

Equatorial Ocean Perspectives from the Big Ocean States (BOSS) of the Pacific

PACIFIC OCEAN

PACIFIC CLIMATE

SCIENCE for OCEAN ACTION

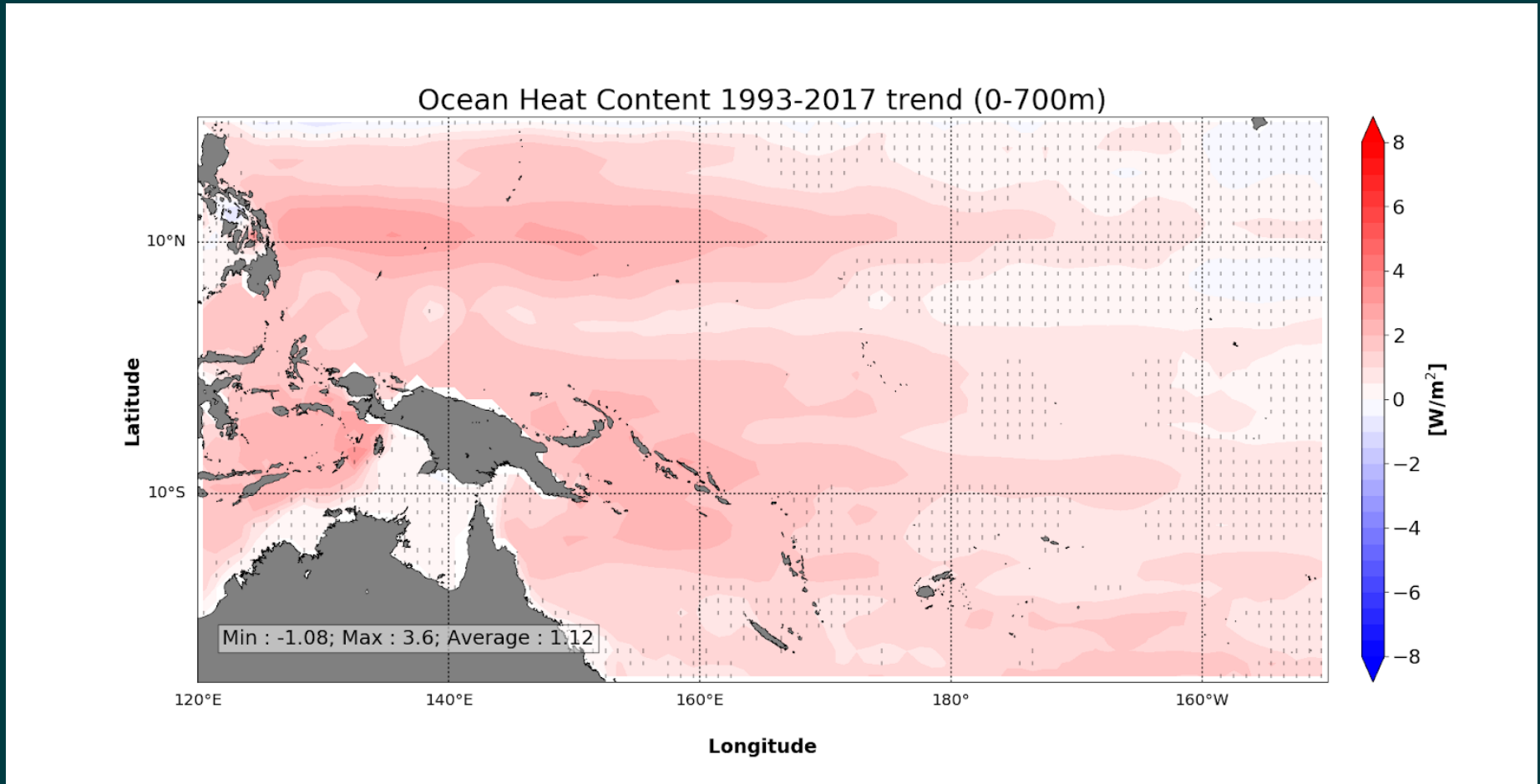
Professor Elisabeth Holland

Professor Climate Change

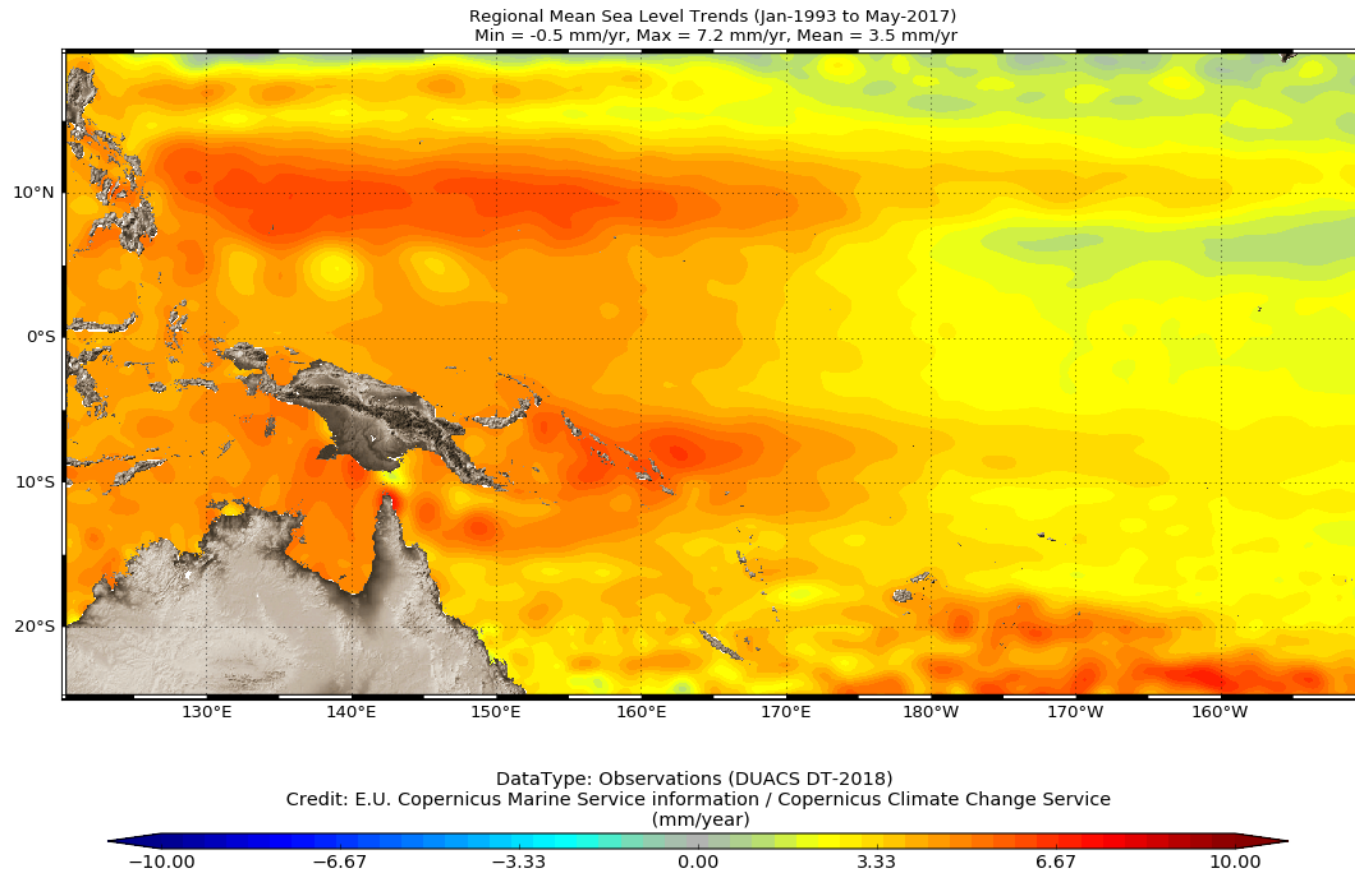
Director - Pacific Centre for Environment & Sustainable Development (PaCE-SD)

The University of the South Pacific (USP)

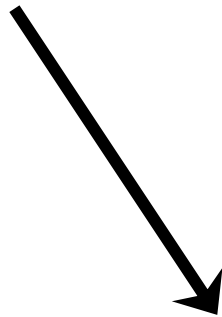
State of the Pacific: Warming Ocean



State of the Pacific: Rising Seas



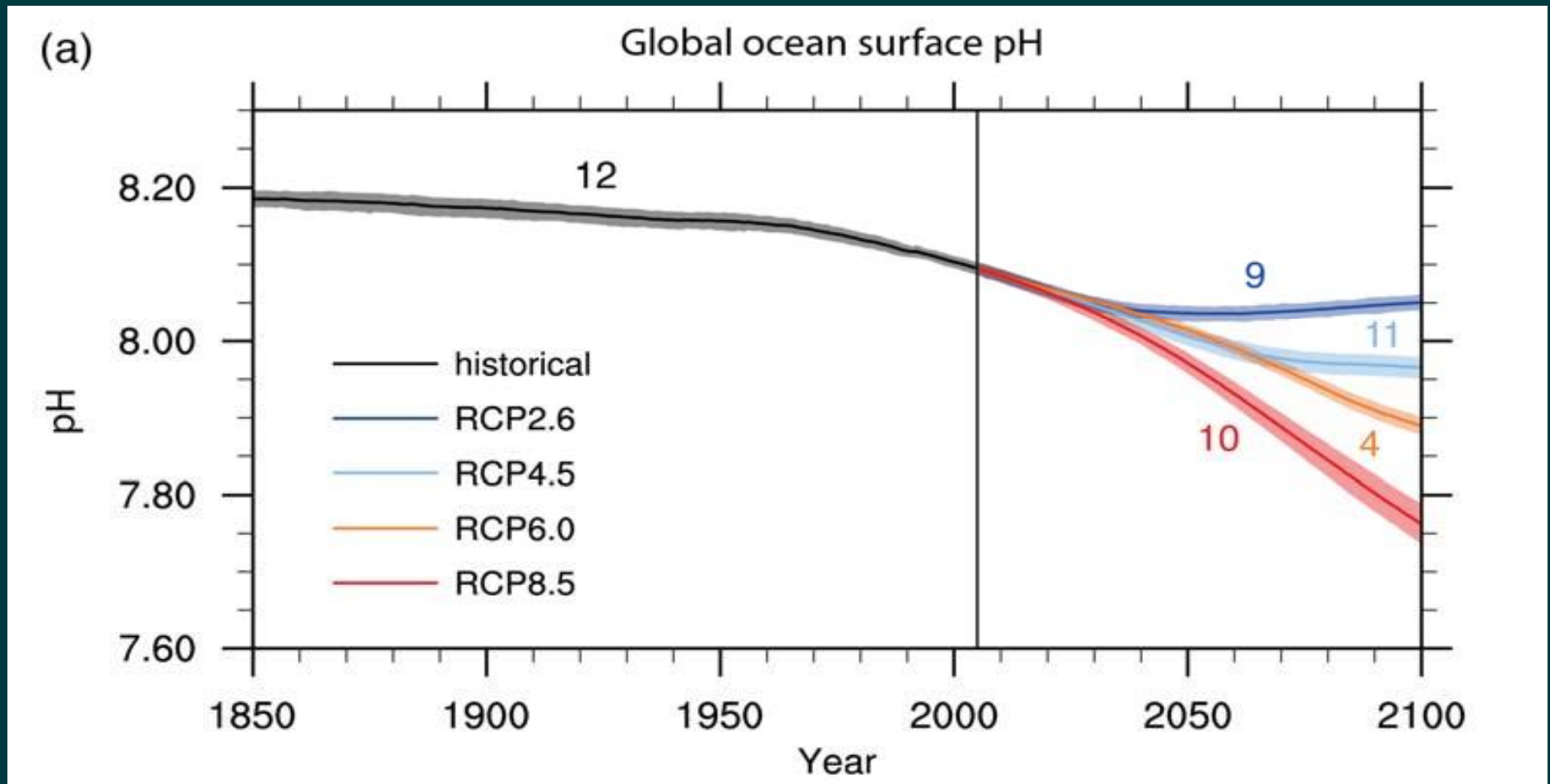
Accounting for Ocean Acidification In The Pacific Islands



24%
8.8 Gt CO₂/y



What are the consequences of those CO₂ emissions?





Climate Change



Sea level (m)



- *Vinaka vakalevu*
- *Fa'afetai tele lava*
- *Malo au'pita*
- *Tank iu*
- *Meral ma Sulang*
- *Ko rab'a*
- *Obrigado*
- *Tank yiu tumas*
- *Tenkyu tru*
- *Fakafetai lasi*
- *Kommol tata*
- *Meitaki Ma'ata*
- *Tubewa*
- *Fakaauae lahi*

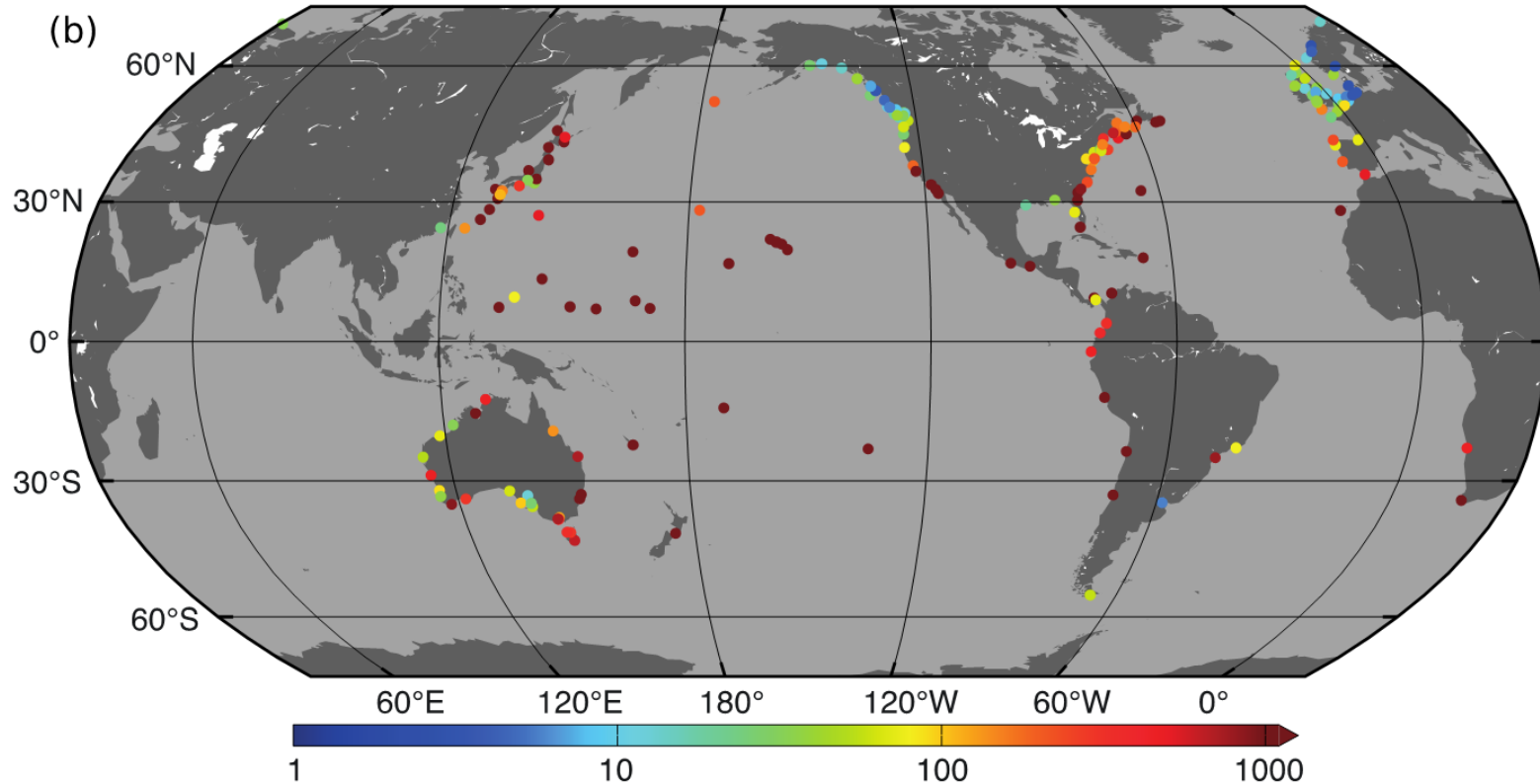
“The ocean was given to us by our ancestors to manage so that we could pass it on to our children and future generations. It is our common responsibility and moral obligation for our children”.

Foua Toloa, Minister, Tokelau, Commissioner, Global Ocean Commission

<https://www.change.org/p/ban-ki-moon-help-secure-a-living-ocean-food-and-prosperity-propose-a-new-agreement-for-high-seas-protection-2>



Climate Change: Rising Seas & Storm Surge



.25 | The estimated multiplication factor (shown at tide gauge locations by colored dots), by which the frequency of flooding events of a given height increase level (MSL) rise of 0.5 m (b) using regional projections of MSL for the RCP4.5 scenario, shown in Figure 13.19a.

TC Pam: USP Kiribati Campus



Sustainable Development Goals

SDG 13: Climate Action



SDG 14: Life below Water



For BOSS : Healthy Oceans at the Center

1 NO POVERTY



2 ZERO HUNGER



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



17 PARTNERSHIPS FOR THE GOALS



16 PEACE, JUSTICE AND STRONG INSTITUTIONS




14 LIFE BELOW WATER



6 CLEAN WATER AND SANITATION



8 DECENT WORK AND ECONOMIC GROWTH



15 LIFE ON LAND



13 CLIMATE ACTION



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



11 SUSTAINABLE CITIES AND COMMUNITIES



10 REDUCED INEQUALITIES

