

Questions for Discussion

- What stratosphere or stratosphere-troposphere coupling processes are still poorly simulated in climate or forecast models? Is this because of lack of observations to constrain them, lack of process understanding, or lack of computational resources?
- What are the prospects for future measurements of the stratosphere? What are the phenomena that models struggle with and require (and can make use of) guidance from observations?
- Considering the computational cost of full climate-chemistry dynamical simulations of stratospheric processes, what role can machine learning methods play in an “AI assisted” modeling approach? What areas show the most promise for doing so?
- What are the ethical considerations for pursuing research into climate intervention? What about field studies or tests of concept?
- What major current programs/projects are relevant to advancing stratosphere-troposphere coupling studies? Is there an area where US CLIVAR can link more strongly to these projects?

