Plazzotta, Maxime; et al. (2018): Land surface cooling induced by sulfate geoengineering constrained by major volcanic eruptions

"Solar radiation management by stratospheric aerosol injection (SRM-SAI) has been proposed as a possible method to counteract anthropogenic global warming, with climate models suggesting it could reduce substantially global temperature and associated impacts. Its effectiveness as simulated by Earth system models (ESMs) exhibits however large uncertainties, implying high risks for natural and human ecosystems. Here we identify an emergent relationship linking the long-term global land surface cooling due to SRM-SAI and the short-term cooling following the 20th century major volcanic eruptions across an ESMs ensemble."

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