2017 WCRP-JNU Training School

Climate responses to volcanic eruptions : Hydrology cycle in monsoon regions

Seungmok Paik

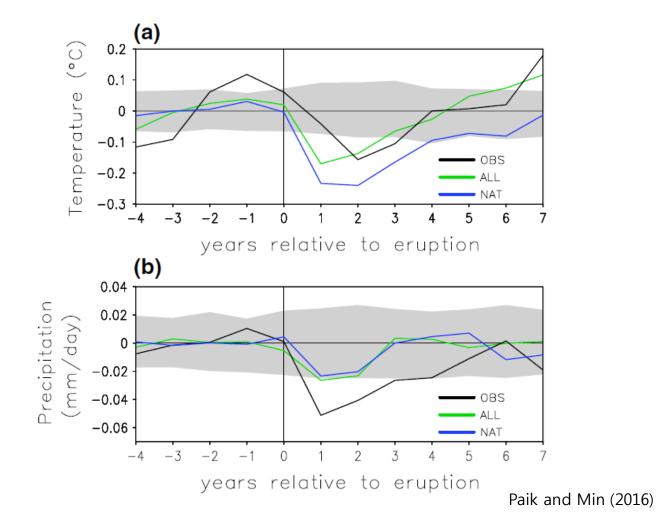
Pohang University of Science and Technology (POSTECH)





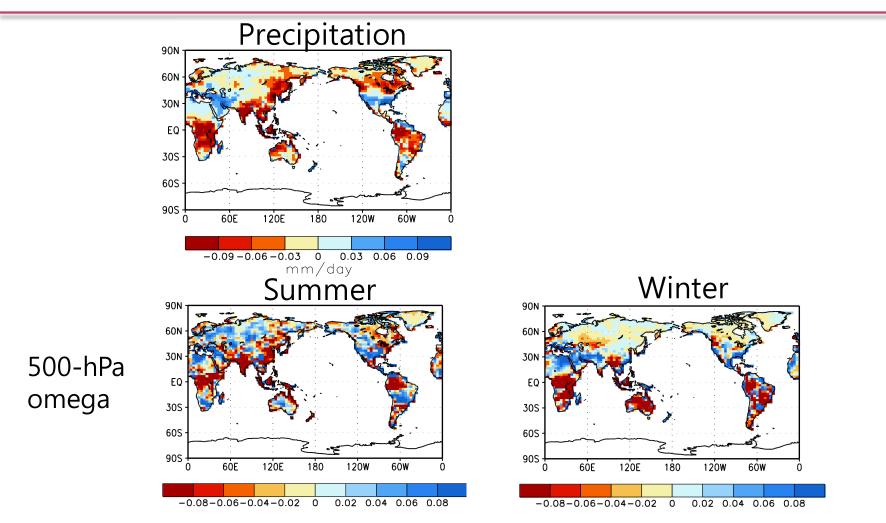
Climate responses to volcanic eruptions





Global mean temperature and precipitation reduction following volcanic eruptions

Precipitation reduction : Monsoon circulation

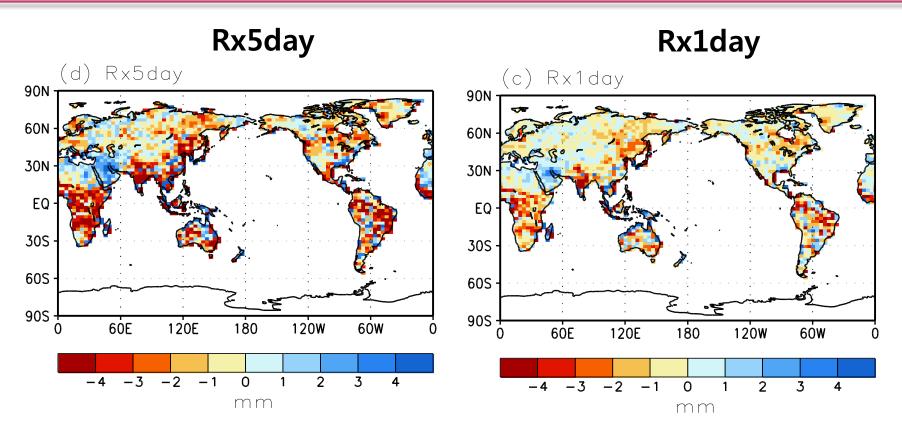


- Precipitation reduction concentrated on monsoon regions
- : Related to monsoon circulation reduction (due to greater cooling in land than ocean)

POSTPEH POHANG UNIVERSITY OF SCIENCE AND TECHNOLOGY POSTECH

Extreme precipitation reduction





- Extreme precipitation decrease to volcanic forcing
- : Concentrated on monsoon regions
- Challenge for my research : Find evidence whether monsoon circulation reduction is really due to land-sea contrast





Thank you !

