

IOWC Offline Site Guide

!! This guide is for macOS.

1. File and database management

[File organization](#)

[Download PostgreSQL](#)

[Set up the database](#)

[Check NPM installation](#)

2. Start the database and site

[Start the database server](#)

[Set up the environment and start the backend](#)

[Set up the frontend](#)

[Properly quitting everything](#)

[What if I typed or copied a wrong command?](#)

To access the historical climate data site offline, we need to install some softwares. After the initial installations, to start the site, see section 2 below.

1. File and database management

File organization

- Download the directory/folder `IOWC_site` from here: https://mcgill-my.sharepoint.com/:u:/g/personal/shih-ching_hsu_mail_mcgill_ca/EU5_hHDwPxRGjyHOqfvnJqQBRr4gaOLvAwnoxAwmMu1bIA?e=DcG88e. This folder contains the data, scripts, API, and frontend. Store this folder in `/Users/username/Sites`.
- Go to `IOWC_site/database_files` and change the permissions of all the files to allow everyone to read and write.
- Go to `IOWC_site/scripts/copy_commands.txt` and change the path to the database files accordingly.
- Go to `IOWC_site/scripts/backend_setup.sh` and change the path accordingly.
- Go to `IOWC_site/scripts/frontend_setup.sh` and change the path accordingly.

Download PostgreSQL

- Go to <https://www.postgresql.org/download/> to download PostgreSQL **version 14** for macOS.
 - Store the software in `/Library`.
 - When prompted for password, use `iowc1234`.
- Open a terminal and run the below commands:
 - If `brew` is not installed, then run these commands first (change the username accordingly):
 - `/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"`
 - `(echo; echo 'eval "$(/opt/homebrew/bin/brew shellenv)"') >> /Users/noddgooding/.zprofile`
 - `eval "$(/opt/homebrew/bin/brew shellenv)"`

- Otherwise, run these:

```
brew update
brew upgrade # optional
brew install postgresql@14
```

Set up the database

- Follow the commands below. `->` means base terminal. `=>` means the Postgres command line.

```
-> psql -U postgres
-> password: iowc1234
=> CREATE DATABASE iowc_historical_climate_data;
=> \quit
-> psql -U postgres -d iowc_historical_climate_data
-> password: iowc1234
=> \i /Users/Sienna/Sites/IOWC_site/scripts/climatedata_script.sql
```

Change the username to your own username.

- Open the file `IOWC_site/scripts/copy_commands.txt` and copy-paste the commands to Postgres command line one by one.
- Quit the server with `\quit`.

Check NPM installation

- Type `npm -v` in a terminal. If NPM is not installed, type `brew install npm`.

2. Start the database and site

Start the database server

- Open a terminal. We call this terminal 1.
- Type in command line:

```
psql -U postgres -d iowc_historical_climate_data
```

- When prompted to enter password, enter `iowc1234`.

Set up the environment and start the backend

- Open a new terminal (Shell → New Window). We call this terminal 2. Keep terminal 1 running.
- Type in the command line:

```
source /Users/Sienna/Sites/IOWC_site/scripts/backend_setup.sh
```

Change the username to your own username.

Set up the frontend

- Open a new terminal (Shell → New Window). We call this terminal 3. Keep terminals 1 and 2 running.
- Type in the command line:

```
source /Users/Sienna/Sites/IOWC_site/scripts/frontend_setup.sh
```

Change the username to your own username.

- On the command line interface, two links should pop up. One link should look like this:

```
http://localhost:3000/
```

Copy this link and paste it in a browser.

- Now the site is up and running!

Properly quitting everything

- Once you're done using the site, we reverse the process by quitting every terminal properly.
- For terminal 3, on the command line, use `ctrl + C`.
- For terminal 2, on the command line, use `ctrl + C`.
- For terminal 1, on the command line, use `\quit`.
- Now you can close all the terminal windows.

What if I typed or copied a wrong command?

- Just type `ctrl + C` then you can restart.