

Marea y Clima
User manual for Android
Version 1.1

How this manual is designed

Follows the actual order of the application: first permissions and alerts, then basic controls, and then each tab from left to right. The sections address specific actions: what to tap, what it means, and how to go back.

Quick index

You do not need to read it from start to finish. Go directly to what you need.

1 · Before you begin

Location permission, precise location, GPS altitude and notifications.

2 · Controls and navigation

Cog, destination, favourites, GPS, refresh, bottom bar and gestures.

3 · Current

Current weather, next few hours, air/allergies and alerts.

4 · Wind

Speed, gusts, direction and coming days.

5 · Sea

Tides, swell, water, bathing and inland.

6 · Sun/Moon

Sunrise, sunset, UV and moon phase.

7 · Forecast

Choose a day, carousels and selected-day summary.

8 · Maps

Radar, satellite, lightning, isobars and ways to go back.

9 · Settings

Language, units, permissions, alerts, sources and privacy.

10 · Home screen widgets

Weather 2x2, Sea and beach 4x2, installation and options.

11 · Weather icons

Weather symbols and rain probability.

12-14 · Quick reference

Data states, acronyms, FAQ and pocket guide.

1. Before you begin

Location permission



Why it helps to grant it

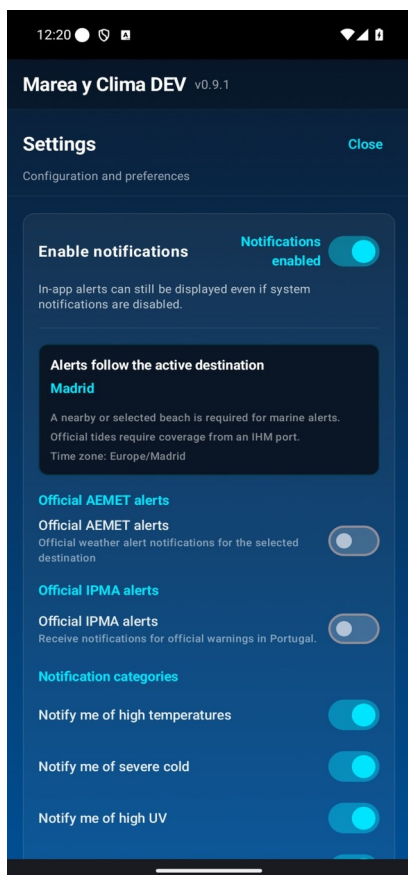
Location enables “My current location”. If Android offers “Precise location”, enabling it is recommended to obtain the most accurate position possible and support reliable GPS altitude when provided by the phone.

Review location permission

1. Tap the cog in the top right corner.
2. In Settings, look for the “Location” section.
3. Tap “Manage location permission”.
4. In Android, grant permission if you want to use GPS and, if prompted, enable “Precise location”.

Important: The app also works without GPS: you can search for any town or beach manually. Altitude depends on the device and may remain “Not available” even when location is precise.

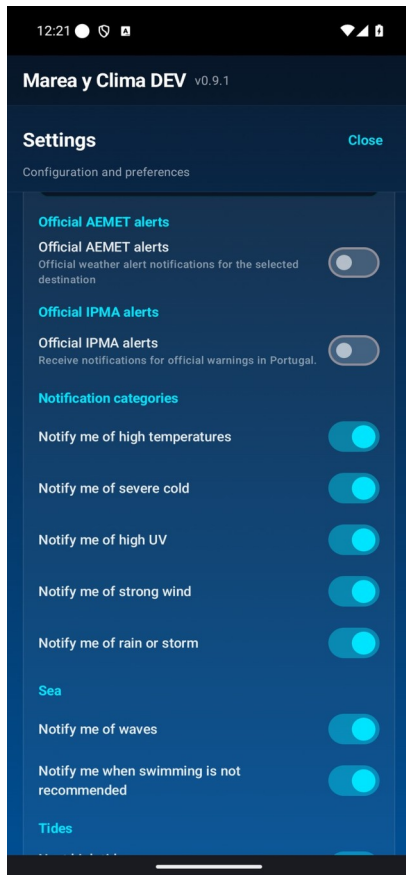
Notifications: set up early if you want alerts



Main switch

Under “Notifications and alerts”, enable “Enable notifications”. If Android requests permission to show alerts outside the app, tap Allow.

Choose which alerts to receive



Categories

You can independently enable or disable official AEMET/IPMA alerts and categories such as heat, cold, UV, wind, rain/storms and sea.

- High- and low-tide alerts, where applicable, have their own settings and advance notice.
- Quiet hours prevent disturbance during your chosen period.

Check alert destination

Before closing the app, check which town or beach appears as the destination for alerts. Notifications are calculated for that location.

2. Header controls

These are the controls you will use most often. They are shown separately so that no icon is covered.



Settings - cog

Opens Settings: language, units, location, notifications, sources and privacy.



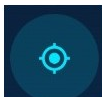
Change destination - name + arrow

Tap the town name or small arrow to open search.



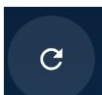
Favourite - star

Adds or removes the current destination from Favourites.



My location - blue target

Uses GPS to load data for your current position.



Refresh - circular arrow

Forces a fresh data request.

You can also pull down to refresh

On the main screens, drag content downwards and release. It is another way to refresh without tapping the circular arrow.

The bottom bar: six sections

CURRENT

Current weather and next few hours.

WIND

Detailed wind.

SEA

Tides and sea conditions.

SUN/MOON

Sun, UV and Moon.

FORECAST

Future days and daily summary.

MAPS

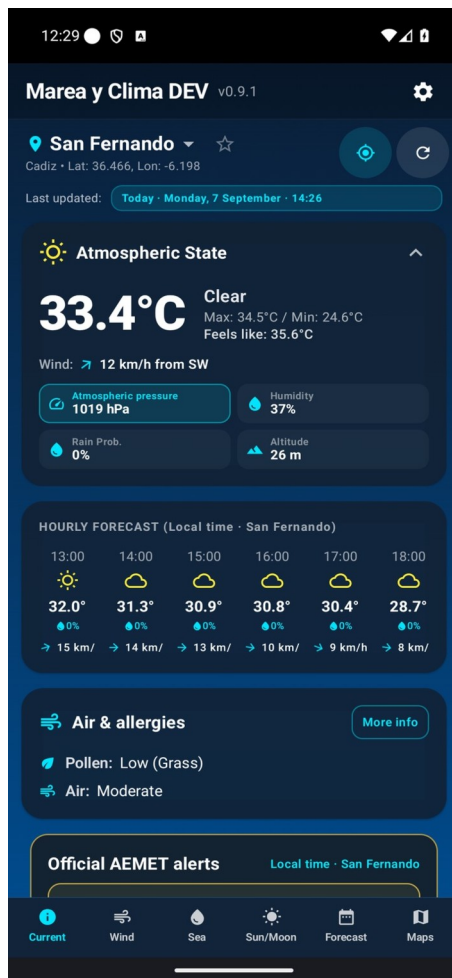
Radar, satellite, lightning and isobars.

Horizontal swipes and carousels

Mind your gestures

Some cards are horizontal carousels: upcoming hours, Forecast days or timelines. Swiping over them moves the carousel. To switch tabs reliably, tap the bottom bar directly.

3. CURRENT



Quick glance

This screen answers “what is the weather like now?” and “what is expected over the next few hours?”.

What information is shown

- Current, maximum and minimum temperature.
- Feels-like temperature and sky condition.
- Wind.
- Pressure, humidity and rain.
- GPS altitude, when the device provides reliable data.
- Next-hours forecast.
- Air and allergies.
- Alerts when active.

Next-hours forecast

It is a carousel

Swipe within the card to view hours that do not fit on screen. To navigate to Wind or Sea while over this carousel, use the bottom bar.

Air and allergies

The card shows a summary of air quality and pollen. Tap “More info” to see pollutants, pollen and the source of each value.

Official data and estimates can coexist

For example, part of environmental data may come from an official agency and another from an atmospheric estimate. The app labels them clearly so they are not confused.

Refresh Current

You have two options

1. Tap the circular arrow in the header.
2. Or pull down on the screen and release.

4. WIND



Current wind

Shows speed, gusts and direction in greater detail than the Current tab.

- Speed: sustained wind.
- Gust: strongest wind peak.
- Direction: where the wind blows from.
- Hourly trend: how it changes throughout the day.

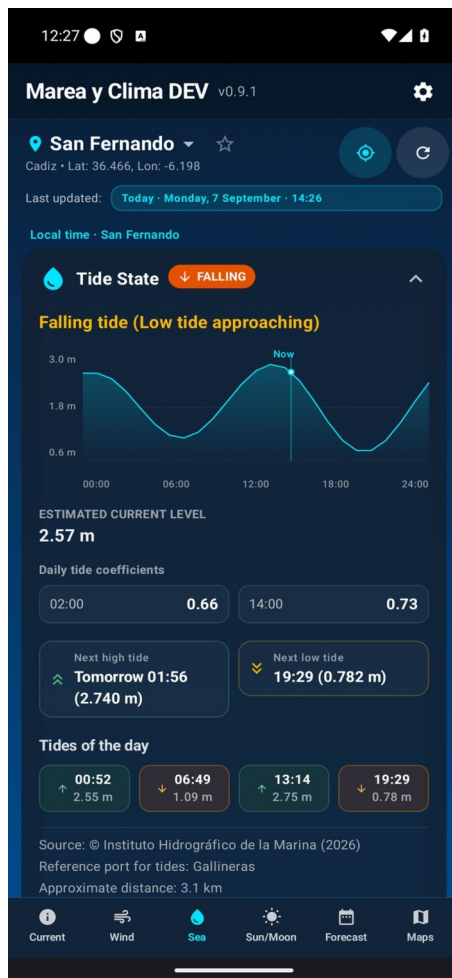


Further down appears the summary for coming days.

Example

“Wind from SW” means it arrives from the south-west. Gusts can be significantly higher than sustained wind.

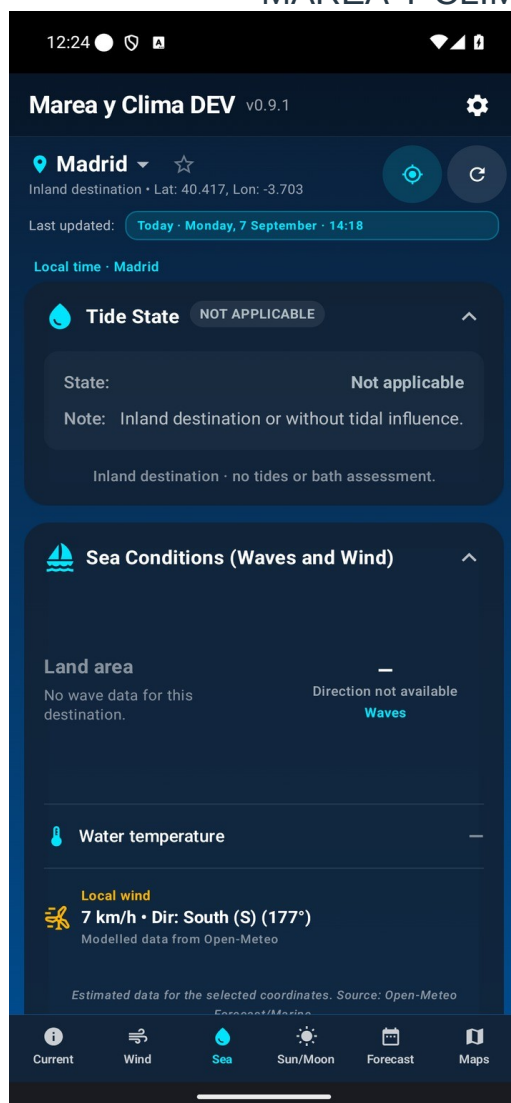
5. SEA



Tides

At coastal spots it shows tide status, next high/low tide, estimated height and chart.

- **RISING:** the water level is heading towards high tide.
- **FALLING:** the water level is heading towards low tide.
- **Current estimated height:** calculated between official events; not an instantaneous sensor reading.
- **Reference port:** official source used for that coastal area.



Further down appear swell, direction, water temperature and wind when data is available.

Swell, water and bathing

Wave height

Significant swell wave height.

Period

Time between wave crests.

Direction

Swell orientation according to the reported value.

Water temperature

Shown when the source has coverage.

Bathing assessment

Advisory summary of favourable conditions, caution or not recommended.

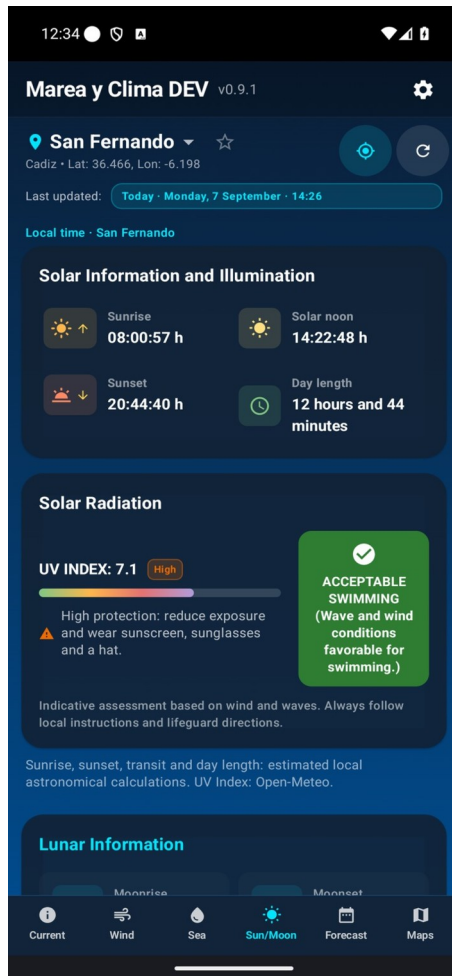
Inland destination

Marine data appears as not applicable or not available.

Safety

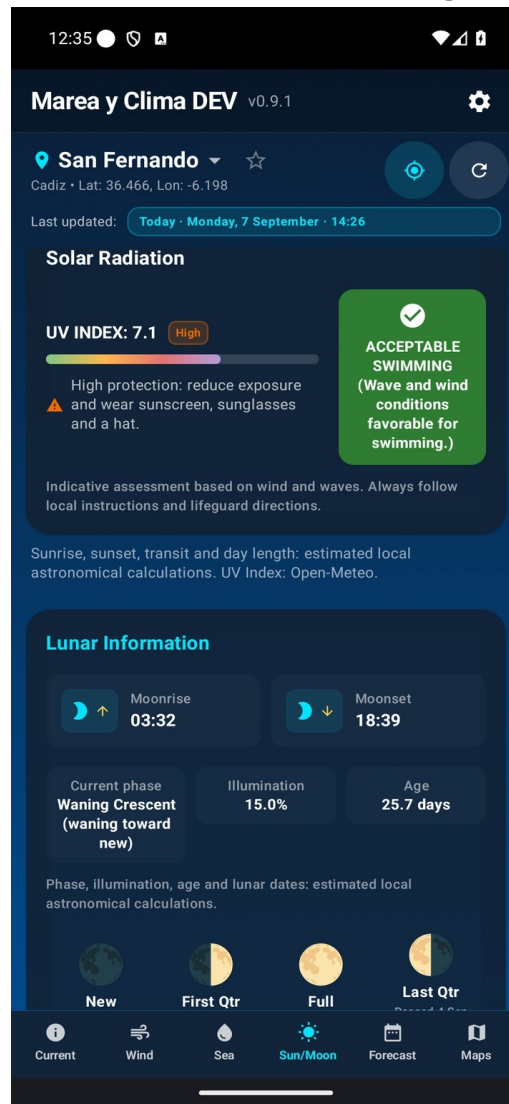
The advisory bathing assessment never replaces beach flags, lifeguards, Civil Protection or authorities. Those instructions always prevail.

6. SUN/MOON



Sun and UV

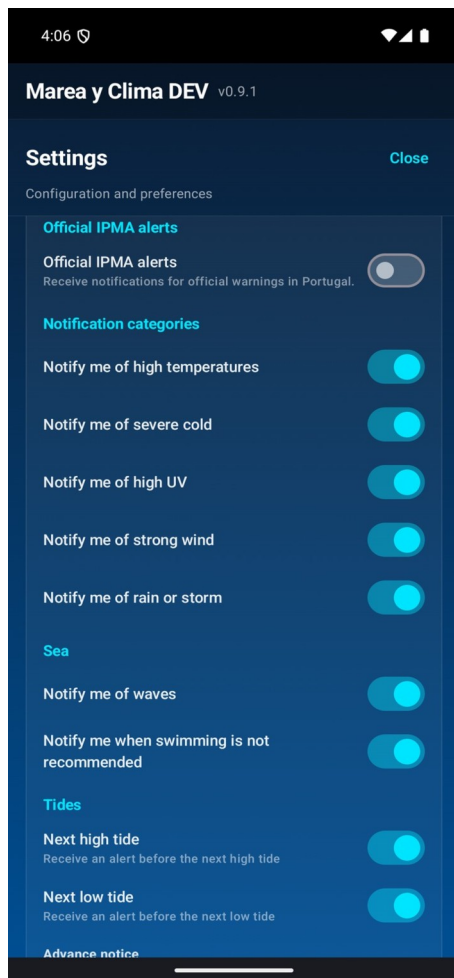
Sunrise, solar noon, sunset, day length and UV index.



The lunar section shows moonrise/moonset, phase, illumination and lunar age.

- Low, Moderate, High, Very high or Extreme UV includes recommendations.
- The moon phase summarises the current point in the cycle.

7. FORECAST



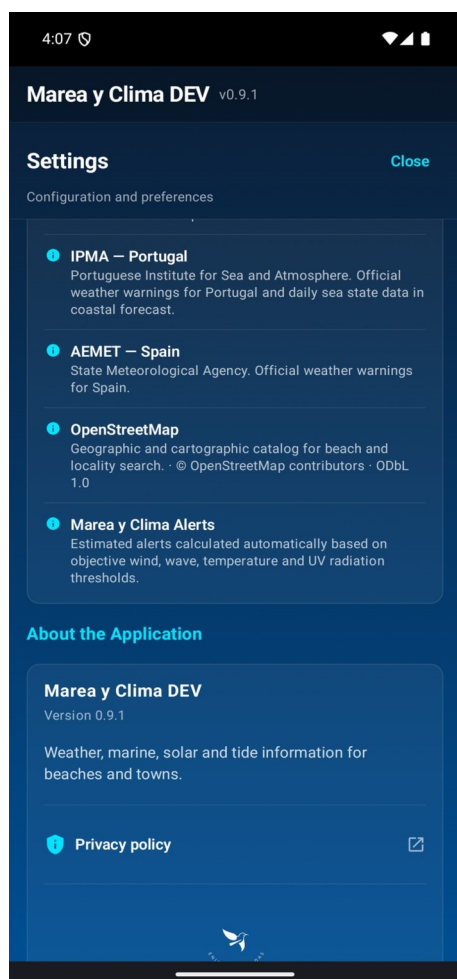
Choose a day

At the top there is a carousel of days. Tap the day you wish to check.

Check a specific date

1. Swipe the day carousel if the date is not visible.
2. Tap the day.
3. Review the available hourly trend.
4. Scroll down to the summary of the selected day.

Important: The day carousel uses horizontal gestures. To change tabs while your finger is over it, use the bottom bar.



Selected-day summary

The lower section brings together information from multiple areas for that date, not just temperature and rain.

Sun and Moon

Moon phase, illumination, moonrise and moonset when available.

Bathing and sea

Bathing conditions, swell and coastal reference when applicable.

UV

Sun protection and UV index.

Air

Air quality for that date when the source provides a forecast.

Pollen

Pollen level when forecast data is available.

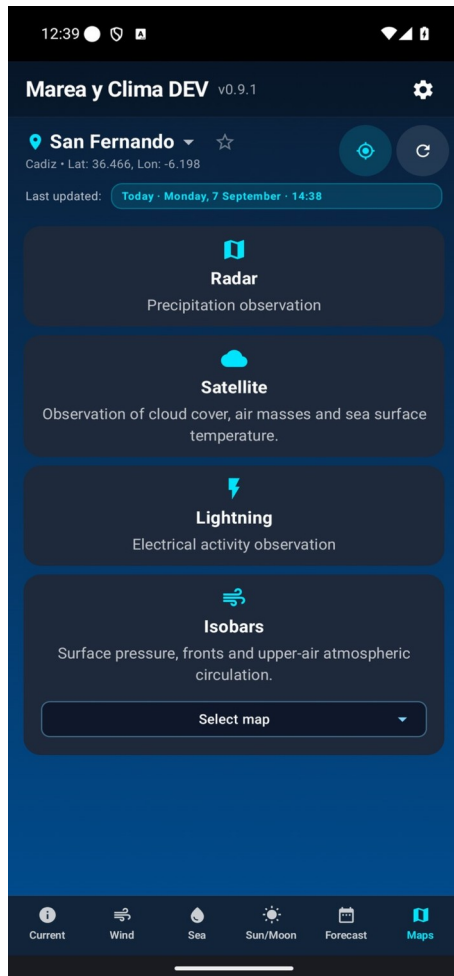
Weather data

Daily and hourly weather details appear in the upper blocks.

Not all data reaches equally far ahead

Sources have different forecast horizons. It is normal for a value to appear for tomorrow but not for later dates. The app shows “Not available” instead of inventing figures.

8. MAPS



Maps menu

Choose the product matching what you want to inspect.

Radar

Where precipitation is detected.

Satellite

Cloud cover and satellite products.

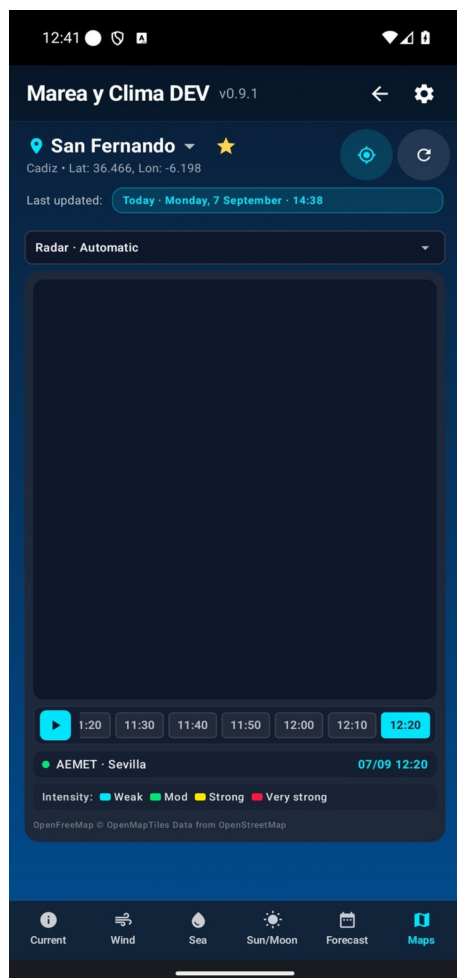
Lightning

Recent electrical activity.

Isobars

Pressure, fronts and atmospheric circulation.

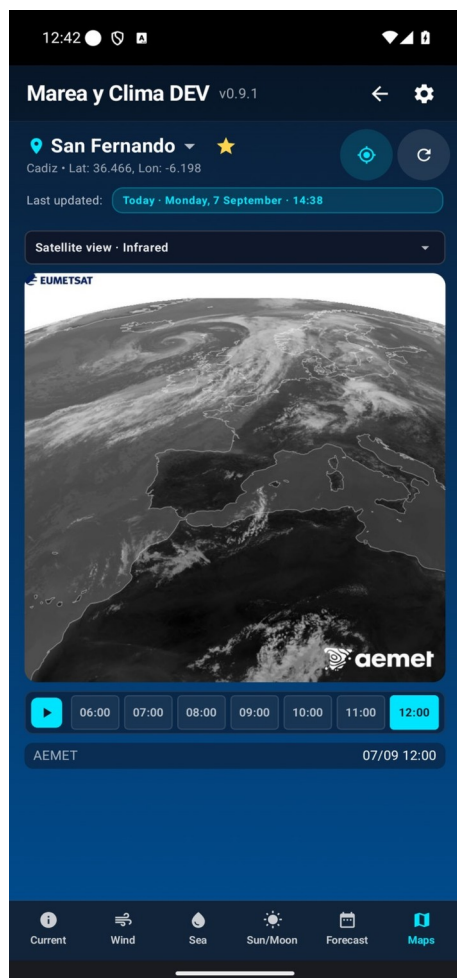
Radar



How to use it

Choose an area or radar, pan the map, and use the timeline and Play/Pause when available.

Satellite



How to use it

Switch products and hours. The Visible channel needs sunlight; use Infrared at night to see cloud cover.

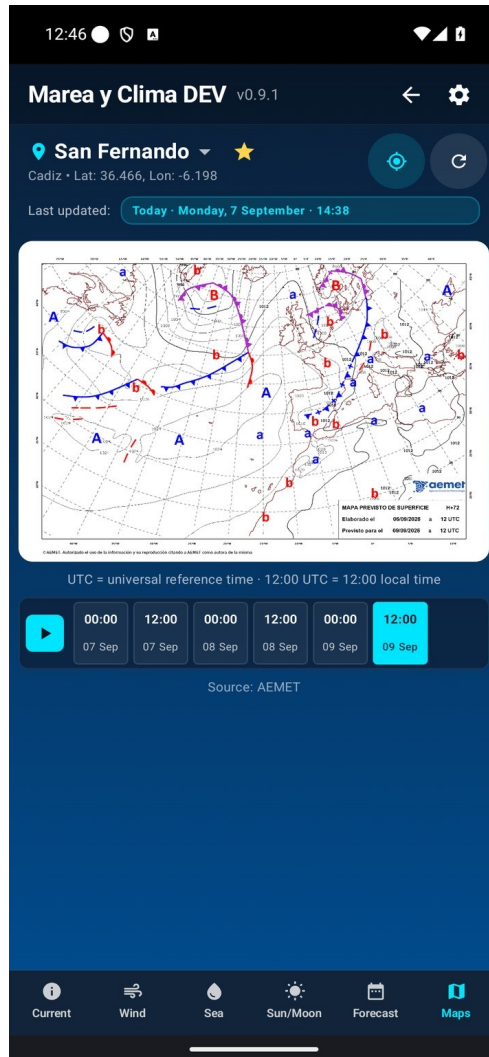
Lightning



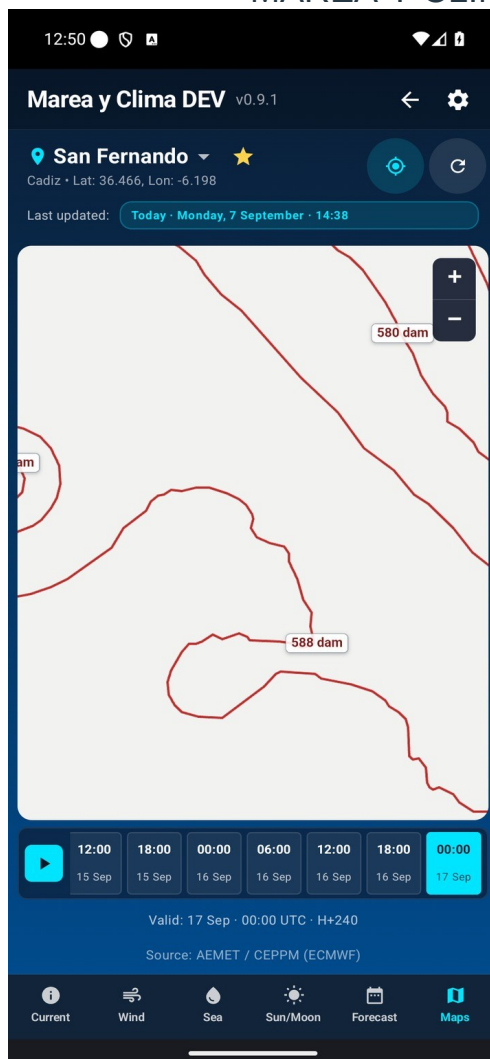
Electrical activity

Select the region and scrub through the timeline.
Colours may indicate stroke polarity.

Isobars and 500 hPa



Isobar chart: highs, lows and fronts.



500 hPa: atmospheric circulation aloft; this is a more technical view.

How to go back from a map

You have several options

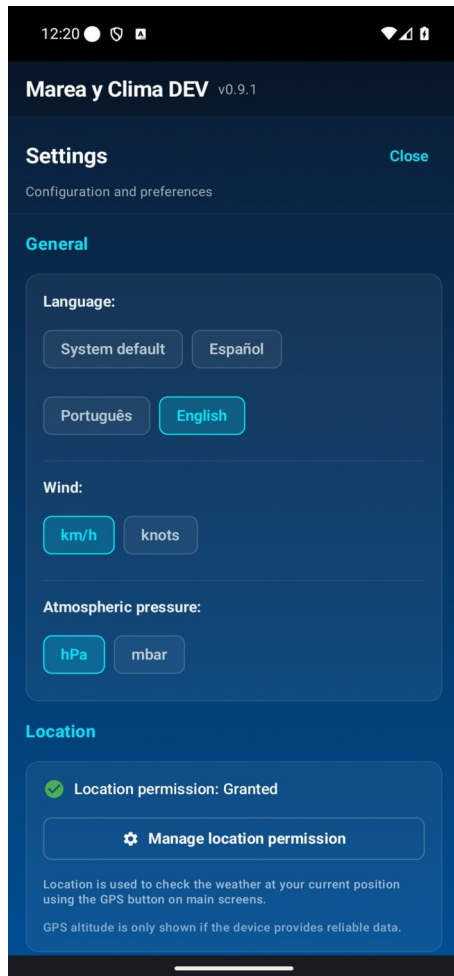
1. Tap the top Back arrow in the viewer.
2. Or tap “Maps” again in the bottom bar.
3. Or use Android's Back button or gesture.

Important: These options take you back to the main Radar, Satellite, Lightning and Isobars menu.

Gestures inside Maps

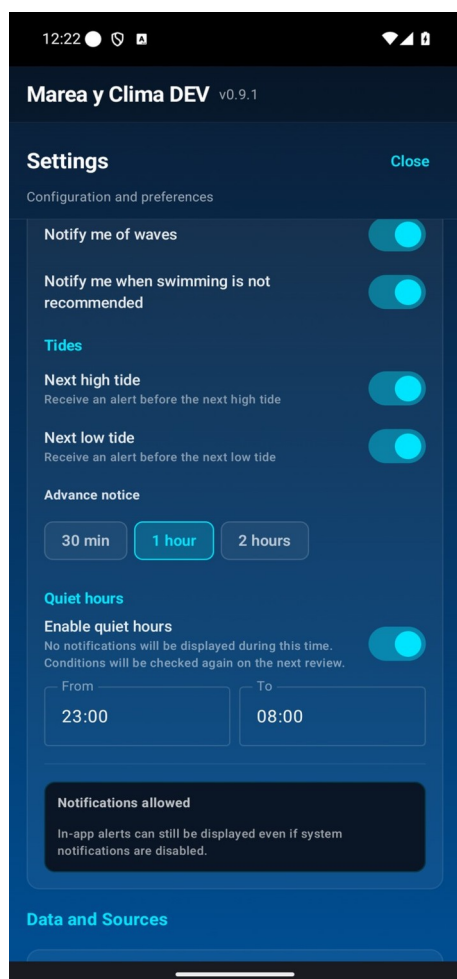
Dragging over the map pans the map. Dragging a timeline scrubs the timeline. To switch section, tap the bottom bar.

9. SETTINGS



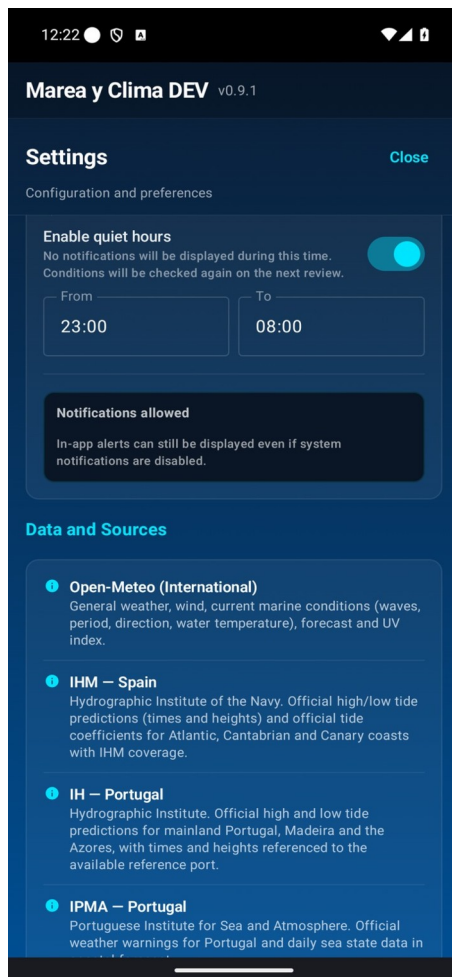
General and location

Language, units and location permissions.



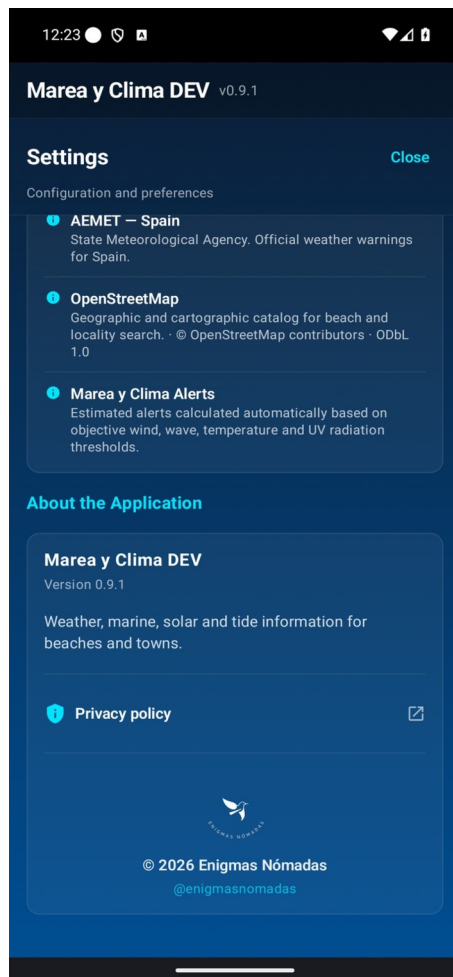
Notifications

Official alerts, categories, tides and quiet hours.



Data and sources

Explains the providers and public bodies used by the app.



About

Version, privacy, description and credits.

10. Home screen widgets

Check weather and coastal conditions directly from your Android home screen.



Home screen widgets: Weather (2x2) and Sea and beach (4x2).

Weather (2x2)

Shows the phone's current clock time, destination, sky condition with icon, current temperature, and forecast maximum (↑) and minimum (↓) temperatures for the day.

Sea and beach (4x2)

Panoramic coastal layout. Weather on the left (temperature, icon and sky description). On the right: high tide (▲) and low tide (▼), trend (↑ Rising / ↓ Falling), official daily tide coefficients (00h and 12h) or amplitude, and sustained wind with direction.

How to add a widget

1. Touch and hold an empty space on your Android home screen.
2. Select “Widgets” from the pop-up menu.
3. Find “Marea y Clima” in the applications list.
4. Choose “Weather (2x2)” or “Sea and beach (4x2)” and add it to your home screen (drag it or tap it depending on your launcher).
5. On the setup screen that opens automatically, select “My location” or “Fixed location”, choose appearance (“Normal” or “Transparent”) and tap “Save” to confirm.

Steps may vary slightly depending on the phone manufacturer and Android version.

Location ()

In widget settings you can choose between “My location” (uses GPS or last known position if permission was granted) or “Fixed location” (interactive search to permanently pin any beach or town).

Appearance ()

Switch between “Normal” style (solid dark marine card) and “Transparent” (translucent high-contrast background that blends over any launcher wallpaper).

Marine data and limitations

The 4x2 widget focuses on official tides and wind: it does not display water temperature or bathing assessment (both available in the app's Sea section). For inland destinations or coastal spots without an associated official tide gauge, it clearly displays “No tides (inland area)” or “No tide data”, keeping wind and weather forecasts visible.

Multiple instances

You can place as many widgets as you need on your home screen, combining 2x2 and 4x2 sizes. Each instance has its own unique identifier and independent configuration (different beaches, cities or styles).

Updating and controls

Automatic updates are managed in the background (~60 min approximate and opportunistic cadence, subject to Android battery optimizations). The header time is the phone's current clock time. Tap ↻ for immediate manual refresh, or tap the widget body to open the app.

11. Weather icons

Icons summarise the forecast sky condition or weather phenomenon. They help identify conditions at a glance.

Iconos meteorológicos: lectura rápida



Despejado

Cielo despejado o casi despejado.



Parcialmente nublado

Sol y nubes alternándose.



Nublado

Mucha nubosidad o cielo cubierto.



Niebla / bruma

Visibilidad reducida.



Llovizna

Precipitación débil y fina.



Lluvia

Se espera precipitación en forma de lluvia.



Chubascos

Lluvia intermitente, a veces intensa.



Tormenta

Actividad eléctrica y posible lluvia intensa.



Nieve

Precipitación en forma de nieve.



Lluvia y nieve

Precipitación mixta.

Gota azul + % = probabilidad de precipitación para esa hora. Los milímetros (mm) indican cantidad de lluvia.

Probability is not amount

A raindrop with 40% represents a 40% probability of precipitation for that period. Millimetres (mm) indicate the expected rainfall amount, not the probability.

12. Meaning of data states

OFFICIAL

Information published by a public body or official agency.

REAL / OBSERVED

Data successfully retrieved for the current request; not necessarily an instantaneous sensor reading.

MODEL / ESTIMATE

A result calculated by forecast models.

CACHE

The last stored value when a newer one cannot be obtained.

NOT AVAILABLE

No reliable value exists for that location or time.

NOT APPLICABLE

The data is not meaningful for that destination, such as swell inland.

NO COVERAGE

The source does not cover that geographic area or product.

Not available does not mean zero

If no reliable value exists, the app indicates it rather than inventing figures.

Who is who: acronyms and agencies

AEMET

State Meteorological Agency. Spain's official weather service.

IPMA

Portuguese Institute for Sea and Atmosphere. Portugal's official weather and sea agency.

IHM

Navy Hydrographic Institute. Spain's official tide authority within its coverage.

IH Portugal

Hydrographic Institute of Portugal. Official tide authority for mainland Portugal, Madeira and Azores.

MITECO

Ministry for Ecological Transition. Spain's official air quality authority.

APA / QualAr

Portuguese Environment Agency / QualAr. Portugal's official air quality system.

CAMS

Copernicus Atmosphere Monitoring Service. European atmospheric monitoring and forecast service.

Open-Meteo

Provider of meteorological and marine model forecasts.

OpenStreetMap

Collaborative open mapping project used for geographical support.

13. Frequently asked questions

I am not receiving alerts

Check app notifications, Android permission, alert categories, active destination and quiet hours.

Do I have to use GPS?

No. You can search for towns and beaches manually.

How do I refresh?

Circular arrow or pull down on the screen.

What opens Settings?

The cog icon in the top right corner.

What uses my location?

The blue target in the header.

How do I return from a map?

Top back arrow, tap Maps again or use Android Back.

Swiping does not change tab

You are likely swiping over a carousel. Use the bottom bar.

Why is Sea missing inland?

Because tides and swell do not apply to inland destinations.

Why is further-out data missing?

Sources have different forecast horizons.

Does the bathing assessment replace flags?

No. Beach flags and lifeguards always take priority.

Pocket guide

Change destination

Tap town name or arrow.

Use GPS

Tap blue target.

Favourite

Tap star.

Refresh

Circular arrow or pull down.

Settings

Tap cog.

Enable alerts

Settings > Notifications and alerts.

Switch section

Use bottom bar.

View rain

Maps > Radar.

View clouds

Maps > Satellite.

View tides

Sea.

Check a day

Forecast > choose day > scroll to summary.

Return from a map

Top back arrow, tap Maps again or use Android Back.

Home screen widgets

Touch and hold Android home screen and add Weather (2x2) or Sea and beach (4x2).

Configure and refresh

Tap cog (⚙️) to change destination or style; tap arrow (↺️) to force immediate refresh.

Safety

Marea y Clima is an informational tool. In hazardous situations always follow official alerts, Civil Protection, local authorities and lifeguards.

Screenshots are taken from development versions (up to Android 1.1). Visual appearance may vary slightly, but the described feature remains the same.