AGU FALL MEETING

H43A-01 - IMPLICATIONS OF CLIMATE AND SOCIOECONOMIC CHANGE FOR FUTURE DROUGHT RISK

Elkouk Ahmed, Yadu Pokhrel, Yusuke Satoh, and Lhoussaine Bouchaou (elkoukah@msu.edu)

Thursday, 16 December 2021

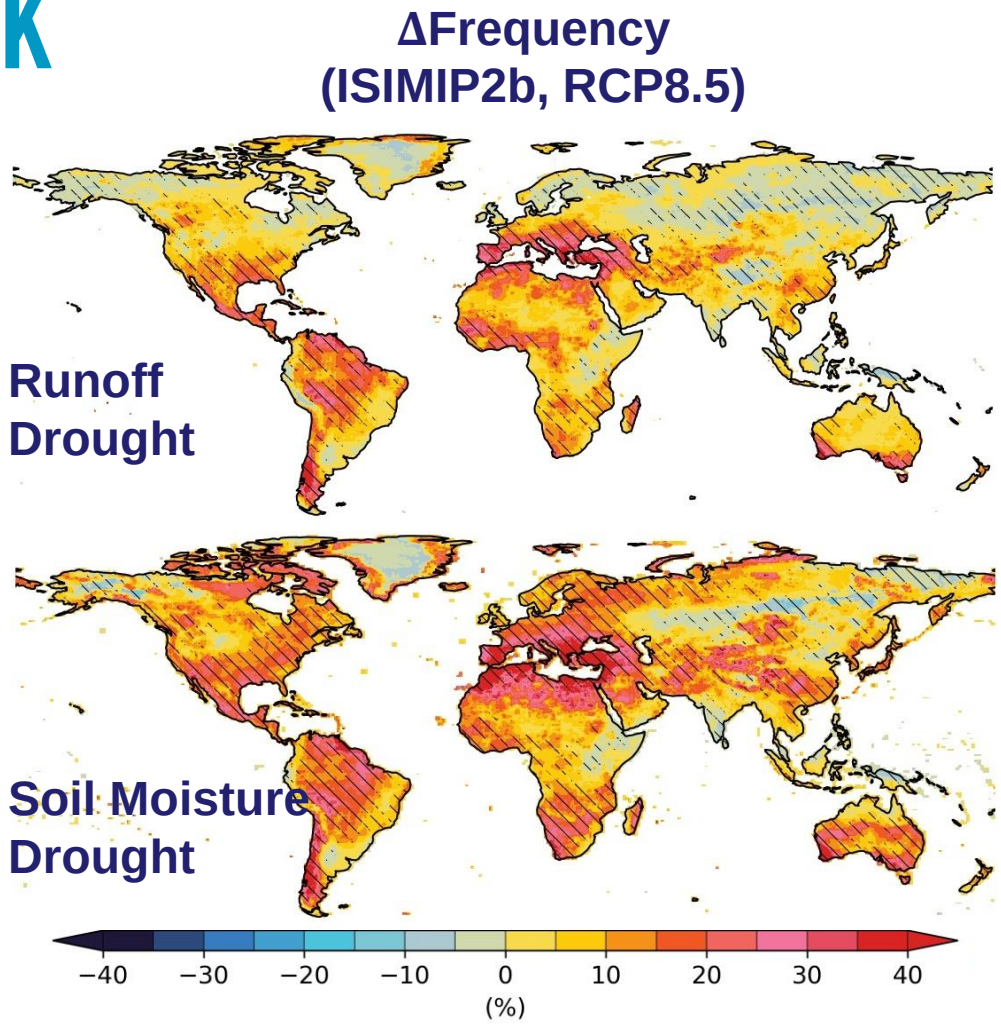
جامعة ابن زهر
UNIVERSITÉ IBN ZOHR

FULBRIGHT
U.S. Student Program

MICHIGAN STATE UNIVERSITY

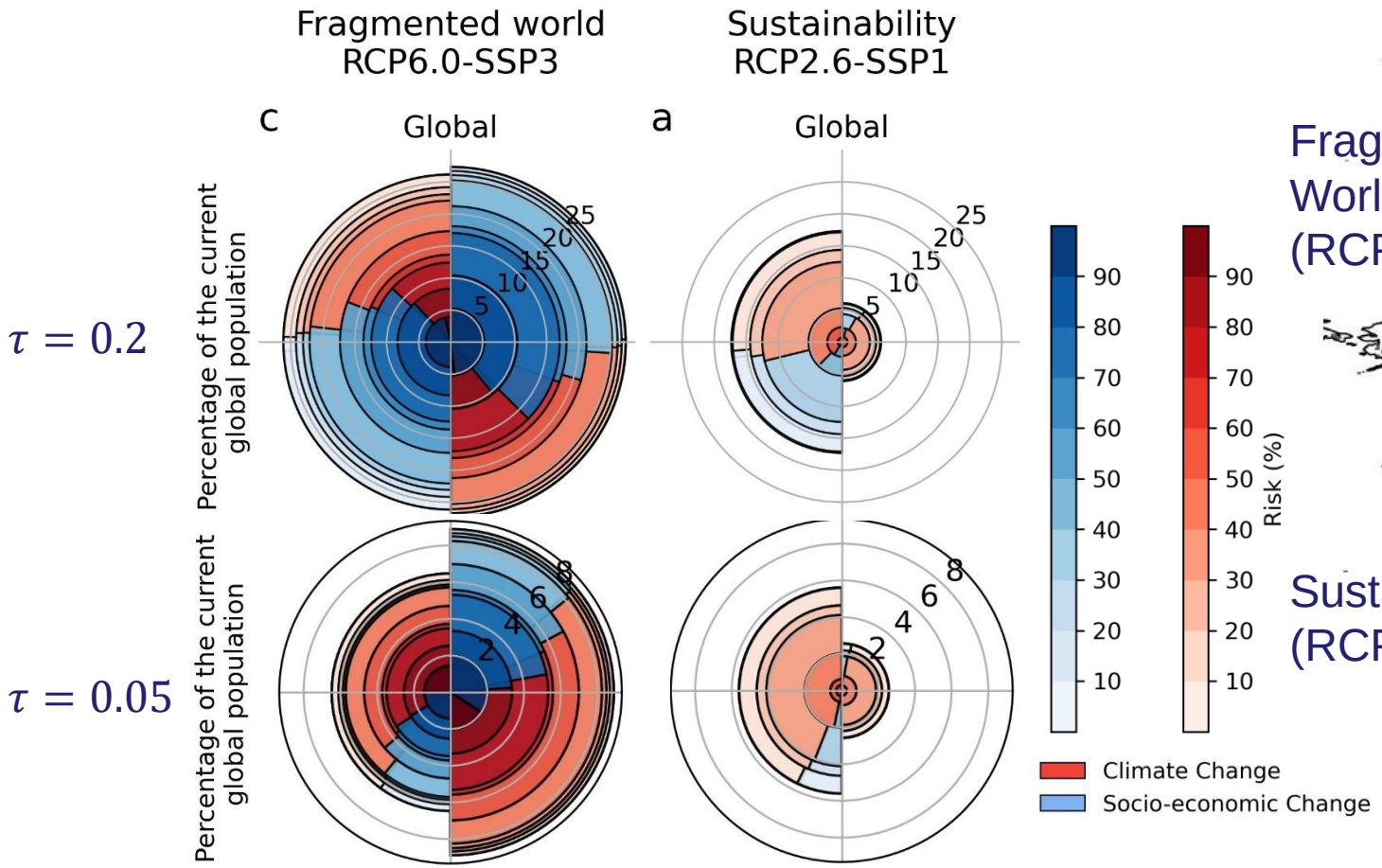
COMPLEXITY OF FUTURE DROUGHT RISK

- Climate change-forced trends in drought differ largely across indicators (precipitation, soil moisture, runoff, and vegetation)
- Drought impacts differ profoundly depending on a nation's coping capabilities (Vulnerability)
- Illustrate how the incorporation of human development (proxy of *adaption capacity*) alter future drought risk globally?



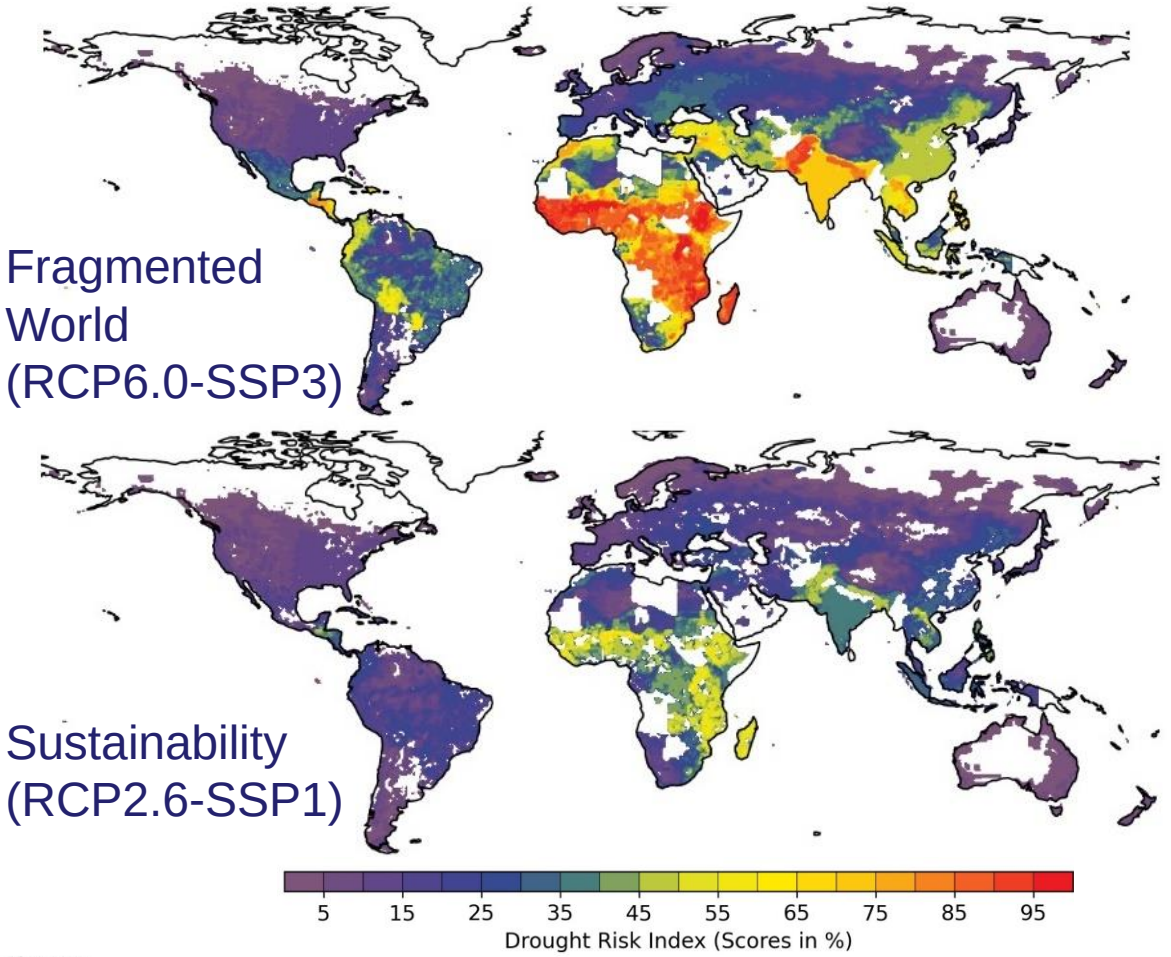
AGU FALL MEETING

HUMAN DEVELOPMENT & CLIMATE MITIGATION MATTER



Soil Moisture

21st-century Drought Risk



Elkouk et al., (2022)

THANK YOU

Anthropogenic warming heightens the need for rapid human development and enormous adaptation efforts

@AhmedElkouk

elkoukah@msu.edu

AGU FALL MEETING