



UNITED NATIONS | UNOOSA | UN-SPIDER

*United Nations Platform for Space-based Information for
Disaster Management and Emergency Response*

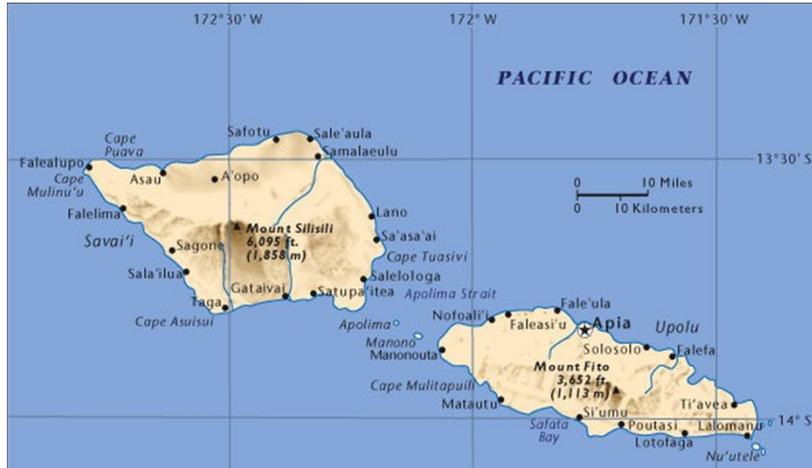
Simulation Meeting:
Samoa Cyclone
Preparedness and Emergency Response
Geneva, 16 November 2011
David Leng

The slide features a satellite-style image of Earth from space, showing the curvature of the planet and a bright blue aurora-like glow along the horizon. The text is overlaid in white, with the title and date in a smaller font and the name 'David Leng' in a larger, bold font.

Samoa

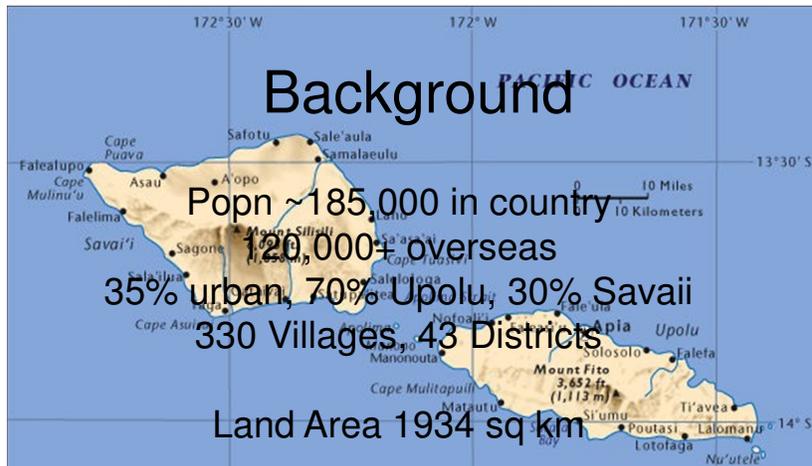
Set the Scene

Location



Samoa

Background



Samoa



Background

Roading: Good, Complete ring

Electricity Cover: ~95%

Mobile Phone Coverage: ~90%

Mobile Usage: ~65%

Popn: 90% coastal

Samoa



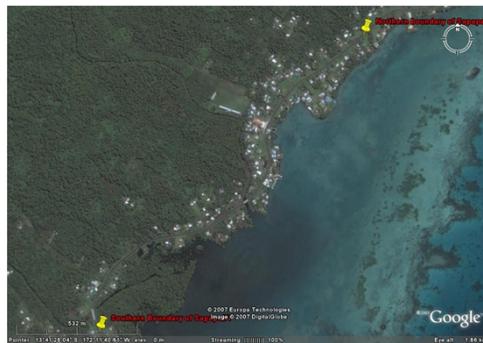
Background

Popn: 90% coastal

35% Urban

~65% live off land

(Agrarian)



Samoa

Background



Samoa

Medical

Hospitals :2 Main (Surgical)

6 Rural (6 Bed, No Surgical)

13 Light Medical Clinics

50 Doctors

700 Nurses

1 Medical University (100+ Students)

Samoa

HOME REPORTS SUBMIT A REPORT GET ALERTS CONTACT US **COD'S** VOLUNTEERS SAMOA

Common Operational Datasets

List of COD's (Common Operational Datasets) for Samoa

You must sign into Google docs/gmail to access the files

Humanitarian Profile

- Internally Displaced
- Non-displaced affected
- Host family/resident community affected
- Refugee
- Dead
- Injured
- Missing

Administrative Boundaries

The boundaries of political and administrative units such as provinces, districts and sub-districts or their equivalents.

Population Statistics as of 2006

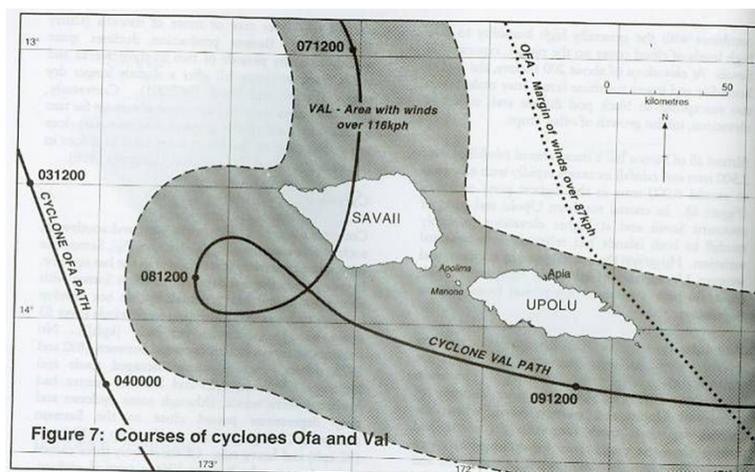
Broken out by Village

[Population by Gender 2006](#)

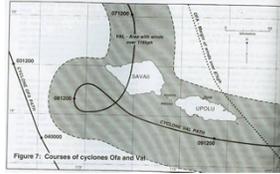
Table also includes:

[Population by age in 5 year increments by Village](#)

Simulation



Simulation



Stats

4 Days

Sustained Winds ~120kph
At times up to 260kph (160+ mph) (110+dB)

Storm Surge ~50 Foot waves
Flooding
Landslides

Impacts

4 days

was described as looking like an atomic bomb had hit

"there was no green, no buildings standing, no shelter; just total and complete devastation".

Impacts

4 days

- 90% Crop loss
- 90% Foliage cover
- 50% Stock Loss
- 65% Building damage (80% housing loss)
- Fishing: - Reef destruction,
Ocean – 20% Boat loss
- Medical – 50% facility loss
 - 30% Supplies loss
- Roading Coastal Road damage
- Assessed damages and loss 230% GDP

Operational

On Ground

Local Disaster Management Office
Fire and Emergency
OCHA
Red Cross
ADRA
Ministries

Operational

Tools

Vanilla Ushahidi on server
Google docs COD's

Want to add sms capability to alerts

Operational

Virtual

Humanity Road – generating field requests
SBTF – generating reports
Gdacs – simulated storm surge, wind, path
Imaging?