

## Response to Scott Barrett

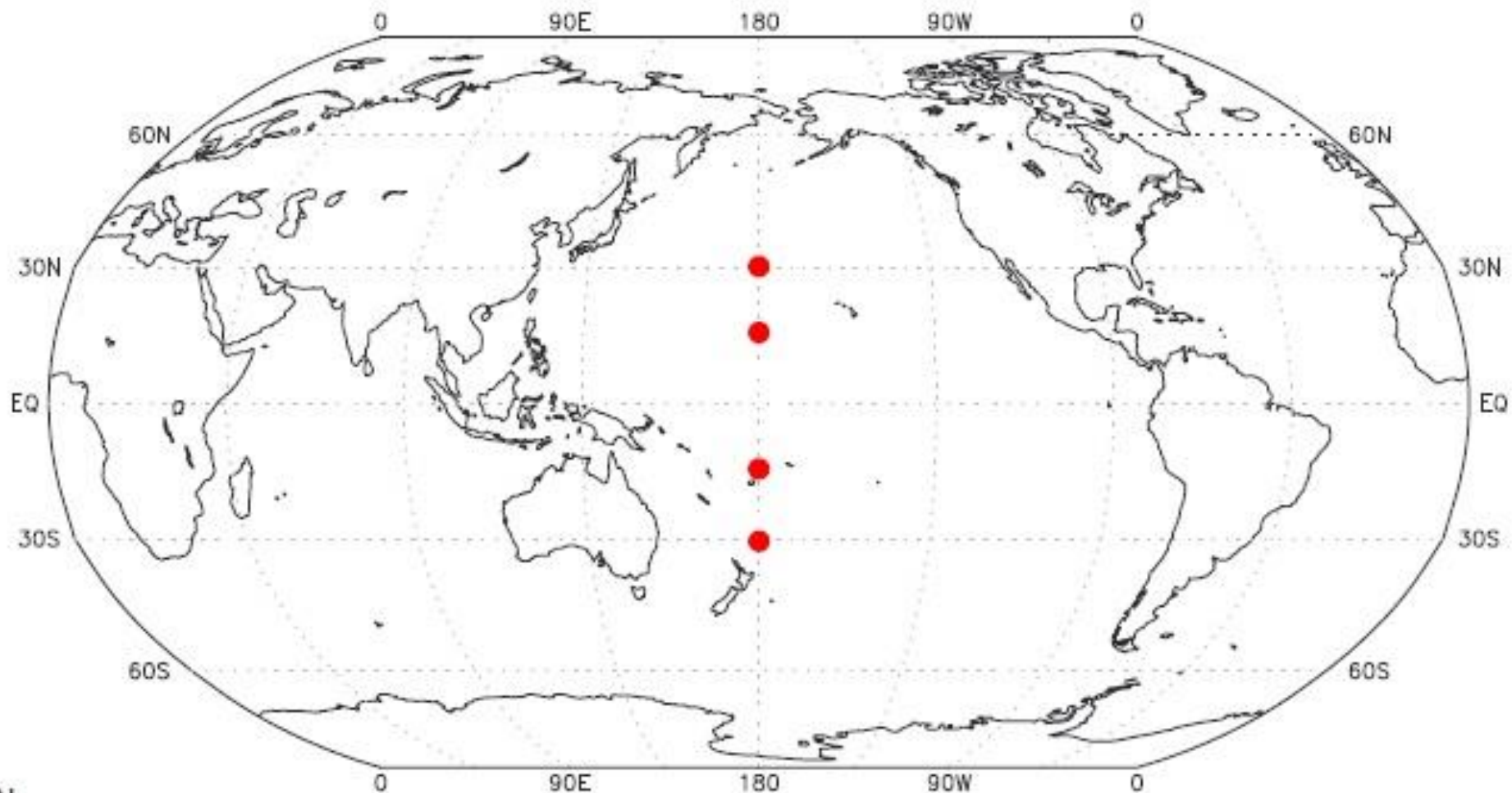
# Research Workshop on Governance of the Deployment of Solar Geoengineering

Stefan Schäfer

Harvard University, September 27<sup>th</sup>, 2018

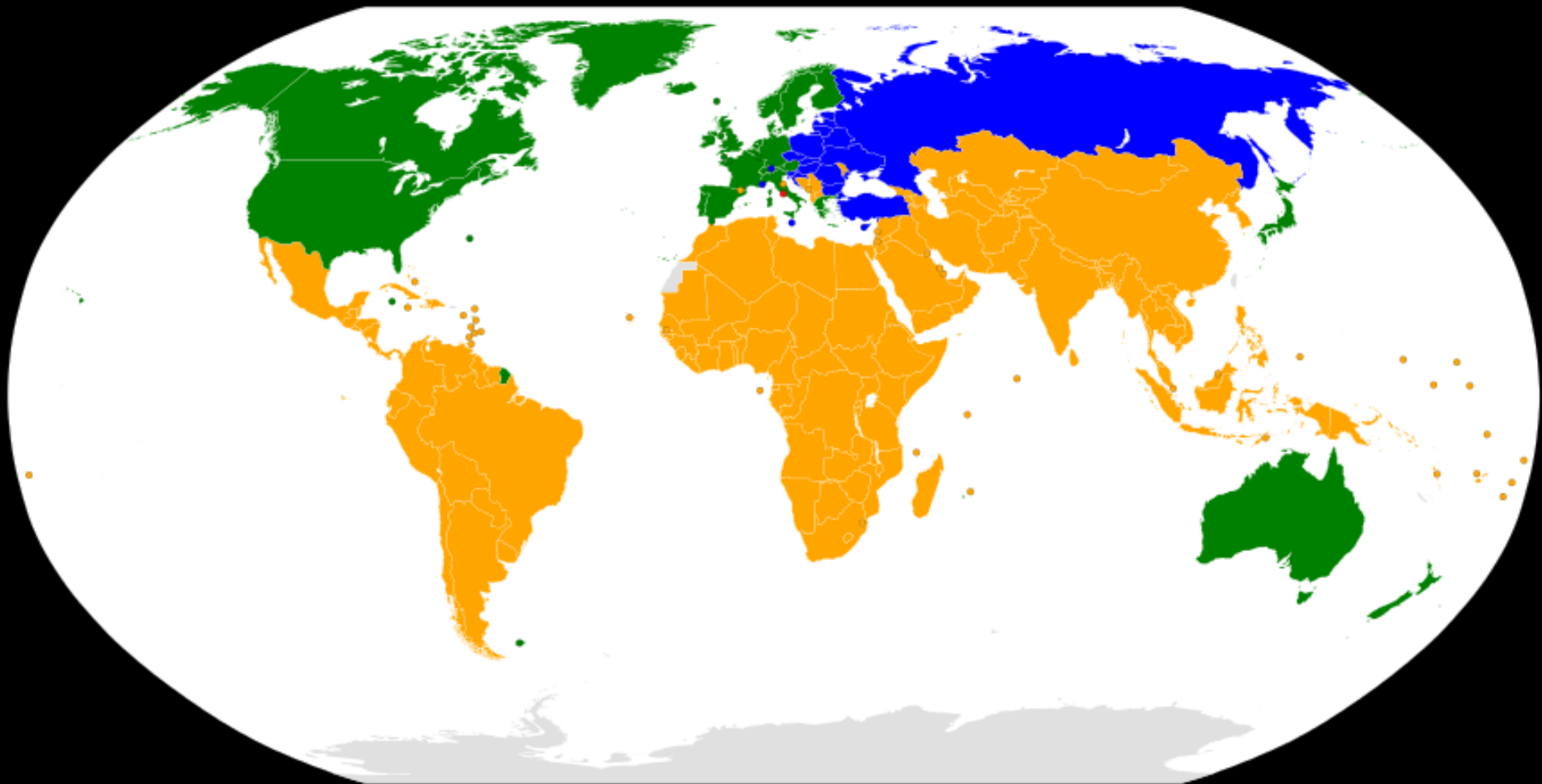
[stefan\\_schaefer@hks.harvard.edu](mailto:stefan_schaefer@hks.harvard.edu)

# The world of geoengineering?



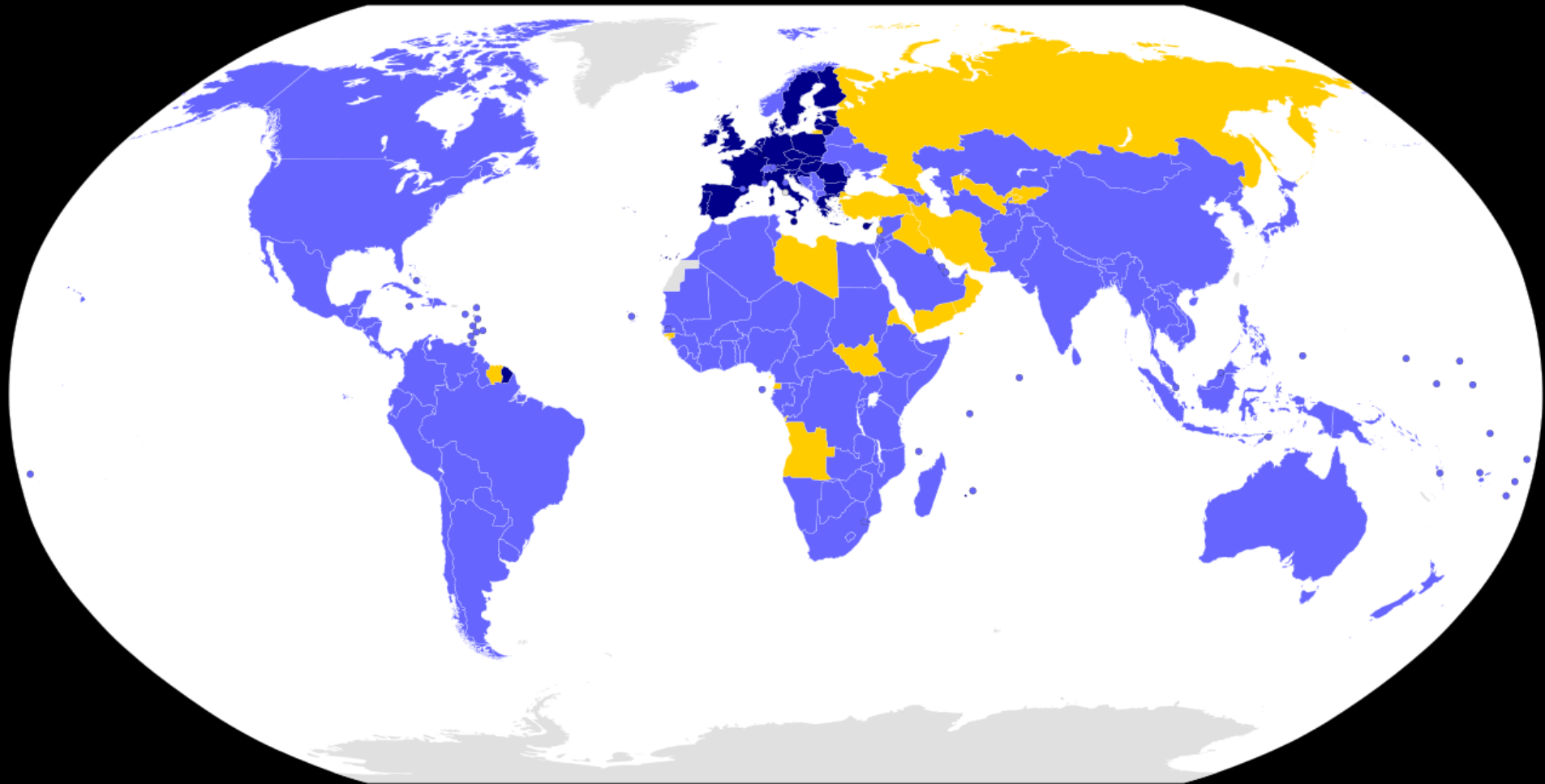
Kravitz et al. 2017, First Simulations of Designing Stratospheric Sulfate Aerosol Geoengineering to Meet Multiple Simultaneous Climate Objectives, in *JGR Atmospheres*, 122, p. 12,619.

# The world of the UNFCCC, 1992



Green and blue: Industrial countries (Annex 1)  
Yellow: Developing countries

# The world of the PA, 2015



Blue and dark blue: State Parties & EU  
Yellow: Signatories

“The countries most likely to be affected”—How would you know how you’re affected?

- Weather becomes blameworthy?
- A regime for „no-fault climate change compensation“ (Wong, Douglas & Savulescu 2014)?

“The countries most likely to be affected”—How would you know how you’re affected?

- “We have raised many more questions than we are even remotely capable of answering, but we do wish to offer one ‘modest’ proposal, for ‘no fault climate disaster insurance.’ If a large segment of the world thinks the benefits of a proposed climate modification scheme outweigh the risks, they should be willing to compensate those (possibly even a few of themselves) who lose their favored climate (as defined by past statistics), without much debate as to whether the losers were negatively affected by the scheme or by the natural course of the climate. After all, experts could argue both sides of cause and effect questions and would probably leave reasonable doubts in the public's mind.” (Kellogg and Schneider 1974)

Science in Society Series



# EXPERIMENT EARTH

RESPONSIBLE INNOVATION IN  
GEOENGINEERING

JACK STILGOE

earthscan  
from Routledge

Stilgoe 2014



T H E



P L A N E T



R E M A D E



How Geoengineering Could Change the World



O L I V E R M O R T O N



# OUR COMMON FUTURE

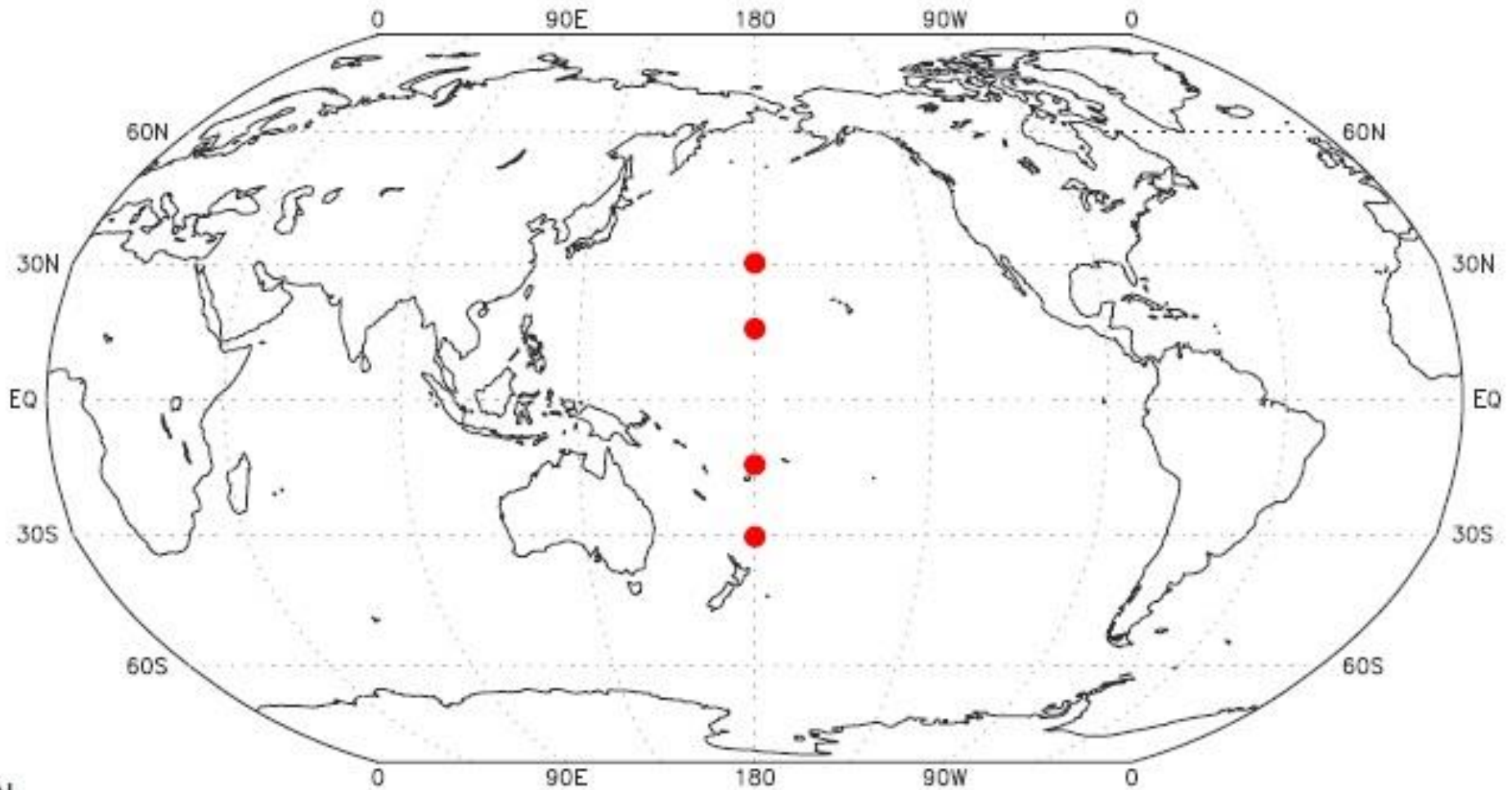
THE WORLD COMMISSION

ON ENVIRONMENT

AND DEVELOPMENT

“From One  
Earth to One  
World”

# The world according to geoengineering?



Kravitz et al. 2017, First Simulations of Designing Stratospheric Sulfate Aerosol Geoengineering to Meet Multiple Simultaneous Climate Objectives, in *JGR Atmospheres*, 122, p. 12,619.



“The countries most inclined to geoengineer”—which are those?

- Who is the free driver?
- Who would find geoengineering the “right” thing to do?

# Geopiracy



ETC Group

The Case Against Geoengineering

ETC Group 2010, *Geopiracy*

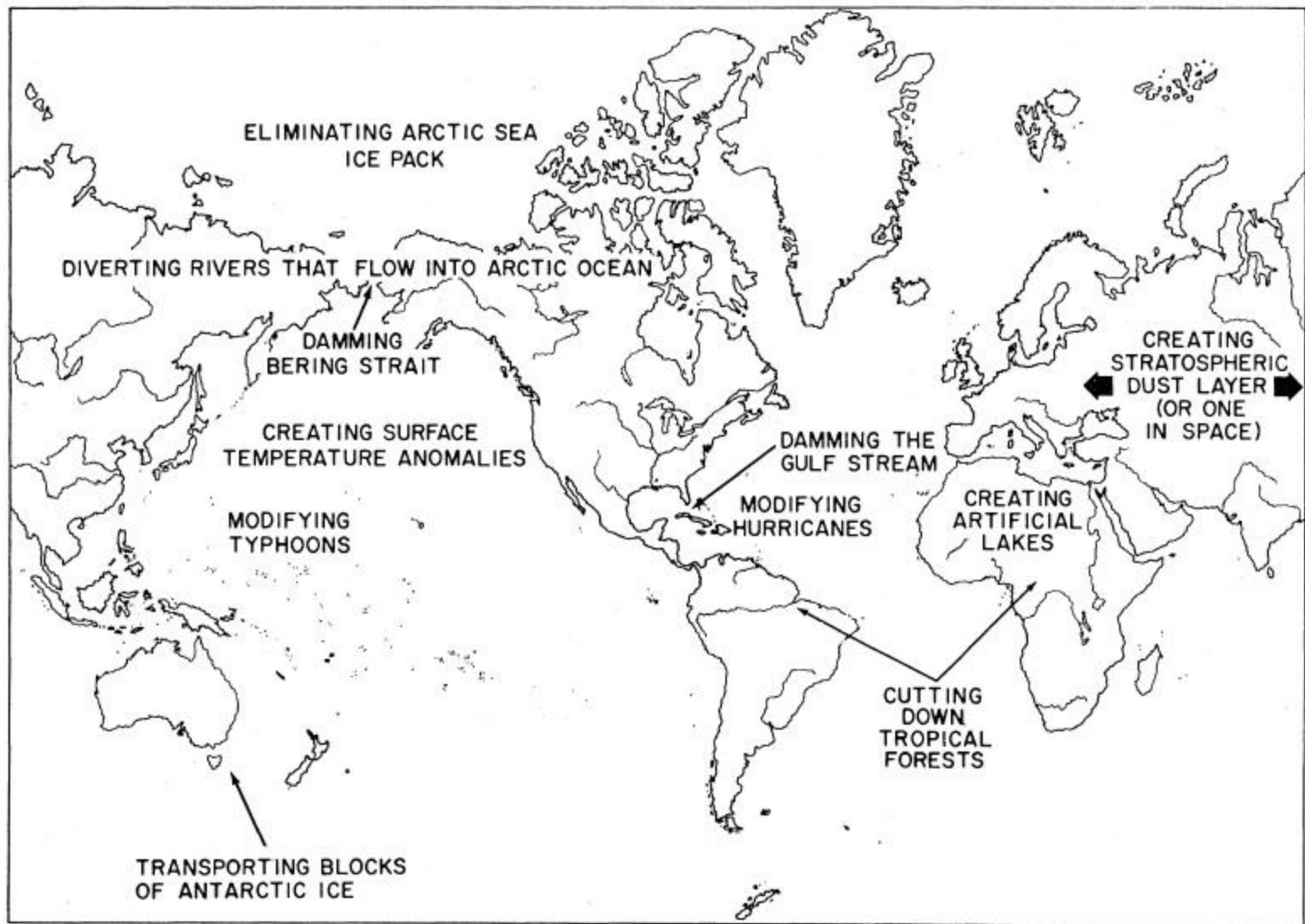


Fig. 4. Schematic illustration of the kinds of engineering schemes that could be proposed to modify or control the climate.