

Review of the manuscript "The WGLC global gridded lightning climatology and time series, 2022 update" by Kaplan and Lau.

**General comments.**

The manuscript presents an update of the WGLC global gridded lightning climatology and timeseries using the lightning data of 2021 provided by WWLLN. The methodology used on the update is the same as described on Kaplan and Lau (2021).

On the manuscript is compared the spatial patterns of the climatological mean lightning and the lightning stroke power observed on 2021 respect to climatological mean total annual lightning over the ten-year period 2010-2020. The authors found some different on the spatial patterns which are briefly discuss.

The manuscript also reports a reprocessing of the WGLC presented by Kaplan and Lau (2021) to cover the 10-years period from 2012 to 2021. On this reprocessing the authors exclude the 2010 and 2011 WWLLN data, were the global lightning was below average given the build-out of the network.

The new 10-year quality lightning dataset will allow to perform a range of global and regional studies to investigate different topics where lightning activity is a relevant component.

The manuscript is well written and the presentation is well structured and clear. The figures are adequate and support the analysis and results presented on the study.

Therefore, I consider that the manuscript is ready for publication.