

<https://www.observatoiredeparis.psl.eu/live-on-june-10-2021-the.html>



Live on June 10, 2021 : the solar eclipse

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Observatoire de Paris - PSL Centre de recherche en astronomie et
astrophysique

On Thursday, June 10, 2021 at midday occurs an annular eclipse of the Sun. In France, it will be observable in a partial form. To allow everyone to enjoy the show, [the Observatoire de Paris - PSL will broadcast the phenomenon live on its YouTube channel](#). .

The eclipse of June 10, 2021 is the sixteenth annular eclipse of the 21st century and the first of the year 2021. Within the Paris Observatory - PSL, the Institute of Celestial Mechanics and Ephemeris Calculation (IMCCE) provides the circumstances.

The astronomical phenomenon will manifest itself in a 520 km wide band, running across the globe from northeastern Canada to the far east of Russia, passing through northwestern Greenland and the North Pole. It will travel at a speed of 8 190 km/h. At the maximum of the eclipse, on the line of centrality, the obscuration will be 87.8%.

The inhabitants whose cities are exactly in the axis of the phenomenon, will be among the most privileged observers and will see the Moon slowly slip in front of the Sun to transform it into a thin luminous ring before gradually moving away from it.

Animation representing the displacement at earth scale of the visibility zone for the annular solar eclipse of June 10, 2021.

The eclipse will also be visible in its partial phase in northwestern North America, the North Atlantic Ocean, including the overseas territory of St. Pierre and Miquelon, much of Europe, including metropolitan France, and much of northern Asia.

Visibility in France

If the phenomenon is not rare, the chance to contemplate it in a given point of the Earth is low. In France, the last partial eclipse of the Sun was on March 20, 2015 Revivre l'éclipse partielle en replay. For the next ones, we will have to wait until October 2022 or March 2025.

Whatever the characteristics, it is always a beautiful natural spectacle for those who have the opportunity to observe it.

In France, the solar eclipse of June 10, 2021 will be visible partially in Saint-Pierre-et-Miquelon, and everywhere in France where the maximum will occur between 11:55 and 12:20 depending on location. Its duration will be about 2 hours.

Table of schedules

Horaires de l'éclipse partielle de Soleil du 10 juin 2021

pour les principales villes du territoire français en heure locale

Villes	Premier contact	Maximum	Pourcentage d'obscurité	Dernier contact
Ajaccio Corse	11h53	12h10	0,2	12h28
Bordeaux Nouvelle-Aquitaine	11h07	11h58	8,7	12h54
Dijon Bourgogne-France-Comté	11h20	12h14	8,7	13h11
Lille Hauts-de-France	11h14	12h16	15,9	13h23
Lyon Auvergne-Rhône-Alpes	11h21	12h10	6,3	13h02
Marseille Provence-Alpes-Côte d'Azur	11h27	12h06	2,7	12h46
Nantes Pays de la Loire	11h04	12h02	13,3	13h04
Orléans Centre-Val de Loire	11h11	12h09	11,8	13h10
Paris Île-de-France	11h13	12h12	13,2	13h15
Rennes Bretagne	11h04	12h03	15	13h08
Rouen Normandie	11h10	12h11	15,2	13h16
Saint-Pierre Saint-Pierre-et-Miquelon	6h35	7h34	67,1	8h39
Strasbourg Grand est	11h26	12h22	9	13h30
Toulouse Occitanie	11h13	11h59	5,2	12h48

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Tableau des horaires de l'éclipse partielle du 10 juin 2021 © IMCCE - Observatoire de Paris / PSL

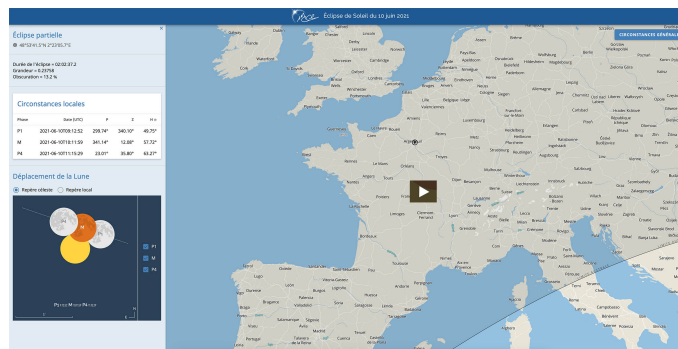
The occultation of the solar disk will vary from 0.2% to 17.8% depending on the region of France, where it will not affect the ambient brightness, and up to 67% in Saint-Pierre-et-Miquelon.

The eclipse will be most visible in Brittany (with an occultation of 17.8% in Brest) and in northern France (15.9% in Lille). In the South, the conditions of observations will be less favorable, with an occultation of 0.2% in Ajaccio and 2.3% in Nice.

An eclipse calculation service

Within the Observatoire de Paris - PSL, the IMCCE provides an interactive map that gives the local circumstances of the solar eclipse of June 10, 2021.

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Carte interactive

It allows to know precisely for each given place the main characteristics of the eclipse : geometrical and temporal parameters (size and duration).

Covering a time interval from 4000 BC to 2100, this calculation service also allows to look back on past solar eclipses and to obtain predictions for the next ones in the XXI century.

A beautiful natural spectacle in perspective provided that the sky is clear.

IMPORTANT : Never observe the Sun without protection !

You should never observe the Sun without special protection, otherwise you run the risk of serious, if not irreparable, retinal damage.

3 methods to follow the partial eclipse without risk, any other means (sunglasses...) being to proscribe.

- The best method to follow the partial eclipse without risk is that of an observation by projection on a screen. The "solarscope" is a practical and inexpensive means (device available in specialized shops).
- It is possible to follow the occultation with a magnifying astronomical instrument. But this one must be obligatorily provided with a solar filter of density 5 of the type "mylar", to avoid any irreversible ophthalmic accident.
- It is also possible to observe the phenomenon with special "eclipse" glasses (available in specialized shops).

To be followed, the live on the D-day

To allow everyone to contemplate this part of the eclipse without risk, the scientists of the Observatoire de Paris - PSL

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are pointing their instruments at the Sun :

a spectroheliograph, located on the Meudon site, will observe in the H alpha radiation,

a radio-heliograph, consisting of a set of antennas deployed in Nançay (in the Cher department), will observe in the radio domain.

See you from 11 am on the YouTube channel of the Observatory