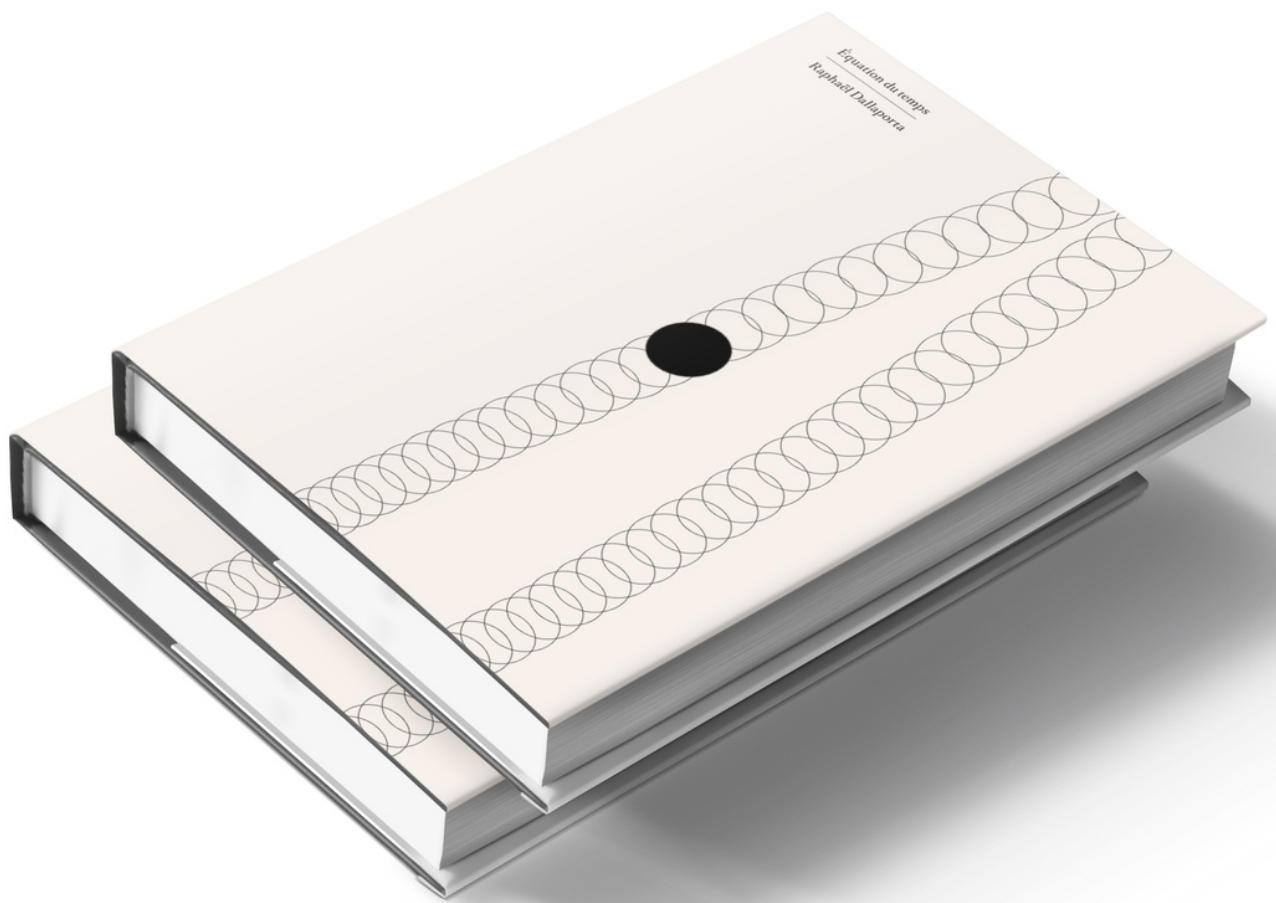


# EQUATION OF TIME

Raphaël Dallaporta

Prix Niépce Gens d'Images 2019



Available November 2020

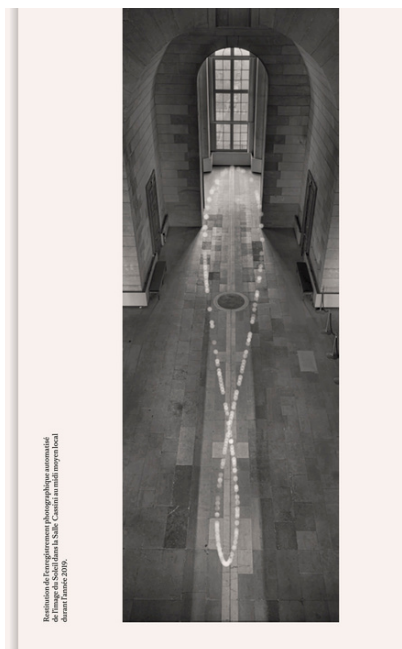
# EQUATION OF TIME

## A project between photography and science

**The Equation of Time is an artistic and scientific experiment initiated in 2018 at the Paris Observatory by the photographer Raphaël Dallaporta.**

Conducted jointly with researchers from the Syrte (System of Time-Space References) at Paris Observatory, the "Equation of Time" experiment, led by the photographer Raphaël Dallaporta, aims to verify the inequalities of the true solar day indicated by sundials to the difference in mean solar time indicated by clocks. While the meridian of true solar time is a straight line, the meridian of mean time has the shape of an elongated figure eight.

This figure-of-eight curve will be revealed thanks to a daily shot taken by the photographer in the Cassini room at mean noon and as close as possible to the eyecup located 9.933 m south of the meridian.



*"For nearly twenty years I have based my practice on collaborations with researchers, inspired more and more by history and science.*

*In the context of a residency where I was wondering how to make measurement sensitive, I came for the first time to the Paris Observatory and in discussion with the members of the Syrte, we agreed on a shape that has become the object of study: this mysterious figure of eight curve that can be drawn in this room that houses a magnificent instrument that is the Paris meridian. My general work questions our belief in progress, and its relation to our evolution.*

*We mix photography and cosmography to create a work and a book in which this figure of eight curve will be translated by a void, by a hole, something that lets the light pass through".*

**Raphaël Dallaporta,**

Photographer and winner of the Prix Niépce 2019.

# THE PHOTOBOOK OBJECT

## An original and educational experience

The book object *Equation of Time* is an extension of this photographic study carried out by Raphaël Dallaporta. Each of the 365 pages of the book is centered on the position of the image of the Sun during its passage at local mean noon in the Cassini room of Paris Observatory. The data of the shooting are specified on each page.

**Conceived as a playful flip book object**, the reader can see the curve forming over the pages. In the afterword, the astronomer Denis Savoie explains the principles of the equation of time, based on the eight-shape curve, the Earth's revolution around the Sun after one year.

**Denis Savoie**, astronomer and science historian

Time Reference Systems Department - Paris Observatory Space - PSL.

*"I find that Raphaël Dallaporta's idea to materialize on this Cassini meridian a figure eight curve is part of the French tradition. It also reflects a lack of the Observatory, because there are very few figure-eight curves in France and even in the world. It was a way of explaining it to the public in a pedagogical and artistic way. If you take a photo every day, you have this figure-of-eight curve that translates the equation of time".*



## Presentation of the graphic device visible on the 365 pages of the book Equation of Time.

North

Apparent height  
from Sun to  
medium Noon  
in degrees

17.788°

Image of the Sun  
at midday local  
time

Value of the  
equation of time in  
minutes and  
seconds

- 2 m 35.7 s

Équation du temps

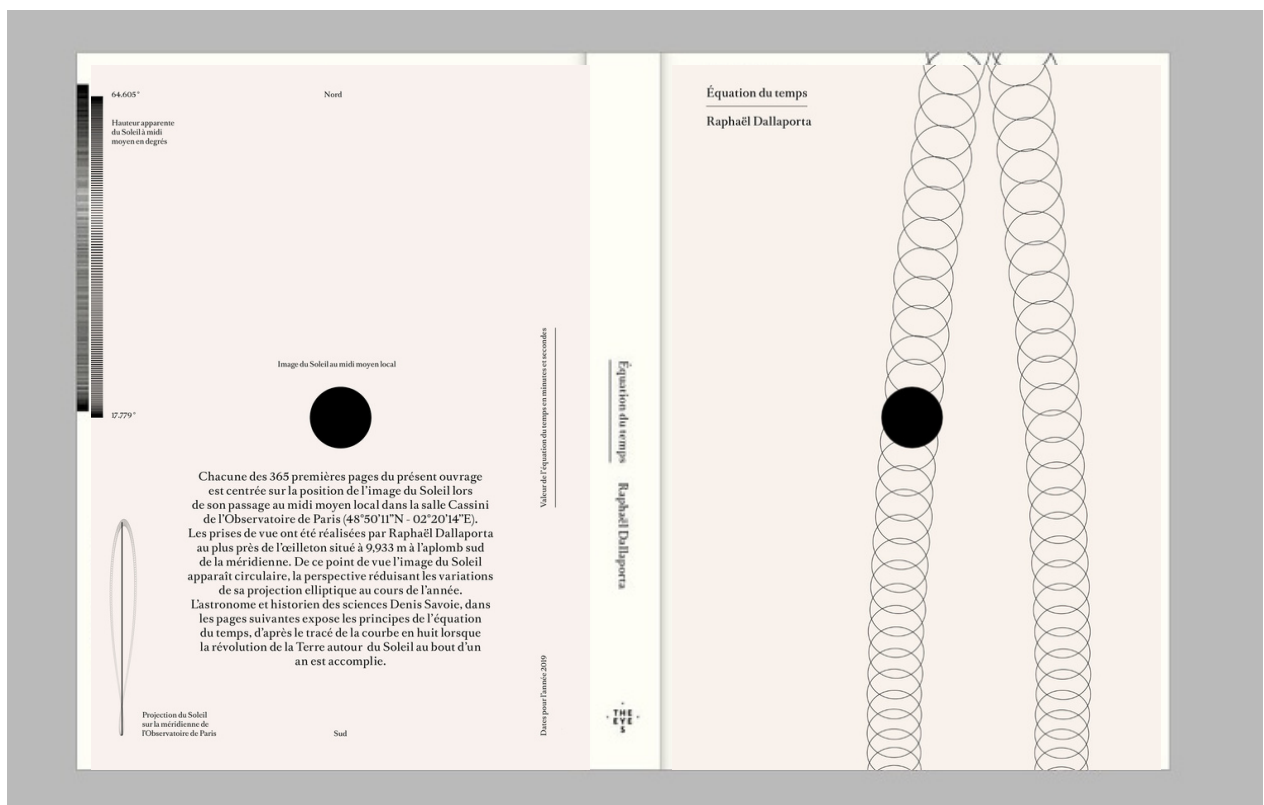
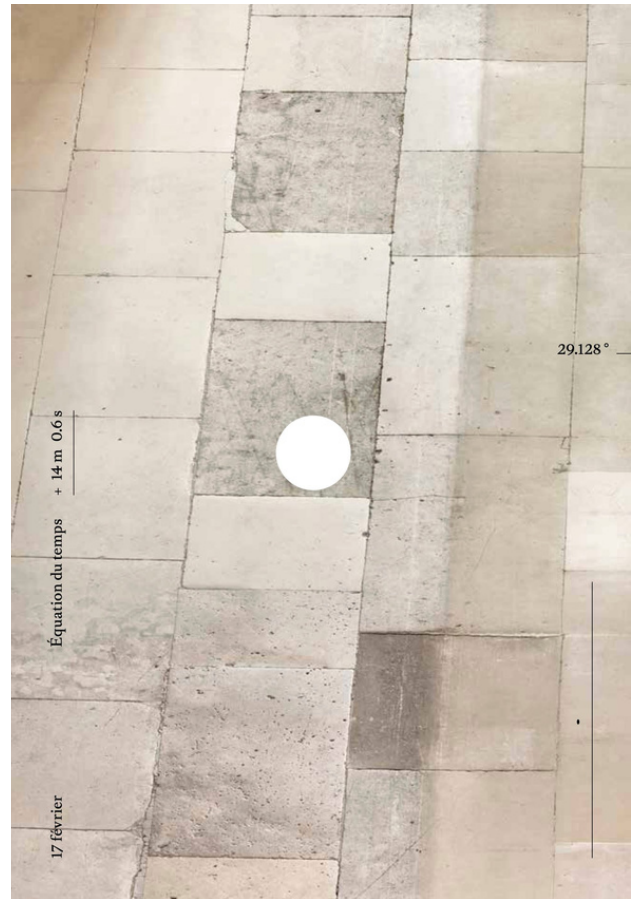
Projection of the Sun  
on the meridian of  
Paris Observatory

Dates for  
year 2019

20 décembre

South





The image of the sun passing through the eyecup results in a hole that pierces the book to let the light through.

## ABOUT RAPHAËL DALLAPORTA



Raphaël Dallaporta is a French photographer born in 1980. He was exhibited at the Rencontres d'Arles in 2004 and 2006.

Between 2014-2015, he was a resident of the French Academy in Rome. In 2019, he won the Niépce prize and in 2020 was the laureate of the Young Photographer at the ICP Infinity Award.

Raphaël Dallaporta is represented by the Jean-Kentha Gauthier gallery.

The book *Equation of Time* has been realized as part of the Prix Niépce Gens d'Images 2019, with the support of the Picto Foundation, in partnership with the Observatoire de Paris.

Since 2019, The Eyes Publishing accompanies the Prix Niépce Gens d'Images by financing and publishing an artist's book up to 10,000 euros.

## EXHIBITION

**Jean Kenta Gauthier** gallery organises an exhibition around the book *Equation of time*. from November 21 to December 19, 2020. The opening will take place on Saturday, November 21.

## ABOUT THE EYES PUBLISHING

The Eyes is a French publishing house and cultural brand content agency specialised in photography.

### Contact

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## TECHNICAL DETAILS

**Edition:** Vincent Marcilhacy, Véronique Prugnaud

**Concept:** Raphaël Dallaporta

**Graphic Design:** Kummer & Herrman

**For the photographs** © Raphaël Dallaporta

**For the text** © Denis Savoie

**Distribution:** Interart (France), Ideabooks (Export)

### Technical Specifications

Format: 17 x 24 cm French style

Pages: 376 pages

Images: color

Language : French

Price: €39

ISBN N°979-10-92727-39-5

Book published at 450 copies, including 100 copies dedicated to a limited edition accompanied with a signed and numbered print.

Printed on Munken Pure Rough-Blanco, 120g and 300g, from the brand Arctic Paper.

### Limited Edition

A limited head edition of 100 copies accompanies the book: signed book + piezographie print (24 x 70 cm) on Awagami Kozo paper (70g) signed and numbered.

Price: €200

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Paris Observatory - PSL

Museum of Arts and Crafts - Cnam

Picto Foundation

*Equation of time* by Raphael Dallaporta is available for pre-order on **WWW.THEEYES.EU**