AWOSLOG MCP — AI-Powered Aviation Weather

AWOSLOG now includes an MCP (Model Context Protocol) server, which lets you ask an AI assistant natural questions about aviation weather and get answers from live data.

Instead of navigating the website and reading charts yourself, you can ask things like:

> *"What's the weather at KDEN?"*
>
> *"Is it VFR at Gunnison right now?"*
>
> *"Show me the last 7 days of weather at Rifle"*
>
> *"Are there any TFRs in Colorado?"*
>
> *"What aircraft are near Aspen right now?"*

The AI reads the live data from awoslog.com and gives you a plain-English answer.

What is MCP?

MCP (Model Context Protocol) is a standard that lets AI assistants like Claude connect to external data sources. Think of it like giving Claude the ability to look up real-time information on your behalf.

Without MCP, Claude can only answer from its training data — it can't tell you what the wind is doing at KDEN right now. With the AWOSLOG MCP connected, Claude can query live METAR data, check flight categories, find airports, see nearby aircraft, and look up TFRs — all in real time.

You don't need to understand the protocol. You just connect once, and then Claude can answer aviation weather questions using live data from awoslog.com.

Requirements

MCP requires one of these Claude clients (the free web version at claude.ai **does not** support MCP):

- **Claude Desktop** — the installed app for Mac or Windows
- **Claude Code** — the command-line tool for developers

Both require a Claude account. Download Claude Desktop from:
https://claude.ai/download

Setup — Claude Desktop

1. Open Claude Desktop.
2. Click the **gear icon** (Settings) in the top right.
3. Go to **Developer > Edit Config**.

   This opens a file called `claude_desktop_config.json` in your text editor. It may be empty or have existing content.
4. Add the following. If the file is empty, paste the whole block. If it already has content, add the `"awoslog"` entry inside the existing `"mcpServers"` section:

```
{
  "mcpServers": {
    "awoslog": {
      "type": "streamable-http",
      "url": "https://awoslog.com/mcp"
    }
  }
}
```

5. **Save** the file and **restart** Claude Desktop.
6. You should see a **hammer icon** in the chat input area. This means MCP tools are connected. Click it to see the available tools.
7. Start asking questions:

   "What are the current conditions at Montrose?"

   "Compare the weather at KDEN and KASE"

   "What's the flight category at Eagle County?"

Setup — Claude Code

Claude Code is a command-line tool for developers. If you have it installed, run:

```
claude mcp add --transport http awoslog https://awoslog.com/mcp
```

That's it. The next time you start a Claude Code session, the AWOSLOG tools will be available. You can verify with the `/mcp` command inside a session.

What You Can Ask

Once connected, you can ask Claude anything about aviation weather in natural language. Behind the scenes, Claude calls these tools:

`get_station_weather`

Current conditions at any airport — wind, temperature, dewpoint, humidity, visibility, ceiling, pressure, weather.

> *"What's the weather at KDEN?"*
> *"How cold is it at Telluride right now?"*

`get_weather_history`

Historical observations over the last 24 hours, 7 days, 30 days, 1 year, or all time.

> *"Show me the last week of weather at Rifle"*
> *"What was the wind trend at Gunnison today?"*

`search_stations`

Find airports by identifier, city, or state.

> *"What's the identifier for the Aspen airport?"*
> *"What stations are in Colorado?"*

`get_flight_categories`

Current VFR / MVFR / IFR / LIFR status based on ceiling and visibility, using standard FAA thresholds.

> *"Is it VFR at Eagle County?"*
> *"Which stations are IFR right now?"*

`get_nearby_aircraft`

Live aircraft positions near any location, including callsign, type, altitude, speed, and heading.

> *"What planes are near Aspen right now?"*
> *"Any aircraft within 50 miles of KGJT?"*

`get_tfrs`

Active Temporary Flight Restrictions across the US.

> *"Are there any TFRs right now?"*
> *"Any flight restrictions in Colorado?"*

Combining tools

You can also ask Claude to combine information across multiple tools:

> *"I'm planning to fly from KDEN to KASE tomorrow morning. What's the weather at both ends and are there any TFRs along the route?"*

"Give me a briefing for the Colorado mountain airports"

Why This is Useful

AWOSLOG already has a website with charts and maps. The MCP connection makes it more useful in a few ways:

Natural language — Instead of checking multiple pages, you ask one question and get a complete answer. *"Is it flyable at Gunnison?"* is easier than checking ceiling, visibility, and wind separately.

Comparison and analysis — Claude can compare conditions across multiple stations, identify trends in historical data, or summarize a complex weather picture in plain English.

Context-aware — You can describe your situation and Claude factors in the data. *"I'm in a 172 — is the wind at KASE manageable?"* considers the crosswind component relative to a Cessna 172's limitations.

Conversational — You can follow up. *"What about tomorrow?" "How does that compare to last week?" "What's the closest VFR airport?"* Claude remembers the context of your conversation.

The data comes from the same NOAA METAR feed that powers the AWOSLOG website. The AI is interpreting real observations, not making up weather.

Troubleshooting

"I don't see the hammer icon"
Restart Claude Desktop after saving the config file. Check that the JSON syntax is valid (matching braces, commas between entries).

"Tool calls are failing"
Make sure you can reach https://awoslog.com in your browser. The MCP tools call the same API as the website.

"Claude says it doesn't have weather tools"
The MCP connection may not have initialized. Restart Claude Desktop and look for the hammer icon before asking questions.

"I'm using claude.ai in my browser"
The web version of Claude does not support MCP. You need Claude Desktop (the installed app) or Claude Code (the CLI).