

Abstract:

*The project REACT4C (Reducing Emissions from Aviation by Changing Trajectories for the benefit of Climate) investigates the feasibility of changing flight routes and altitudes to reduce the environmental impact of aviation emissions in dependency of the actual weather situation and estimates the overall global effect of such ATM (**a**ir **t**raffic **m**anagement) measures in terms of climate change. A multi-model-intercomparison of simplified mitigation studies is performed in order to assess and quantify uncertainties of aviation climate change.*