BOUNDARY ATLAS

BY QUANT ATLAS

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BOUNDARYATLAS is a systematic supply and demand zone dataset designed to quantify where market structure is likely to produce stabilization, rejection, continuation pressure, or reversal behavior.

Each zone is defined by its market side, support or resistance classification, lower and upper boundaries, dynamic width, distance from current price, volatility context, and conviction label.

The delivery of **BOUNDARYATLAS** is a regular stream of dynamic support and resistance zones on selected assets from the global macro universe. Support zones represent areas where downside pressure may begin to stabilize, while resistance zones represent areas where upside pressure may begin to fade or consolidate.

Zones contain conviction labels pertaining to the likelihood of the probabilit of a market reaction.

USE CASES

- **Structural level integration:** supply and demand zones are added to the firm's feature library as dynamic reference levels for systematic research, execution timing, and risk review.
- **Entry and exit refinement:** Existing discretionary or model driven views are checked against zone proximity, zone type, width, conviction, and reaction history.
- **Regime and reaction analysis:** Strategy performance is evaluated around the zones to measure whether returns improve near high conviction structural levels or deteriorate when price is extended away from them.
- **Portfolio risk monitoring:** Current exposures are mapped against nearby zones to identify invalidation areas and potential rebalancing points.
- **Model validation and signal enhancement:** Internal signals are segmented by alignment with the zones.

DELIVERY METHODS

- Delivery is primarily structured through **R2**, the preferred channel for institutional clients requiring automated, reliable, and compliant data ingestion. Integration supports direct pipeline delivery with full version control, making it the recommended starting point. Quant Atlas also supports **S3** bucket delivery for teams operating within **AWS**-native data pipelines and **API** access for custom retrieval workflows. PDF and workbook reports are available for product validation and committee review.

- Core dataset outputs can be delivered in **CSV** or **JSON** format, depending on whether the client prefers tabular research files, systematic ingestion, or platform integration.

- The granularity and update frequency depend on the product and the selected asset universe. Some datasets are designed for hourly delivery, while others are more suitable for daily or slower institutional workflows. Frequency can be increased or reduced based on the client's requirements, provided that the change does not materially reduce signal quality, data stability, or validation reliability.

PERFORMANCE EVALUATION

- Refer to the **Performance** sample document for the evaluation process. If you would like to request an evaluation document for a selected group of assets, we are able to provide that.

- For this type of dataset, key evaluation metrics are net return, hit ratio by horizon, Sharpe ratio, Calmar ratio, Sortino ratio, maximum drawdown, profit factor, etc.

- Stress testing is available in the document. Key stress tests include changing the entry type, holding periods, delaying the entry, etc.

- A data dictionary is provided in the **Performance** sample document.

CONTACT US

You may reach us through the following means for any type of questions you have.

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