

# **Earthquake API Documentation**

## Overview:

The Earthquakes API allows users to request detailed historical information about earthquakes occurring within a specified time range. This data is useful for a variety of applications, including scientific research, emergency management, and public awareness.

Endpoint: GET /earthquakes

### **Request Parameters:**

**start\_time (required)**: The start of the time range for querying earthquakes (format(YYYY-MM-DD)).

end\_time (required): The end of the time range for querying earthquakes (format(YYYY-MM-DD)).

#### **Response Parameters:**

type: The type of the collection, typically "FeatureCollection".

metadata: Metadata about the API response.

generated: Timestamp when the data was generated.

url: URL of the query.title: Title of the data set.status: HTTP status code.

api: API version.

**count**: Number of earthquake events returned.

features: Array of earthquake features.

**type**: The type of the feature, typically "Feature". **properties**: Detailed properties of the earthquake.

mag: Magnitude of the earthquake.

place: Location description of the earthquake.

time: Time of the earthquake event in milliseconds since epoch.

**updated**: Time when the event was last updated in milliseconds since epoch.

tz: Time zone offset.

url: URL to the USGS event page.

**detail**: URL to detailed earthquake data in GeoJSON format. **felt**: Number of reports from people who felt the earthquake.

**cdi:** Community Determined Intensity. **mmi:** Modified Mercalli Intensity.

albert: Alert level.

status: Review status of the event.tsunami: Tsunami flag (0 or 1).sig: Significance of the event.

net: Network identifier.code: Event code.

ids: Comma-separated list of event ids.

sources: Comma-separated list of source networks.

**types:** Comma-separated list of event types. **nst:** Number of stations that reported the event.

dmin: Minimum distance to the event.

rms: Root mean square of the travel time residuals.

gap: Gap between stations.magType: Magnitude type.

type: Type of seismic event (e.g., "earthquake").

title: Title of the event.

geometry: Geometric data of the earthquake.

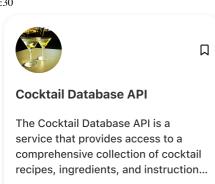
type: Geometry type, typically "Point".

coordinates: Array of coordinates [longitude, latitude, depth].

#### Conclusion:

The Earthquakes API is a powerful tool for accessing detailed and timely historical information about seismic activities worldwide. By providing crucial data such as magnitude, location, depth, and time of occurrence, this API supports a wide range of applications from scientific research to emergency management. With its easy-to-use interface and comprehensive data, the Earthquakes API is indispensable for anyone needing accurate earthquake information.

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