Referee comment on "Indices of Extremes: Geographic patterns of change in extremes and associated vegetation impacts under climate intervention" by Mari R. Tye et al., EGUsphere, https://doi.org/10.5194/egusphere-2022-1-RC1, 2022

This study investigated changes in extreme surface temperature and precipitation indices, and associated vegetation responses under Geoengineering Large Ensemble (GLENS) maintaining global mean surface temperature, the interhemispheric temperature gradient, and the equator-to-pole temperature gradient at 2020 levels. GLENS involves sulfur dioxide injections at four locations (30°N, 15°N, 15°S, and 30°S), however previous stratospheric aerosol geoengineering simulations are almost simulated by equatorial injection. If comparing with the equatorial injection simulations, it would be helpful to understand the responses of extremes indices associated vegetation under GLENS.