

### Solar Eclipses 2021

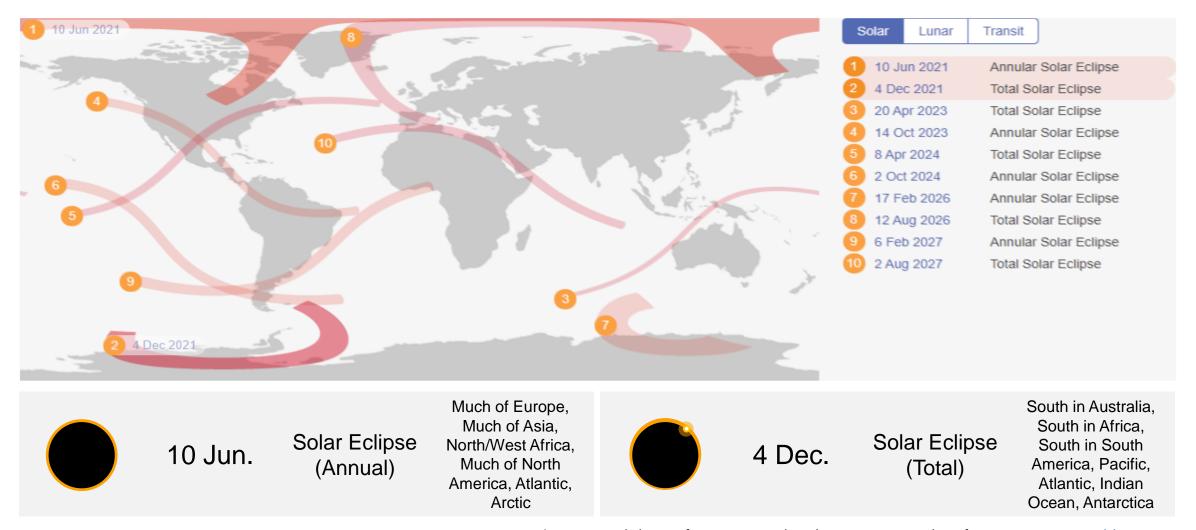
Eclipse information and filter recommendations

# Get ready for Solar Eclipse





# In 2021, we're going to be witness of two solar eclipse events in June and December in the Northern and Southern Hemisphere respectively

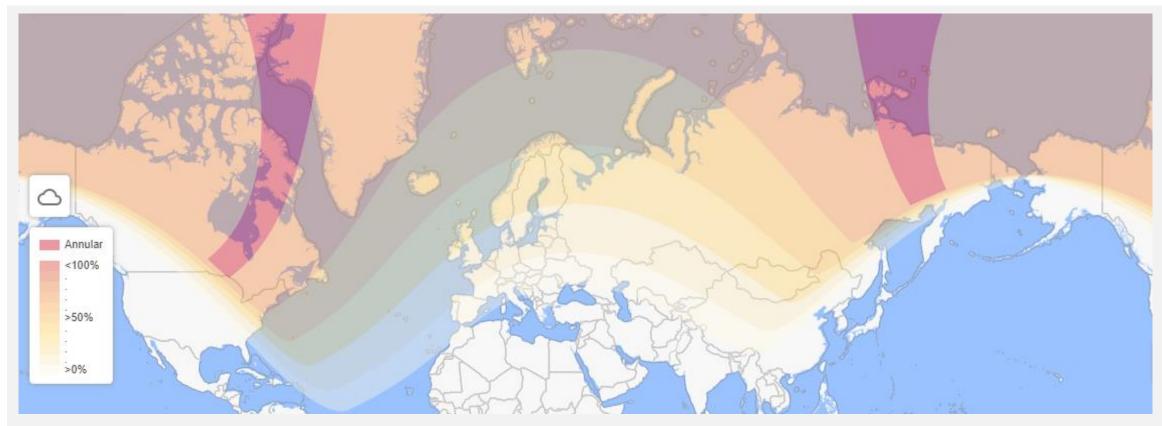




10 June

## Solar Eclipse (Annual)

Much of Europe, Much of Asia, North/West Africa, Much of North America, Atlantic, Arctic



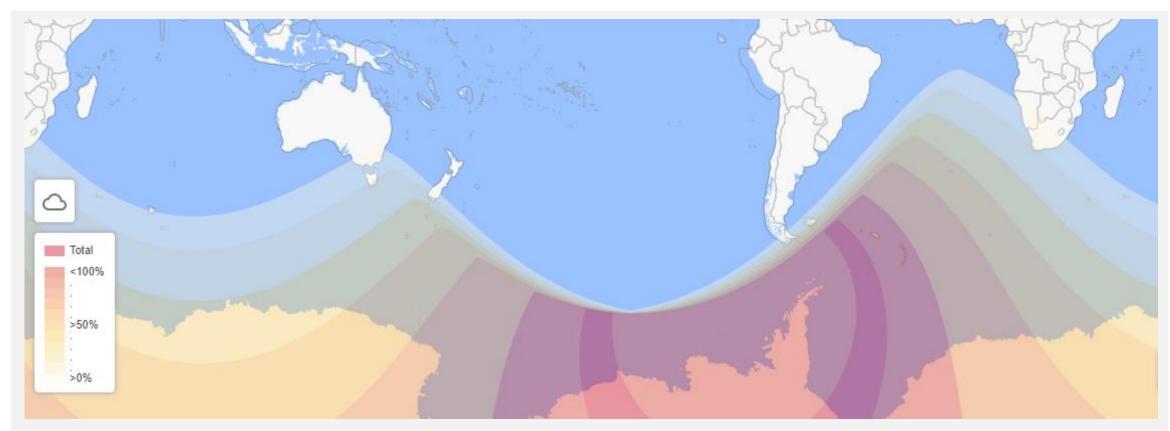
Eclipse Map for 10 June 2021 – Annual Solar Eclipse



### 4 December

## Solar Eclipse (Total)

South in Australia, South in Africa, South in South America, Pacific, Atlantic, Indian Ocean, Antarctica



Eclipse Map for 4 December 2021 – Total Solar Eclipse

### Outlook for the eclipses in 2022 and 2023

2022						
	30 April	Solar Eclipse (Partial)	South/West South America, Pacific, Atlantic, Antarctica			
	25 October	Solar Eclipse (Partial)	Europe, South/West Asia, North/East Africa, Atlantic			
2023						
	20 April	Solar Eclipse (Total)	South/East Asia, Australia, Pacific, Indian Ocean, Antarctica			
	14 October	Solar Eclipse (Annual)	West in Africa, North America, South America, Pacific, Atlantic, Arctic			

## To show sunspots and to have a beautiful ring of fire on your final image, heavy light reduction is necessary

### **Solution 1: Use Dedicated ND Filter**



KENKO PRO ND100000

The AF function is less reliable due to the big difference between the background and the brightness of the sun. We recommend to shoot with manual exposure while checking the results on the LCD monitor and adjusting the values to the conditions.

#### **Solution 2: Use ND Filter Combos**



IMPORTANT: Even when using ND filters, looking directly at the sun is very dangerous for your eyes health. Always use "live view mode" when shooting during an eclipse.

## We suggest the following shutter speeds depending on the aperture as starting values\*

1/2000

1/1000

ISO: 100

Aperture

f 8

f 11

f 16

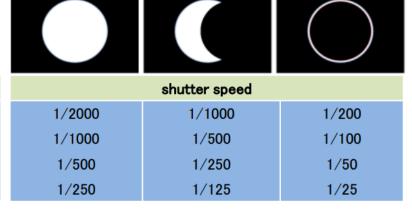
f 22

**Impossible** 

**Impossible** 

Filter

ND 100,000



**Impossible** 

1/5000

ND 1,000 + ND 16	f 8
	f 11
+	f 16
	f 22

ND500 + ND 8	f 8
	f 11
+	f 16
	f 22

1/5000	1/2500	1/500
1/2500	1/1250	1/250
Impossible	Impossible	1/6000
Impossible	Impossible	1/3000
Impossible	1/8000	1/1500
1/8000	1/4000	1/750

As you can see, low f-stops reduction like ND4000 (ND500 + ND8) may limit your option on aperture and shutter speed. For this reason, the use of a dedicated ND100000 filter is suggested. ND16000 (ND1000 + ND16) could be a good compromise.

TIP: The difference in f-stops reduction between ND100000 and ND64000 (ND1000 + ND64) is less than 1 f-stops. This means that for all intent and purpose you can use ND100000 suggested aperture and shutter speed values for this combination!

\*Please note that these should be considered only as starting values that you should adjust to the actual situation by taking different shots and making necessary correction.

### The Kenko filter line-up for the perfect eclipse shooting

### **Dedicated ND100000 Filter**

### Filter Combo (1000+100 or 1000+64)



KENKO PRO ND100000

#### KENKO REALPRO ND1000



#### KENKO REALPRO ND100



#### KENKO REALPRO ND64



In addition to the standard line-up of 52mm / 58mm / 77mm / 82mm, we plan to release 67mm & 95mm as well!

#### Recommended lenses



SZX SUPER
TELE 400mm F8
Reflex MF
Fits with
67mm filter



KENKO MIRROR LENS 400MM F8 N II Fits with 67mm filter



Tamron SP 150-600mm f/5-6.3 Di VC USD G2 Fits with 95mm filter

### Don't stop there!

Remember that after the eclipse has passed you can still enjoy your Kenko ND filters through creating long exposure images in different locations! ND100000 open up a lot of possibilities for extreme effects!

**REALPRO ND64** 





**REALPRO ND100** 





**REALPRO ND1000** 





REALPRO ND100000





