Comment on egusphere-2022-379
Anonymous Referee #2

The paper by Kákona et al. deals with the ground measurements of thunderstorm activity using set of instruments placed on measuring cars. The combination of optical measurement with a high-speed camera and a UHF receiver was successfully used to determine the mean lightning duration. With further evolution of the measuring set, it will be possible to map the development of lightning in more detail.

The correlation of the VLF signal with the data from the Blitzortung.org network is not very convincing. Problems with triggering other instruments also confirm that. One of the reasons for the poor function of the receiver can be seen in the horizontal location of the antenna, just above the conductive roof of the vehicle. Alternatively, the signal from the EFM could also be used to trigger other devices.

I can’t identify the EFM and some of the other instruments in Figure 1. Do you have a picture with a description of all devices?

In Figure 9 and 10, the interval marked around the vertical lines is relatively wide. How accurate was the correlation with the Blitzortung.org network data in this case?

The procedure for determining the duration of the lightning does not take into account the number of strokes in it. The average duration will be affected by the proportion of recorded single and multiple stroke lightning strikes.