

The BATTLE on CLIMATE CHANGE: ***GLIMPSES FROM THE FRONTS***

26th Pacific Islands Environment Conference

Saipan, CNMI

Saipan World Resort

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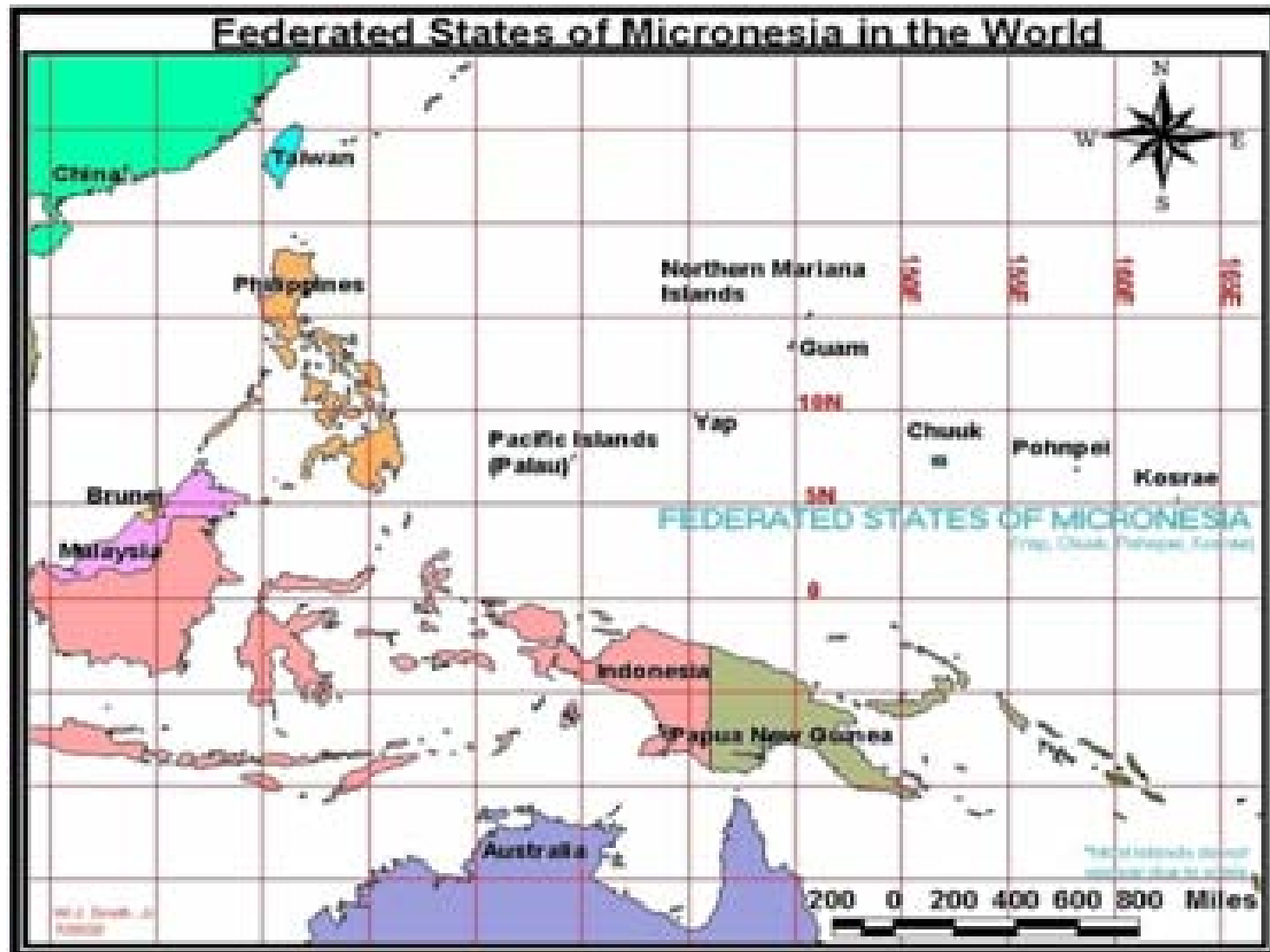
Palikir, Pohnpei, FSM

OUTLINE

1. OVERVIEW of FSM
2. The Battle on the Local Front
3. The Battle at the International Front
4. Challenges:
5. Q&A

Federated States of Micronesia

- 607 Islands
- 30 high, 33 atolls
- Total area about 3 million sq. km.
- Total Land Area= 4,840 sq. km.
- Atolls to 791 meters above sea level
- Population (2000) =107,000



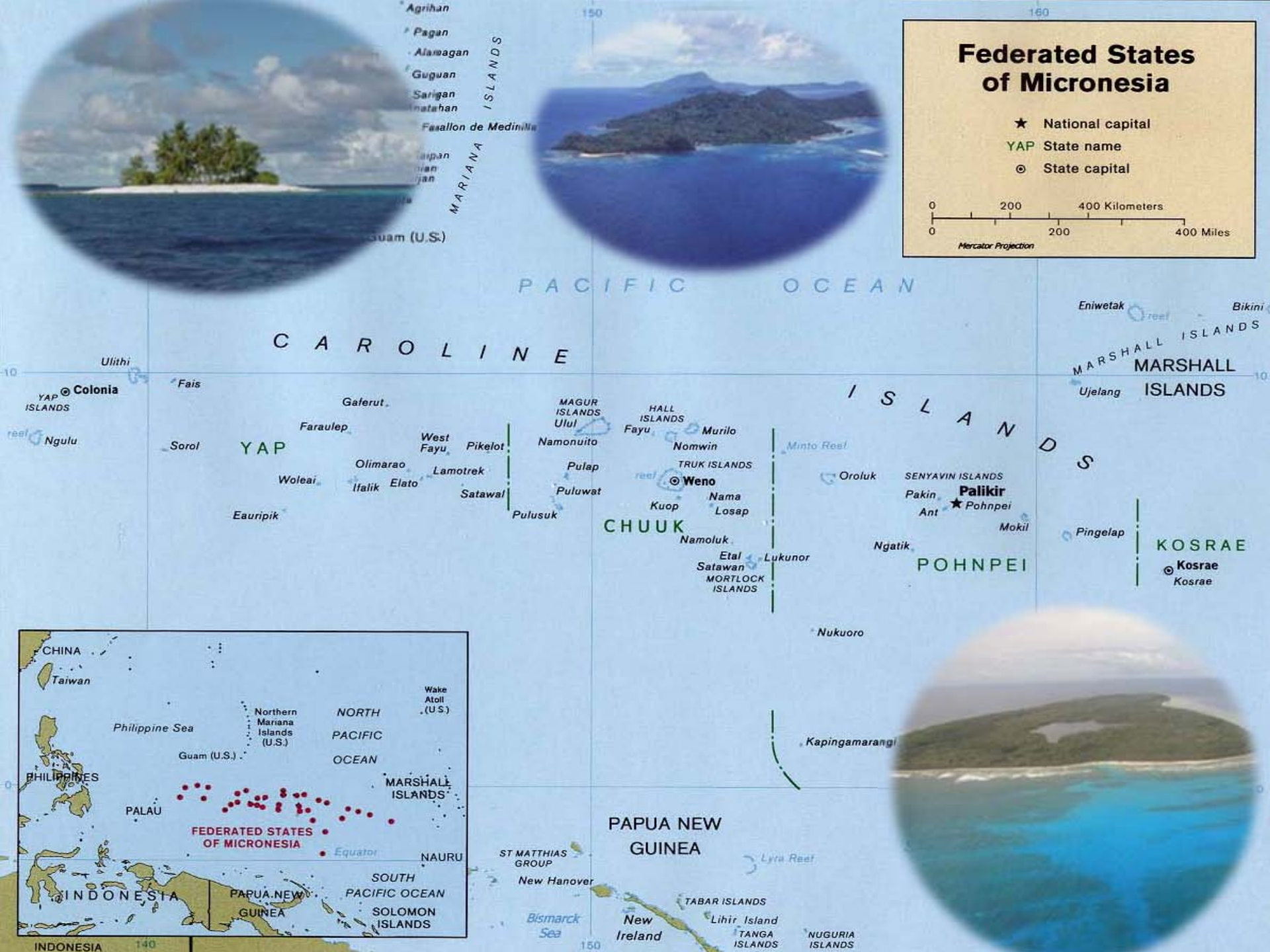


Federated States of Micronesia

- ★ National capital
- YAP State name
- ⊙ State capital

0 200 400 Kilometers
0 200 400 Miles

Mercator Projection



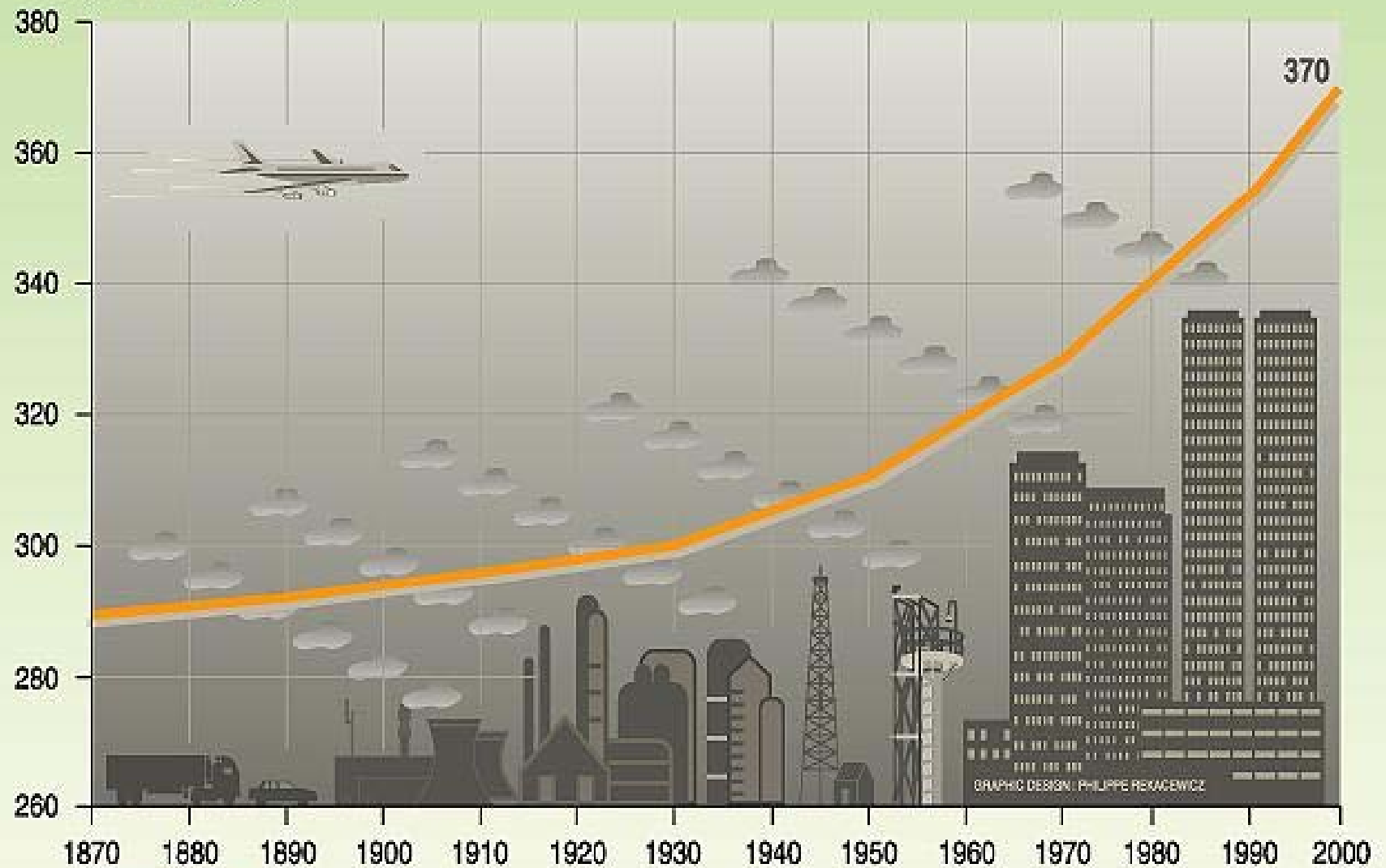
PARADISE, NEXT TO HEAVEN.....



.....then why worry?

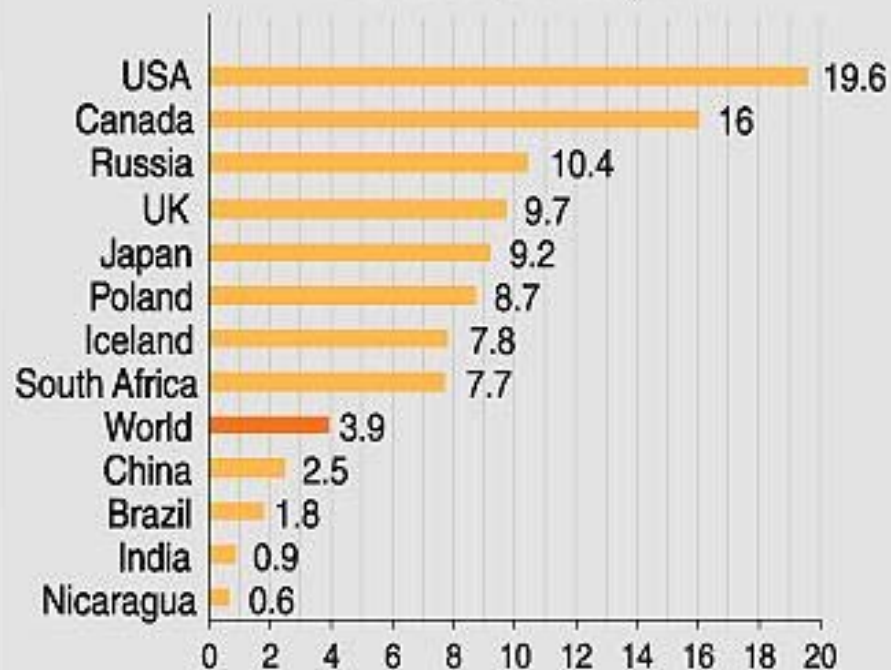
Global atmospheric concentration of CO₂

Parts per million (ppm)

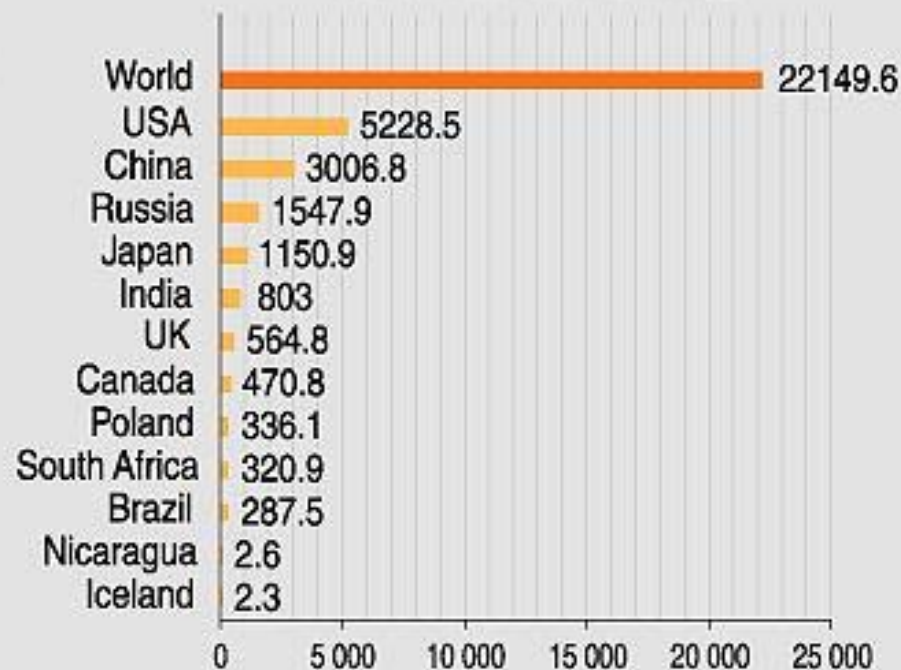


Emissions of CO₂ - selected countries (1995)

Tonnes per capita



Total million tonnes



GRAPHIC DESIGN : PHILIPPE REKACIEWICZ

Projections

- GHGs will continue to increase
- GHGs already in atmosphere will continue to impact climate system (even if stopped now)
- SLR will continue to rise (IPCC AR4) and later projections (up to 2 meters)
- Extreme events: more frequent/intense
- Rainfall may decrease in yearly total but more intense
- Increase ocean acidification



**KOSRAE STATE
FLOODING HOME IN TAFUNSAK**



**KOSRAE STATE
MAIN ROAD FLOODING**



YAP



POHNPEI



YAP



YAP



SAMPLE ROTTEN TARO

ETTAL, MORTLOCKS REGION & FANANU, NORTHWEST REGION











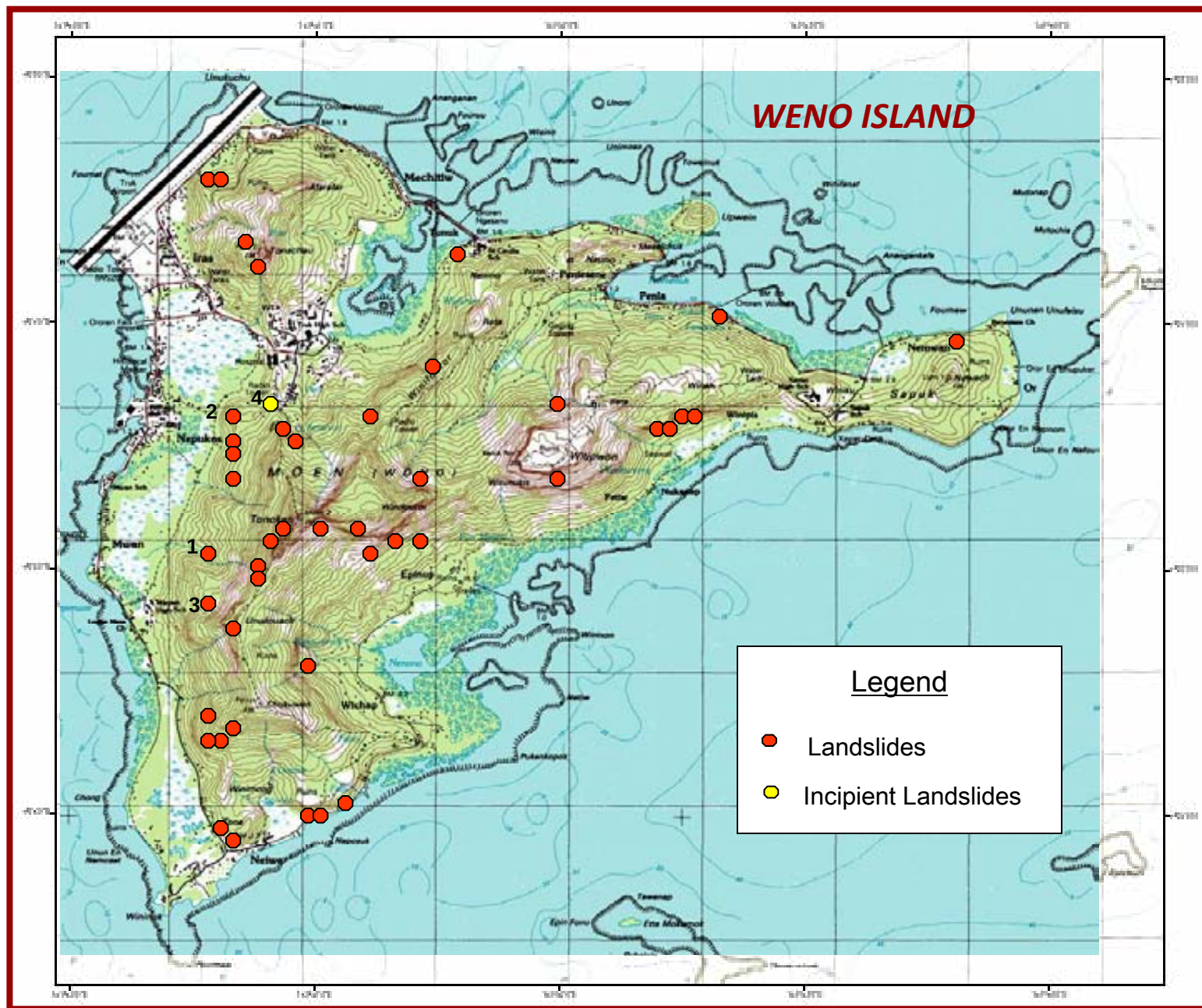
**COASTAL EROSION CAUSING COCONUT TREES TO FALL &
WATER TANK AND HOUSES TO FALL INTO OCEAN**

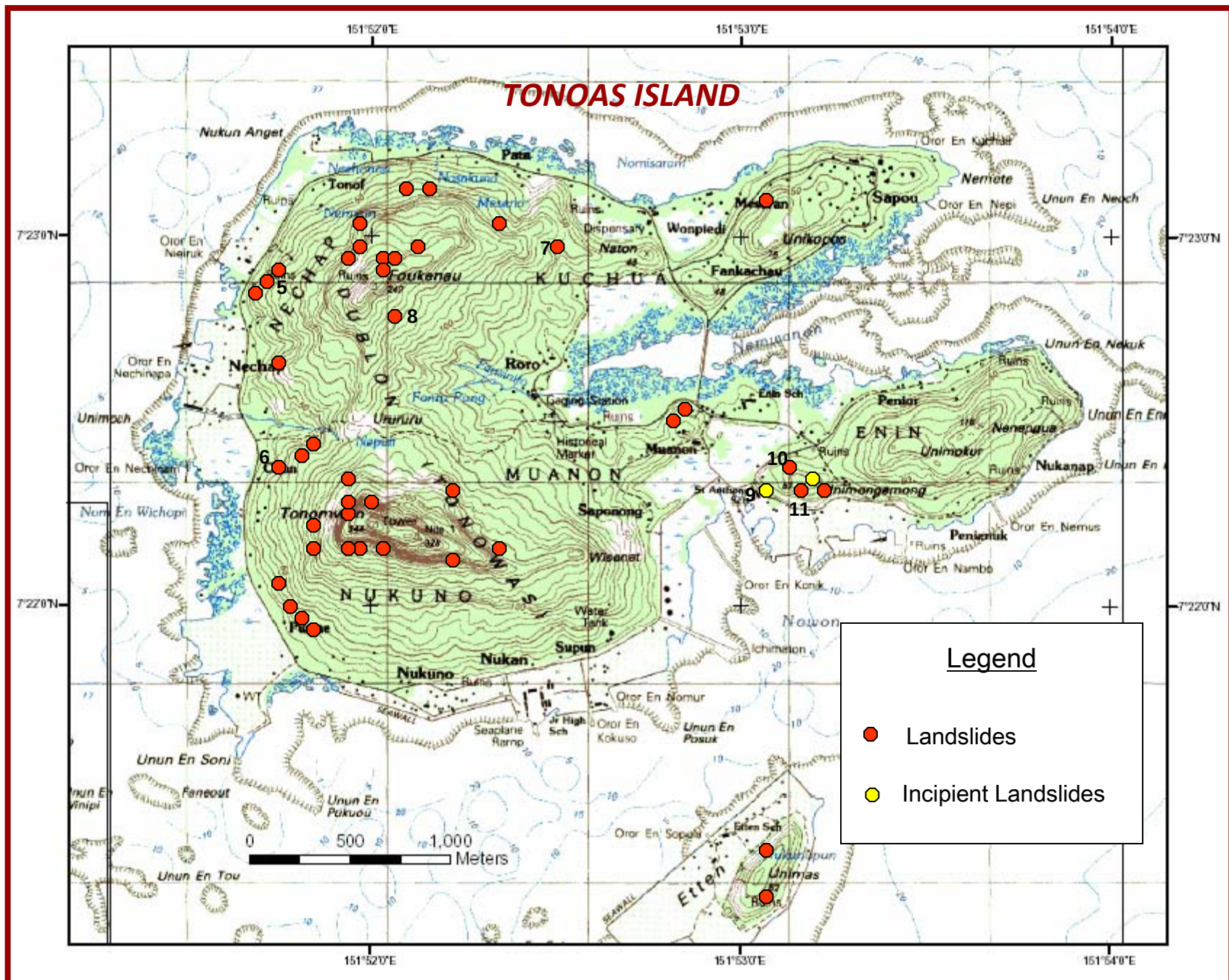
Increased Rainfall Intensity resulted in Landslides in Chuuk & Pohnpei





MWAN LANDSLIDE







International Front

- | | |
|--------------------------------------|---|
| 1. Rio | UNFCCC (no teeth) |
| 2. Kyoto | Kyoto Protocol (too low) |
| 3. Bali | Bali Roadmap (post KP) |
| 4. Bonn/others (1-6) | Targets & others |
| 5. Copenhagen | 45% by 2020, 95% by
2050 (FSM/AOSIS) (350
ppm/1.5 deg. C) |
| 6. Montreal Protocol, CBD and others | |

UN Framework Convention Climate Change (UNFCCC)

● **OBJECTIVE** (Art. 2): The ultimate objective of this Convention .. is to achieve.. **Stabilization of GHG concentration** in the atmosphere at a level that would **prevent anthropogenic interference** with the climate system. Such a level should be achieved within a timeframe sufficient to **allow ecosystem to adapt** naturally to climate change, to **ensure that food security production is not threatened** and to **enable economic development to proceed in a sustainable manner**.

UNFCCC

- **COMMITMENT (Art 4.8):** Parties shall give full consideration to what actions are necessary under the Convention, including actions related to funding, insurance, transfer of technology, to meet the specific needs and concerns of developing country Parties arising from the adverse effects of CC especially on:
 - (a) Small island countries;
 - (b) Countries with low-lying coastal areas;
 - (d) Countries with areas prone to natural disasters;
 - (g) Countries with areas of fragile eco-systems....

Addressing CC in MP & Others

1. Targets under CC/post KP will not be enough especially to avoid reaching “tipping points”
2. CC under Montreal Protocol (M &M)
 - a) To accelerate phase-out of Hydrochlorofluorocarbons (HCFCs) (16 b tones of CO₂ e by 2040)
 - b) Collect/destroy banks of ODS
 - c) US EPA 2009 CLIMATE AWARD for Micronesia & Mauritius
 - d) Regulate Hydrofluorocarbons (HFCs) under MP (non ODS ...cover under KP)
 - e) Others: biochar, reduction of black carbon soot, Technology transfer etc
3. CBD: Micronesia Challenge (20/30) by 2020

CHALLENGES.....

1. Acceptance

2. Change behavior

3. Political will & Political Leadership



*Pray hard.....for the heavens that to
provide for us....*

Is turning against us!