

Partial solar eclipse from Iceland to India on Tuesday

October 23 2022



A partial solar eclipse in Iraq in 2019. Tuesday's eclipse is not expected to darken the sky.

A partial solar eclipse will be visible across a swathe of the Northern Hemisphere on Tuesday, with amateur astronomers warned to take care

watching the rare phenomenon.

The eclipse will start at 0858 GMT in Iceland and end off the coast of India at 1302 GMT, crossing Europe, North Africa and the Middle East on its way, according to the IMCCE institute of France's Paris Observatory.

Solar eclipses occur when the Moon passes between the Sun and Earth, casting its shadow down onto our planet.

A total solar eclipse happens when the Moon completely blocks the Sun's disk, momentarily plunging a portion of the Earth into complete darkness.

However Tuesday's eclipse is only partial, and the "Moon's shadow will not touch the surface of the Earth at any point," the Paris Observatory said in a statement.

The Moon will cover a maximum of 82 percent of the Sun over Kazakhstan, but it will not be enough to darken the daylight, Paris Observatory [astronomer](#) Florent Deleflie said.

"To start getting the sense of darkness in the sky, to perceive a kind of cold light, the Sun needs to be at least 95 percent obscured," Deleflie told AFP.

Those hoping to watch the eclipse should not look at the Sun directly, even through clouds, to avoid eye damage, according to experts. Protective eyewear should be worn instead.

"We will see that a small piece of the Sun is missing. It won't be spectacular, but it's always an event for amateur astronomers—and it can make for beautiful photos," Deleflie said.

It will be the 16th [partial solar eclipse](#) of the century, and the second of this year.

The next total solar eclipse will cross North America on April 8, 2024, according to NASA.

© 2022 AFP

Citation: Partial solar eclipse from Iceland to India on Tuesday (2022, October 23) retrieved 29 April 2024 from <https://phys.org/news/2022-10-partial-solar-eclipse-iceland-india.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.