

Approaches for assessing risk and losses on fisheries and agriculture

Geospatial analyses based on the 2015/2016 El Niño and other climate variabilities in Pacific SIDS

Assessing damage and loss

Three key questions

- How much is at risk?
- How much was lost?
- How much likely to be lost in the future?

PRE-DISASTER RISK ASSESSMENT:

Hazard, vulnerability, Exposure

- Geospatial approach
- Probabilistic Approach

DISASTER LOSSES (PAST EVENTS)

Loss Accounting

- Recording impacts (damage and loss)
- Measuring Trends

DISASTER LOSSES (FUTURE RISK)

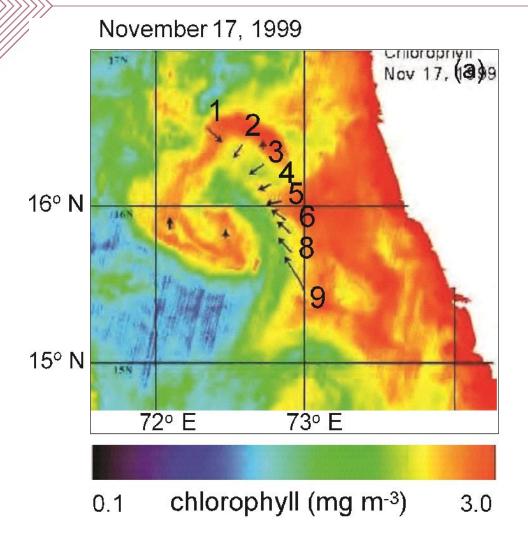
- Downscaling climate scenarios using geospatial approaches
- Probability of losses /Average Annual Loss

HOW MUCH IS AT RISK?

HOW MUCH WAS LOST?

HOW MUCH IS LIKELY TO BE LOST IN THE FUTURE?

2015/2016 El Niño Impacts on fisheries

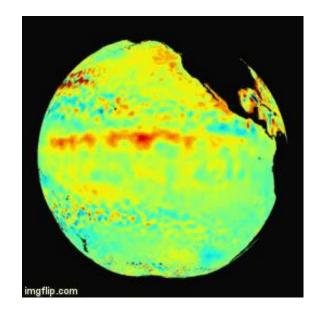


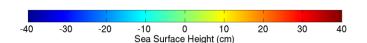
- Thermal remote sensing for chlorophyll identifying fishing grounds
- Higher catches reported for high chlorophyll areas (track 1-9)

Hokkaido, S.S, Chasso, E. et.al. (2009). Remote sensing applications to fish harvesting.

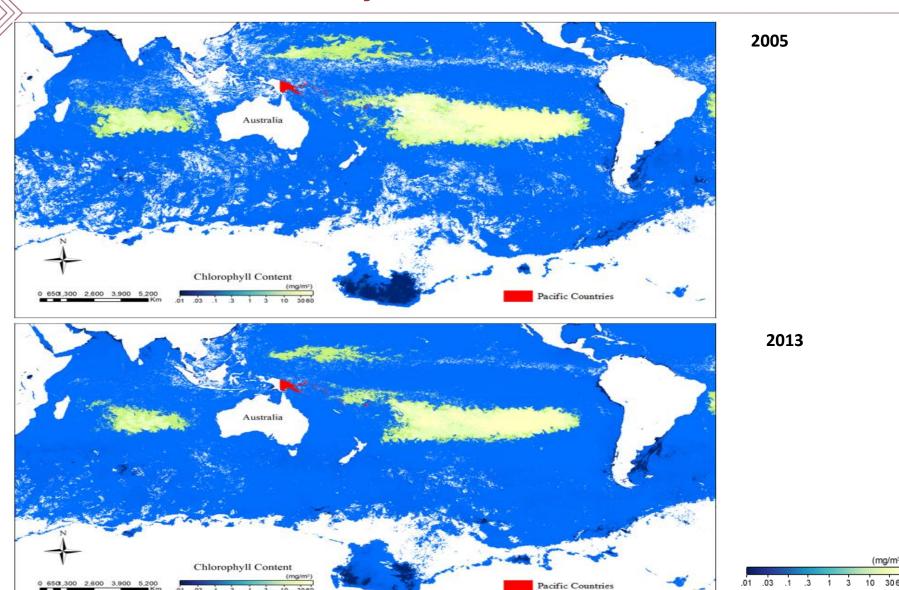
2015/2016 El Niño Impacts on fisheries

- Directly related to agriculture productivity including fisheries
- Amplifications of potential weather impacts
- Huge masses of warm water travel east across the Pacific Ocean and warm water changes storm systems in the atmosphere
- El Niño impacts chlorophyll concentration and phytoplankton bloom

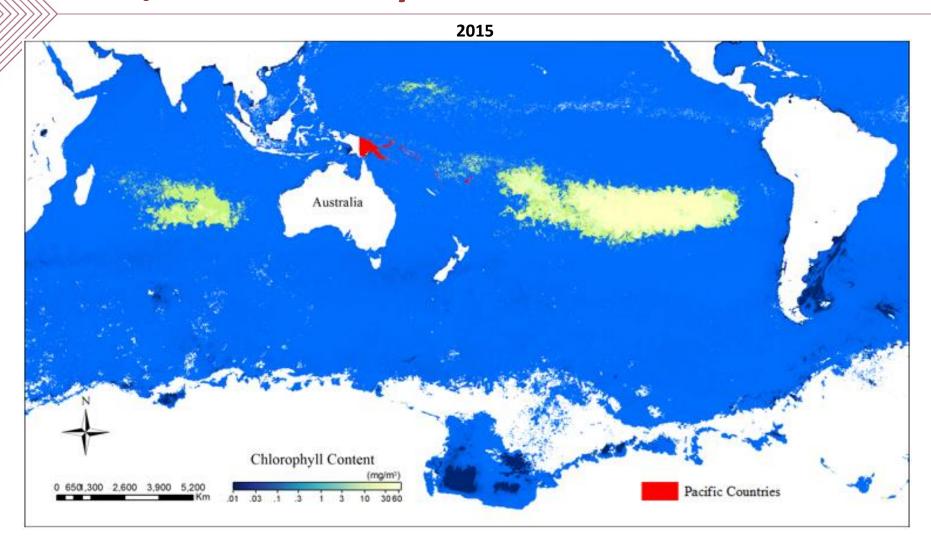




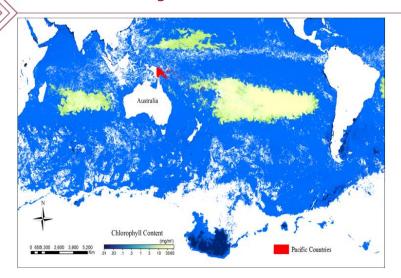
Determining global risk for fisheries during the 2015/2016 El Niño year

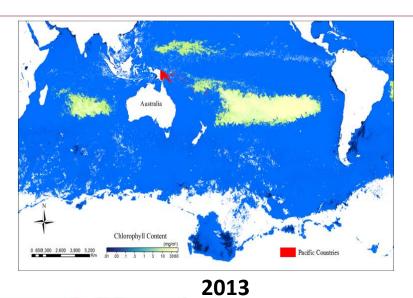


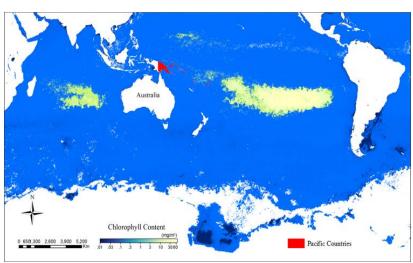
Determining global risk for fisheries during the 2015/2016 El Niño year



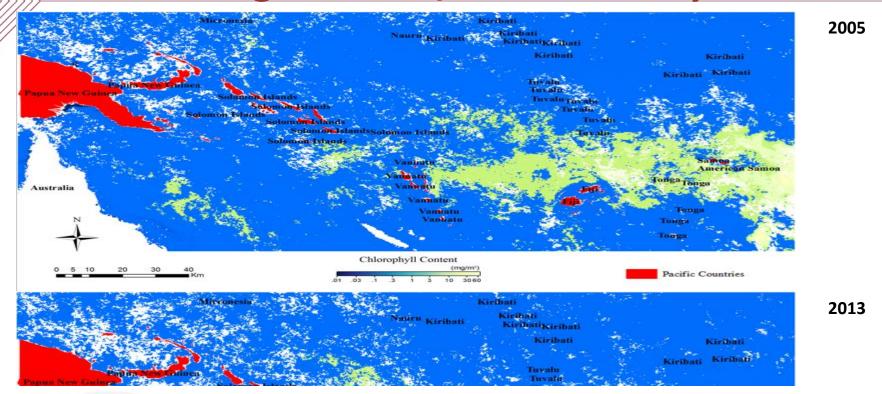
Determining global risk for fisheries during the El Niño year







Determining regional risk for fisheries in Pacific Islands during the 2015/2016 El Niño year



预览已结束, 完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5_2605

