## Summary for Policymakers - Sriver

* It is very likely that the well-mixed GHGs were the main driver of tropospheric warming since 1979 and extremely likely humans caused the hole in the ozone layer
* Very likely humans melted Greenland ice w/ limited evidence of humans causing Antarctic ice to lose mass
* Changes in land biosphere since 1970 have caused poleward shift in climate zones, which has caused +2 growing days per decade in the Northern extratropic regions (except Georgia, which has lost a few days)
* Land will heat up more than water, but there are still marine heatwaves
* El Nino will be amplified in the second half of the 21st century
* Loss of permafrost carbon following permafrost thaw is IRREVERSIBLE at centennial time scales (high confidence), which is false and dogmatic thinking as the permafrost can be regenerated with the reintroduction of Beringian mammals in the Boreal tundra of Russia and Canada

## Fournier Reading

* We are taking a different path than the previous 7 interglacial periods for all GHGs

## Sriver Lecture