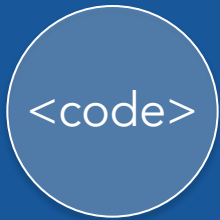

P. Krishna Krishnamurthy presents



MAPPING RAINFALL ANOMALIES

DURING THE RECENT 2015-2016 EL NIÑO EVENT

P. Krishna Krishnamurthy

EEB 234 | Winter 2017

Thursday 9th March, 2017



EL NIÑO AFFECTS RAINFALL PATTERNS

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

El Niño has been associated with changes in rainfall patterns

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



DATA

NASA satellites

TRMM: 1998-2014

GPM: 2014-present



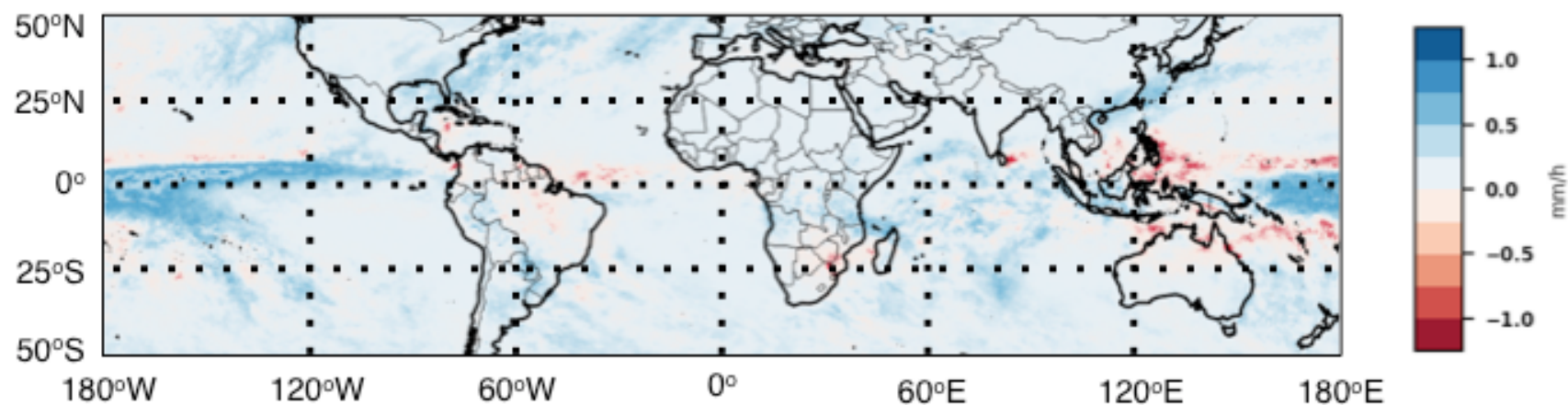
LIVE DEMONSTRATION

Let's move to Jupyter



PLOTS: DIFFERENCE

Monthly rainfall anomalies (2016) compared to long-term average (1998-2015)





REPRODUCIBLE SCIENCE

All files:

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

This presentation:

[https://github.com/Krishna-K2609/eeb-177-final-project/
presentation](https://github.com/Krishna-K2609/eeb-177-final-project/presentation)