



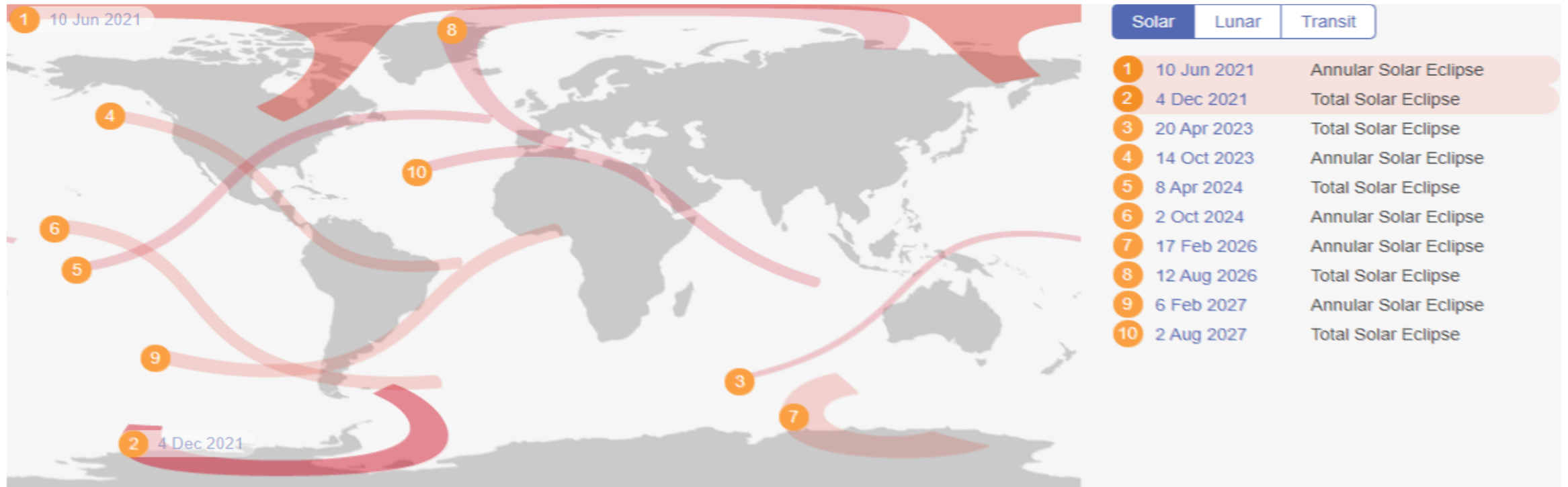
Solar Eclipses 2021

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 Jun.

Solar Eclipse
(Annual)

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



4 Dec.

Solar Eclipse
(Total)

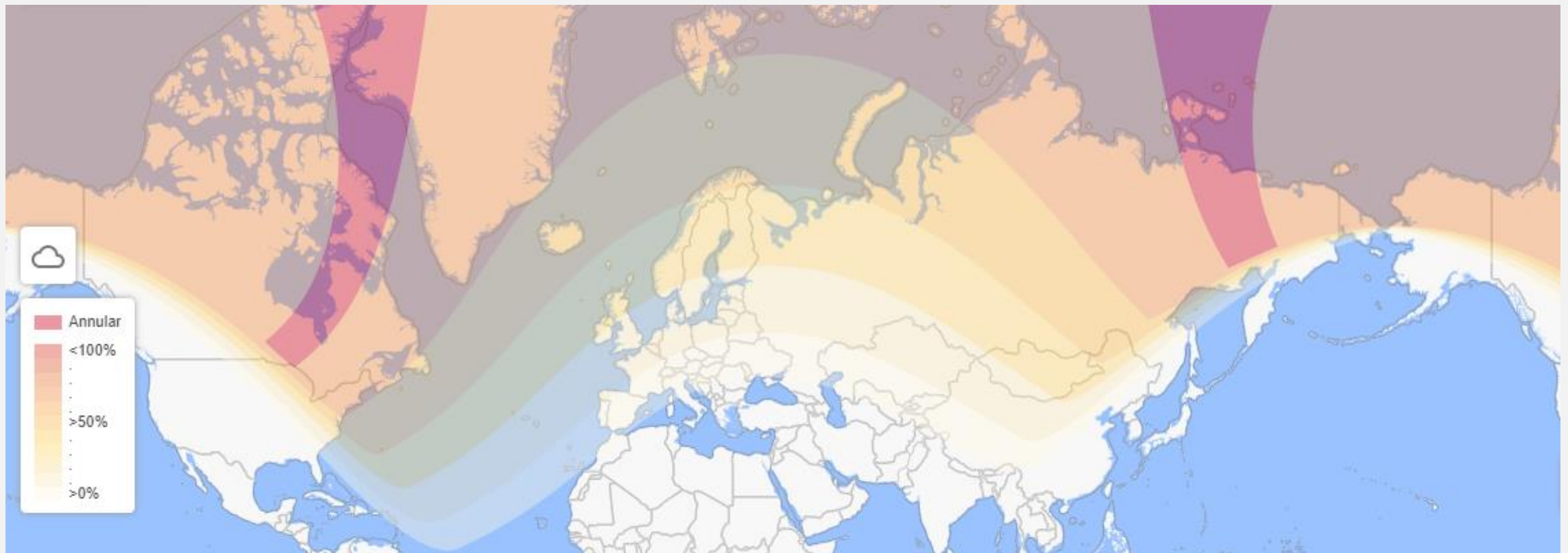
South in Australia,
South in Africa,
South in South
America, Pacific,
Atlantic, Indian
Ocean, Antarctica



10 June

Solar Eclipse (Annual)

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



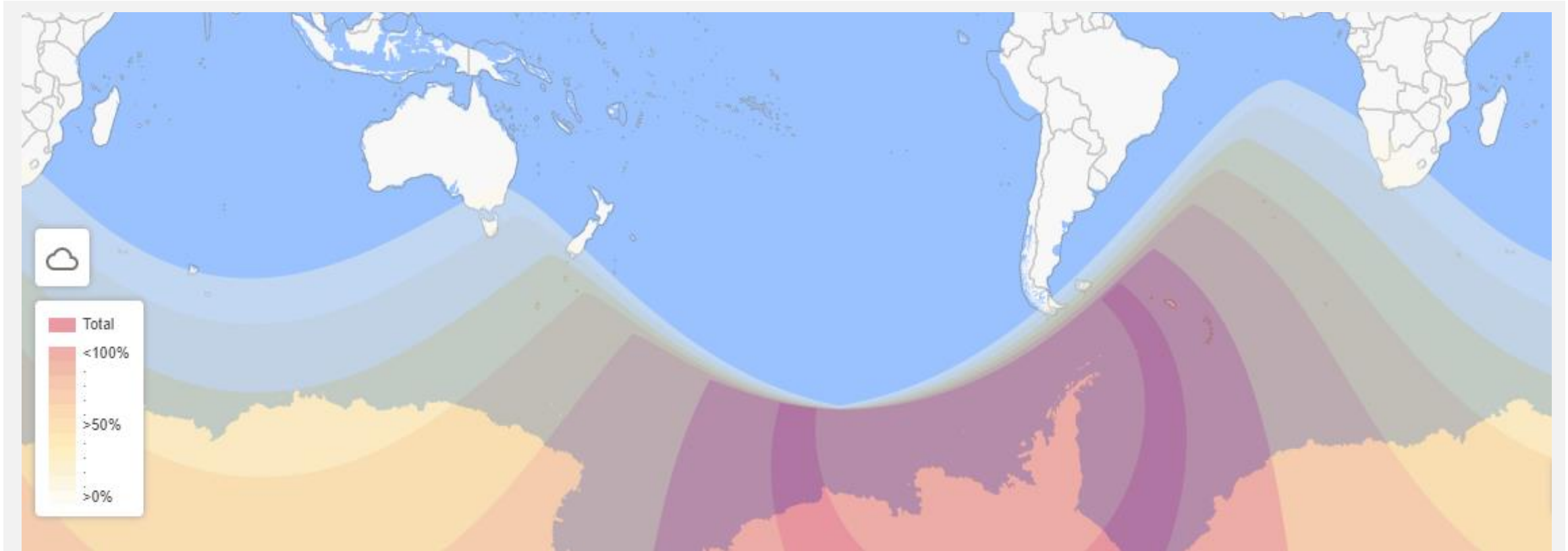
Eclipse Map for 10 June 2021 – Annual Solar Eclipse



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)

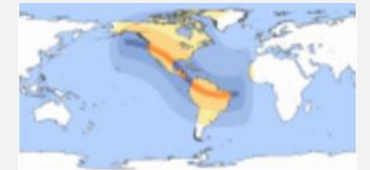
South/East Asia, Australia, Pacific,
Indian Ocean, Antarctica



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

Solution 2: Use ND Filter Combos



KENKO REALPRO
ND1000

+



KENKO REALPRO
ND100

→



Effective
ND100000

OR



KENKO REALPRO
ND1000

+



KENKO REALPRO
ND64

→



Effective
ND64000

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.




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*

ISO: 100



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.

Filter	Aperture	shutter speed		
ND 100,000 	f 8	1/2000	1/1000	1/200
	f 11	1/1000	1/500	1/100
	f 16	1/500	1/250	1/50
	f 22	1/250	1/125	1/25
ND 1,000 + ND 16 	f 8	Impossible	Impossible	1/2000
	f 11	Impossible	1/5000	1/1000
	f 16	1/5000	1/2500	1/500
	f 22	1/2500	1/1250	1/250
ND500 + ND 8 	f 8	Impossible	Impossible	1/6000
	f 11	Impossible	Impossible	1/3000
	f 16	Impossible	1/8000	1/1500
	f 22	1/8000	1/4000	1/750

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



KENKO PRO ND100000

Filter Combo (1000+100 or 1000+64)

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



Kenko



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