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Jana Earth Data MCP Server Installation Guide for Claude Code Users

Connect Claude Code to Jana's environmental data platform. Once set up, you can ask Claude to query air quality measurements, greenhouse gas emissions, and facility data using natural language.

What You Need

Before you begin, make sure you have:

- **Claude Code** installed and working on your machine
- **A Jana account** (email and password) provided by your organization

That's it. No API keys, no tokens, no configuration files to edit.

Step 1: Add the Jana Server

Open your terminal and run:

```
claude mcp add --transport sse jana https://mcp-dev.jana.earth/sse
```

This registers the Jana MCP server with your Claude Code installation. You only need to do this once.

Step 2: Verify the Connection

Confirm that the server was added:

```
claude mcp list
```

You should see **jana** in the list of configured servers with the URL shown above.

Step 3: Start Claude Code

Launch Claude Code as you normally would:

claude

When the session starts, Claude Code connects to the Jana server in the background. You will see the Jana tools become available automatically.

Step 4: Sign In (First Time Only)

The first time you use a Jana tool, Claude Code will open your browser to a sign-in page.

1. Your browser opens to a page showing the **Jana Earth Data** logo and a sign-in form
2. Enter your **email** and **password** -- the same credentials you use for your Jana account
3. Click **Sign In & Authorize**
4. Your browser shows a confirmation message. You can close the tab
5. Return to Claude Code -- it continues automatically

You stay signed in for one hour. After that, Claude Code handles re-authentication on its own. You should not need to sign in again during normal use.

Step 5: Start Asking Questions

You are now connected. Ask Claude anything about environmental data. Here are some examples to try:

Air quality:

What are the current PM2.5 levels in Delhi?

Show me air quality measurements for London over the past week.

Emissions:

What are the top CO2-emitting facilities in Germany?

Compare methane emissions from the oil and gas sector in the US and Canada for 2023.

Discovery:

What monitoring stations are within 50 km of Tokyo?

What environmental parameters does the platform track?

Analysis:

Analyze the trend of PM2.5 concentrations in Beijing over the past year.

Are NO2 and PM2.5 levels correlated in Los Angeles?

Export:

Export all air quality data for Brazil in 2024 as a CSV file.

Claude chooses the right tool, fills in the parameters, and returns the results -- all from plain English.

Available Data

The Jana platform aggregates environmental data from three global sources:

Source	What It Covers	Scale
OpenAQ	Air quality measurements (PM2.5, PM10, O3, NO2, SO2, CO)	Station-level, near real-time
Climate TRACE	Greenhouse gas emissions (CO2, CH4, N2O)	Facility-level, annual
EDGAR	National emissions inventories	Country-level, annual

All queries require a location -- a country, a bounding box, or a point with a search radius. Claude handles this for you based on the places you mention in your questions.

Available Tools

Claude selects from these tools automatically based on your question. You never need to call them directly.

Data access

Tool	What It Does
get_air_quality	Air quality measurements from OpenAQ
get_emissions	Greenhouse gas emissions from Climate TRACE and EDGAR
get_unified_data	Query all data sources in a single request
get_aggregations	Pre-computed hourly, daily, or monthly rollups
find_nearby	Monitoring stations and facilities near a location

Analytics

Tool	What It Does
get_trends	Time-series trend analysis
get_correlations	Statistical correlations between parameters
get_analytics	Anomaly detection and pattern recognition

Data quality and metadata

Tool	What It Does
get_quality	Data completeness and quality scores

Tool	What It Does
get_parameters	Available environmental parameters and units
get_sectors	Emission sectors (power, transport, industry, etc.)
get_definitions	API overview and available endpoints
get_unit_definitions	Measurement units and conversion factors
get_source_metadata	Data source coverage and update frequency

Export

Tool	What It Does
request_export	Start a CSV or JSON export for large datasets
check_export_status	Check whether an export job has finished
download_export	Get the download link for a completed export

System

Tool	What It Does
get_data_summary	Platform-wide data coverage overview
get_system_health	Server health and connectivity status
get_statistics	Record counts and data freshness by source

Troubleshooting

"I don't see any Jana tools in Claude Code"

Run `claude mcp list` and confirm **jana** appears. If not, re-run the add command from Step 1. Then restart your Claude Code session.

"The browser opened but the page won't load"

Make sure you have internet access to `mcp-dev.jana.earth`. If your organization uses a VPN, ensure it allows outbound HTTPS traffic to that domain.

"Sign-in failed -- invalid email or password"

Double-check that you are using your Jana account credentials (the same email and password you would use to log in at your organization's Jana portal). If you have forgotten your password, contact your Jana administrator.

"Tool calls are timing out"

Large queries can take time. Try narrowing your request:

- Use a smaller geographic area (a single city instead of a whole country)
- Shorten the date range
- For very large datasets, ask Claude to export the data instead of querying it directly

"I need to re-authenticate but the browser isn't opening"

Remove and re-add the server:

```
claude mcp remove jana
claude mcp add --transport sse jana https://mcp-dev.jana.earth/sse
```

Then start a new Claude Code session.

Managing Your Connection

Remove the server if you no longer need it:

```
claude mcp remove jana
```

Check server details:

```
claude mcp get jana
```

View connection status from inside a Claude Code session:

```
/mcp
```

This shows all connected MCP servers, their status, and available tools.

Getting Help

If you run into issues not covered here, contact your Jana Earth Data administrator.
