LAS OLAS
ESTEPONA

# CLIMATE AND WEATHER AVERAGES THROUGHOUT THE YEAR ESTEPONA SPAIN

# INTRODUCTION

The climate information in this document is the very complete information used to statistically qualify the climate for a full year.

All the information can be consulted on the site:

https://fr.weatherspark.com/y/34117/M%C3%A9t%C3%A9o-medium-%C3%A0-Estepona-Spain-all-year-long%C3%A9e#Temperature-Sections

The observations and diagrams included in this document are taken entirely from this site

The purpose of this information is to help owners who wish to do so to target the most appropriate periods in order to spend pleasant stays in the best climatic conditions.

Naturally, this information is not a prediction but is part of the probabilities resulting from several years of local meteorological records.

I hope that this report can be a decision-making aid for those who are hesitant about the best times to occupy their apartment.

I also remind you that the swimming pool of 'LAS OLAS' is normally open between April 15th and November 1st. Outside this period, the pool will be put on 'standby' and will not be accessible.

These dates may change by decision of the Community of Owners.

# TOPOGRAPHY OF THE SURROUNDINGS

In this report, the geographical coordinates for Estepona are 36.428° latitude, -5.146° longitude and 13 m altitude.

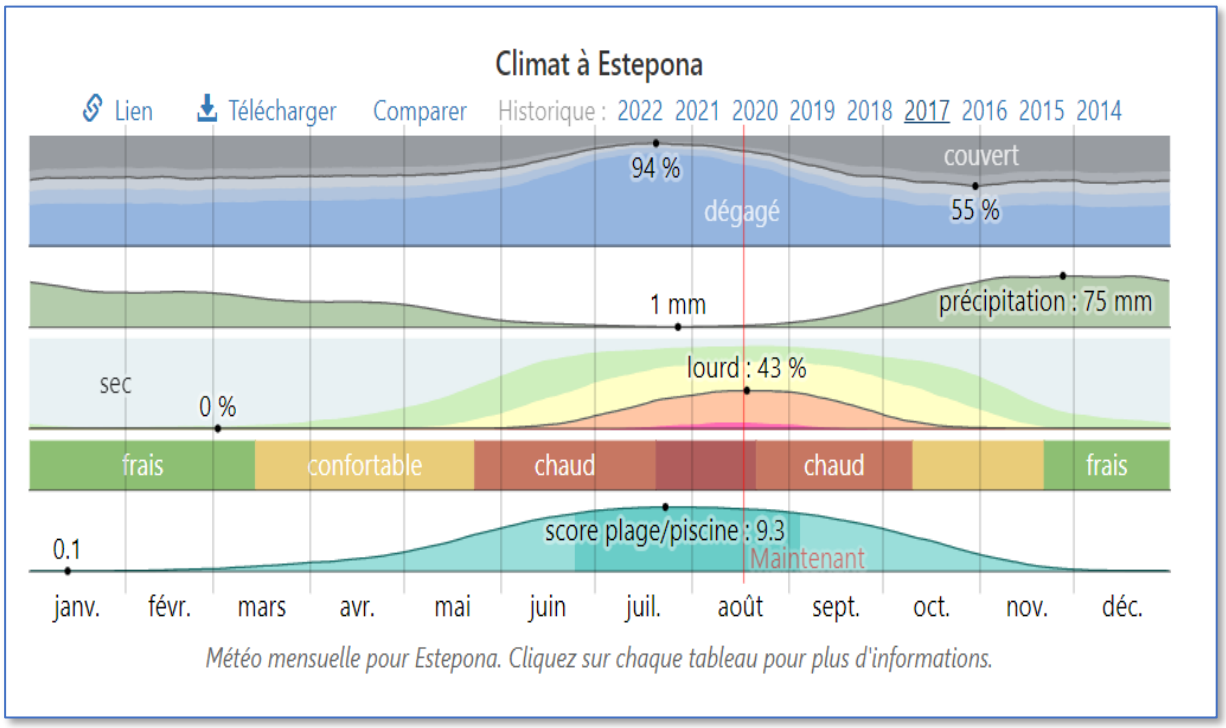
The topography in the 3 kilometers surrounding Estepona shows very significant variations in altitude, with a variation in altitude of up to 265 meters and an average altitude above sea level of 40 meters. Within 16 kilometers, very significant variations in altitude (1,440 meters). Within 80 kilometers, also presents extreme variations in altitude (1,910 meters).

The area within a 3-kilometre radius of Estepona is covered by water (46%),' cultivated land (21%), artificial surfaces (13%) and bushes (12%), within a 16-kilometre radius by water (41%)) and trees. (26%)) and within a radius of 80 kilometres by water (43%)) and cropland (24%).

# CLIMATE AT ESTEPONA

In Estepona, summers are short, hot, arid and clear overall and winters are long, cool, precipitation, windy and partly cloudy. During the year, the temperature generally ranges from *9°C* to *29°C* and is rarely below *5°C* or above *33°C*.

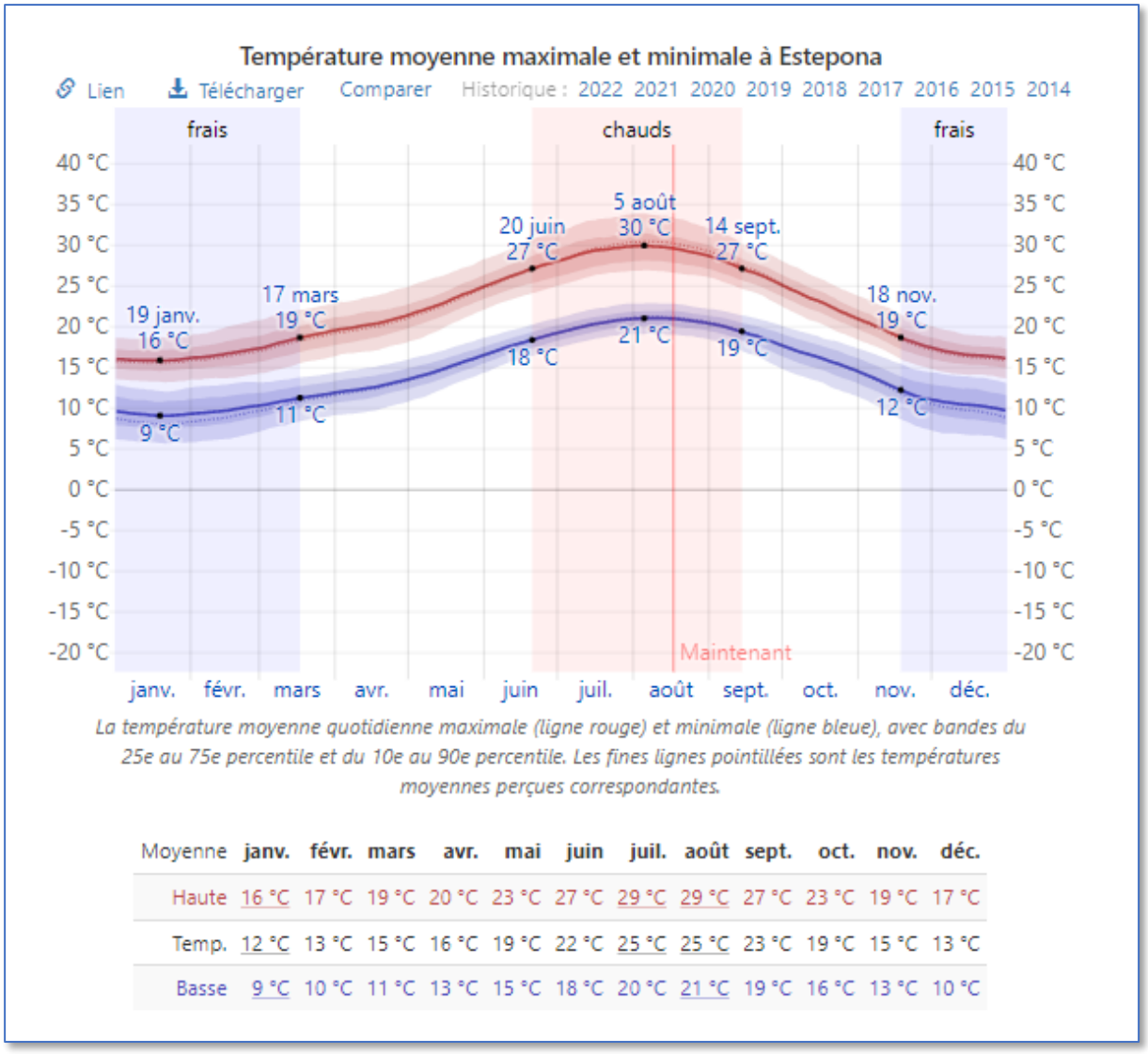
Depending on the beach/pool score, the best time of year to visit Estepona for summer activities is from *late June* to *early September*.



# AVERAGE TEMPERATURE IN ESTEPONA

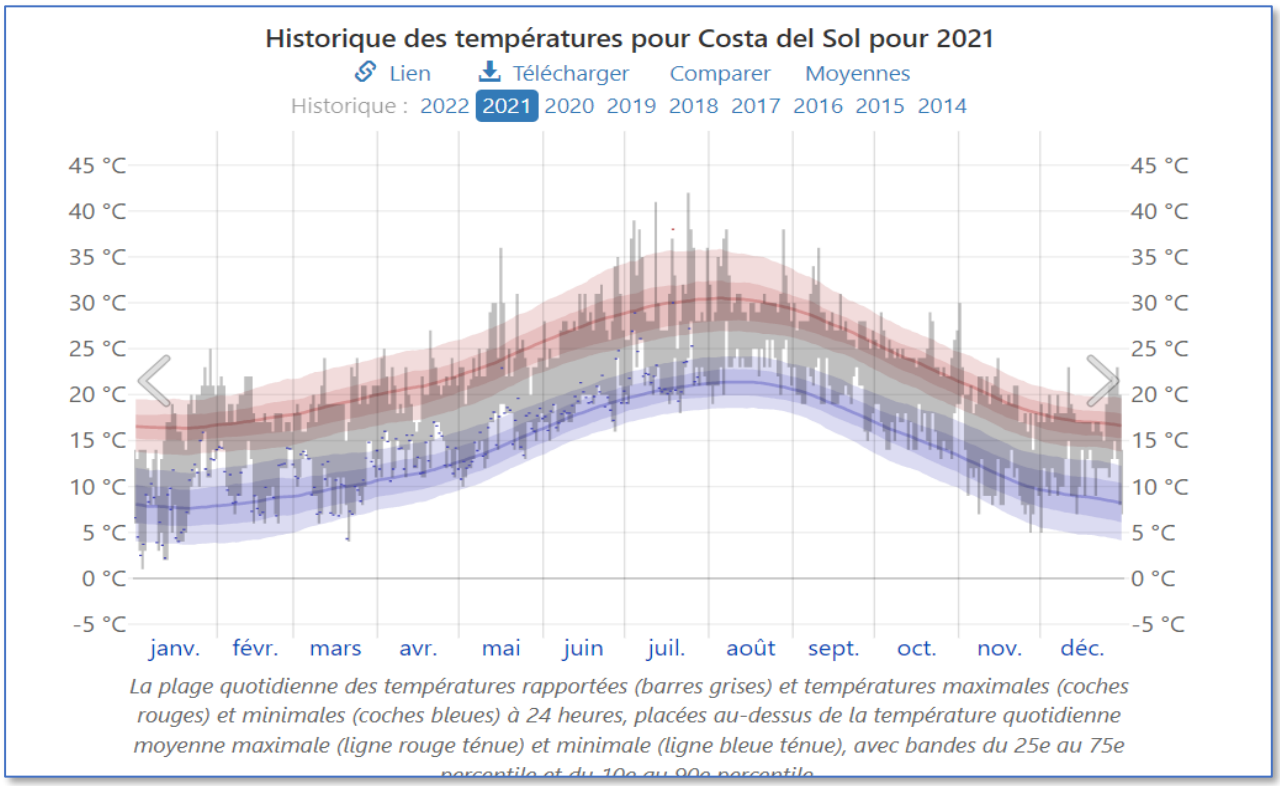
The *very hot season* lasts *2.8 months*, from *June 20* to *September 14*, with an average maximum daily temperature above *27 °C*. The hottest month of the year in Estepona is *August*, with an average maximum temperature of *29 °C* and a minimum of *21 °C*.

The *cool season* lasts *4.0 months*, from *November 18* to *March 17*, with an average maximum daily temperature below *19°C*. The coldest month of the year in Estepona is *January*, with a minimum average temperature of *9°C* and a maximum of *16°C*.

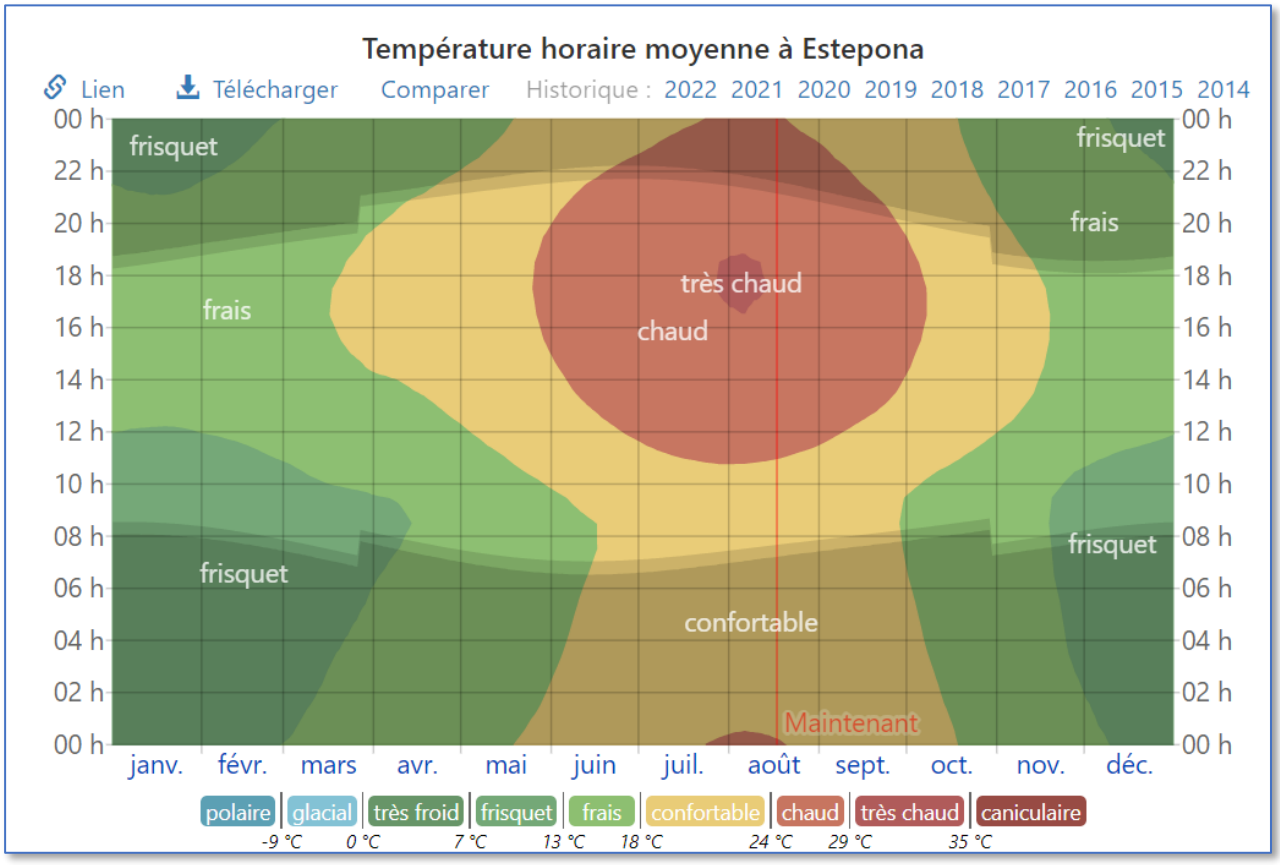



*La température moyenne quotidienne maximale (ligne rouge) et minimale (ligne bleue), avec bandes du 25e au 75e percentile et du 10e au 90e percentile. Les fines lignes pointillées sont les températures moyennes perçues correspondantes.*

| Moyenne | janv. | févr. | mars | avr. | mai | juin | juil. | août | sept. | oct. | nov. | déc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Haute | 16 °C | 17 °C | 19 °C | 20 °C | 23 °C | 27 °C | 29 °C | 29 °C | 27 °C | 23 °C | 19 °C | 17 °C |
| Temp. | 12 °C | 13 °C | 15 °C | 16 °C | 19 °C | 22 °C | 25 °C | 25 °C | 23 °C | 19 °C | 15 °C | 13 °C |
| Basse | 9 °C | 10 °C | 11 °C | 13 °C | 15 °C | 18 °C | 20 °C | 21 °C | 19 °C | 16 °C | 13 °C | 10 °C |




The figure below shows a compact characterization of average hourly temperatures for the entire year. The horizontal axis represents the day of the year, the vertical axis the time of day, and the color represents the average temperature for that time and day.



# CLOUDINESS

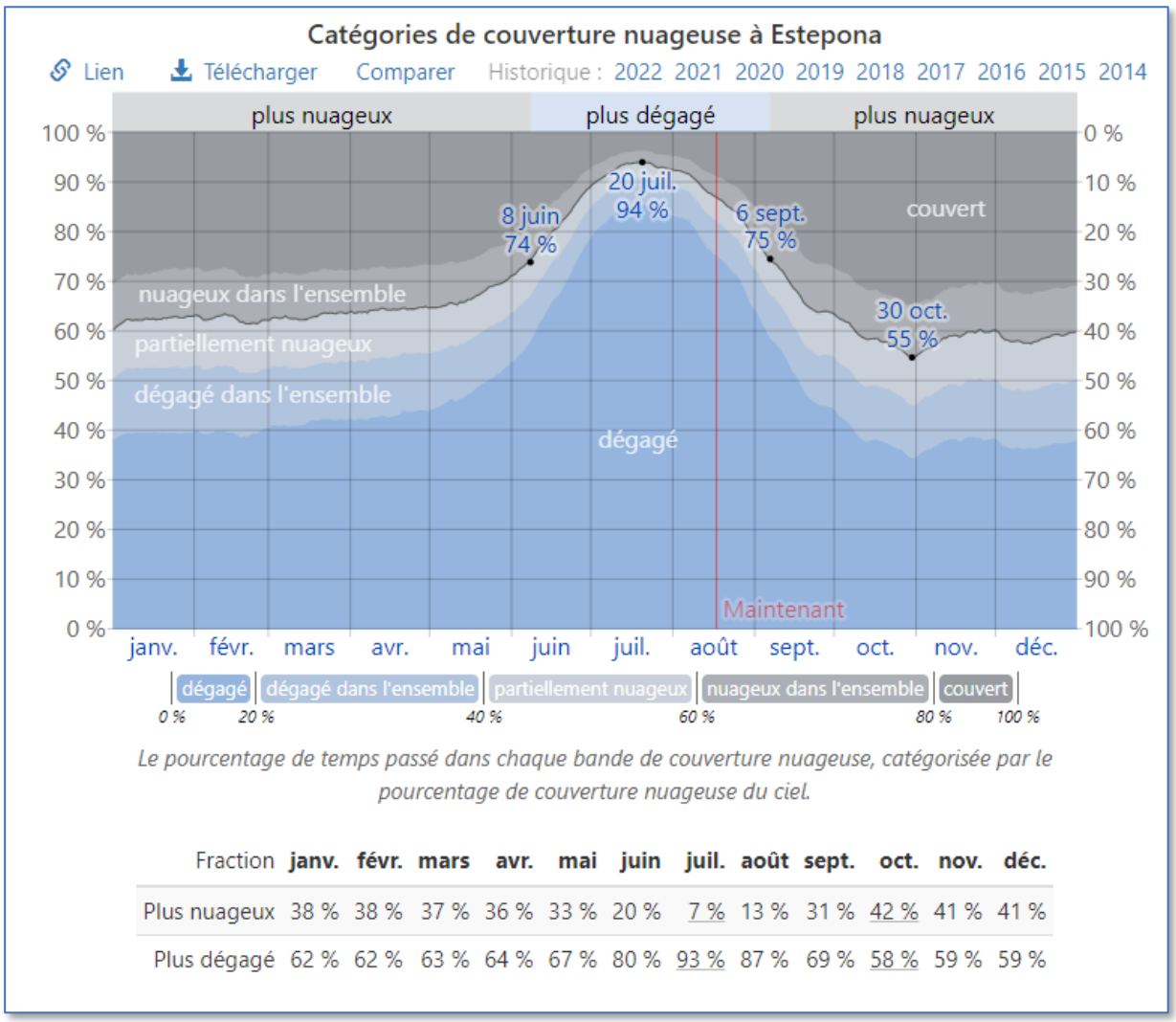
In Estepona, the percentage of cloudiness varies *considerably* seasonally during the year.

The *clearest* period of the year in Estepona begins around *June 8* and lasts *3.0 months*, ending around *September 6*.

The clearest month of the year in Estepona is *July*, during which the sky is generally *clear*, *clear overall* or *partly cloudy 93%* of the time.

The *cloudier* period of the year begins around *September 6* and lasts *9.0 months*, ending around *June 8*.

The cloudiest month of the year in Estepona is *October*, during which the sky is usually *overcast* or *cloudy overall 42%* of the time.




*Le pourcentage de temps passé dans chaque bande de couverture nuageuse, catégorisée par le pourcentage de couverture nuageuse du ciel.*

| Fraction | janv. | févr. | mars | avr. | mai | juin | juil. | août | sept. | oct. | nov. | déc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Plus nuageux | 38 % | 38 % | 37 % | 36 % | 33 % | 20 % | 7 % | 13 % | 31 % | 42 % | 41 % | 41 % |
| Plus dégagé | 62 % | 62 % | 63 % | 64 % | 67 % | 80 % | 93 % | 87 % | 69 % | 58 % | 59 % | 59 % |

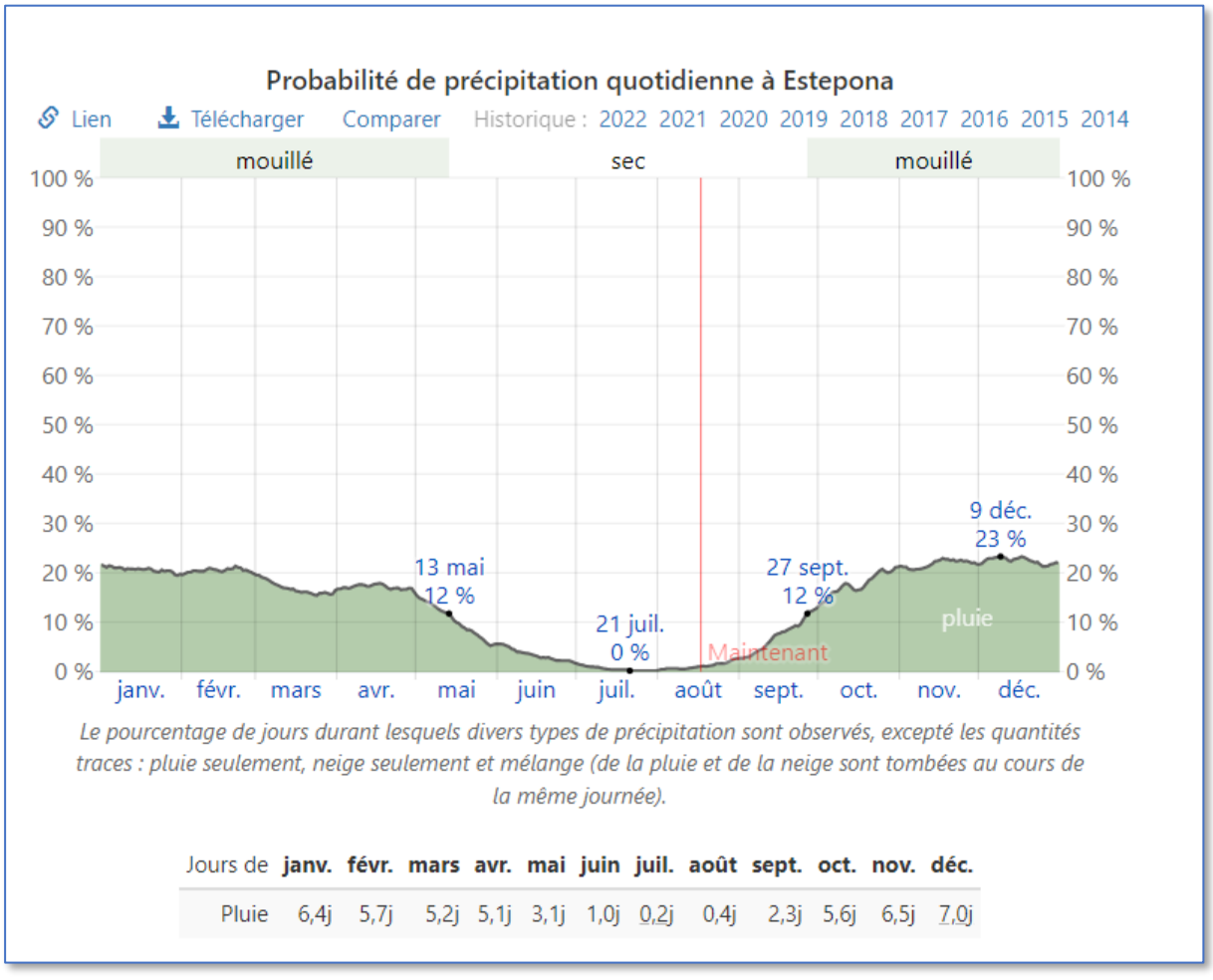
# RAINFALL

A *precipitation day* is a day on which an accumulation of water or measured in water of at least *1 millimeter is observed*. The probability of precipitation days in Estepona varies throughout the year.

The *season with the most precipitation* lasts *7.6 months*, from *September 27* to *May 13*, with a probability of daily precipitation greater than *12%.* The month with the highest number of precipitation days in Estepona is *December*, with an average of *7.0 days* having at least *1 millimeter* of precipitation.

The *driest season* lasts *4.4 months*, from *May 13* to *September 27*. The least with the least rainfall days in Estepona is *July*, with an average of *0.2 days* having at least *1 millimeter* of precipitation.

For precipitation days, we distinguish days with *rain only*, *snow only* or a *mixture* of both. The month with the highest number of rainy days *only* in Estepona is *December*, with an average of *7.0 days*. Based on this ranking, the most common form of precipitation during the year is *rain only*, with a probability peaking at *23%* on *December 9*.




*Le pourcentage de jours durant lesquels divers types de précipitation sont observés, excepté les quantités traces : pluie seulement, neige seulement et mélange (de la pluie et de la neige sont tombées au cours de la même journée).*

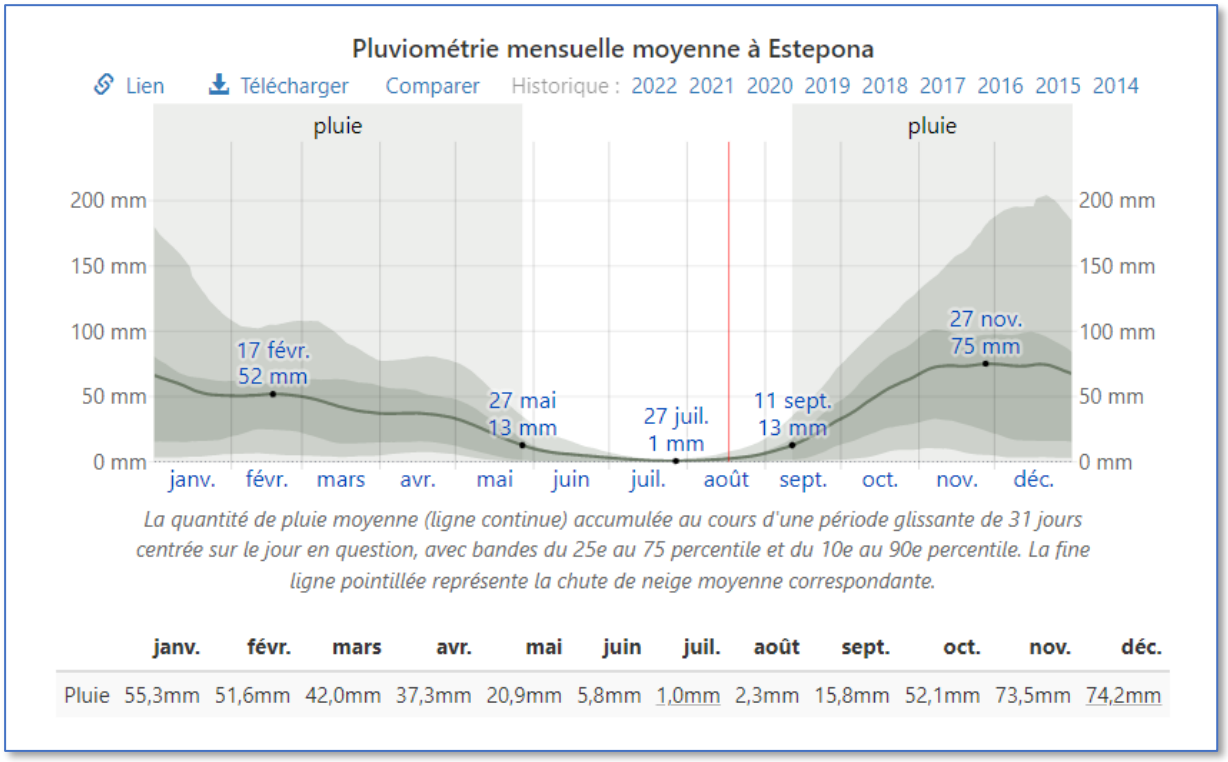
| Jours de | **janv.** | **févr.** | **mars** | **avr.** | **mai** | **juin** | **juil.** | **août** | **sept.** | **oct.** | **nov.** | **déc.** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pluie | 6,4j | 5,7j | 5,2j | 5,1j | 3,1j | 1,0j | 0,2j | 0,4j | 2,3j | 5,6j | 6,5j | 7,0j |

# RAIN

To show the variation over the months and not just the monthly totals, we show the accumulation of rain over a rolling 31-day period centered on each day of the year. Estepona experiences *considerable* seasonal variations in monthly rainfall.

The *rainy* period of the year lasts *8.5 months*, from *September 11* to *May 27*, with a rainfall of at least *13 millimeters* over a rolling period of 31 days. The rainiest month in Estepona is *December*, with an average rainfall of *74 millimeters*.

The *dry* period of the year lasts *3.5 months*, from *May 27* to *September 11*. The least rainy month in Estepona is *July*, with an average rainfall of *1 millimeter*.

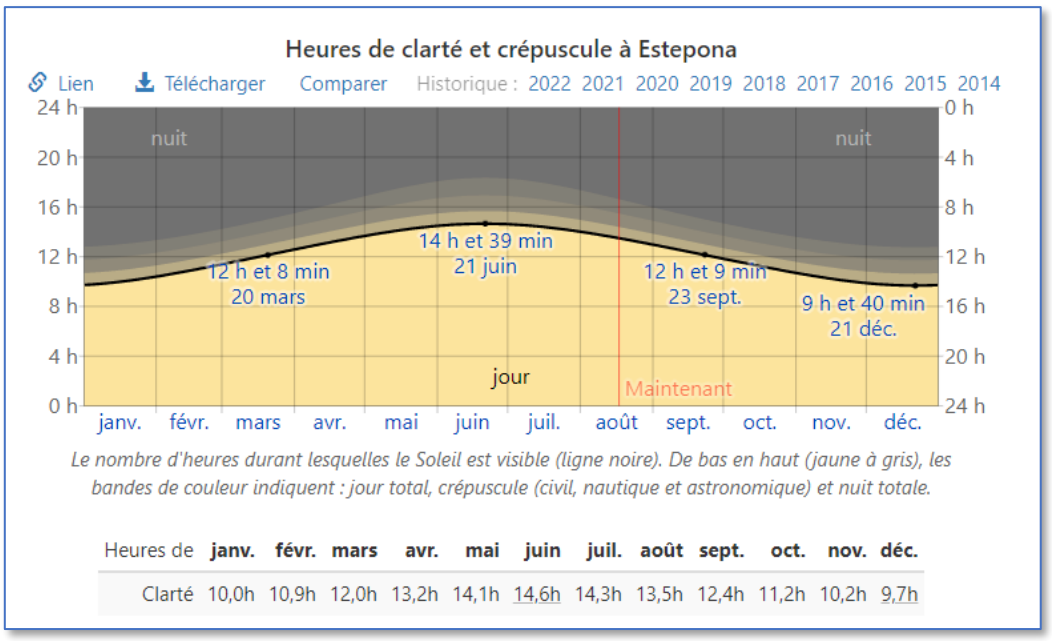



*La quantité de pluie moyenne (ligne continue) accumulée au cours d'une période glissante de 31 jours centrée sur le jour en question, avec bandes du 25e au 75 percentile et du 10e au 90e percentile. La fine ligne pointillée représente la chute de neige moyenne correspondante.*

| | janv. | févr. | mars | avr. | mai | juin | juil. | août | sept. | oct. | nov. | déc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pluie | 55,3mm | 51,6mm | 42,0mm | 37,3mm | 20,9mm | 5,8mm | 1,0mm | 2,3mm | 15,8mm | 52,1mm | 73,5mm | 74,2mm |

# SUN

The length of the day in Estepona varies greatly throughout the year. In 2022, the shortest day is *December 21*, with *9 hours and 40 minutes* of daylight; the longest day is *June 21*, with *14 hours and 39 minutes* of daylight.

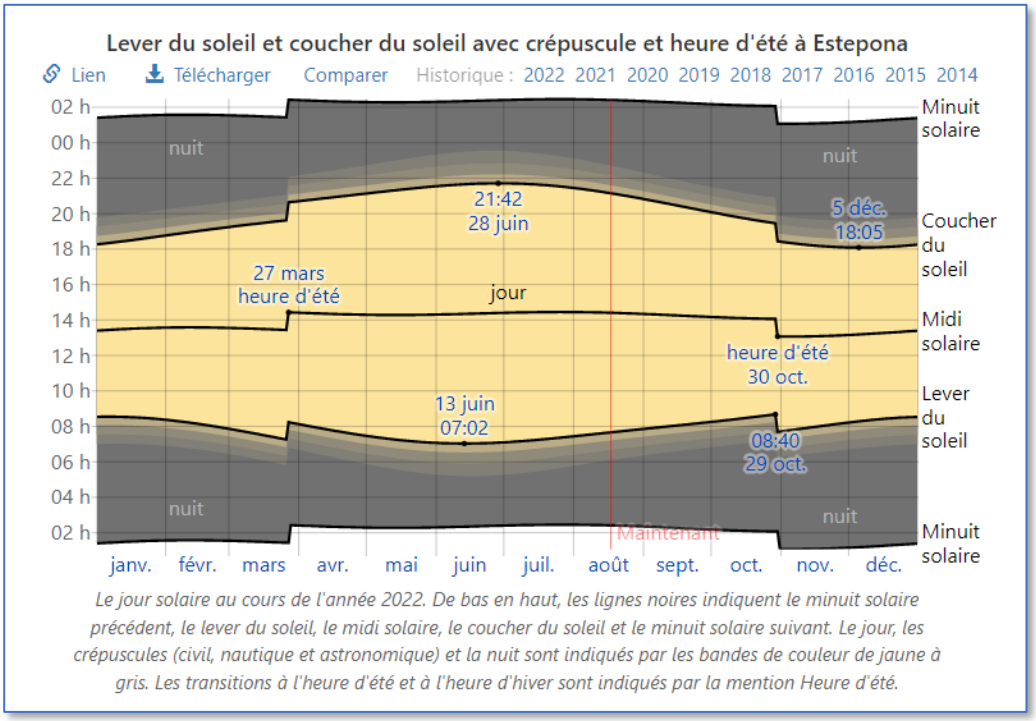



*Le nombre d'heures durant lesquelles le Soleil est visible (ligne noire). De bas en haut (jaune à gris), les bandes de couleur indiquent : jour total, crépuscule (civil, nautique et astronomique) et nuit totale.*

| Heures de | janv. | févr. | mars | avr. | mai | juin | juil. | août | sept. | oct. | nov. | déc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clarté | 10,0h | 10,9h | 12,0h | 13,2h | 14,1h | 14,6h | 14,3h | 13,5h | 12,4h | 11,2h | 10,2h | 9,7h |

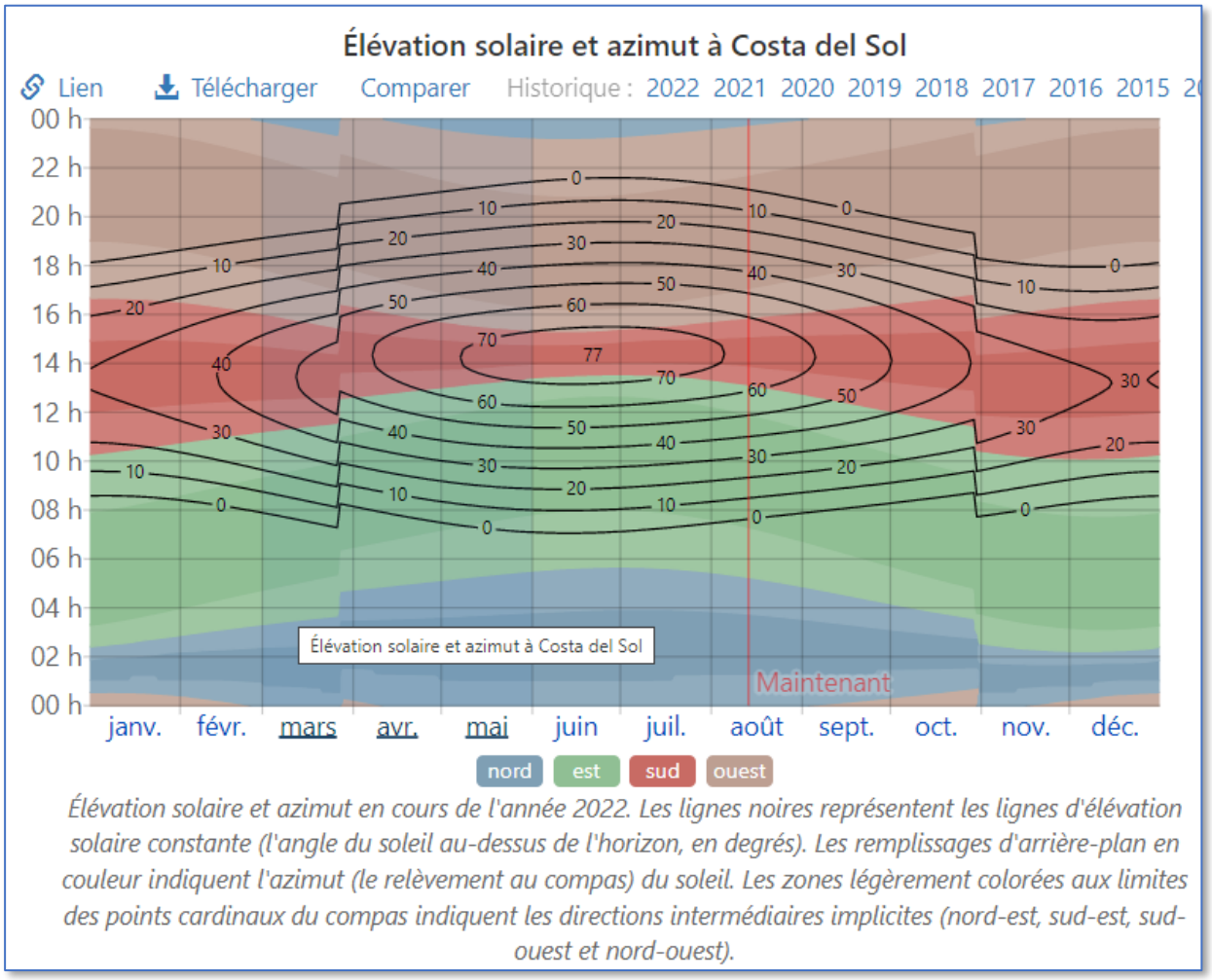
The *earliest sunrise* occurs at *07:02* on *June 13* and the *latest sunrise* occurs *1 hour and 39 minutes* later at *08:40* on *October 29*. The *earliest sunset* occurs at *18:05* on *December 5* and the *latest sunset* occurs *3 hours and 38 minutes* later at *21:42* on *June 28*.

The transition to daylight saving time is observed in Estepona in 2022, starting in the spring on *March 27*, for *7.1 months* and ending in the fall on *October 30*.




*Le jour solaire au cours de l'année 2022. De bas en haut, les lignes noires indiquent le minuit solaire précédent, le lever du soleil, le midi solaire, le coucher du soleil et le minuit solaire suivant. Le jour, les crépuscules (civil, nautique et astronomique) et la nuit sont indiqués par les bandes de couleur de jaune à gris. Les transitions à l'heure d'été et à l'heure d'hiver sont indiqués par la mention Heure d'été.*

The figure below shows a compact representation of the elevation of the sun (the angle of the sun above the horizon) and azimuth (its compass rise) for each hour of each day of the reference period. The horizontal axis represents the day of the year and the vertical axis the time of day. For a given day and time of that day, the color of the background indicates the azimuth of the sun at that time. The black isolines represent the contours of the constant solar elevation.




*Élévation solaire et azimut en cours de l'année 2022. Les lignes noires représentent les lignes d'élévation solaire constante (l'angle du soleil au-dessus de l'horizon, en degrés). Les remplissages d'arrière-plan en couleur indiquent l'azimut (le relèvement au compas) du soleil. Les zones légèrement colorées aux limites des points cardinaux du compas indiquent les directions intermédiaires implicites (nord-est, sud-est, sud-ouest et nord-ouest).*

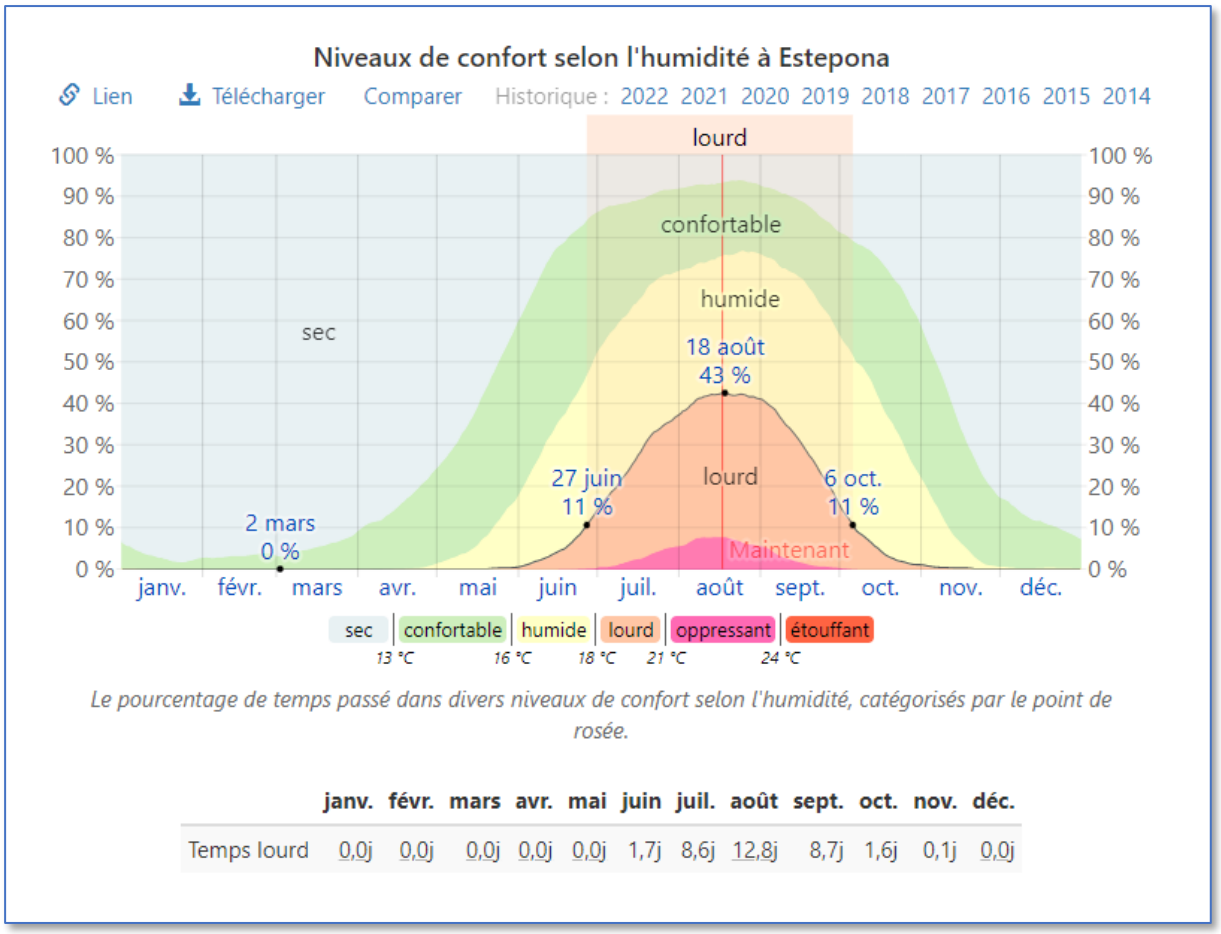
# HUMIDITY

We estimate the comfort level according to the humidity on the dew point, as it determines whether sweat will evaporate from the skin, causing a refreshment of the body. Lower dew points are felt as a drier environment and higher dew points as a wetter environment. Unlike temperature, which usually varies greatly between day and night, dew points vary more slowly. So, although the temperature can drop at night, a heavy day is usually followed by a heavy night.

Estepona experiences *considerable* seasonal variations in perceived humidity.

The *heaviest time* of the year lasts *3.4 months*, from *June 27* to *October 6*, with a feeling *of heaviness*, *oppressive* or *suffocating* at least *11%* of the time. The month with the highest number of *heavy days* in Estepona is *August*, with *12.8* or more heavy days overwhelming.

The *least heavy day* of the year is *March 2*, with a heavy climate almost non-existent.




*Le pourcentage de temps passé dans divers niveaux de confort selon l'humidité, catégorisés par le point de rosée.*

| | janv. | févr. | mars | avr. | mai | juin | juil. | août | sept. | oct. | nov. | déc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temps lourd | 0,0j | 0,0j | 0,0j | 0,0j | 0,0j | 1,7j | 8,6j | 12,8j | 8,7j | 1,6j | 0,1j | 0,0j |

# WIND

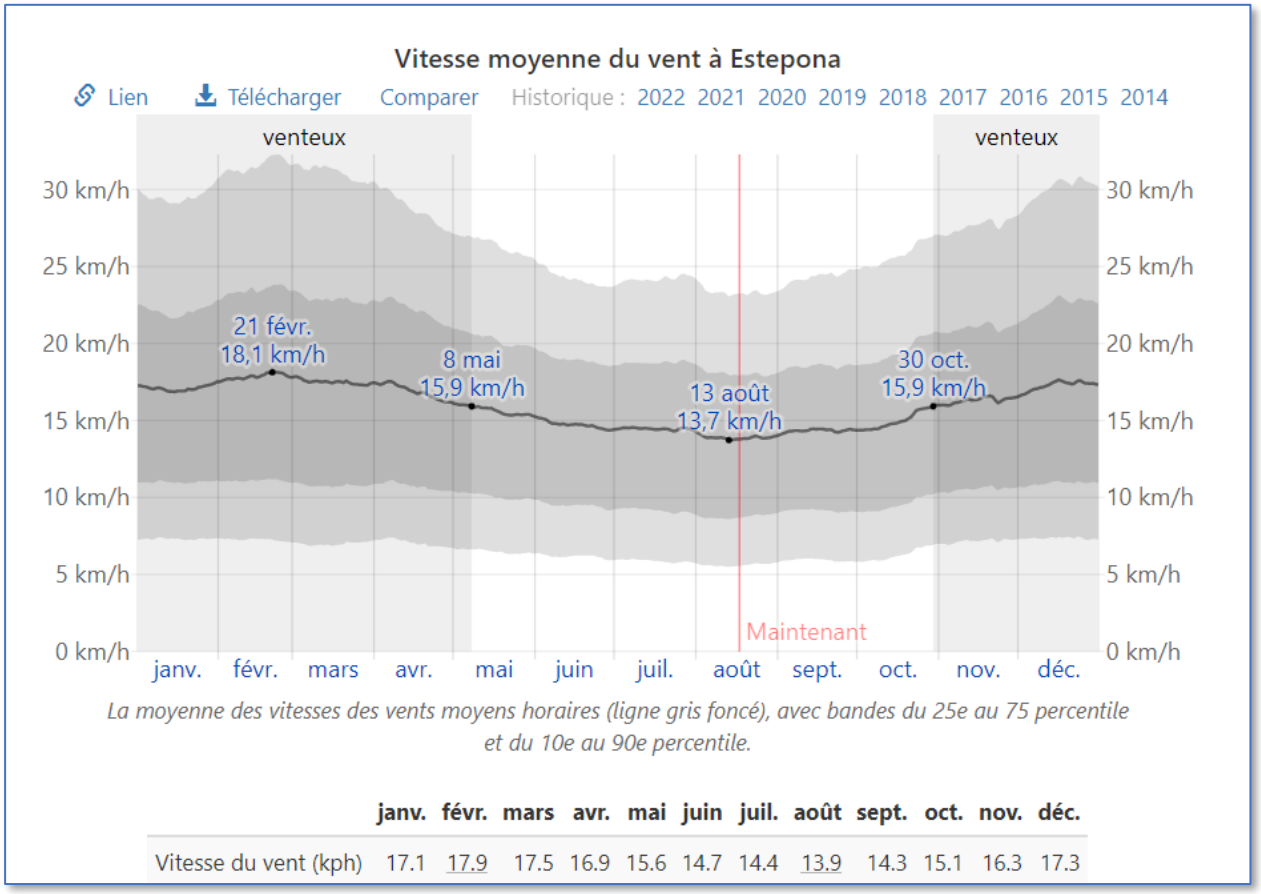
A) Wind speed

This section deals with the extended hourly average wind vector (speed and direction) to 10 meters above the ground. The wind observed at a given location is highly dependent on local topography and other factors, and the speed and direction of the instantaneous wind vary more than hourly averages.

The average hourly wind speed in Estepona varies moderately seasonally during the year.

The windiest period of the year lasts 6.3 months, from October 30 to May 8, with average wind speeds above 15.9 kilometers per hour. The windiest month of the year in Estepona is February, with an average hourly wind speed of 17.9 kilometers per hour.

The quietest period of the year lasts 5.7 months, from May 8 to October 30. The quietest month of the year in Estepona is August, with an average hourly wind speed of 13.9 kilometers per hour.




*La moyenne des vitesses des vents moyens horaires (ligne gris foncé), avec bandes du 25e au 75 percentile et du 10e au 90e percentile.*

| | janv. | févr. | mars | avr. | mai | juin | juil. | août | sept. | oct. | nov. | déc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vitesse du vent (kph) | 17.1 | 17.9 | 17.5 | 16.9 | 15.6 | 14.7 | 14.4 | 13.9 | 14.3 | 15.1 | 16.3 | 17.3 |

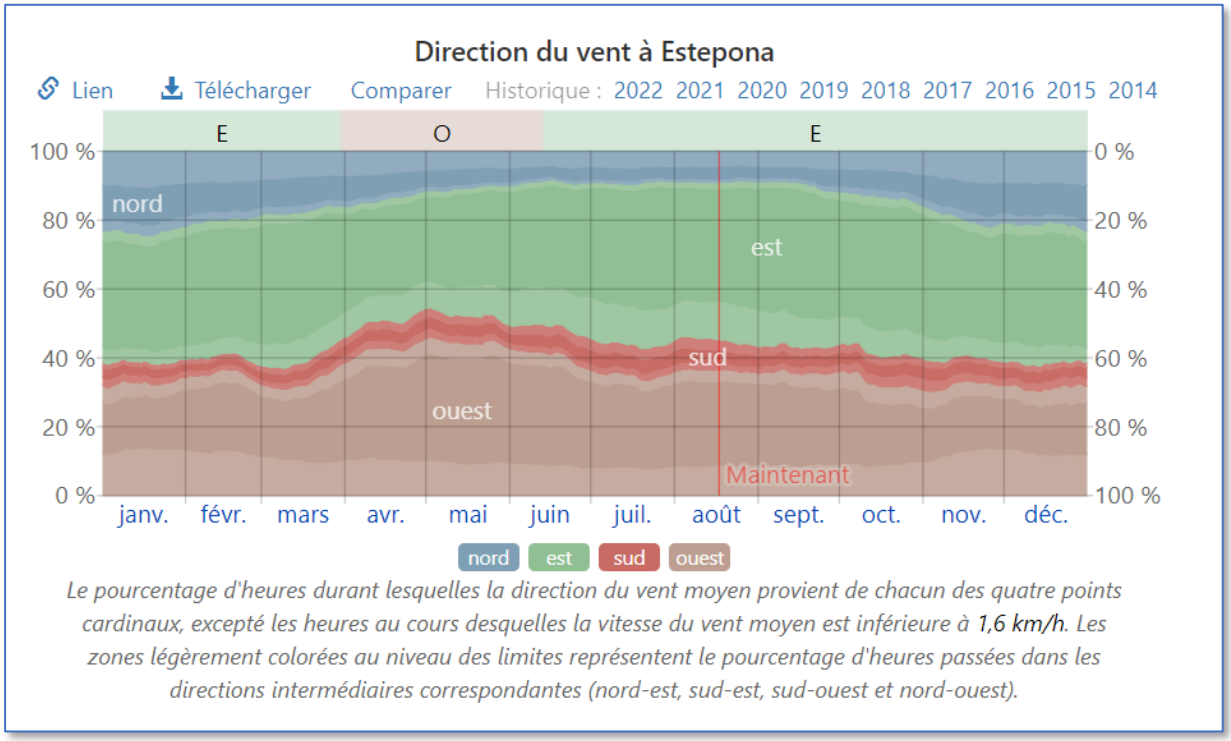
## B) Wind direction

The main average time direction of the wind in Estepona varies throughout the year.

The wind comes most often from the west for 2.4 months, from March 30 to June 13, with a maximum percentage of 46% on May 2. The wind comes most often from the east for 9.5 months, from June 13 to March 30, with a maximum percentage of 38% on January 1.

The east wind is called 'Levante' and brings moist, cool and salty air

The west wind called 'Poniente' is a generally strong and dry wind.




*Le pourcentage d'heures durant lesquelles la direction du vent moyen provient de chacun des quatre points cardinaux, excepté les heures au cours desquelles la vitesse du vent moyen est inférieure à 1,6 km/h. Les zones légèrement colorées au niveau des limites représentent le pourcentage d'heures passées dans les directions intermédiaires correspondantes (nord-est, sud-est, sud-ouest et nord-ouest).*

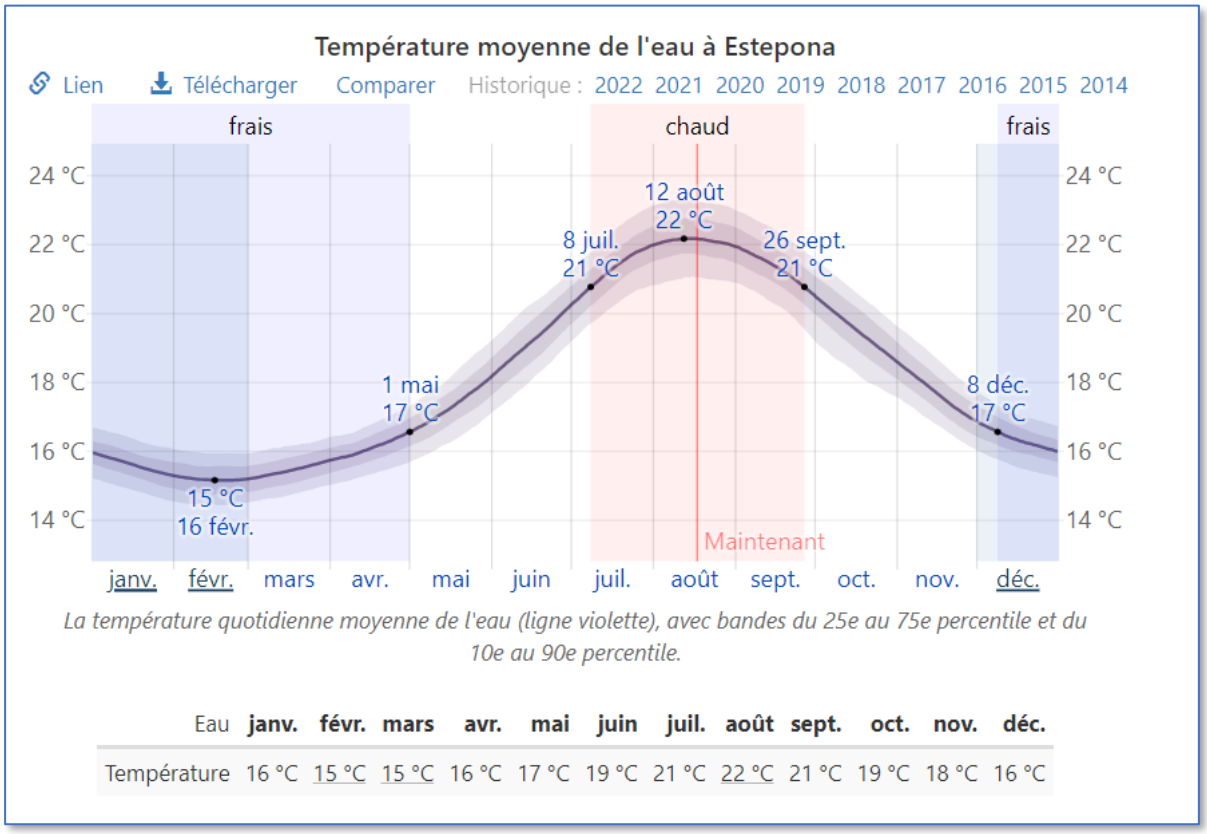
# WATER TEMPERATURE

Estepona is located near a large body of water (ocean, sea or large lake for example). This section presents the average extended surface temperature of this water.

The average water temperature varies ***seasonally extremely*** during the year.

The period of year when ***the water is warmer*** lasts ***2.6 months***, from ***July 8*** to ***September 26***, with an average temperature above ***21°C***. The warmest month of year in Estepona is ***August***, with an average temperature of ***22 °C***.

The period of year when ***the water is colder*** lasts ***4.8 months***, from ***December 8*** to ***May 1***, with an average temperature below ***17 °C***. The coldest month of the year in Estepona is ***February***, with an average temperature of ***15°C***.



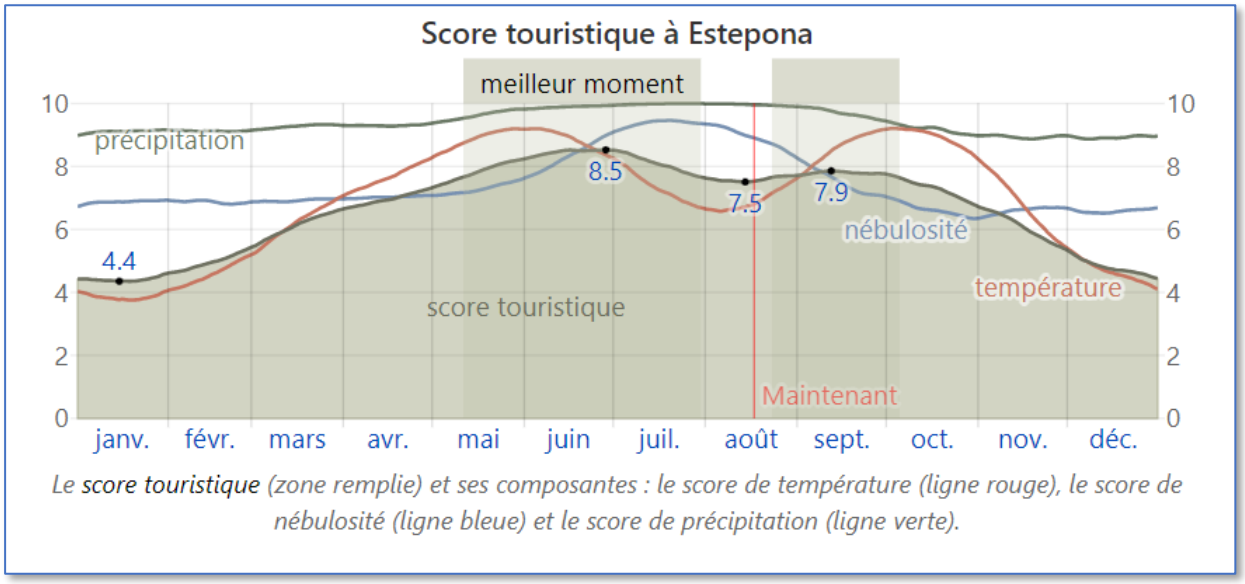

*La température quotidienne moyenne de l'eau (ligne violette), avec bandes du 25e au 75e percentile et du 10e au 90e percentile.*

| Eau | janv. | févr. | mars | avr. | mai | juin | juil. | août | sept. | oct. | nov. | déc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Température | 16 °C | 15 °C | 15 °C | 16 °C | 17 °C | 19 °C | 21 °C | 22 °C | 21 °C | 19 °C | 18 °C | 16 °C |

# THE BEST TIME OF YEAR TO VISIT

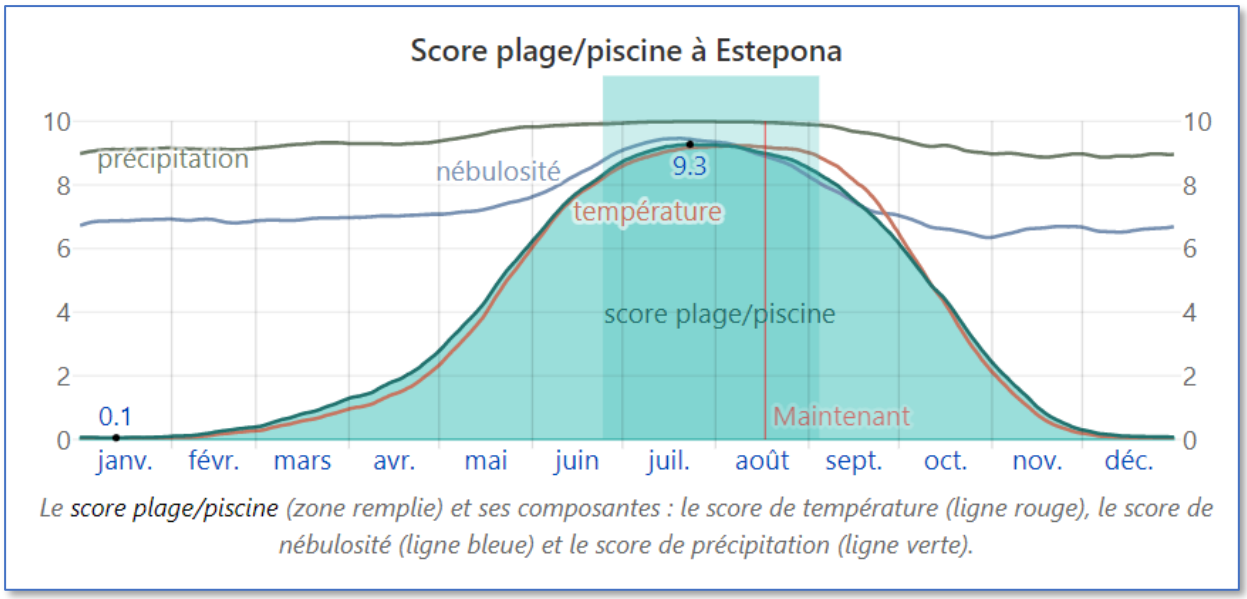
To indicate how pleasant the climate in Estepona is throughout the year, we calculate two travel scores.

The *tourism score* favors clear days without rain, with perceived temperatures between *18 °C* and *27 °C*. According to this score, the best times of the year to visit Estepona for general outdoor tourist activities are from *mid-May* to the *end of July* and from *late August* to *early October*, with a maximum score for the *third week in June*.




*Le score touristique (zone remplie) et ses composantes : le score de température (ligne rouge), le score de nébulosité (ligne bleue) et le score de précipitation (ligne verte).*

The *beach/pool score* favors clear and rain-free days, with perceived temperatures between *24°C* and *32°C*. According to this score, the best time of year to visit Estepona for hot weather activities is from *late June* to *early September*, with a maximum score for the *third week in July*.




*Le score plage/piscine (zone remplie) et ses composantes : le score de température (ligne rouge), le score de nébulosité (ligne bleue) et le score de précipitation (ligne verte).*

# METHODOLOGY

For each hour between *08:00* and *21:00* for each day of the analysis period (1980 to 2016), independent scores are calculated for perceived temperature, cloudiness and total precipitation. These scores are combined into a single hourly composite score, which is then grouped into days, the average of which is calculated over all years of the analysis period and then weighted.

Our *cloudiness score* is 10 for completely clear skies, falling linearly to 9 for clear skies overall and 1 for completely overcast skies.

Our *precipitation score*, which is based on three-hour precipitation centered on the time in question, is 10 for no precipitation, falling linearly to 9 for minimal precipitation and to 0 for precipitation of *1 millimeter* or more.

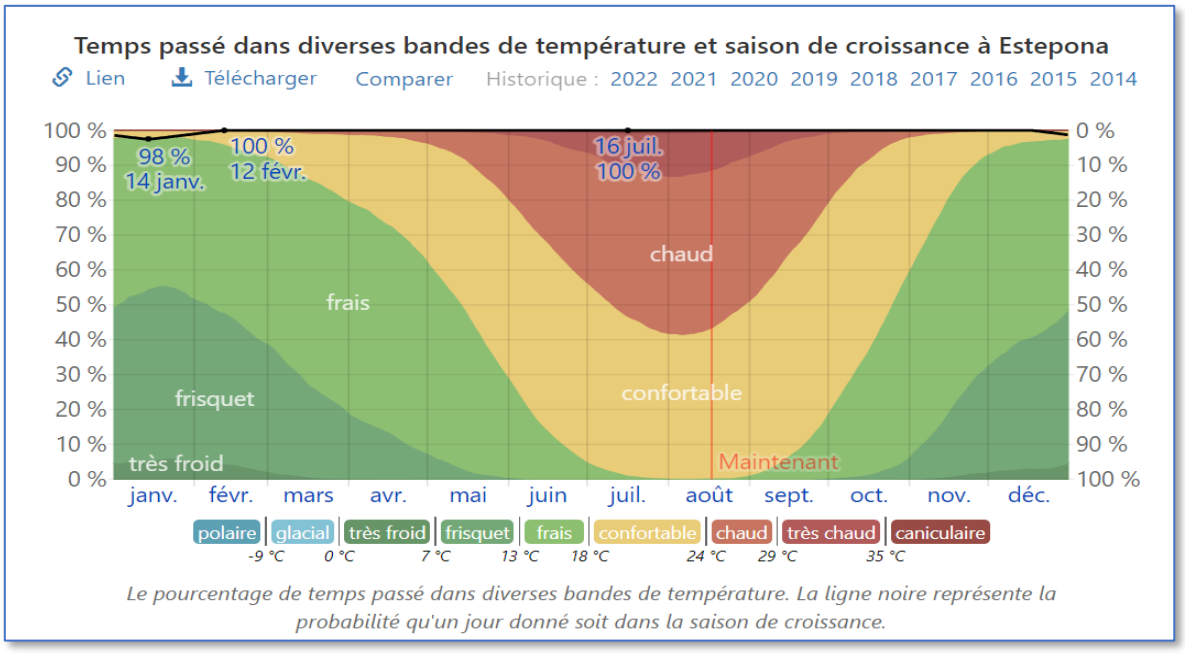
Our *tourist temperature score* is 0 for a perceived temperature below *10°C*, increasing linearly to 9 for *18°C*, up to 10 for *24°C*, falling linearly to 9 for *27°C* and 1 to *32°C* or more.

Our *range/pool temperature score* is 0 for a perceived temperature below *18°C*, increasing linearly to 9 for *24°C*, up to 10 for *28°C*, falling linearly to 9 for *32°C* and 1 to *38°C* or more.

# GROWING SEASON

Definitions of the growing season vary around the world, but for the purposes of this report, we define it as the longest continuous period of temperatures above freezing temperature (≥ 0°C) in the year (the calendar year of the northern hemisphere, or from July 1 to June 30 in the southern hemisphere).

Temperatures in Estepona are high enough throughout the year, so it is not really significant to talk about growing season in these terms. Nevertheless, we include the table below to illustrate the distribution of temperatures throughout the year.




*Le pourcentage de temps passé dans diverses bandes de température. La ligne noire représente la probabilité qu'un jour donné soit dans la saison de croissance.*