





<u>Vatch the LIVE NASA STREAM!!</u> https://www.nasa.gov/eclipselive-info

EYE SAFETY DURING AN ECLIPSE



It's NEVER safe to look directly at the sun, except when the sun is completely blocked during the period of a total eclipse known as TOTALITY.





The eclipse begins when the sun's disk is partially blocked by the moon. This partial eclipse phase can last over an hour.



DIAMOND RING • GLASSES ON

Shortly before totality, the crescent sun converges into a single brilliant "diamond" of sunlight as the last bit of the sun's bright disk shines along the edge of the moon, while the first glimpses of the faint corona create a "ring" around the moon.



BAILY'S BEADS • GLASSES ON

In the last little moment before totality, you may see the "diamond ring" break up into "beads" created as the sun's light shines through the low-lying valleys along the edge of the moon. These are called Baily's Beads.



TOTALITY • GLASSES OFF

Once the Baily's Beads disappear and the moon completely covers the entire disk of the sun, you may safely look at the eclipse without a solar filter. Be careful to protect your eyes again before the end of totality the total eclipse may last less than a minute in some locations.



FINAL STAGES • GLASSES ON

A crescent will begin to grow on the opposite side of the sun from where the diamond ring appeared at the beginning. This crescent is the lower atmosphere of the sun, beginning to peek out from behind the moon and it is your signal to stop looking directly at the eclipse. Make sure you have safety glasses back on—or are otherwise watching the eclipse through a safe, indirect method—before the first flash of sunlight appears around the edges of the moon.

Images 1, 2, 4, 5 Credit: Rick Fienberg, TravelQuest International and Wilderness Travel Image 3 Credit: Arne Danielson

2017





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Date & Time of Solar Eclipse:	lam	years old.
I watched from:	How I watched:	
	Was it total darkness?	٦ ا
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What is the weather like today? Did it help/hinde	r my viewing experience?	
How many people across the U.S. could see this e	clipse?	
SUN MOON CAPA		Draw the eclipse path
sun moon cart	10 The state of th	
What is a solar eclipse, and when was the	last What are the thre	e types of Solar Eclipses?
time one was seen?	- •	
		
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How often does a solar eclipse occur and doesn't it occur every month?		to look directly at a solar se or the sun?
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Some myths al	bout the solar eclipse are	
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2017





Date & Time of Solar Eclipse:	I amyears old.		
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I watched from:	How I watched:		
I traveled to watch the eclipse: $\frac{\Box}{Yes}$ $\frac{\Box}{No}$ Was it tota	ıl darkness? Yes No Ifno:%		
What is the weather like today? Did it help/hinder my viewing	a experience?		
How many people could see this eclipse? Everyone in the U.S. a	and North America, plus some parts of South Ameri-		
ca, Africa, and Europe will see at least a partial solar eclipse.			
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	path		
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sun moon earch	Smarth State of the State of th		
What is a solar eclipse and when was the last	What are the three types of Solar Eclipses?		
time one was seen?	A total eclipse occurs when the Moon complete-		
	ly covers the Sun as seen from Earth. A partial		
A solar eclipse is an event in which the moon	eclipse happens when the moon only partially		
passes between the sun and Earth. The entire	covers the Sun. An Annular Eclipse is when the		
eclipse takes about three hours from beginning	Moon appears smaller than the Sun as it passes		
to end. Solar eclipses can only occur during a	centrally across the solar disk and a bright ring		
New Moon. Answers may vary, but the last	of sunlight remains visible during the eclipse.		
eclipse for the U.S. was in 1979.			
	Why isn't it safe to look directly at a solar		
How often does a solar eclipse occur and why	eclipse or the sun?		
doesn't it occur every month?	The sun outputs more power than our eye is		
There are between 2-5 solar eclipses every year	designed to handle. Exposing our eye to that		
_including total, partial, and annular.	kind of power can damage the retina perma-		
	nently.		
			
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Myths about the solar eclipse are			
Answers will vary, look up myths about eclipses online			