

WEATHER WIZARD

Desktop User Manual

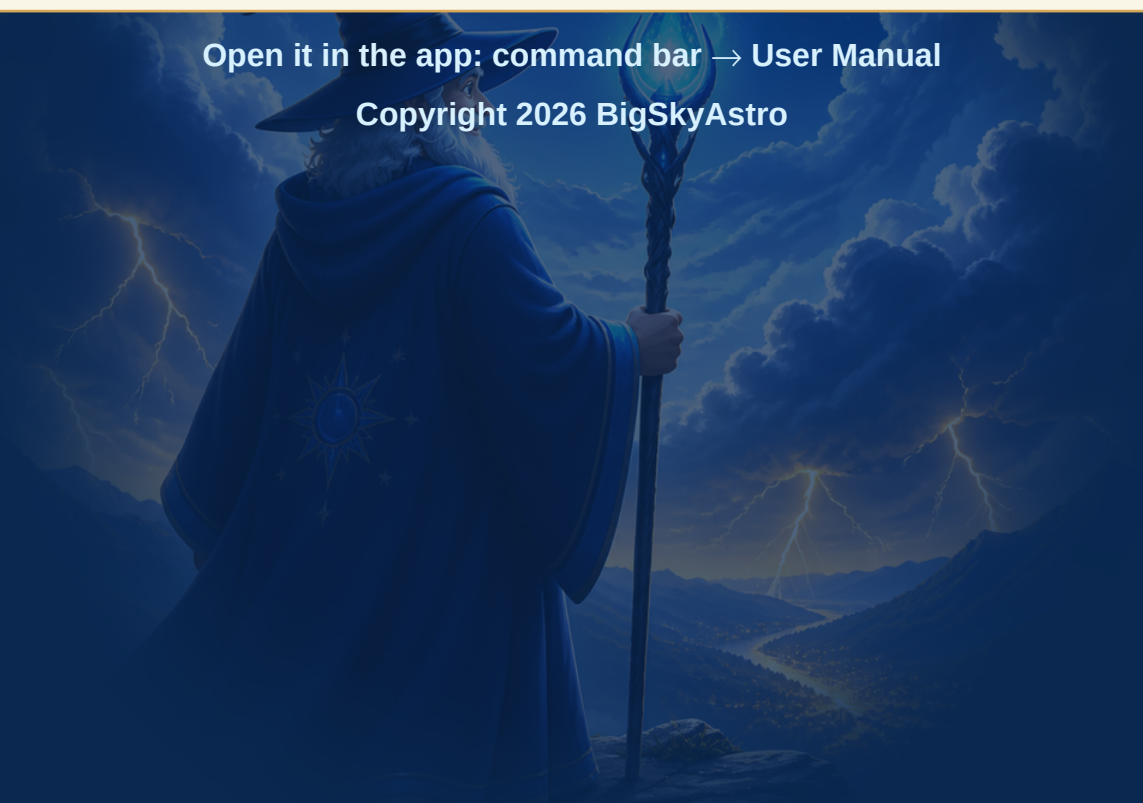
Windows Desktop 1.0.2 · October 2026

About this manual

It shows the current screens, says which tools are Free and which are Pro, and walks through creating a station, keys, history, and a backup.

Open it in the app: command bar → User Manual

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Contents

Weather Wizard Desktop is the Windows console. Free has no time limit. Pro is a one-time purchase from the Microsoft Store. A dash means the reading is unavailable, not that the value is zero.

Three facts to start with

You do not need an account for National Weather Service alerts or an Open-Meteo forecast. The command bar along the bottom is how you move. Chapter 1 has the checklists for a station you own and for public data only. Chapter 13 is the troubleshooting guide. Chapter 16 is the index.

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1. Welcome and how to use this manual

Weather Wizard Desktop turns a Windows PC into a single-panel weather console. Read this chapter once, then jump to the command you need.



The Weather page of version 1.0.2, drawn from generated sample data. The station name SAMPLE is not a real station. The command bar along the bottom is the real set of buttons. At the default window size the trend graph is hidden under the three readings. Make the window taller to show it.

Start here — two checklists

Use the list that matches you. You do not have to create every account. Create one only when you want information your station, or the free public feed, does not already provide.

I own a personal weather station

Confirm the badge says PRO before you save the station. Have the station or device id ready. Create a Weather Underground account if you want that network's readings, and a Weathercloud account if the station uploads there. Add an OpenWeather key only if you want lightning the station does not measure. Add an AirNow key only if you want United States air quality. Leave Supabase alone unless you already keep indoor readings in a project you own. Never paste an API key into email or into this manual.

I do not own a personal weather station

You can run the console on public data. No weather account is required. Save a station from a US ZIP. Open-Meteo and the National Weather Service answer from that place. Free holds three saved stations. Open weather.com in the browser only if you want that site's longer forecast page. Buy Pro later if you want lightning, air quality, a longer graph, or more than three stations. You can also watch a nearby public station on Weather Underground after you unlock Pro and save a key.

Sites you may want an account on, and only if you need what they add:

Site	Create an account when
Weather Underground	You upload a station, or you want a public station id. Pro.
Weathercloud	Your station already uploads to Weathercloud. Pro.
OpenWeather	You want lightning counts the station does not provide. Pro.
AirNow	You want United States air quality. Pro.
weather.com	You want that site's forecast page in the browser. No key in the app.
weather.gov	You want the official warning page. No account.
Open-Meteo	Nothing to create. The free forecast uses it automatically.

Chapter 10 gives each site's address, what it is for, and the rule on cookies. BigSkyAstro cannot control what those sites do with data you give them.

Where things live

Where	Edition	What you do there
Weather	Free	Temperature, humidity, wind, clouds, the Today trend, and official NWS cards.
Local Forecast	Free	A daily table, plus a link to the weather.com 10-day page.
Radar	Free	The National Weather Service radar loop for the station's radar site.
Lightning	Pro	Station range and the current National Weather Service alert text.
Add	Free for Open-Meteo	Create a station from a US ZIP. The map centers on the town.
Graphs	Pro	An hour-by-hour temperature, humidity, and wind list.
More	Both	Get Pro, Restore, Settings, the database, and Supabase status.
Refresh	Both	Fetch the station again. The app also refreshes about every five minutes.

Conventions used in this manual

- **More** → **Open Settings** means click More on the command bar, then click Open Settings.
- A **Free** callout is available with no purchase. A **Pro** callout needs the Microsoft Store unlock.
- A **dash** means the reading is unavailable. It does not mean a measured zero.
- **Last Updated** is the time of the data on screen, not a promise of continuous monitoring.
- An **API key** is a private code from a weather provider. This manual never asks you to paste one into a document.

How to reopen this manual

1. On the command bar, click **User Manual**.
2. Windows opens this PDF with the app you use for PDF files.
3. If Windows asks how to open the file, choose a PDF reader such as Microsoft Edge.
4. Use Contents for page numbers. Use the Index at the end for topics by chapter number.

Safety first

Weather Wizard is a convenience display, not a life-safety warning system. A missing lightning count or a quiet alert card is never an all-clear. Follow National Weather Service warnings and local emergency instructions.

2. First launch

A new install walks through six short steps before the console opens. A PC that already finished setup opens straight onto the outdoor console.

The six setup steps

1. **Privacy and disclaimer.** Stations, settings, and history stay on this PC unless you later turn on an optional Supabase pull. Accept both boxes to continue.
2. **What you need.** A local forecast only needs a US ZIP code. A personal weather station also needs a provider, a station or device ID, and any API key that provider requires.
3. **Free and Pro.** Read the split, then continue. You can buy Pro later from More. Setup does not require a purchase.
4. **Station setup.** Keep stations already on this PC, add a free local-forecast station for the ZIP, or add a personal weather station.
5. **Data and backup.** Setup does not erase the database. Leave the backup box on to create Documents\WeatherWizardDesktop-Backups and save the first copy. If the home station is a personal station, leave the fallback box on to save an Open-Meteo station for the same ZIP. The console uses that station when the personal station does not answer.
6. **Review and finish.** Confirm the ZIP and the edition, then click Finish.

Data and backup is the specialized step. Leave the backup box on. The fallback box is available when the home station is a personal station, and it stays off when the home station is already a local forecast.

Free

The free local-forecast choice uses Open-Meteo and the National Weather Service from the town for that ZIP. No provider account is required.

Pro · one-time Microsoft Store purchase

A personal station that uses Weather Underground, Weathercloud, OpenWeather, AirNow, or Supabase needs Pro. If you are still on Free, choose the local forecast now and add the personal station after you buy Pro.

What the first refresh does

- The window opens onto the outdoor console.
- The home station loads from the local database.
- The app requests Open-Meteo, the National Weather Service, and any Pro sources whose keys are already saved.
- The header shows **Last Updated** when a fetch finishes. Click **Refresh** if you want another pass.

If the first refresh shows nothing

- Confirm the PC has a network connection.
- Click **Refresh** and wait until Last Updated changes. A full pass can take up to half a minute.
- A status line under the console reports a refresh error when one occurs.
- Open More and read the database path. Chapter 13 says where that file lives.



After setup, this is the screen you leave up. Last Updated at the right of the header is the clock time of the last successful fetch.

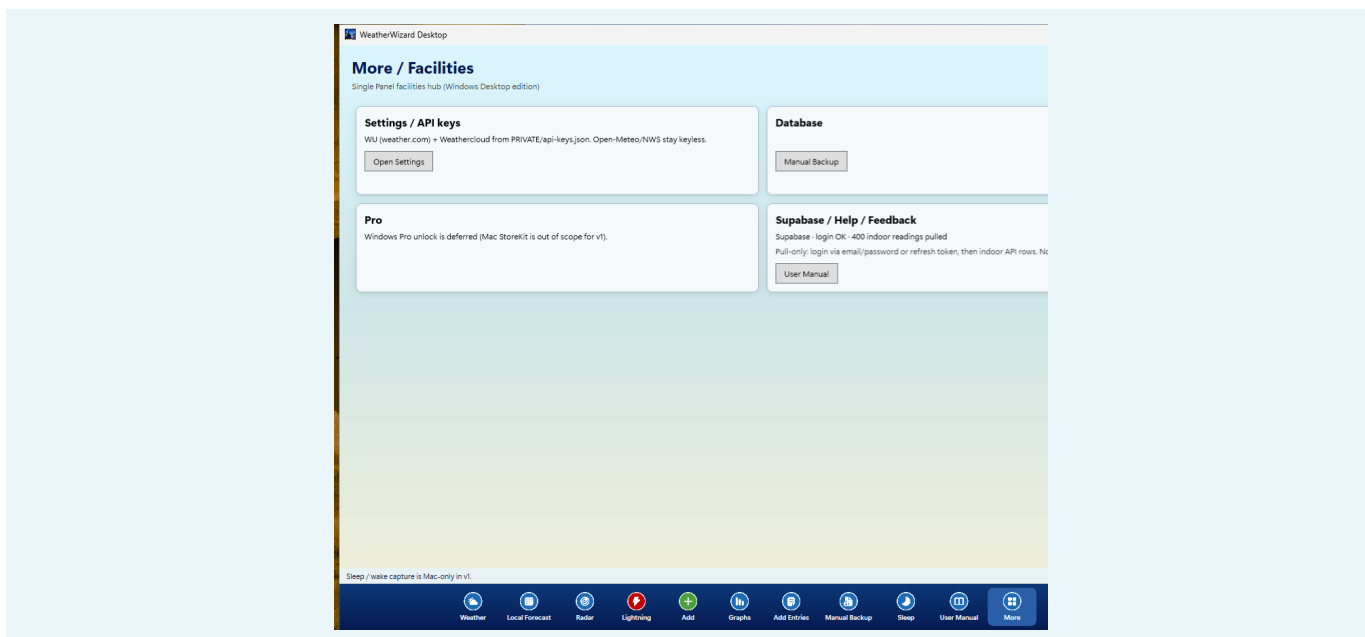
3. Free and Pro

Weather Wizard Desktop is free to install and free to keep. One optional Microsoft Store purchase unlocks Pro on that Microsoft account. There is no Windows trial and there are no activation codes.

Capability	Free	Pro (one-time purchase)
Saved stations	Up to 3	Up to 20
Open-Meteo current conditions and forecast	Yes	Yes
National Weather Service alerts and radar	Yes	Yes
Trend graph	12 hour and Today	Also Week, Month, and Year
Hour-by-hour Graphs window	No	Yes
Lightning window and OpenWeather lightning	No	Yes
Weather Underground and Weathercloud	No	Yes
AirNow air quality	No	Yes
Supabase indoor pull	No	Yes

Buying Pro

1. Install Weather Wizard from the Microsoft Store. An unpackaged copy has no Store license, so Pro stays locked.
2. Open **More**.
3. Read the Pro card, then click **Get Pro**.
4. Confirm the purchase in the Microsoft Store dialog with the account that should own it.
5. Wait until the card says Pro is active, then click **Refresh**.



More is where Get Pro and Restore live, next to Settings, backup, and the Supabase status.

Restoring Pro on a new or reset PC

1. Sign in to Windows with the same Microsoft account that bought Pro.
 2. Install Weather Wizard from the Microsoft Store and finish first launch.
 3. Open **More** and click **Restore**.
 4. Confirm the card says Pro is active before adding a personal station or a Pro key.
- Restore checks the Pro license only. It does not recover weather history, station settings, or provider keys.
 - Provider plans, such as an OpenWeather subscription, are billed by that provider. They are not included in Pro.

No trial, no codes

There is no Windows trial and no activation-code unlock. Free simply has no time limit. If a message asks you for a code to unlock Weather Wizard Desktop, it did not come from BigSkyAstro.

4. The outdoor weather console

Click Weather on the command bar. This is the screen you leave up.



The Weather page as version 1.0.2 draws it: readings, wind compass, lightning card, detail metrics, and the scrolling command bar. Generated sample, station SAMPLE.

Free

Temperature, humidity, cloud cover, wind, the 12 hour and Today trends, and the NWS cards are Free.

Pro · one-time Microsoft Store purchase

Lightning counts, AirNow, indoor Supabase numbers, and Week, Month, and Year trends are Pro.

Header

- **OUTDOOR WEATHER** and the station menu. Choose another saved station from that menu.
- The colored pills name the sources that answered on the last refresh, such as Open-Meteo, Weathercloud, or Supabase.
- The edition badge reads **FREE** or **PRO**.
- **Last Updated** is the clock time of that refresh.

The large readings

- **Outdoor temp** and **Outdoor humidity**, each with today's high and low under the number.
- **Cloud cover** from Open-Meteo, split into low, mid, and high.
- The wind compass shows speed, gust, and direction. Green ticks are earlier bearings from this station. Rings mark 1, 5, 10, and 20 miles for lightning distance.
- The lightning card shows radius, strike count, and the latest strike time when Pro and OpenWeather both answer. Otherwise those fields stay a dash.

The one trend graph

There is one trend graph, and it sits under the three readings. The default window is 960 by 640 pixels and that page does not scroll up and down, so on a short window the trend is squeezed out of sight. Drag the bottom edge down until the card appears. Three controls sit on that card: the period, the field, and a button that switches **Line** and **Bars**. Free can select **12 hr** and **Today**. Pro also unlocks **Week**, **Month**, and **Year**. Fields are Temperature, Wind Gust, Humidity, Pressure, and Rain. Air quality as a graph field is Pro. The left axis is the reading and the bottom axis is the time. The green ticks and the rings on the wind compass are earlier bearings and lightning distance. They are not a second trend graph. The Graphs button opens the hour-by-hour Open-Meteo list. It is not a second copy of this picture.

Command bar

The bar scrolls sideways when the window is narrow. From left to right the buttons are **Weather**, **Local Forecast**, **Radar**, **Lightning**, **Add**, **Graphs**, **Add Entries**, **Manual Backup**, **Sleep**, **User Manual**, **More**, and **Refresh**.

Detail metrics

The row just above the command bar shows dew point, pressure, rain rate, UV, solar radiation, feels-like temperature, and indoor temperature and humidity. Indoor values come from a Supabase pull, which is Pro.

How often data can change

- Click **Refresh** any time. The round control is at the right end of the command bar.
- The app also refreshes about every five minutes while it is open.
- Closing the app stops new samples. History only grows while the console is running and a fetch succeeds.
- A source pill appears when that source answered. A missing pill means that source was not in this pass.

A dash is not a zero

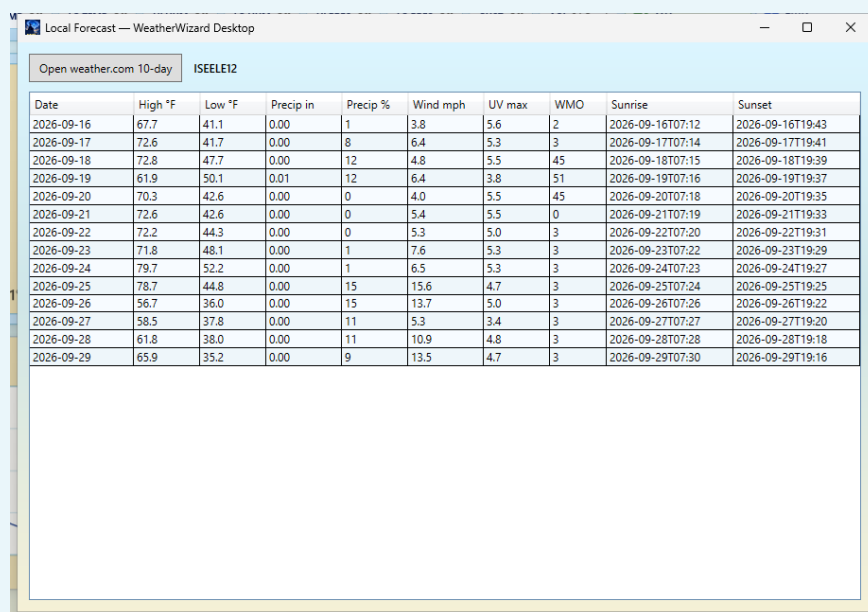
Solar, UV, strikes, and air quality stay as a dash until that source returns a number. Do not read a dash as clear air, no rain, or no lightning.

5. Local forecast, radar, and graphs

These command-bar buttons open windows on top of the console. Close a window when you are done. The console stays underneath.

Local Forecast · Free

1. Click **Local Forecast**.
2. Read the daily table: date, high, low, precipitation amount and chance, wind, UV, weather code, sunrise, and sunset.
3. The table includes recent days as well as the days ahead, because the forecast request asks for the past week.
4. Click **Open weather.com 10-day** to open that station's 10-day page in the browser. Viewing it does not require a weather.com login and does not change the station's weather source.

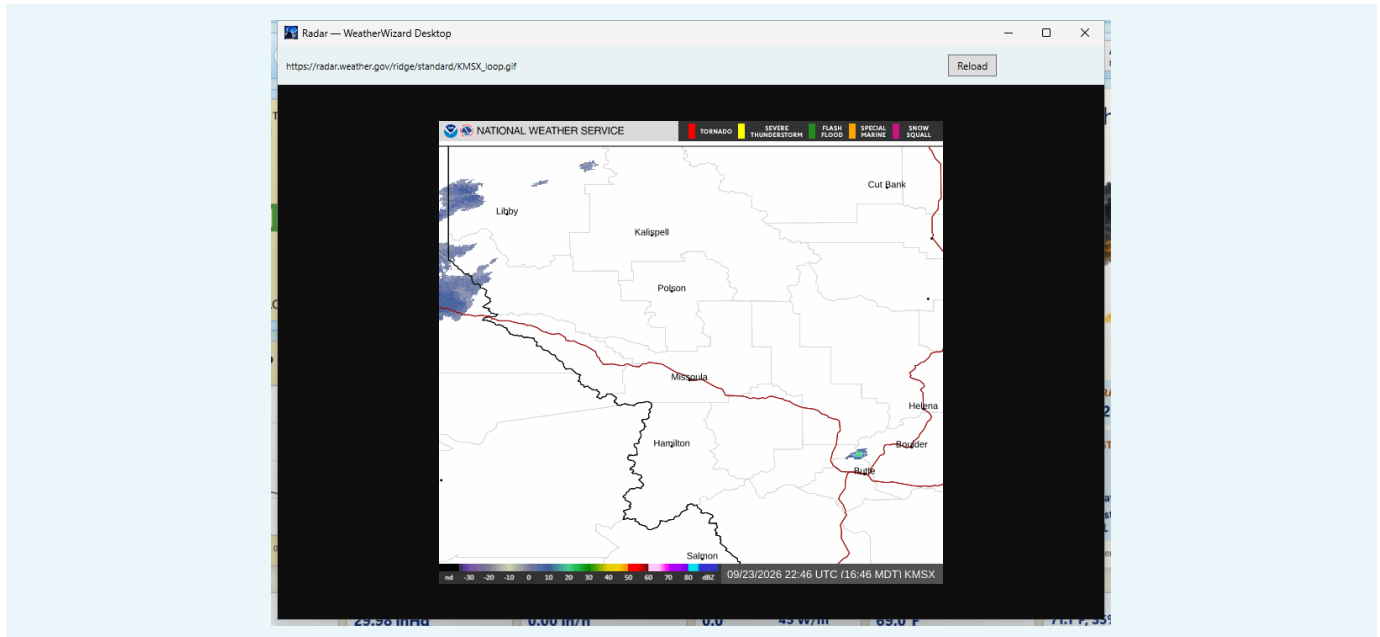


Date	High °F	Low °F	Precip in	Precip %	Wind mph	UV max	WMO	Sunrise	Sunset
2026-09-16	67.7	41.1	0.00	1	3.8	5.6	2	2026-09-16T07:12	2026-09-16T19:43
2026-09-17	72.6	41.7	0.00	8	6.4	5.3	3	2026-09-17T07:14	2026-09-17T19:41
2026-09-18	72.8	47.7	0.00	12	4.8	5.5	45	2026-09-18T07:15	2026-09-18T19:39
2026-09-19	61.9	50.1	0.01	12	6.4	3.8	51	2026-09-19T07:16	2026-09-19T19:37
2026-09-20	70.3	42.6	0.00	0	4.0	5.5	45	2026-09-20T07:18	2026-09-20T19:35
2026-09-21	72.6	42.6	0.00	0	5.4	5.5	0	2026-09-21T07:19	2026-09-21T19:33
2026-09-22	72.2	44.3	0.00	0	5.3	5.0	3	2026-09-22T07:20	2026-09-22T19:31
2026-09-23	71.8	48.1	0.00	1	7.6	5.3	3	2026-09-23T07:22	2026-09-23T19:29
2026-09-24	79.7	52.2	0.00	1	6.5	5.3	3	2026-09-24T07:23	2026-09-24T19:27
2026-09-25	78.7	44.8	0.00	15	15.6	4.7	3	2026-09-25T07:24	2026-09-25T19:25
2026-09-26	56.7	36.0	0.00	15	13.7	5.0	3	2026-09-26T07:26	2026-09-26T19:22
2026-09-27	58.5	37.8	0.00	11	5.3	3.4	3	2026-09-27T07:27	2026-09-27T19:20
2026-09-28	61.8	38.0	0.00	11	10.9	4.8	3	2026-09-28T07:28	2026-09-28T19:18
2026-09-29	65.9	35.2	0.00	9	13.5	4.7	3	2026-09-29T07:30	2026-09-29T19:16

Local Forecast is a daily table for the saved station. The weather.com button opens a browser page outside the app.

Radar · Free

1. Click **Radar**.
2. The window opens the National Weather Service standard loop for the station's radar site, for example KMSX near Missoula.
3. Read the address above the image so you know which site you are looking at.
4. Click **Reload** to fetch the loop again.
5. If the National Weather Service has not named a radar site, the window opens the weather.com radar page for the station coordinates.

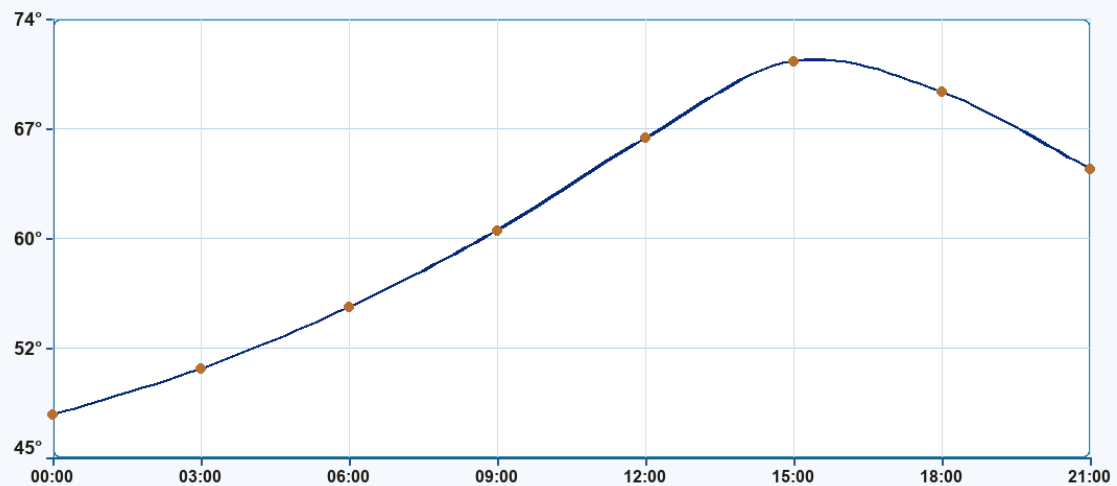


Radar shows the National Weather Service loop. Reload fetches the image again. This edition does not ask for a weather.com password.

Graphs · two pictures, five periods

The console trend is the graph in the current code. Pick a **type** and a **period**. Line is the default: a navy curve with points. Bars draw the same samples as columns. Periods are **12 hr**, **Today**, **Week**, **Month**, and **Year**. Free includes 12 hr and Today. Week, Month, and Year need Pro and enough saved samples to fill the range. Fields are Temperature, Wind Gust, Humidity, Pressure, Rain, and, on Pro, AQI.

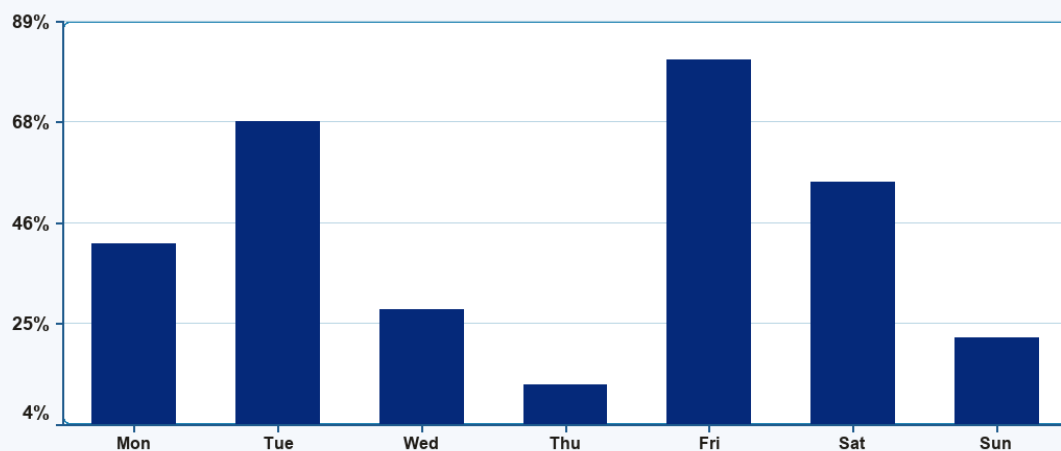
Line · Today · Temperature



Generated sample. Not a customer's readings.

Line type, Today period, Temperature. The left axis is degrees and the bottom axis is the hour. Generated for the manual.

Bars · Week · Humidity



Generated sample. Not a customer's readings.

Bars type, Week period, Humidity. The left axis is percent and the bottom axis is the day. Not a customer's station.

The Graphs window is the hour-by-hour Open-Meteo list: time, temperature, relative humidity, and wind. Use it when you want the numbers. Use the console trend when you want the line or the bars.

Pro · one-time Microsoft Store purchase

If a longer period or the Graphs window stays locked, use More → Get Pro, then open it again.

6. Lightning and air quality

Both tools are Pro. Free still shows the lightning card and the AQI chip, but their numbers stay unavailable until Pro is active and the keys answer.

Lightning on the console · Pro

- The card shows the configured radius, how many strikes are in that radius, the latest strike, and today's total when OpenWeather returns them.
- A dash for Latest means no strike time was returned. It is not an all-clear.
- A new station starts at a 25 mile range.

The Lightning window · Pro

1. Confirm the edition badge says **PRO**. On Free, the command bar explains that Lightning is a Pro feature.
2. Click **Lightning**.
3. The window names the station, repeats any active National Weather Service alert summary, and shows the configured range in miles.
4. This window does not draw a strike map. Use the console card for the count.

Pro · one-time Microsoft Store purchase

Lightning numbers also need an OpenWeather key that includes the product you are calling. Create that key at openweathermap.org, then save it from More → Open Settings. Chapter 10 has the steps.

Air quality · Pro

When Pro is active and an AirNow key is saved, each refresh asks AirNow for the current observation within 100 miles of the station. If that search is empty and a ZIP code is saved with the key, AirNow is asked again for that ZIP. The limit chip shows the highest AQI and its category, such as **34 Good**. The chip is marked active when the AQI is 101 or higher. With no key, or no observation, the chip stays a dash.

AirNow is a US service

AirNow covers United States reporting areas. A station outside that network can still show a dash even when the key is valid.

7. Limit alerts and official warnings

The row under the header is your own thresholds. The three cards beside it are official National Weather Service messages.

Your limit chips

One line runs from the Limit Alerts tile through HI TEMP, LO TEMP, HI HUM, LO HUM, HI PRES, LO PRES, GUST, and AQI. A chip reads **Off** until that threshold is saved on the station. When a live reading crosses a saved threshold, the chip is marked active. AQI uses 101 as its active level and needs Pro plus an AirNow key before it can show a number.

Free

The chips themselves are on every console. They describe the station record. They do not play a custom alert sound in this Windows edition.

WX, EMR, and AMBER · Free

- **WX** is a weather warning, watch, or advisory from the National Weather Service.
- **EMR** is an emergency or civil-danger style alert.
- **AMBER** is an AMBER alert when the National Weather Service feed includes one.
- A quiet card means that feed did not include that kind of message. It is not a guarantee that no hazard exists.
- These cards do not require Pro and do not require an API key.

Limits belong to the station

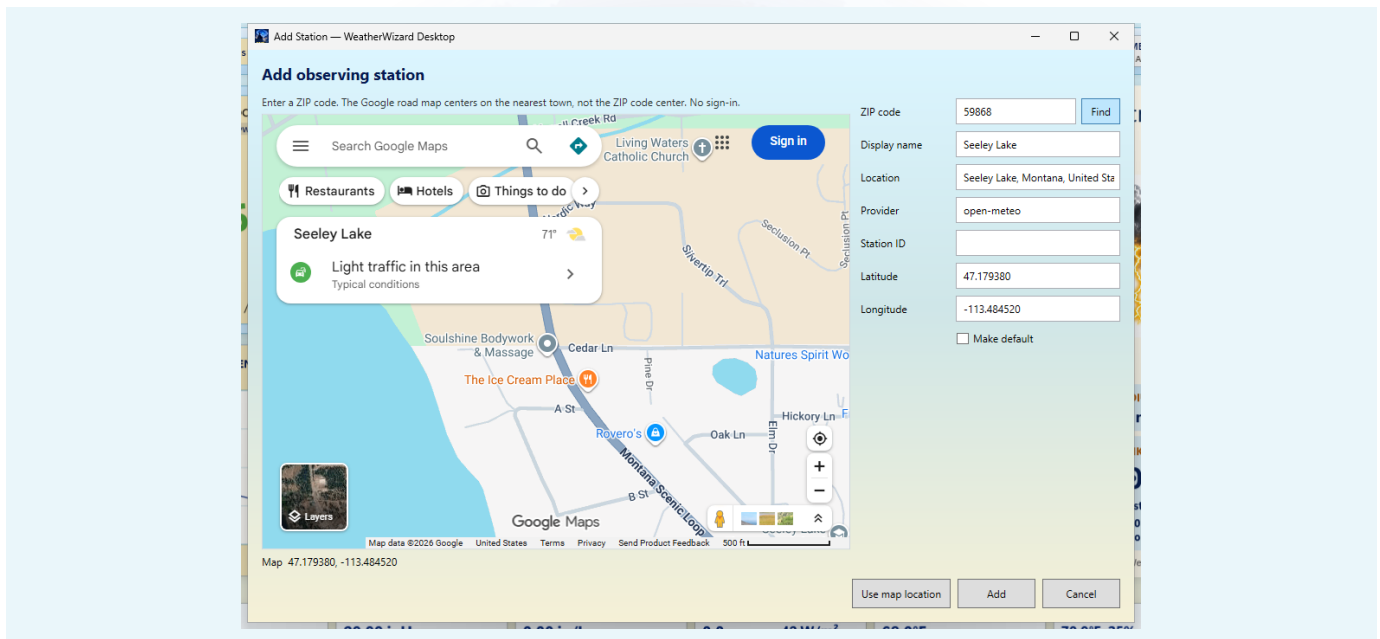
The Settings window edits API keys. It does not edit high and low temperature, humidity, pressure, or gust. Those values belong to the station record.

Not a warning system

Do not rely on a chip or a quiet WX card for a safety decision. Use weather.gov and local emergency instructions.

8. Creating a station and its supporting data

Every reading comes from a saved station. Add creates that record, the coordinates the forecast uses, and, for a personal station, the provider id later refreshes will call.



Find resolves the ZIP to the nearest town and centers the road map on that town. Cancel discards the dialog. The Sign in control, if the map shows one, belongs to Google.

Method A — a free local forecast

1. Click **Add**.
2. Type a 5-digit US ZIP code and click **Find**.
3. Weather Wizard looks up the town, then the town center. The map does not use the geographic center of the ZIP area.
4. Display name, location, latitude, and longitude fill in. Leave Provider as **open-meteo** and leave Station ID blank.
5. Check **Make default** only when this station should open next time.
6. Click **Add**. Free can save this station until you already have three.

Free

Open-Meteo and the National Weather Service start working from those coordinates. No key is created.

Method B — a personal weather station · Pro

1. Buy or restore Pro first. Free cannot save Weather Underground, Weathercloud, or another keyed provider.
2. Click **Add**, enter the ZIP, and click **Find** so the map and the town name fill in.
3. Change Provider to the source you will read, and enter that source's station or device ID.

4. For Weather Underground, the station ID is the PWS id, such as the id shown on that station's page. It is not the Weathercloud device id.
5. Pan the map if the town center is not the instrument, then click **Use map location**.
6. Click **Add**, then open More → Open Settings and save the matching API key. Chapter 10 lists each source.
7. Click **Refresh**. A header pill with that source's name means it answered.

Pro · one-time Microsoft Store purchase

Pro allows 20 saved stations. The fourth station on a Free install is refused, and the status line says Free keeps three.

Fields

Field	What to enter
ZIP code	United States ZIP. Find resolves the nearest town.
Display name	The name in the station menu. Find fills the town name when this box is empty.
Location	Town, state, and country from the lookup. You can edit it.
Provider	open-meteo for Free. A Pro provider name when this station is read from that source.
Station ID	The provider's station identifier. Leave blank for a point forecast.
Latitude / Longitude	Filled from the town center, or from Use map location.
Make default	Opens this station the next time the app starts.

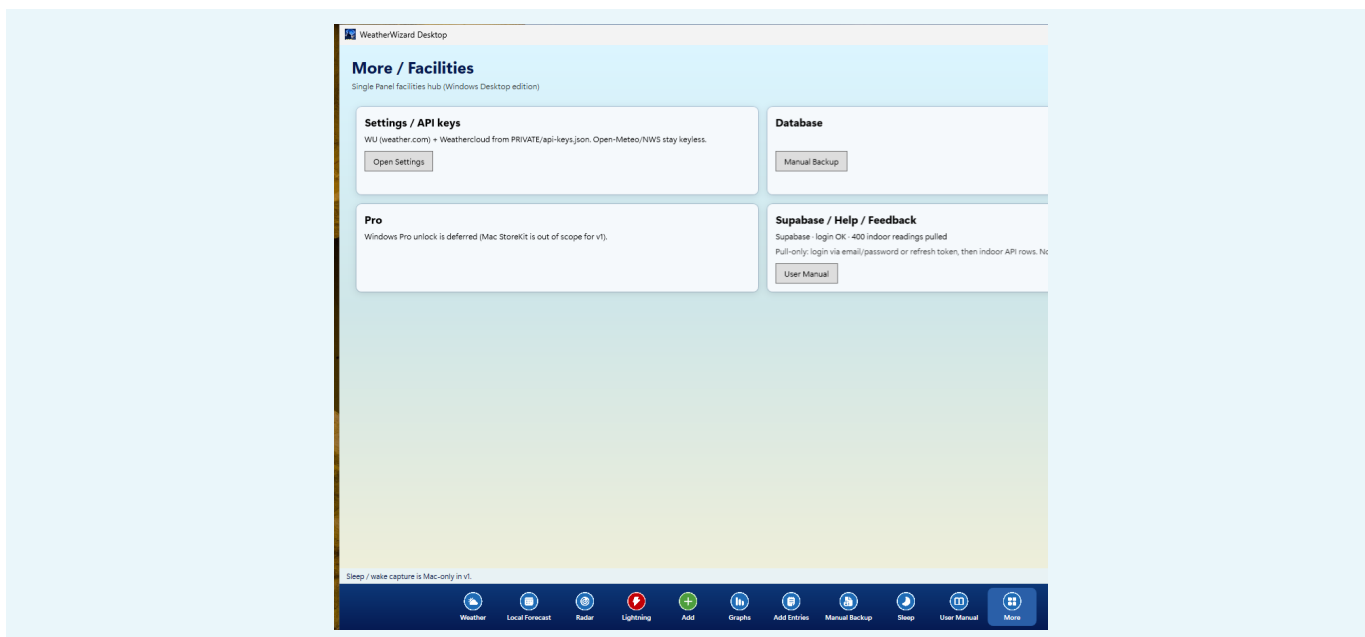
How history is created

- The first successful refresh stores the current reading in the local database.
- Later refreshes, about every five minutes while the app is open, add more samples.
- The Today trend draws those samples. It cannot show hours from before the station was saved.
- Week, Month, and Year need both Pro and enough saved samples to fill the range.
- Closing the app pauses collection. Opening it again continues from the next refresh.

Find resolves a 5-digit ZIP to the nearest town and centers the map on that town, not on a coordinate taken from the middle of the ZIP area.

9. More, settings, and API keys

Click More. The facilities page replaces the console until you click Weather again.



Settings, backup, Pro, and Supabase. Get Pro and Restore are on the Pro card. Open Settings is the only place this window edits keys.

The four cards

- **Settings / API keys** opens the key dialog.
- **Database** shows the database path and can run the same backup as the command bar.
- **Pro** shows whether Pro is active and offers **Get Pro** and **Restore**.
- **Supabase / Help** shows whether the indoor pull succeeded, and opens this manual from the command bar as well.

Which key file is used

On startup the app reads the first api-keys.json it finds, in this order:

1. The file beside WeatherWizardDesktop.exe.
2. The file in your local AppData folder: WeatherWizardDesktop\api-keys.json.

The Settings dialog

Settings shows three boxes: Weather Underground, OpenWeather, and AirNow. **Close** leaves the file alone. **Save** writes those three values into the AppData key file. That file is the key source on the next launch. Do not save an empty form over keys you still need.

Free

You can open Settings on Free. Saving a Weather Underground, OpenWeather, or AirNow key does not unlock those sources until Pro is active.

Keys stay out of this manual

Never email a key, and do not put one in a screenshot you share. Open-Meteo and the National Weather Service do not need keys.

10. Outside weather sources

Weather Wizard combines the saved station with public and customer-configured sources. Data can be delayed, unavailable, or corrected after the fact. It is informational and not a safety service.

Source	Edition	Used for	What you create
Open-Meteo	Free	Current conditions, clouds, the daily table, and the trend.	Nothing. Coordinates come from the station.
National Weather Service	Free	WX, EMR, and AMBER cards, plus the radar site.	Nothing. No Weather Wizard key.
Weather Underground	Pro	Station observations when a station id and key are both present.	Your own PWS id and API key.
Weathercloud	Pro	Device observations when a device id is in the key file.	The device id stays in the key file. Settings cannot edit it.
AirNow	Pro	Current United States AQI on the limit chip.	Your own AirNow key.
OpenWeather	Pro	Lightning count, latest strike, and today's total.	Your own key at openweathermap.org.
weather.com	Free to view	The 10-day page opened from Local Forecast.	Nothing stored. The browser opens the page.
Google Maps	Free	The road map in Add.	No sign-in required to center the town.
Supabase	Pro	Indoor temperature and humidity, pull only.	Your own project URL and a login already in the key file.

Free source setup — National Weather Service

1. Save a station with Method A in chapter 8, or keep the station from first launch.
2. Click **Refresh**.
3. Read the WX, EMR, and AMBER cards. A quiet card means that feed had no message of that kind.
4. Click **Radar** and confirm the radar site address matches the region you expect.

National Weather Service

Official United States warnings, the radar site, and the WX, EMR, and AMBER cards. No Weather Wizard account. Address: <https://www.weather.gov/>. BigSkyAstro cannot control what this site does with information you give it, or how it uses cookies. Limit cookie storage in your browser before you create an account or sign in.

Free source setup — Open-Meteo

1. Use the same station coordinates. Provider stays **open-meteo**.
2. Click **Refresh** and wait for Last Updated to change.
3. Confirm temperature, humidity, cloud cover, and the Today trend.
4. Click **Local Forecast** and read the daily table.

Open-Meteo

Current conditions, cloud cover, the daily forecast table, and samples for the console trend. No account. Address: <https://open-meteo.com/>. BigSkyAstro cannot control what this site does with information you give it, or how it uses cookies. Limit cookie storage in your browser before you create an account or sign in.

Pro source setup — Weather Underground

1. Confirm Pro is active.
2. On the station, set Provider and Station ID to your PWS id.
3. Open **More** → **Open Settings**, paste the Weather Underground key you are allowed to use, and click **Save**.
4. Click **Refresh**. A Weather Underground pill means that source answered.

Weather Underground

Personal-station observations when a station id and your own API key are both saved. Pro. Address: <https://www.wunderground.com/>. BigSkyAstro cannot control what this site does with information you give it, or how it uses cookies. Limit cookie storage in your browser before you create an account or sign in.

Pro source setup — Weathercloud

Weathercloud uses the device id already stored in the key file, under weatherCloudDeviceId. Settings cannot edit it. Station ID on Add is the Weather Underground station id, not the Weathercloud device. A header pill that says Weathercloud means that device answered on the last refresh. The device page is separate from the Weather Underground station id.

Weathercloud

Device observations for a station that uploads to Weathercloud. Pro. The device id stays in the key file. Address: <https://app.weathercloud.net/>. BigSkyAstro cannot control what this site does with information you give it, or how it uses cookies. Limit cookie storage in your browser before you create an account or sign in.

Pro source setup — OpenWeather lightning

1. Create a key at openweathermap.org on a plan that includes the lightning product you expect.
2. Wait until that provider says the key is active. A brand-new key can fail for a while.
3. More → Open Settings → paste it into **OpenWeather** → **Save**.
4. Click **Refresh**, then read the lightning card. Widen the station range if the count stays empty in a storm you can confirm another way.

OpenWeather

Lightning count, latest strike, and today's total. Your key must be on a plan that includes that product. Pro. Address: <https://openweathermap.org/>. BigSkyAstro cannot control what this site does with information you give it, or how it uses cookies. Limit cookie storage in your browser before you create an account or sign in.

Pro source setup — AirNow

1. Request a key from [AirNow](https://airnow.org).
2. More → Open Settings → paste it into **AirNow** → **Save**.
3. Click **Refresh**. The AQI chip shows a number and a category when a monitor answers within range.

AirNow

Current United States air-quality index for the limit chip. A station outside that network can still show a dash. Pro. Address: <https://docs.airnowapi.org/>. BigSkyAstro cannot control what this site does with information you give it, or how it uses cookies. Limit cookie storage in your browser before you create an account or sign in.

weather.com

The browser page opened from Local Forecast. Weather Wizard does not store a weather.com login. Address: <https://weather.com/>. BigSkyAstro cannot control what this site does with information you give it, or how it uses cookies. Limit cookie storage in your browser before you create an account or sign in.

Google Maps

The road map inside Add. You can center the town without a Google sign-in. Address: <https://maps.google.com/>. BigSkyAstro cannot control what this site does with information you give it, or how it uses cookies. Limit cookie storage in your browser before you create an account or sign in.

Do not Save an empty form

Empty boxes do not mean the running app has no keys. Save writes a new AppData key file, and that file is used before an older private key file on the next launch. If the boxes are empty and the console is already updating, click Close.

Ambient Weather and WeatherBug are not called by this edition. Local Forecast opens its own table. Radar opens the National Weather Service loop when a radar site is known.

11. Supabase indoor readings

Supabase on Windows is an optional Pro pull. The app can sign in and download indoor rows. It does not upload the outdoor console.

Pro · one-time Microsoft Store purchase

Free does not call Supabase. Buy Pro, then confirm the key file already has the project URL and a login.

What a successful pull looks like

- The Supabase pill in the header is present when the client is configured.
- More reports a status such as login OK and how many indoor readings were pulled.
- Those indoor readings fill the Indoor box on the detail row.
- Login uses the URL and either an email and password or a refresh token already stored in the key file.
- There is no push, no account-creation screen, and no button that writes weather back to Supabase.

Creating the supporting project

1. Use a Supabase project you control. Weather Wizard does not host a shared database for every customer.
2. Put the project URL and the login the app should use into the key file. Do not put a service-role key in the app.
3. Open the console with Pro active and click **Refresh**.
4. Read More. Login failed means those key-file values need to be corrected. This manual does not collect them.

Pull does not replace a backup

A Supabase pull fills indoor numbers. It does not restore your Windows station list. Keep the local backup in chapter 12 before you delete the app or the database.

12. Backup, history, and the local database

Readings and stations are kept in a SQLite file on this PC. Manual Backup copies that file. Nothing is uploaded with the copy.

Where the database lives

The file is WeatherWizardDesktop.sqlite3 inside the WeatherWizardDesktop folder in your local AppData directory. More shows the full path. That is the file to copy if you are moving the console to another Windows user account on the same PC.

What gets stored

- Saved stations, including coordinates, provider, station id, and limit thresholds.
- Readings captured while the app is open and a refresh succeeds.
- The first-launch record: privacy accepted, disclaimer accepted, and the ZIP code.
- API keys are not inside the SQLite file. They stay in api-keys.json.

Manual Backup

1. Setup can save the first copy when you leave the backup box on. Later, click **Manual Backup** on the command bar, or the same button on the More page.
2. The app creates WeatherWizardDesktop-Backups in your Documents folder if needed.
3. It copies the database to a file named with the date and time.
4. A status line shows the full path. The line stays until the next successful refresh.

Make a backup when the console is idle if you need a copy you will restore later. Restoring means replacing the live database with that copy while the app is closed.

Moving to another PC

1. On the old PC, run Manual Backup and copy that file, plus api-keys.json if you use keys.
2. On the new PC, install Weather Wizard from the Microsoft Store and sign in with the same Microsoft account.
3. Open **More** → **Restore** so Pro follows the account. Restore does not copy the database.
4. Close the app, put the database file in the new AppData WeatherWizardDesktop folder, and put the key file beside it.
5. Open the app, confirm the station menu, and click **Refresh**.

Sleep

Sleep does not put the PC to sleep and does not capture a wake-up reading. The status line says that capture is not in this version.

13. Troubleshooting

Start with Refresh and the edition badge. Most empty numbers are a source that did not answer, or a Pro tool opened on Free.

First launch and the console

What you see	Likely cause	What to try
Setup will not continue	Privacy or disclaimer is unchecked, or the ZIP is not 5 digits	Accept both boxes. Enter a 5-digit US ZIP.
Last Updated does not change	The network pass is still running, or it failed	Click Refresh and wait up to half a minute. Read the status line.
Numbers are dashes	That source did not return a value	A dash is unavailable, not zero. Confirm the source pill and chapter 10.
The window is the old station	Another station is selected	Use the station menu in the header. Make default only changes the next launch.

Free and Pro

What you see	Likely cause	What to try
Get Pro says this copy is not the Store package	The exe was not installed from the Microsoft Store	Install the Store package. An unpackaged copy stays Free.
Restore finds no Pro purchase	Different Microsoft account, or the add-on is not owned	Sign in with the buying account and click Restore again.
A code is requested	That prompt is not from this app	Ignore it. This edition has no activation codes.
Fourth station is refused	Free keeps three stations	Remove one, or buy Pro for up to 20.
Week, Month, or Year will not select	Those ranges are Pro	Stay on 12 hr or Today, or unlock Pro.

Stations, radar, forecast, and graphs

What you see	Likely cause	What to try
Add does not move the map	Find has not resolved a town	Enter five ZIP digits and click Find.
Personal station will not save	That provider is Pro	Choose open-meteo, or unlock Pro first.
Forecast table looks like last week	The request includes recent days	Read the dates. Future days are in the same table.
Radar window is blank	The weather.gov image did not load	Click Reload. Confirm the network.

What you see	Likely cause	What to try
Graphs will not open	The hour list is Pro	Use the console trend on Free, or unlock Pro.
Today trend is almost empty	History starts at the first successful refresh	Leave the app open. It samples about every five minutes.

Keys, lightning, AQI, and indoor

What you see	Likely cause	What to try
Settings boxes are empty	Keys may live in another file	Click Close. Do not Save an empty form.
Saved a key and nothing changed	Pro is off, or the key is not active yet	Confirm PRO, wait for a new OpenWeather key, then Refresh.
Lightning shows no strikes	No nearby strikes, key or plan, or range	Widen the range. Confirm the OpenWeather key. A dash is not all-clear.
AQI is a dash	No AirNow key, no nearby monitor, or not Pro	Save an AirNow key after Pro is active. AirNow is a US service.
Indoor stays blank	Supabase is Pro and pull-only	Read the More status. Login failed means the key file needs correction.
User Manual asks which app to use	Windows has no default PDF app	Choose Edge or another PDF reader.

If you reinstalled or got a new PC

1. Install Weather Wizard from the Microsoft Store and finish the six setup steps.
2. Open **More** → **Restore** with the same Microsoft account that bought Pro.
3. Re-enter provider API keys. The Store restore does not bring them back.
4. Copy the database backup and the key file as described in chapter 12, or create the station again with chapter 8.
5. Click **Refresh** and confirm Last Updated and the source pills before you rely on the console.

Sending a useful report

Write to privacy@bigskyastro.com, or use the Weather Wizard feedback page at bigskyastro.com/feedback/weather-wizard.html. BigSkyAstro answers as fast as possible. BigSkyAstro will never ask for your user identification, your name, or your location in that message. If a voice call is the only way to finish the help, the call asks for a first name and a phone number, and that information is kept only until the issue is resolved.

Include a detailed list of what is going wrong. Cover each item that applies:

- Windows version, and whether the edition badge says FREE or PRO.
- The exact thing you clicked, what you expected, and what you saw instead.
- Whether it happens on one station or on every station.
- The Last Updated time and the status line, copied as they appear.
- Which source pills are showing, and which one you expected.
- The provider name and a masked station identifier. Hide most of the id.
- Whether Refresh changed anything, and about how long you waited.
- A screenshot only if it contains no API key, password, full name, or home address.
- Never include passwords, API keys, or a Supabase service-role key.

Still stuck?

Re-read the chapter for that feature, then this guide. Chapter 16 lists topics by chapter number. Chapter 10 lists each outside source and the setup steps. Write privacy@bigskyastro.com with the list above. The reply comes as fast as possible.

14. Privacy and safety

Weather Wizard Desktop stores its database, backups, and optional key file on your PC. It does not include an account with BigSkyAstro. The Microsoft account is used only for the Store purchase. BigSkyAstro will never ask for your user identification, your name, or your location.

What leaves the PC

- Weather requests go to the sources in chapter 10. Those services see the station coordinates or station id needed for the request.
- AirNow and OpenWeather requests include your key only when one is saved. The key is not written into this manual or the status line.
- Supabase requests go to the project URL saved in your key file, and only to pull indoor rows. That pull is Pro.
- Google Maps loads inside the Add window. You can center the road map without a Google sign-in.
- Local Forecast can open weather.com in your browser. That page is outside the app.
- Get Pro and Restore talk to the Microsoft Store. They send the purchase request, not your weather database.

What BigSkyAstro will not ask for

A support message does not need your name, a user id, or your location. If the only way to finish the help is a voice call, BigSkyAstro asks for a first name and a phone number. That information is stored only until the issue is resolved, then it is not kept.

What stays on the PC

- The SQLite database in local AppData.
- Backup copies in Documents\WeatherWizardDesktop-Backups.
- The key file, if you save one from Settings.
- The first-launch ZIP code and the privacy and disclaimer acceptance.

Safety limits you should understand

- This app is not a warning system. Use official National Weather Service warnings and local emergency instructions.
- Missing weather or lightning data is not an all-clear result.
- The five-minute refresh is not continuous monitoring. Samples stop when the app is closed.
- Personal weather stations are consumer instruments. Siting, calibration, and maintenance affect the readings.
- A dash means unavailable. Do not read it as a measured zero.
- When you can hear thunder, go indoors. No app replaces that rule.

Privacy: bigskyastro.com/privacy. Alerts: weather.gov.

15. Support and what this edition does not include

Use this chapter to decide whether a missing button is a Windows limit or a problem to report.

You may be looking for	On Windows
Activation code or 30-day trial	No. Free has no time limit. Pro is the Store purchase.
CSV or PDF export of the graph	Not in this edition. The database backup is the copy you can keep.
Add Entries	The button keeps the weather page. It is not a separate log yet.
Sleep / wake capture	Not in this version. The Sleep button says so.
Ambient Weather or WeatherBug	Not called.
Pushing the outdoor console to Supabase	No. Indoor pull only, and only with Pro.

What to include if you write

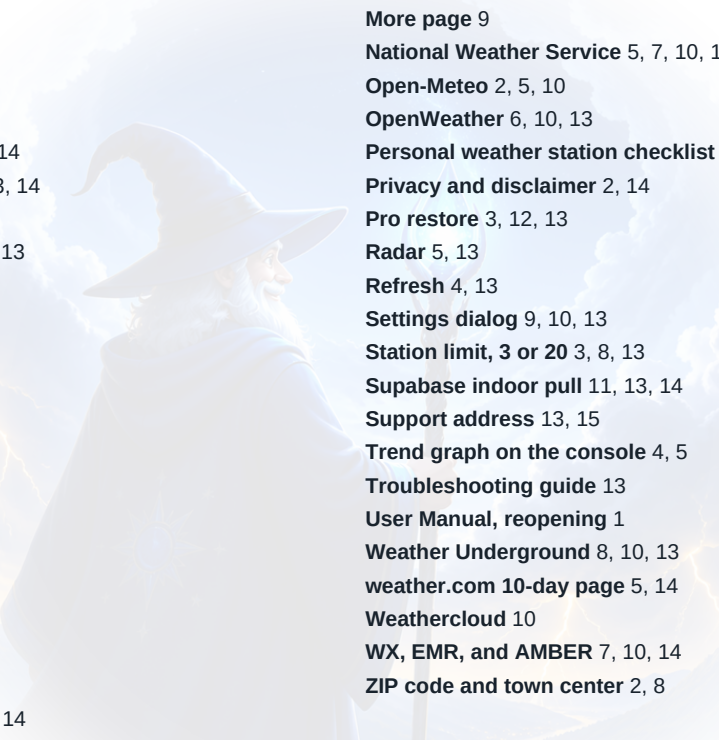
Include the detailed list in chapter 13: Windows version, FREE or PRO, what you clicked, what you expected, the status line, Last Updated, and the source pills. Do not include API keys, passwords, your full name, or your location. Write privacy@bigskyastro.com or [the Weather Wizard feedback page](#). BigSkyAstro answers as fast as possible. A voice call, if one is needed, asks only for a first name and a phone number, kept only until the issue is resolved.

Copyright

Copyright 2026 BigSkyAstro. Weather Wizard Desktop is the Windows console. National Weather Service, Open-Meteo, Weather Underground, Weathercloud, OpenWeather, AirNow, Google Maps, weather.com, and Microsoft Store are services of their own operators.

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