agent/api/sovereign-consumer-stress	professional

Dataset/interface	Reviewed path	Route access
Sovereign Reserve Stress	/agent/api/sovereign-reserve-stress	professional
Space Weather Command Center	/agent/api/space-weather-command-center	professional
Space Weather Donki	/agent/api/space-weather-donki	professional
Space Weather World	/agent/api/space-weather-world	professional
Spatial Research	/agent/api/spatial-research	professional
Stored daily prices and source revisions	/agent/api/market-history-ledger	professional
SWPC Feed	/agent/api/swpc-feed	professional
Systemic Risk	/agent/api/systemic-risk	professional
Terror Events	/agent/api/terror-events	public
Threat Outcome Tree	/agent/api/threat-outcome-tree	professional
Unicorn Tracker	/agent/api/unicorn-tracker	professional
US Treasury debt to the penny	/agent/api/debt-to-penny	professional
USGS earthquake observations	/agent/api/earthquakes	public
Violence Events	/agent/api/violence-events	public
Volcano Events	/agent/api/volcano-events	public
War Room Evidence	/agent/api/war-room-evidence	professional
War Room Resilience	/agent/api/war-room-resilience	professional
Watchtower Changes	/agent/api/watchtower-changes	public
Watchtower Data Points	/agent/api/watchtower-data-points	public
Watchtower Data Proof	/agent/api/watchtower-data-proof	public
Watchtower Domain Signals	/agent/api/watchtower-domain-signals	public
Watchtower Entities	/agent/api/watchtower-entities	public
Watchtower Event History	/agent/api/watchtower-event-history	professional
Watchtower Events	/agent/api/watchtower-events	public
Watchtower Expansion Data	/agent/api/watchtower-expansion-data	professional
Watchtower OSINT Observations	/agent/api/watchtower-osint-observations	public
Watchtower Sources	/agent/api/watchtower-sources	public
Wealth Affordability Intel	/agent/api/wealth-affordability-intel	professional
Wealth Trackers	/agent/api/wealth-trackers	professional
Wealth World Evidence	/agent/api/wealth-world-evidence	professional
Weather observations and forecasts	/agent/api/weather-command-center	professional
Weather Warnings	/agent/api/weather-warnings	public
Welcomeness Evidence	/agent/api/welcomeness-evidence	professional
World Nervous System	/agent/api/world-nervous-system	professional

Connected research workflows

Open **Research tools** from My Watchtower or a workspace toolbar. The seven views connect existing monitoring, cases and public evidence. Normal account access and source entitlements apply. Switching accounts or entering replay clears the open research context and cancels pending requests.

Saved searches

1. In Pro Brief or Daily Brief, apply your keyword, topic, source-type and editorial choices. Click **Save this search as a watch**.
2. Review the exact saved filters, publication window and inherited publisher regions. Give the watch a name.
3. Choose next eligible in-app evaluation or a daily inbox digest. Explicitly enable notifications if wanted, then save. Open **My Watchtower** → **Inbox** for delivery.

Keywords use case-insensitive Unicode-normalized literal matching: all terms must match, quotes retain phrases, and -term or -"phrase" excludes them. The limit is 180 characters and 12 terms. Country/company words are contextual matches, not verified locations or holdings. A newsroom search cannot silently become a general watchlist with different matching rules.

The first healthy server evaluation establishes a baseline without alerting on old headlines. Canonical repeats and mirrored headlines are grouped; substantive revisions remain labelled. Monitoring checks at most 500 retained stories per search. Pro uses the rolling last 48 hours; Daily uses the current UTC day. The briefing story-count preference does not cap the monitoring scan.

Immediate means the next eligible server evaluation, not external push. Daily digests use your existing briefing IANA time zone and local hour, with up to 20 queued records per edition. A 15–1440 minute cooldown, per-watch budget and shared 10-delivery/day account budget apply. Queues are bounded to 100 matches and the account-private storage budget, and expire after 48 hours; omitted/expired counts are visible. Source delays and polling/load can delay delivery. This feature does not subscribe you to email or SMS.

Investigation dossiers

Dossiers are the existing War Room cases. Open one or create a new case, write a research question, and add assessment, notes and unanswered questions. Pin a reviewed dataset page, forecast scorecard or scenario relationship. In a workspace, **Pin selection** opens the applied public source in the coverage inspector; review it before pinning. To retain an individual article, inspect its `/items/0` or other actual source pointer instead of assuming the first field page contains the article.

Pins preserve the source endpoint, applied parameters, source snapshot, original clocks when supplied, captured fields, analyst context and pin time. Pin time is not publication or event time. Each pin is limited to 48 KiB; choose a narrower pointer or page for larger data. Cases retain at most 200 evidence records and existing account-private storage limits. Evidence can support, contradict, contextualize or leave a question unresolved. Citation numbers are not reassigned after deletion.

Click **Save dossier revision** to retain edits across devices. Concurrent edits return a conflict instead of overwriting the saved case. Export an unsaved draft before reloading if you want to retain it. JSON and dated Markdown exports preserve the evidence and qualifications; they are analyst-authored products, not automatic verification.

After saving, share with a specific eligible account as a viewer or editor for 1, 7, 30 or 90 days. Copy the returned recipient-specific link. A link alone does not grant access to another account. Revoke shares from the same view. Deleting a case revokes its grants; account deletion uses the existing private-state barrier. Older clients that cannot preserve extended provenance cannot silently strip it.

Data, API and MCP coverage

Search **Data coverage** by workspace, dataset or topic. The catalogue is read from the currently reviewed MCP registry; workspace associations come from reviewed Assistant references. Missing workspace mappings and non-catalogued associations are shown explicitly. A reviewed route is not proof that all fields/history are available or current, and a source without a documented workspace mapping is not necessarily unused.

Select **Inspect fields / history**, review supported parameters, and read the live selection. The inspector provides equivalent native API and MCP requests. Returned JSON Pointers preserve original types, including zero, null and stale flags. Use an empty pointer for the root response. Follow **Next field page** or long-field continuation without changing the MCP snapshot. Native `nextOffset`, `next_cursor` and native source snapshot belong inside Parameters and paginate source records; they are independent of MCP field and text pagination. Read original source dates, coverage and units before drawing conclusions. A bounded inspected page is not a complete dataset download.

Account, credential, payment, private portfolio/case/report/settings, administrative, binary stream and mutation surfaces remain intentionally excluded from public MCP.

Applied research context

Apply country, explicit company symbol, topic, reference year and source-native horizon in **Applied context**, or capture a successfully applied workspace selection. The context strip makes the retained research focus visible across workspaces. Pending form edits and unavailable source requests are not accepted as applied data.

Send supported fields to Geopolitical Futures, Geopolitical Outlook, Public finance or Pro Brief news. Unsupported fields are reported instead of silently applied. Futures uses its supported next-year/2030/2040/2050 selector; Outlook uses 24h/7d/30d forecast horizons. Reference years and forecast horizons are different concepts. The company action opens the reviewed company evidence source for the explicit symbol. No name-to-ticker or parent/subsidiary inference is made.

Use context in Assistant opens a question containing this explicit context and the current workspace. Review Preview/source selections before Run. The existing account-bound AI connection is reused; opening the Assistant does not generate a paid answer or upload private dossier contents.

Forecast scorecards

Choose Futures, Forecast Lab funds, Systemic targets, Energy prices or Geopolitical Outlook. Read the exact target, original horizon unit, model version, historical evaluation windows, simple baselines, genuinely issued outcomes and

calibration qualifications. Source-wide issuance counts are labelled separately from selected target/model partitions. Missing values remain unavailable, not zero.

Futures predicts source-coded event presence inside borders, not the aggressor or a specific attack. Fund targets retain their exchange-session and price-return definitions. Energy horizons count source observations, not calendar days; errors remain in native units. Authored geopolitical priors are not measured performance baselines. Historical current-vintage reconstructions are not prospective success, and source calibration gates remain authoritative. This view does not fit models, issue forecasts, resolve outcomes or rewrite any ledger.

Cross-device preference sync

In **Device sync**, choose scopes, preview them, then explicitly save them to your account or apply the saved version on another signed-in device. Scopes are Pro/Daily news choices, pinned workspaces/table preference, current device panel/tab layout and configurable Pro Brief window definitions, default display mode and briefing timezone/hour. Layout applies to the device's native layout. Existing watchlists, cases and briefing history use their own cloud stores and are not duplicated here.

The account document has an optimistic revision. If another device changes it, refresh, compare and choose again; no automatic last-writer winner is used. Applying cloud settings is also explicit and affects only selected scopes. Guest settings are not uploaded automatically. Browser storage failure is reported and prior values are restored where storage permits. Credentials, arbitrary local storage, recent browsing history, private cases, holdings and provider settings are excluded.

Scenario-to-exposure analysis

Choose a country, historical trade year, HS product chapter, importer/exporter role, explicit disruption percentage and resource reference year. Optionally select up to four supported company symbols, or copy explicit symbol subjects and a single country from a saved watch. Company-name phrases are not guessed into symbols.

The view presents up to 40 retained country/product relationships with original values, units, source year, relationship class and reported/estimated status. HS chapters describe products, not measured industry revenue exposure. Source models such as reconciled BACI trade remain estimates. The value-scaled hypothetical reference is simply source value $\times$ your assumed fraction: it is not a financial loss, observed affected volume, future flow or price forecast. Country-centre links are not physical shipping routes. Different relationship classes are not added.

Resource projections keep their original anchors and assumptions. Company legal headquarters, where documented, are separate from operating assets, suppliers, revenues and disruption exposure. Missing operational/project links remain unmapped. No holdings, parent/subsidiary exposures or undisclosed supplier networks are inferred. Pin relationships and assumptions to a dossier or export the complete bounded view.

Start research: connected steps and verified actions

Start research is the first Research tools view. Choose a country investigation, topic/company watch or forecast review; apply explicit choices and follow the linked native workspaces. Finance reference years and Futures target years are separate. A news topic is not silently used as a fiscal-series filter. Country news matching uses an explicitly labelled name phrase, not verified geography. Handoffs verify the returned applied fields and leave the destination visible; failed steps reopen with an error. Inspect/pin and watch steps use existing source/dossier/watch controls and never save or enable automatically. Session progress means a step was verified or its editor prepared, not that a claim became true.

Shared context and map-camera controls

Research tools and Ask AI share an applied-context registry for supported native selections: Futures, Outlook/shortage evidence, Monetary/public finance, Global Politics/official/political updates, country profile overview, Pro Brief news preferences, Global Risk/Systemic and the public ratings/CDS hub. Unsupported local-only views remain explicit rather than guessed; manual source inspection is available. Pro Brief shares its native candidate query, which can span 72h, while the brief separately applies 48h and display-count limits; it is not an exact copy of visible cards. Guided standalone Futures opens baseline assumptions and clears an older comparison partner; finance and forecast years remain separate. Camera focus/world/restore actions are user-triggered on the existing Outlook, Politics and Monetary 2D maps, verified against resulting camera state and fenced against account/replay/newer interaction. Country reference points are not incident locations; these camera actions do not change source filters or scores. Restore is refused after a newer map interaction.

Add data from across Watchtower

Open **Pro Brief** → **Add data**. The library now has four clear choices:

- **All Watchtower:** search retained source records across the app, alongside matching source definitions, registered points and current-source query shortcuts.
- **Datasets:** browse every reviewed dataset by domain or routed workspace. Open **Browse data / fields** to inspect source views, records, values and histories.
- **Data points:** find the registered Watchtower metrics and explore their fields.
- **My data:** search or browse your accessible watches, inbox, briefing history, owned cases, saved portfolio, event workspaces, periodic-report metadata and saved data snapshots. Private content stays out of the global public index and cache.

Search results are paginated. **More matching records** continues the record search; **More sources / points** continues the catalogue. Domains cover markets, politics, conflict, infrastructure, weather, health, mobility and Watchtower intelligence. From a workspace toolbar, **Add data to Pro Brief** opens its applied source when an adapter is available, or the source library filtered to its navigation mapping. Unapplied form edits are not treated as an applied source selection.

Add a whole view, one record or one field

1. Choose **Browse data / fields** on a source.
2. Open an object or collection, or use **Find** to search nested fields and values in the returned response. **Source views, filters and history** exposes the source's own supported parameters without requiring a JSON expression.

3. Use **Preview / add** on the field or record you want. Check the value and its source context, then **Add this field / record**. **Preview / add this view** keeps a whole source selection as a card.

Source-provided record identities are retained through array reordering. If an ID is missing or becomes ambiguous, a card reports that condition instead of switching to another row. Parent units, scale, period, definitions and qualifications travel with selected fields. Zero, false and null remain distinct. A parent currency is not automatically assigned to every numeric field.

Some arrays have no reliable record identity. For those, **Add dated snapshot** saves the exact preview under your account. The source fingerprint is checked before saving. A saved snapshot is labelled with its save/source dates and does not become a live observation. Find or delete it under **My data** → **My saved data snapshots**. Private source permissions are rechecked when reading a snapshot; access loss or removal of its private source can make the card unavailable. Snapshot storage is bounded to 100 items, 64 KiB/item and 5 MiB/account. Account deletion removes these records.

An unavailable field can be added as a clearly labelled availability card. No zero or substitute value is manufactured. Source filters and permissions still apply.

Search references and source histories

Add this search as a card keeps a cross-Watchtower query on your board. An individual indexed hit can also be added as an exact retained reference. Its observation/publication, source-snapshot and index times remain separate. Indexed excerpts are not certified current ratings or live quotations. **Open live source** lets you inspect the current source response and select a field there.

Search now combines the retained canonical corpus, complete public Commodity Atlas tables and retained archive revisions. The canonical index has its own two-million-entry capacity; that does not cap the separate Atlas and archive readers. The library displays current coverage, limits and gaps. Every source remains browsable independently of index coverage. Native source histories and pages can extend beyond the index: **Next source-data page** uses the source cursor/offset/snapshot, while **More fields / records** pages through the field browser. These two kinds of pagination are independent.

Bulk infrastructure downloads use their bounded data-source representation in the brief. Binary playback/tiles and administrative or credential operations are not converted into data values. Unconnected/licensed sources retain their normal access requirements; this feature does not activate a vendor entitlement or force a source refresh. Search queries do not run paid AI or generate/purchase reports.

Layouts and privacy

Drag, resize, Undo and the simple board editor remain available. Version3 bindings read version1/2 layouts without rewriting stored settings. Explicit edits save the new schema under the same verified-owner key; account Layout sync uses the shared validator. Older clients refuse the unsupported format rather than silently losing record identities. No guest/other-owner settings are imported automatically.

Private source reads use their native permissions and expected-owner checks. The personal tab searches bounded current collections and eligible case/brief content; unavailable collections are disclosed. Credentials, billing controls and server operations are not research datasets. Account changes, replay and revoked access cancel pending results. Layout definitions contain references rather than snapshot payloads or credentials.

Replace one value with Advanced Watchtower data

In **Pro Brief**, click a displayed value or its ↔ **Replace** button. The picker shows **Replace only this value** and names the original value. Choose a data point, record, field, dataset view or saved search, preview it, then select **Replace this value**. Other values in the same card, its position and its size stay the same. Links, source controls, text selection and drag handles keep their existing actions; use the ↔ button beside linked text.

The replacement has its own label, units, source dates and source details, and is marked **Personal replacement**. It changes your brief's presentation, not the underlying model, source observations, alerts or Advanced workspace calculations. Use **Replace again**, **Restore original**, or the board's **Undo**. Cancel/Close keeps the existing value. Use a card's **Edit** control when you want to change the whole card rather than one value.

Find data from Advanced workspaces

Add data → **Advanced workspaces** lists the available workspace names with their associated datasets and registered points. Choose **Browse this workspace data**. The source library uses its current reviewed dataset and registered-point catalogues; workspace associations are built from current module references, documented source links and reviewed mappings. Personal collections retain their native permissions.

The normal **All Watchtower**, **Datasets**, **Data points** and **My data** choices remain available. Browse source records and individual fields, source views, filters and native history. In Advanced, registered data-point cards now have **Add to Pro Brief**, which opens that exact point for preview and field selection. Workspace toolbars provide **Add data to Pro Brief** for applied selections or the workspace's mapped source library.

Available source measurements, text, booleans, missing values, records and nested collections can be selected. Source-native or locally derived presentation values must retain their actual definitions; a workspace association does not turn a client-side calculation into a new source measurement. Binary media, account/ credential operations and unconnected licensed feeds are not ordinary data points.

Stable placement and saved layouts

Value replacements are attached to the original field or record identity, not the next row number. If an original record disappears or its identity is ambiguous, its saved replacement is shown separately in that card and is not reassigned to another row. Anonymous records are tied to their source snapshot. Replacement source bindings retain their own existing stable-ID/fingerprint checks.

Changes survive reload, export/import and explicit account **Layout** sync. The version4layout reads existing version1/2/3 boards under the same account key and does not rewrite them just by opening the app. Older clients reject unsupported formats. Limits are 32replaced values/card, 64/board and the existing 100KB layout bound. Existing 24card and size limits remain. Account changes, replay, stale edits and late requests cannot apply a choice to a different value.

Global record search remains a bounded retained index. Source catalogue and native histories are independently browsable. Source dates, units, missing states and licensing requirements remain visible. Dated snapshots remain explicitly dated.

Put a native Advanced item in Pro Brief

You can add the price, country or data item you are already looking at, directly from Advanced. No MCP catalogue browsing or connection setup is needed for this workflow. Sign in with your normal Advanced/Pro access.

Prices and market items

Click an instrument or its price to open its native chart. Choose **Put price in Pro Brief**, check the instrument shown, then **Put in Pro Brief**. The action adds the exact selection and leaves you in Advanced; **View Pro Brief** opens your board. Repeated additions of the same tracking selection do not create duplicate cards.

Native market rows can also be right-clicked, or selected with **Pick item for Pro Brief**. Prices use exact provider symbols and preserve quote currencies/units. Crypto rows retain their native token ID when available. ECB references preserve the chosen currency pair and reference-fixing calculation; they are not silently switched to market quotes. Source-backed sovereign yield rows retain their native record identity. Ambiguous foreign listings are not guessed.

Price tracking refreshes about once a minute while Pro Brief is open and visible; other tracking selections refresh on the normal five-minute cycle. Source caches, delays, market hours and missing timestamps still apply. A retrieval timestamp or company-profile update is not a quote observation time. Continuous futures can roll.

Countries and country statistics

Select a country in the native Country Research or Geopolitical Outlook view, then use **Put [country] in Pro Brief**. The country-watch card retains its exact ISO identity and shows separately labelled risk-model and annual profile measures. Annual indicators can refer to different years; unknown risk is not a safe score.

For one country statistic, right-click its native value/row, or turn on **Pick item for Pro Brief** and click it. The country and exact indicator are retained. **Latest** follows the newest reported year; an explicitly selected reporting year stays fixed. Missing observations remain missing.

Other displayed data

Right-click a visible data cell/card, or use **Pick item for Pro Brief** on its workspace toolbar and click the item. Escape or the same toolbar button cancels selection mode. A supported native source selection becomes a tracking card. Other eligible public-workspace items offer **Save displayed item to Pro Brief**: an explicitly dated copy of the selected display, not a live or independently revalidated measurement. Review the displayed excerpt before saving it.

Displayed references retain bounded text and safe source links in your existing account-private snapshot collection. They do not capture hidden content, input fields or credentials. Private/operational workspaces use their existing dedicated permission-aware data actions rather than generic display capture. Source rights and qualifications still apply. Saved excerpts are limited to 4,000 characters; existing 100 snapshot/64 KiB item/5 MiB account bounds remain. Remove snapshots through **Pro Brief** → **Add data** → **My data** → **My saved data snapshots**.

Saving and access

Adding from Advanced appends to the verified account's saved brief without replacing its current cards. A changed layout, full board, storage failure, account switch, replay or invalid source identity prevents an unintended addition. Existing 24 card limits remain. The version 5 format reads earlier layouts and retains individual-value replacements. Explicit account Layout sync carries the new tracking definitions; the existing preference-size limits still apply.

The manual Add data library and individual-value replacement tools remain available. Tracking follows source identities; dated displayed references remain frozen.

Native tracking, alerts and source reliability

Advanced workspaces now use a consistent action row: **Explore**, **Put in Pro Brief**, **Set alert**, **Source details**, and **More**. Explore opens the native full-screen view. More retains the existing AI, help, copy-link, pin and specialist actions. Selecting an item clearly distinguishes **Track source updates** from **Save dated reference**.

Select the actual item

Use a price/chart or country action, right-click a data item, or choose **Put in Pro Brief** on the workspace toolbar and click the item. Native companies use an exact SEC identity where connected; prices/funds keep provider listing identity. News records are captured from the exact returned source record with its original publication/provenance. Linked event selections follow the exact public record; private event notes are excluded. Public map popup contents and other eligible visible items can be saved as clearly dated display references.

Private case/report/portfolio controls, credentials, raw canvas pixels and third-party iframe contents keep their dedicated native handling. A dated display copy is not a newly verified event, live price or issued forecast. Missing source records remain unavailable instead of switching to another row.

Slow and unavailable sources

Market lookup now uses bounded discovery, quote and reference-enrichment stages. Partial results say which parts are incomplete. Missing quotes or country details are not invented. **Retry lookup** keeps the query; a same-query retry retains earlier results with their original dates. **Cancel lookup** cancels the UI request without replacing the selected instrument. A different query does not relabel old results as new matches. Unknown quote observation times remain unknown.

An earlier validated lookup can be retained during a source failure for a bounded period and is explicitly labelled. These controls improve failure handling; they do not make provider data real-time or guarantee upstream availability.

Alerts from tracked items

Choose **Set alert** on an item or in a Pro Brief card's menu. You can create:

- A threshold-crossing watch for a numeric source field with declared units.
- A material-change watch, in absolute units or percent from the initial/last delivered qualified baseline.
- A source-staleness watch, confirming a source marked stale or unavailable for the chosen interval.
- A saved news search for a subject, company or phrase.

Preview the source, choose the rule, cooldown and daily budget, then explicitly save/enable it. Watches live in **My Watchtower** → **Watchlists**; notifications use the existing **Inbox**. No email, SMS or third-party push is automatically created. The first healthy numeric value establishes a baseline; it is not an initial alert. A gap in data re-establishes that baseline on recovery. A unit/definition change requires review. Null and unavailable values never become zero, and percent change from a zero baseline is undefined.

Tracked-data checks run approximately every five minutes within bounded source capacity. Deferred checks are not classified as source outages. Cooldown, deduplication, per-watch limits and the existing shared10deliveries/day account budget apply. Source observation time is preserved when available; otherwise alerts explicitly compare checked source snapshots. Annual series can move to a new reporting year. These are research notifications, not trading instructions. Tracked-data watches deliver inbox alerts; daily narrative briefings use the existing news/evidence watches.

Saved data and recovery

Export your browser layout, or explicitly sync the Layout scope, to retain browser-only choices. Server saved-research backups cover saved snapshots and the daily workspace (including synced preferences); they cannot capture a browser layout that was never exported or synced.

The operator recovery procedure uses authenticated encryption, current owner and account-deletion checks, an empty restore target and an application maintenance window. Restored watches and automatic briefings start disabled for review. Pilot consent and measurements are not restored. Credentials, sessions, billing, financial holdings, case/share permissions, source collectors and forecast ledgers are outside that generic research restore. Use their dedicated recovery procedures.

Five-person usability pilot

The self-guided pilot uses the existing invitation and explicit-consent workflow under **My Watchtower** → **Research pilot**. An administrator can create individual invitations there. The organizer distributes them to five real testers. Testers report outcomes for tracking a price/country, adding a statistic, explaining a snapshot, finding a source and setting an alert.

Task Start/Submit records elapsed session time and explicitly submitted feedback, not browsing recordings or audited active-task time. Results are self-reports; automated engineering checks remain separate. Until participants submit results, the pilot is ready to run, not completed and not evidence of usability success.

Watchtower five-person workflow pilot

Organizer: arrange five real testers and send each their existing Watchtower pilot invitation. In the signed-in administrator account, open **My Watchtower** → **Research pilot** → **Create an invitation**. Existing access/entitlement rules apply. Invitations are single-use and expire; do not publish invitation tokens publicly.

Tester: open your invitation, sign in and read the optional participation consent. The task panel appears in Research pilot after joining. You can withdraw there to erase pilot counters and submitted feedback. Please use non-confidential examples; no real trading or payment action is needed.

Try these tasks before reading help

1. **Track a price.** Find a listed instrument you recognize in Advanced and put its price in your Pro Brief. Explain which instrument/listing you selected.
2. **Track a country.** Select a nation you follow and add it from the native view.

3. **Add a statistic.** Add one country statistic. Identify its unit and year.
4. **Explain a snapshot.** Compare a tracking card with a dated displayed reference. Which refreshes? What does the date mean?
5. **Find a source.** Find the original source and its observation/publication date. Explain what is unknown or stale, if anything.
6. **Set an alert.** Create a useful threshold/change/staleness/news watch. Find where notifications will appear. You do not need to wait for a real market crossing or deliberately manipulate a source to complete this task.

Use **Start task** and **Submit task result** in the task panel. Mark completed independently, completed with help, blocked or skipped; choose easy/mixed/hard and write the moment you hesitated. Elapsed time includes interruptions, so it is not a precise active-task-speed measurement. Do not guess success when a task was blocked. A saved watch starts with a baseline; no initial notification is expected.

Organizer review

Review coded participant task outcomes in the existing pilot administration view. Record the observed problem, affected task, frequency, severity and proposed fix. Keep raw feedback private; publish only accurate aggregate findings without personal/confidential details. Separate user observations from automated QA.

The target is five participants with submitted task feedback. There are no assumed completion rates or results. After submissions arrive, prioritize repeated blockers, fix them, and ask affected testers to retry the relevant task. A prepared task panel is not a conducted pilot.

Suggested invitation message

“Please help test Watchtower's daily research workflow. Try the six short tasks in the pilot guide, record where you get stuck, and submit your results in My Watchtower → Research pilot. Participation and feedback are optional. Use public, non-confidential examples. Your private watch/portfolio content is not part of the pilot report. Here is your individual invitation: [YOUR PRIVATE INVITATION LINK].”

My Watchtower: your daily research routine

Follow what matters, read your briefing and check your private inbox. Your saved setup belongs to your signed-in account.

Open: My Watchtower in Monitor (Simple) or Investigate (Advanced). Updated 24 October 2026.

Find your way around

- **Overview:** your starting point and latest open briefing.

- **Following:** saved topics, places, news searches and value alerts.
- **Inbox:** notifications you enabled.
- **History:** saved briefing editions.
- **More:** What changed, Briefing schedule, Source coverage, Research pilot and Research tools.
- **Help & tips:** opens this task-based help without losing your form.

Start with one thing to follow

1. Open Following and choose Add a watch. A watch is a saved set of interests, not a trade or an order.
2. Name it, then enter a topic or choose a place or subject area. Start broad: Energy is a useful first area; add a country only if you want to narrow it.
3. Choose whether matching updates should appear in your inbox. Alerts are off for a new topic watch until you choose them.
4. Read the review and choose Save watch. Then use Overview to create your first briefing.

How matching works

A record must match every group you use: places AND areas AND subjects. Choices within one group are alternatives. Canada plus Energy means Canadian-context energy records; adding a company narrows it again.

Topics and company names are source-text or entity mentions. A country mention is context, not proof of an event's location, your exposure or a causal link. Leave optional filters empty for broader coverage.

Following also lists saved news searches and value/source alerts. Edit opens the appropriate native editor so their exact filters, fields and units stay attached. Removing a watch leaves saved briefing editions in History.

Alerts: what arrives and when

1. For matching news and evidence, turn on Inbox alerts in the topic-watch wizard.
2. For a price or numeric value, find the instrument or data in Advanced, select it and choose Set alert. Pick a threshold, amount of change or source-staleness rule and save explicitly.
3. Read new notifications in Inbox. Mark read keeps an item; Dismiss removes it from the active list. Neither action stops its watch.

The first healthy check establishes a starting point. A saved alert does not send an immediate historical notification. Source availability, field definitions, cooldowns and delivery limits affect when an alert arrives.

Value/source watches are checked approximately every five minutes subject to source capacity. Standard watches use the existing server evaluation cycle. Missing or stale values are not zero; incompatible definitions pause comparison. There is a shared limit of 10 deliveries per account per day.

Notifications appear inside Watchtower. These controls do not subscribe you to email, SMS or phone push notifications.

Briefing, History and Pro Brief

Overview creates a source-linked briefing from your topic/place watches or saved news searches. You can create up to four manual editions per day. Value-only alerts deliver to Inbox; add a topic watch to create a narrative briefing.

History keeps up to 30 saved editions. An edition is a dated record: creating a new one does not rewrite the old one. Open an edition to read, download PDF/printable HTML or inspect its sources.

Pro Brief is a separate customizable board of cards. My Watchtower is your saved following setup, generated briefings and alert inbox. Adding a Pro Brief card does not automatically create a watch or enable an alert.

Choose your daily briefing time

1. Open More → Briefing schedule.
2. Use your device's time zone or choose a named time zone, then select a local hour.
3. Choose whether to create a daily briefing and select Save schedule.

The server uses the first healthy retained source snapshot after that local hour. It can run while your browser is closed; it is not a guarantee of delivery at an exact minute. The named time zone handles daylight-saving changes.

This schedule creates a saved briefing in My Watchtower, not an email. Your current saved schedule is shown before editing; changes apply only when you save.

Understand the evidence

Open Source details on an item to see a readable summary, why it matched, the original source time and the captured source snapshot. Technical JSON is inside an optional disclosure.

An observation time describes the source observation. A publication time describes publication. A capture or check time describes Watchtower's read. Refreshing does not make old evidence newly observed.

Delayed, unknown and limited coverage are shown explicitly. No matching records does not mean nothing happened. More → Source coverage shows available evidence and gaps. What changed compares retained source content; first appearance is not proof an event just occurred.

If you get stuck

No briefing yet: save a topic/place watch first. If the source snapshot is delayed, keep your setup and try again after a healthy capture. A price-only watch belongs in Inbox.

No alerts yet: check that the watch has alerts on, allow a healthy baseline check, and review its source state, cooldown and daily limit. Lack of an alert is not a safety signal.

Too few matches: clear a country or area filter, or use a broader phrase. Remember that different groups narrow each other.

Unsaved edits: Back keeps your wizard choices. Cancel or leaving a view asks before discarding changes. A save error keeps the draft so you can correct it. If another device changed your setup, refresh and review before saving again.

Need a copy: Following → Import / export copies watch settings. Import adds watches rather than replacing your collection; imported alert settings apply after your explicit confirmation.

Account changes or replay: private content and in-flight edits are cleared. Return to live mode and verify the correct account to continue.

Optional research pilot

More → Research pilot is optional. Join with your individual invitation and consent; joining does not change your subscription. The existing six task reports remain available there.

Administrators can create invitations and export coded feedback. Five real participants and their submitted results are still needed for the human pilot; automated QA is separate.

Limits and account privacy

Up to 20 watches and 30 retained briefing editions. Watch settings, inbox and saved editions are account-private. Optional pilot feedback is separate from ordinary use. Current access, source availability and deletion protections still apply. No paid AI is needed to use this help or create an ordinary watch.

3D Solar System and smooth aurora maps

Open **Space Weather** → **Asteroids** or **Space Weather** → **Aurora**. Use **Full screen** for the largest map; the same controls work inside the full observatory.

Explore the 3D Solar System

- **Solar System** frames the Sun and all eight planets. **Inner planets** brings the near-Earth asteroid sample into view. Outer planets and inner orbits span very different distances; use the presets rather than expecting every body to look equally large in one view.
- Drag to orbit the camera. Shift/right-drag pans; scroll or pinch zooms. Arrow keys rotate, plus/minus zoom, and 0 resets. Touch uses one finger to rotate and two to pan/zoom. Keyboard focus on the canvas shows its focus outline.
- Choose **Focus planet** or click a visible planet to inspect a textured 3D body. Saturn includes a ring model. Close the information card when you want more room.
- Click an asteroid marker or use **Layers** → **Inspect a displayed asteroid** for its native NASA/JPL record. **Focus selected** centers the selected marker when its approximate scene-date position is available.

- **Time & display** chooses a UTC reference date from 2000 through 2049. **Play orbits** advances the illustrative scene by 8 days/second; **Pause orbits** stops it and **Today** returns to the current reference time. Motion is paused by default and stops when the scene is hidden or the account/replay context changes.
- Layers control asteroid paths, approximate markers, labels, planet orbit guides and planet bodies. **Map view** still offers the separate encounter distance/date chart and historical fireball globe. Source tables and exports remain available.

What the 3D positions mean

Planet positions use NASA/JPL SSD's **Table 1 fitted Keplerian elements and rates**, in the mean ecliptic/equinox of J2000, valid 1800–2050. This is a lower-accuracy reference model, not a numerical Horizons ephemeris. The Earth marker uses the **Earth–Moon barycenter**, not an exact Earth geocenter. Source nominal errors are body-dependent; outer-planet distance errors can be hundreds of thousands of kilometres or more.

The scene's UTC reference is converted with a fixed **+69.184 seconds** modern TT/TDB approximation. It is not an exact historical/future leap-second conversion. This approximation and the fitted orbit model are unsuitable for precise encounter timing, spacecraft navigation or occultation work. For high-precision ephemerides, use [NASA/JPL Horizons](#).

Asteroid paths retain the source semimajor axis, eccentricity, inclination, ascending node and argument of perihelion in heliocentric ecliptic J2000. Approximate scene-date markers advance the source mean anomaly using its published mean motion: $M = M_0 + n \times (\text{scene JD} - \text{source epoch JD})$. This is two-body visualization; planetary perturbations, close-encounter dynamics and covariance are not propagated. Markers more than 365.25 days from the source epoch, or with missing/unsupported parameters, are withheld. Their valid nominal paths and original source details can still be read. The bounded map sample is at most 120 asteroids; the native catalogue remains separately searchable and exportable.

Positions and orbit paths share a **linear astronomical-unit scale**. Body sizes are enlarged for visibility, and surface orientation/lighting/stars are illustrative. The 3D scene is **not an impact corridor or collision forecast**. Use the unchanged NASA/JPL close-approach table for source TDB encounter times, geocentric miss distances and three-sigma bounds. MOID, PHA classification and Sentry probabilities retain their distinct source meanings.

Smooth aurora colors

The NOAA OVATION globe now uses a higher-resolution display raster, missing-aware bilinear interpolation and linear texture filtering. This removes block-like color steps while keeping a fixed 0–100% color scale. Interpolation wraps longitude across the date line and does not fill missing source cells or overshoot neighboring values. Rendering is performed in a bounded worker where supported, with an on-demand fallback.

- **Layers** → **Smooth aurora colors (display only)** switches between the smooth rendering and source-cell display.
- **Overlay opacity** changes visibility over the basemap. **Aurora display threshold** hides lower displayed values; it does not increase the published probabilities.
- **North / South / World**, city references, basemap selection, day/night and fullscreen remain available. Higher-quality globe antialiasing and a smoother day/night texture improve visual edges.

- A click still reports the **exact nearest published grid node**, not a newly observed/interpolated probability. **Export displayed aurora grid** exports the unchanged 360×181 source grid, with 255 reserved for missing values.
- Observation time, forecast-valid time and selected historical frame stay separate. Expired current fields are withheld; historical captured frames remain labelled. Smoothing does not add source resolution, a visibility guarantee or a system-failure probability. Clouds, local light pollution and the observer's horizon are not modeled.
- The smoothing switch applies to OVATION. GloTEC and regional geoelectric layers keep their own units, source-cell/support rules and interpretation.

Graphics, accessibility and recovery

The scene renders on demand, caps drawing-buffer size and releases hidden graphics. If WebGL 3D is unavailable, the original orbit chart and source tables remain available. A lost 3D context offers **Retry 3D**. Source failure clears the affected live evidence; reference planet geometry does not imply that asteroid data were successfully fetched. Account/replay changes clear selections and stop animation. No new paid model or provider collection is triggered by the camera controls.

Sources and visual credits

- [NASA/JPL SSD approximate positions, Table 1](#), based on E. M. Standish and J. G. Williams (1992). Coefficients and fitted validity interval are retained; the interface limits scene dates to 2000–2049.
- [NASA/JPL small-body API documentation](#) for the existing orbital catalogue, CAD, Sentry, Scout and historical fireballs.
- [NOAA SWPC OVATION model](#).
- Planet/Sun/ring textures: **Solar System Scope / INOVE**, [source pack](#), [CC BY 4.0](#). The source adjusts colors and artistically fills some unmapped terrain. These are illustrative textures, not current planetary observations. Images are hosted locally; credit remains visible on the scene and in object details.
- Three.js 0.180.0 and OrbitControls/Line2: MIT license. The pinned bundle and [license](#) are included in the release.

The [Space Weather methods](#) describe the full measurement, forecast, quality, temporal and coverage rules.

Global Markets & Data Search

Open **Advanced / Investigate** → **Global Markets**. The new search combines global instrument discovery with the reviewed Watchtower data catalogue, published data points and retained indexed source records.

Search beyond the movers on screen

1. Enter a company, exact listing symbol, indicator, country or topic.

2. Choose an instrument class or data-domain/source filter if needed.
3. Select **Search globally**. Typing alone does not send a provider search.
4. Switch between **Instruments**, **Data points**, **Source records**, and **Datasets & fields**, or keep **All results** to see each section.

The worldwide-equities and other market snapshot filters now have a **Search globally** action; pressing Enter hands the same query to this search. Their local filter still describes only the rows currently loaded, while the global action queries the broader discovery services.

Use **Expand search** for a full-screen research workspace. Your query, result selection and source inspector remain part of the same search.

Try Apple, RY.T0, 7203.T, 0700.HK, VOD.L, SAP.DE, RELIANCE.NS, SPY, EURUSD=X, BTC-USD, GC=F, inflation, or US deficits 2026. Provider availability and source matches vary; examples are not guaranteed live quotes.

Instruments and listings

Public Yahoo Finance discovery covers supported equities, ETFs, funds, indices, currencies, futures and crypto; TradingView adds recognized equity venue candidates. Queries are sent to those providers without Watchtower cookies or account credentials. The server requests up to 30 candidates from each provider, includes an exact-symbol fallback when applicable, and bounds the retained discovery at 90 candidates.

More instruments pages eight at a time through one five-minute discovery snapshot. Quote reads are separately bounded and source-dated; a page can have missing quotes or partial provider coverage. An expired or mismatched snapshot requires a new search. This is global discovery, not a complete exchange security master or a guarantee of real-time market data.

Check the exact symbol, asset class, exchange, currency and observation time. Cross listings are separate instruments. Company-country reference and listing country are different; unsupported TradingView venue conversions are excluded rather than assumed to be a US listing. GBP and GBp, index points, futures units and FX direction remain distinct. A missing observation time stays unknown.

Open **Charts** for the native instrument view. Its existing actions can track that exact supported selection in Pro Brief or configure an explicit alert.

Watchtower data and evidence

- **Data points** searches all definitions returned by the native public point registry: IDs, labels, descriptions, units, source names and workspace associations. Inspect a result to read its current source-qualified value and underlying fields.
- **Source records** searches the existing permission-aware retained index. Records include indexed fields, articles, events and source excerpts, with provenance. Old indexed prices or rating references are not automatically current quotes or certified current ratings. More records uses native pagination; if the index generation changes, rerun the search rather than mixing pages silently.

- **Datasets & fields** searches every reviewed source definition available through the catalogue, including catalogue-only sources with no indexed matching records. Open a dataset, set its source-native filters, then browse or search the fields and values in the returned response.

The **Search coverage & source dates** panel shows current source/point counts, index materialization time and indexed/catalogue-only/bounded coverage. The current retained index is bounded at one million records; native histories and source pagination can extend beyond it. This does not mean all information in the world is indexed. Private account data, unreviewed feeds and licensed-only provider data are not admitted to this public evidence search.

Inspect fields without leaving Global Markets

1. Choose **Browse source & fields** or **Inspect data**.
2. Review source state, values, units and distinct observation/publication/snapshot/ retrieval clocks. Definitions and original fields are in an optional disclosure.
3. For a dataset, expand **Source-native filters & pagination**. Use the documented read-only view, query, country, year or returned identifier required by that source. **Apply source filters** updates the preview.
4. Select **Browse / search source fields**. Search a field name or value, open nested objects/arrays, or select **Preview this field / record**.
5. The preview keeps stable record identity, original unit, reporting period and status when supplied. Anonymous array values require an explicitly dated reference.

More fields pages the selected response, not the source's entire history. Source-native offset/cursor/snapshot controls are independent and remain visible. Field traversal and source responses are bounded; unavailable and missing data remain explicit, not zero. Some definitions require an exact ID before they can return data. A bulk-only route may not be eligible as a Pro Brief feed.

Save and continue researching

Put in Pro Brief uses the existing owner-bound saved board and keeps Global Markets open. A stable field tracks that source identity; a retained indexed record is a dated reference. Anonymous selections use the native explicit snapshot path. No watch or alert is enabled automatically. Existing card limits and layout/snapshot validation still apply.

Delays, cancellation and account changes

Results arrive independently: a slow market provider does not block searchable Watchtower evidence. Retry the failed section, refine the query, or use Cancel. Source dates on retained results stay unchanged. Instrument discovery is bounded to 7 seconds, quote enrichment to 6 seconds and optional country enrichment to 1.5 seconds; upstream availability still varies. Existing rate/capacity controls apply.

Search state and inspectors clear on account/replay transitions, and late responses are fenced. Each private facade request uses the current verified owner. This search does not require paid AI and does not rebuild the index or force source collectors.

Verified Credit Watch — analyst pilot

Open **Advanced / Investigate** → **Credit Watch**. Choose a reporting group, inspect its financial evidence, review source-supported operating relationships, and prepare an explicit sensitivity or a source-linked review note.

Coverage and identity

The first release supports twenty U.S.-listed reporting groups:CHTR,LUMN,NXST,CCL,NCLH,AAL,CZR,MGM,HCA,THC,CYH,DVA,OGN,NRG,VST,BALL,OI,GT,DXC,STX. These are pilot research selections, not an assertion of current agency rating category. Reporting groups, borrowers, subsidiaries and guarantors are separate legal entities. SEC CIK identity is checked against Company Facts and submissions. The exact ticker is checked against the submissions record. LEIs are not guessed from similar names. If Company Facts labels a different entity, the profile uses exact-CIK inline filing facts and shows the identity reconciliation issue.

Public evidence is read through ordinary SEC requests, with a six-hour source cache, coalesced issuer reads and bounded parsing. First reads can take longer. Refresh reads the available source selection; it does not force the SEC to publish new data. Source failures may retain a clearly dated prior profile. Only two issuer loads run concurrently. Upstream source dates, filing dates, accounting periods, retrieval times and analyst review times retain different meanings.

Financial evidence

The financial table exposes complete values, original periods, source state, definitions and evidence actions. **Evidence & actions** opens the original filing or Company Facts source, complete calculation components and analyst review form. **Put field in Pro Brief** uses the exact source field identity. **Set source alert** opens the existing native alert editor; save/enable is an explicit action.

Numeric inline facts require the exact reporting CIK, supported USD units and transformations, and dimension-free reporting context. Unsupported, conflicting, missing or stale facts remain qualified. Filing-level reads can supply a newer reporting period than a lagging Company Facts selection. SEC tag names are case-sensitive, including InterestExpenseNonoperating.

Debt aggregates are not added to their own current/noncurrent components. Missing short-term borrowing or lease components do not become zero. Reported long-term debt is available as a separately labelled basis when total borrowing scope is incomplete. Gross interest expense, signed net interest and cash interest paid are separate measures. Facility amounts retain their source definition and may have draw conditions or restrictions.

Trailing flows use a reported annual period, or comparable latestYTD +priorfiscalyear –priorYTD, with the same reporting CIK, currency, concept and compatible periods. Individual component filings and restatement vintages remain available. Operating income plus reported D&A/depletion/accretion is an **unadjusted accounting proxy**, not issuer-adjusted or covenant EBITDA. No quarter-times-four annualization is used. No rating, default probability or synthetic CDS spread is produced by this workspace.

Exposures and review

1. Open **Issuers** → **Filings & source passages**.
2. Search a literal topic, facility, entity or commodity.
3. Open the original filing and inspect the context.
4. Choose **Propose relationship**. Enter a target name appearing in the exact quotation, relationship type, scope, uncertainty and review-expiry date.
5. Save the proposal, then use **Review relationship** for a separate analyst decision.

The server resolves the source passage and checks the quotation. That does not automatically verify the analyst's relationship interpretation. **Proposed, analyst-reviewed, disputed, expired** and **source-review-due** are distinct. Optional country context is analyst-selected, not inferred facility geography. Reviewed relationships expire at the chosen review date, within one year. A new source selection can require renewed source review. There are at most 300 saved relationships per account. No undisclosed suppliers, operating shares or asset ownership are invented from geographic proximity or similar names.

Source search returns up to 100 matching excerpts per selection, each at most 2000 characters. Narrow the query or open the original filing for complete context. Document fingerprints, filing dates and parsed section positions are retained. Custom numeric concepts remain source fields until their meaning is reviewed.

Attention and native monitoring

Attention combines the selected issuer's exact-CIK filing metadata, explicit financial evidence gaps, linked native inbox items, and context matching against analyst-reviewed exposure relationships. The external pool uses bounded retained reports/observations and ordinary outage/hazard reads. Each source has its own clock, lifecycle and coverage. At most 200 exposure-context matches are presented. Text/country associations are review candidates, not confirmed issuer impacts. Planned, resolved, stale or corrected source records remain identified.

Record review supports relevant, already-known, irrelevant, wrong-issuer, needs-corroboration and resolved dispositions. A changed fingerprint returns the item to unreviewed status while preserving the prior review reference.

Set exposure watch opens the native subject-news editor. **Set source alert** opens native threshold/material-change/staleness monitoring for the selected field. Saved watches use **My Watchtower** → **Inbox** and its existing source baselines, cooldowns, deduplication and access gates. The existing maximum 20 watches/account and shared 10 deliveries/day budget apply. Review the remaining capacity before choosing monitors. Selecting a company or creating an exposure does not enable notifications by itself. First healthy observations establish a baseline.

Transparent scenarios

The scenario is a one-year analyst sensitivity with explicit assumptions. Choose the debt basis and review the source baseline. Missing inputs can be supplied only as labelled analyst overrides with a definition, explanation and compatible period. Stock overrides use the selected reporting date; flow overrides require a stated annual/trailing period. All amounts are USD; no silent currency conversion occurs.

- $\text{EBITDA}' = \text{baseline EBITDA} \times (1 + \text{assumed change\%}) - \text{extraoperating costs} + \text{mitigation}$.

- Incremental annual interest = assumed unhedged principal × net applicable rate change in basis points / 10,000.
The rate assumption should reflect hedges, floors and caps.
- Debt' = selected debt basis + new borrowing – principal repayment.
- Cash at horizon = baseline cash + baseline trailing free cash flow + EBITDA change × assumed cash conversion
– incremental interest – extra capex + borrowing – repayment.

Baseline free cash flow already contains its original interest cash effects; only incremental interest is subtracted again. A zero assumption must be entered explicitly. Blank repayment withholds repayment-dependent results. Missing inputs and nonpositive ratio denominators produce unavailable/not-meaningful results. This is not a calibrated forecast, rating migration estimate, loss estimate or covenant compliance conclusion.

Preview sensitivity exposes inputs/formulas; **Save this sensitivity** retains a frozen baseline, assumptions, formula version and fingerprint. Up to 100 scenarios can be retained. Old scenarios remain dated research and do not silently refresh.

Review notes, sharing and export

Review Notes captures the question, assessment, unresolved issues, contradictory evidence and optional saved sensitivity. **Save review and dated edition** writes the working document through native versioned War Room cases and stores an immutable credit edition. **Open native case / sharing** uses existing recipient-specific viewer/editor grants, expiry and revocation. This pilot is account-private with explicit case sharing; it is not a team-owned monitoring queue.

Export the dated Markdown review or complete JSON edition. Source citations, original periods, analyst assumptions and fingerprints accompany the export. Twenty credit editions are retained; export/remove an older edition before exceeding the bound. Native case capacity is 30/account. Scenario/edition deletion does not silently replace another saved item. Account deletion removes the new private state through the existing deletion barriers.

Optional credit-pilot measurements

Opt in through **Pilot measurements**. Explicitly start an issuer-review task under either **Existing workflow** or **Credit Watch**, then record completed, helped, blocked or skipped. Only independently completed tasks contribute to the displayed median. Record whether reviewed items are additional to the existing workflow. Unreviewed items are not negative outcomes.

Measurements and exports belong to the signed-in account. Withdraw to erase the credit-pilot measurements. They are self-reported workflow evidence, distinct from generic product usability tests and prospective predictive validation. Engineering qualification is not a completed human analyst study or proof of lead-time advantage. The activity view shows the latest 100 entries from at most 2000 retained account-private credit activity entries.

Access, troubleshooting and integration

Professional Advanced access and a verified account are required. Account change, logout, replay or access loss clears old private selections and rejects late writes. Native cases and alerts retain their own access checks. Public evidence and source metadata are separate from private notes, relationships, scenarios and feedback.

If a save reports a revision conflict, reload the account state and compare before saving again. If the source snapshot changes, inspect the new evidence. Missing figures may reflect a scope, tag, currency, period, freshness or provider gap. Use the original source and visible gap reason; do not assume a missing value is 0.

Reviewed public source: `/agent/api/credit-issuer-evidence` (issuer, catalog, sections, facts). It accepts only supported pilot symbols and bounded source selectors. MCP/catalogue access includes this public evidence, not private Credit Watch state. Public-source availability does not grant redistribution rights to third-party/licensed material. Attribution and original filing links are retained.

CBDC & digital-money tracking

Open **Advanced / Investigate** → **CBDC & Digital Money**. The tracking dashboard brings together reviewed project evidence, BIS survey vintages, dated milestones, reported pilot measurements, source changes and global private-token captures. Use **Workspace view** to choose a dataset, **Expand data** for a wider reading area, and **Full screen** for the complete map workspace. Country, source, project and date filters, Refresh and Export selection are available under **Layers** → **All controls**. **Data** shows or hides the reading panel; its Workspace view selector and Expand data button stay directly accessible.

Start with the question you want to answer

- **What is a central bank actually doing?** Choose Retail CBDCs, Wholesale money, Cross-border or a country dossier. Inspect the project and its primary source.
- **How has CBDC research changed globally?** Choose **BIS survey trends**. The included survey years are 2020–2024, published 2021–2025. Each publication's own cohort, denominator and reported percentage are retained.
- **What happened, and when?** Choose **Milestones & targets**. An observed launch, completed test, report publication, framework-effective date and announced future target are different record types.
- **How much activity is actually reported?** Choose **Reported scale & usage**. Pilot institutions, use cases, transactions and test values are not active-user adoption statistics. Units, period precision and approximation flags are shown.
- **What needs checking?** Choose **What changed** or **BIS updates**. A changed webpage or a discovered link does not automatically change a project stage.
- **What has changed in the private-token market?** Compare **Stablecoin market**, **Market history** and **Token history**. Search a token name or symbol. Historical observations begin with actual captures; the application does not invent a backfill.

BIS survey trends

Survey year	Responding central banks	Reported engagement in CBDC work	Published
2020	65	86%	27 January 2021
2021	81	90%	6 May 2022
2022	86	93%	10 July 2023
2023	86	94%	14 June 2024
2024	93	91%	22 August 2025

The 2024 report states 85 respondents were exploring retail CBDC, wholesale CBDC, or both. These are **survey engagement** measures, not counts of launched currencies or shares of the world population using one. Cohorts and questionnaires vary; the series preserves each report's original vintage rather than treating it as a constant panel. A percentage decline does not necessarily mean fewer central banks are doing work. This is the latest **included** survey vintage, not a claim that every subsequent BIS publication has been ingested.

Original reports: [2020](#), [2021](#), [2022](#), [2023](#), [2024](#). Source: Bank for International Settlements. Original BIS material is freely available from those links. Watchtower is not endorsed by or affiliated with BIS.

Programme status and liability type

Retail CBDCs are central-bank liabilities intended for households or businesses. Wholesale central-bank settlement, commercial-bank deposit tokens, private stablecoins and cross-border prototypes are distinct. A payment-system link or prototype must not be presented as a launched retail CBDC.

Examples of the distinctions retained in this edition:

- **Pontes:** the ECB reports an initial 21 September 2026 launch for eligible wholesale participants, linking market DLT platforms and TARGET Services. Final settlement is in T2. This is separate from the proposed retail digital euro.
- **Appia:** the Eurosystem's March 2026 roadmap targets a blueprint by 2028. A future research deliverable is not an issuance date.
- **Helvetia:** the SNB announced continued wholesale-CBDC piloting until at least mid-2027. It explicitly says this is not a commitment to permanent issuance. Historical BIS phases and the newer SNB pilot are separate records.
- **Aurum Phase 2:** privacy-enhancing digital-cash research, published 13 October 2026. The exploratory prototype does not establish an issued Hong Kong retail CBDC.
- **Mandala:** programmable-compliance research; project partners are not automatically CBDC issuers. Rosalind and Mariana remain completed experiments.
- **Digital Tenge:** the recovered official English archive documents the 2023 first implementation phase; that archive alone does not establish current 2026 usage.
- **IMF–FSB/FSB:** international policy recommendations and implementation reviews are not domestic legislation, currency launches or licences for individual issuers.

Reported measurements

Agorá's source describes controlled real-value testing in **July 2026**. It reports 28 combined financial institutions and central banks, 17 scenarios, 30 transactions, approximately CHF 800,000 equivalent and approximately 80 seconds average initiation- to-settlement time under the stated prototype conditions. These are not production throughput, 28 central banks, recurring payment volume or a service-level guarantee. The aggregate CHF equivalent must not be added to its underlying currency subtotals.

RBI's 1 October 2026 FAQ reports 19 banks offering retail-CBDC wallets, 16 wholesale pilot participants and four wholesale use cases. These are participant/design counts, not wallet users, balances or nationwide penetration.

Each measurement includes its project/source, original unit, reporting period, precision, approximation flag, qualification and source link. A month-level event remains a month-level event; no arbitrary day is inserted.

What changed, discovery and review history

The existing 15-minute worker checks which sources are due. Primary pages and reviewed PDF byte digests are checked daily. Main-content extraction removes navigation and other page furniture before hashing. An extractor-version change is labelled **parser revision**, not a source or policy event. Available old-parser sources get one version-driven recheck; denied/paused sources retain their pauses.

What changed preserves earlier detections and adds source titles, publisher project labels, affected projects and lost-anchor information where available. Detection time is when the collector noticed a difference, not its legal-effective date. Changed evidence withholds the current rating until reviewed.

BIS updates discovers relevant links in the latest page of the BIS project listing. It is bounded listing coverage, not every BIS publication. Links are labelled discovered/not reviewed; no project stage is inferred from a headline.

Review history distinguishes retained and current editorial editions. The capture of an earlier installed record is not a reconstructed historical event. Automated collection never renews an editorial review date or promotes a stage.

Ratings, country mapping and missing evidence

The existing maturity bands remain M1 research 20, M2 design/prototype 40, M3 controlled pilot 60, M4 limited operation 80 and M5 operational product 100. They are ordinal deployment bands, not readiness percentages, probabilities, privacy/safety evaluations, credit ratings or investment recommendations.

Country ratings use eligible explicitly mapped projects within one money track. Research-only prototypes and roadmaps are excluded from national deployment ratings. Monetary-union projects count once globally. A stablecoin's peg currency, a research partner or an observer does not establish domestic adoption.

Editorial review expires after 90 days; source availability after seven days. Missing, expired, future-dated or changed evidence is qualified explicitly and may withhold a rating/value. The last reviewed number can remain visible in original fields as a dated reference; it must not be relabelled verified/current. Grey or unreported does not mean zero, safe, no-development or evidence of absence.

The original CBDC/cashless-controls analysis remains in its labelled legacy section. Its heuristic and forecasting inputs are separate from this maturity index.

Stablecoin capture history

The existing shared Crypto normalizer and DeFiLlama public catalogue remain the market source. Current rows expire after six hours. The digital-money worker reuses newer shared observations and respects existing provider pauses/backoff.

- Aggregate history retains up to 90 days / 2,160 observations.
- Token history retains up to seven days / 72 observations, up to 500 priced token records per capture. Unpriced/out-of-bound records are disclosed as omitted.
- Timestamps describe source retrieval, not necessarily a trade or issuance time.
- USD valuations, token units and prices remain separate. Native token supplies are never summed across currencies. Economic exposures can overlap between provider rows; aggregate valuations are not national money supply.
- No synthetic past observations, flat-line gap fills, reserve certification or implied redemption guarantee. Fewer than two captures cannot establish a trend.

Filters, export and Pro Brief

Use country, project, source and date filters where applicable. Global survey and market datasets remain global even if a country is selected. Date filters use the view's displayed event, publication, detection or source-capture time basis.

Export selection downloads the complete selected dataset with source and methodology fields. Pagination uses a native snapshotVersion; changed evidence returns HTTP 409 and prevents mixed-snapshot exports.

Open a project → **Put project in Pro Brief** to retain its exact project ID via the existing account-private board writer. You stay in CBDC & Digital Money. This does not create or enable an alert. Account/replay transitions cancel late actions. Source dates and review qualifications remain part of the saved view.

Coverage and troubleshooting

This edition contains 46 project/framework records, 49 official/issuer source definitions, five BIS survey vintages, eight reported measurements and eight explicit milestones. Counts of qualified ratings, source changes and market records vary with source freshness and subsequent observations.

Direct-source gaps remain visible, including blocked pages, JavaScript-only content and countries requiring newer primary evidence. The IMF CBDC Virtual Handbook request returned 403; the joint IMF–FSB synthesis is available from the FSB. Blocked sources are not bypassed. Old project participation is not substituted for missing current domestic evidence.

If a source is marked changed, open it and read the current material. If an export reports a changed snapshot, refresh the selection and export again. Normal same-account background verification preserves the existing map instance; genuine account changes, denial and replay still clear protected context.

Stronger data points and source quality

Open **Advanced / Investigate** → **Data Q&A** → **Data quality** and choose **Check data quality**. Search the inventory, filter gaps, and open a point to inspect its individual fields, units, original clocks, source links and qualifications.

The shared registry brings selected measurements into one discoverable view. It does not replace the specialist workspaces or certify every underlying dataset. The initial release registers 395 definitions; the published count and availability can change with source coverage. Missing, inactive and expired values remain visible as gaps rather than becoming zero.

Reading a point

1. Check its **meaning and unit**. A river gauge, a financial stock, an official index, a provider forecast and a source-inventory count are different measures.
2. Read the **observation date or reference period**, then its source status. Publication, provider update, source retrieval/check and Watchtower assembly are separate clocks. A fresh check does not turn an old reporting period into today.
3. Inspect the original source or native source-lineage endpoint. A native endpoint identifies the contributing Watchtower source, not an independent confirmation.
4. Read any quality notes. Missing source times, credentials, unreviewed fields, inactive comparisons, unavailable sources and correctly withheld model indexes are disclosed. A registered definition is not proof that a value is current.
5. Use **Put this field in Pro Brief** for an available field. It saves that exact point and field identity while keeping you in Data Q&A. Its individual unit and source qualifications survive the native feed read.

The inventory pages through all matching points, 25 at a time. **Export full quality snapshot** exports the loaded normalized-point snapshot and its quality metadata; it is not a full export of every underlying source's history. **Ask Data** and **Global Markets** → **Data points** also discover the expanded shared measurements. The first shared refresh can take up to two minutes; ordinary subsequent reads reuse source caches. Rechecking does not force upstream providers or bypass a pause. Short-lived values are requalified when a shared snapshot is served; their original expiry does not move forward with the cache. Native Pro Brief reads also enforce the supplied expiry. Retained expired values remain separately labelled.

What is newly connected

The release defines 266 specialist point mappings. One replaces the previous metadata-only OFR connector; the others extend the shared inventory. Definitions can remain present when a source value is unavailable.

Family	Registered mappings	Interpretation
Space Weather	168	Individually identified source series, instruments, units and flags. Inactive comparisons and official forecasts remain separate.
Airport METAR	21	Selected airport station reports; temperature, dewpoint, wind, gust and

Family	Registered mappings	Interpretation
		pressure retain their own units and missingness.
Financial counters	39	Selected BIS offshore-credit/OTC-derivative slices and HKMA RMB deposits, with original currencies and periods.
Reported debt anchors	6	Covered-economy BIS nonfinancial credit subtotals, using reported balances rather than animated extrapolations.
CBDC surveys	5	BIS 2020–2024 respondent cohorts, reported engagement and original publication vintages.
CBDC pilot measurements	8	Reviewed source measurements with exact reporting periods, units and pilot scope.
OFR Financial Stress Index	9	The published aggregate and eight category/regional contribution series.
USGS river gauges	6	Discharge and gauge height at three explicitly selected U.S. stations.
Specialist inventories	4	NHC structured systems, CISA KEV catalogue, qualified aircraft targets and retained public-health notices.

Financial and digital-money definitions

BIS credit outside a currency area is not a census of offshore deposits or world money supply. USD, EUR, JPY and CNY balances retain their currencies; do not add currencies or overlapping total/component series. Derivative notional is not cash, market value or loss exposure. Source-period changes can include FX, valuation and revisions. BIS statistics are included without an additional charge; no endorsement is implied. [BIS reuse terms](#) apply.

Reported debt anchors exclude financial-sector borrowing and identify their covered economies. Sector subtotals and government valuation alternatives overlap; these are not complete world-debt totals. No ticking estimate is imported as an observation.

BIS survey engagement percentages describe work among responding central banks, not currency launches or population adoption. Cohorts change between years. Agorá and RBI pilot measures retain their test/participant scope. Project research, announced milestones, legal frameworks and deployed systems remain distinct.

New OFR and USGS measurements

[OFR's Financial Stress Index](#) is an official daily statistical index normally published with a two-business-day lag. Positive values indicate above-historical-average stress; negative values indicate below-average stress, not zero risk. Category and regional decompositions overlap and must not be added together. The source supplies actual **current-vintage** history, which can be revised; it is not an original-release-vintage backtest.

USGS observations cover Mississippi River at St. Louis (07010000), Colorado River at Lees Ferry (09380000) and Columbia River at The Dalles (14105700). Discharge is in **ft³/s** and gauge height in **ft**. Heights use local station datums, not sea level or directly comparable cross-station elevations. Provisional flags and source timestamps are retained. The selected measurements alone are not flood forecasts or global river coverage. [USGS data service](#).

The read-only `/agent/api/primary-observations` endpoint supports overview, sources and exact-series history, with bounded pagination and a native snapshot token. OFR is eligible for ordinary rechecks every six hours; the three USGS gauges every fifteen minutes. Source/observation expiry is seven days for OFR and six hours for USGS. Failed or paused sources withhold current values and keep dated retained values separately. Authorization denials pause a source; rate limits honor backoff. There is no force, custom URL, private connection or mutation selector.

OFR history is the actual provider's current vintage. USGS history grows only from observations actually received: up to seven days and 1,000 samples per series. There is no interpolation, invented earlier history or copying of qualification fixtures into production. Keep the returned snapshot across pages; a changed or expired selection returns 409 and requires a new read.

Corrected weather and insurance evidence

METAR and NHC parsers now reject malformed/null numeric values rather than turning them into zero coordinates, zero pressure or calm wind. Genuine measured zero is retained. NHC structured inventory zero requires a successful, current source response; it does not mean the whole world is cyclone-free.

Insurance hazard alerts now require dated, located source observations relevant to an illustrative exposure zone. RSS document counts and statements such as "There are no tropical cyclones" cannot establish an active hurricane. Older GDACS context does not become a current NHC position. Static exposure alone no longer creates an active hazard, residual-market, reinsurance-exhaustion or disaster-to-credit alert. Thermal detections require source observation clocks; undated clusters are withheld.

Exposure-zone and market screens remain illustrative, uncalibrated research context. Proximity is not a forecast path, confirmed damage, insured loss, carrier liability or causal financial transmission. Follow the original authorities and the separately qualified Insurance Stress evidence layers.

Quality limits

Existing bullion and politics points now have registered meanings. Numeric fields are counted only when genuinely finite numbers; nulls, blanks and booleans do not inflate coverage. Known fields have individual bindings. New unknown upstream IDs, fields or unit changes are disclosed or withheld until reviewed.

Connector reachability counts are separated from source-record counts. A source registry entry does not become an observed event. Source-paused aircraft counts do not establish zero aircraft; health-notice and KEV catalogue counts are not case incidence or active exploitation counts.

New measurements are **descriptive only**. Existing model governance and correctly withheld risk indexes remain in place. No new prediction approval, accuracy claim, calibration claim or rewritten forecast/outcome history is introduced.

Credential, publication, sampling, upstream availability and historical-vintage gaps remain.

Social reporting, source perspective and post framing

Open **Advanced / Investigate** → **Social**. The reader now separates **source political/editorial context**, **post reporting style** and **text-framing cues**. They answer different questions and can disagree or remain unassessed.

Choose a useful order

- **Reporting first · diversified** is the new Social default. It uses available reporting-style cues, original publication age and literal link presence, then spreads adjacent publisher families and repeated links. It preserves all matching records. It is a reading order, not a truth, popularity or confidence score.
- **Source-perspective mix** rotates through the source-context groups actually present in the selection: left-associated, right-associated, liberty-associated, mixed, explicitly centrist, institutional and unclassified, where available. Each group keeps publisher diversity and its own reporting order. It creates a varied reading queue, not a representative political survey or a guarantee of factual balance. Unclassified sources are not counted as centrist.
- **Latest first**, **Global / publisher balance** and **Severity first** remain available. News workspaces retain their existing default and behavior.

The ordering selector is directly visible in Social. **Mix source perspectives** is also a shortcut. Existing source-leaning, source-type, platform and topic filters remain available; region/language/date controls retain their separate scope.

What affects reporting order

An original source publication within seven days receives the current-publication band. Unknown, future, update-only, referring-article-only, older and explicitly retained copies do not acquire a new publication date. Within each band, reporting style contributes a bounded weight and recency decays with a 24-hour half-life. A supplied literal outbound URL adds a small link-presence weight; it does not establish the linked page's contents or reliability. Engagement, likes, followers, the reader's identity and political labels do not affect the base score.

Unsupported language receives the reporting baseline weight rather than a low-quality penalty. In ordinary reporting order, an 80-record look-ahead applies publisher-family and exact-link/text repetition penalties. No record is deleted. Perspective mix separately round-robins the available source-context groups, so a small group is not hidden behind a large unclassified bucket. Current-publication records remain ahead of the older/unknown band.

Read source leaning correctly

The **Source**: badges and **Source political / editorial leaning** filter describe the publisher or organizational account. The existing catalogue and its source classifications are retained. They are not labels for every article, a journalist, an individual reader or a community member.

Under **Post framing & source evidence** → **Source leaning evidence**, distinguish:

- **Cited organizational context:** an assigned description has a usable source reference, such as the publisher's self-description.
- **Earlier catalogue grouping:** an inherited Watchtower category, with its earlier basis retained. It is not a new external bias rating.
- **Unclassified / institutional:** no supported political assignment, or a source whose institutional role is separately described.
- **Assigned without a usable citation:** a description lacks a usable citation.

Source details retains citations and review dates. A cited self-description is evidence of how an organization describes itself, not independent proof of bias or factual accuracy. National political terminology differs, and broad labels overlap.

Inspect the post itself

Open **Source details** → **How this post was assessed**. The method is `social-reporting-v1`, a bounded, deterministic ruleset—not a trained or calibrated political-bias model. It analyzes the supplied headline/excerpt, not a complete article, video transcript, private feed or the account's entire timeline.

Post reporting style distinguishes reporting cues, analysis/explanation, opinion/commentary, advocacy/action, institutional updates, community discussion and unassessed style. A reporting cue does not verify a reported event.

Post text-framing cues can identify redistributive/labour, market-oriented, civil-liberties/limited-state, socially progressive, socially conservative or security/restriction wording. More than one cue family is shown as multiple frames; it is not averaged into a centrist score. Each match identifies:

1. The exact source field and excerpt.
2. Its surrounding sentence and rule identifier.
3. Whether it is an **explicit policy-position cue** or **evaluative-language cue**.

For example, “We support a wealth tax” contains an explicit policy-position cue. “Government overreach” is an evaluative-language cue; it does not by itself turn the whole report into an opinion piece. A party name, country, ordinary policy topic or mention of an election is insufficient to infer a post's political frame.

Detected quotations, speech attribution, denials, questions, hypotheticals and satire/fact-check context are withheld from endorsement cues. Details can show why wording was excluded. Repeated headline/excerpt text is analyzed once, and detected channel/subscription boilerplate is removed. Referring-publisher video entries are explicitly assessed as referring-article excerpts, not as the video's content.

Coverage and abstention

The text rules currently cover **limited English wording**. A declared post language takes precedence over the feed language; those declarations can themselves be wrong. Other languages remain unassessed for post framing while their existing organizational source context, original text and source dates remain accessible.

The rules deliberately abstain when wording is insufficient. In the initial seven-day qualification selection, none of the 6,552 posts met the narrow post-framing rules; source-perspective sorting still used the existing 67 classified source feeds. That outcome is an abstention, not a finding that those posts were neutral or unbiased. This release chiefly

improves source-perspective sorting, transparency and reporting-style inspection; it does not claim comprehensive semantic bias detection. Authored positive/negative regression cases verify mechanics, not independently adjudicated classification accuracy.

Compare, save and export

Compare shows source context and post assessments side by side. **Source details** explains matched/suppressed text and ordering. Reading-list saves preserve the assessment version/time; they do not silently refresh old labels. Saved views keep the chosen filters. Page exports include source metadata, the assessment and method description. Existing native exact-record Pro Brief selection remains available.

Social pages use a native snapshot tied to source content, profile revision, selection and assessment minute. If it changes between pages, **Load latest first page** restarts the selection rather than mixing rankings. A snapshot token is not a historical archive. Related coverage still uses bounded lexical similarity; multiple posts and cross-platform repeats are not independent corroboration.

The public catalogue remains479configured feeds plus2directory-only references. Availability and publication coverage change normally. Collection schedules, provider pauses, account-local saved-state ownership and replay controls remain native. Public queries do not fetch arbitrary URLs, infer private political profiles, train on reader behavior or trigger paid models.

20261031-website-manual-refresh-v1 · Metadata reviewed 31 October 2026. Route inventory qualification: 30 October 2026; normalized metadata snapshot: 2026-10-31T16:05:29.556000+00:00. This edition date does not change the age of underlying observations.