



MAPPING RAINFALL ANOMALIES DURING THE RECENT 2015-2016 EL NIÑO EVENT

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EL NIÑO AFFECTS RAINFALL PATTERNS

El Nino is a cycle of unusually warm sea surface temperatures originating in the Eastern Pacific

El Nino has been associated with changes in rainfall patterns

Implications are significant for food and water security

The 2015-2016 event was the strongest on record; events of this scale may become more frequent under climate change



NASA satellites

TRMM: 1998-2014

GPM: 2014-present

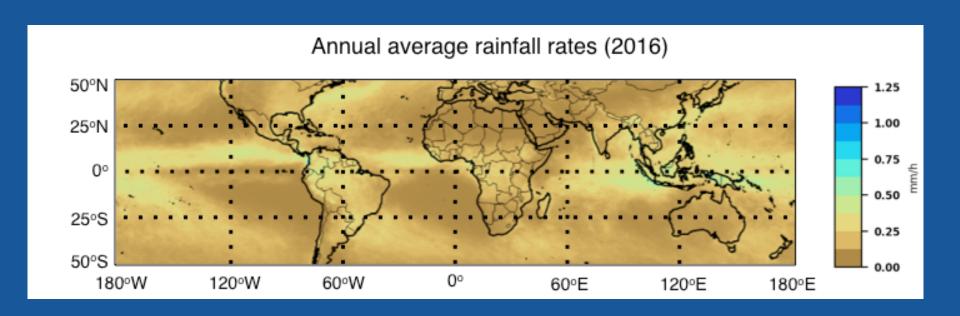


LIVE DEMONSTRATION

Let's move to Jupyter

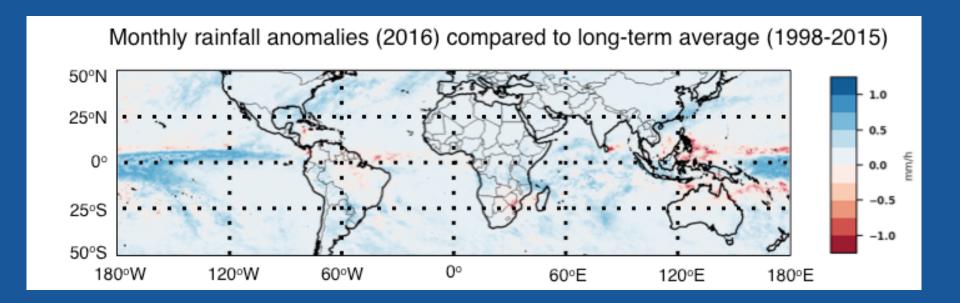


PLOTS: AVERAGE RAINFALL RATES





PLOTS: DIFFERENCE





REPRODUCIBLE SCIENCE

All files:

https://github.com/Krishna-K2609/eeb-177-final-project

This presentation:

https://github.com/Krishna-K2609/eeb-177-final-project/

<u>presentation</u>