



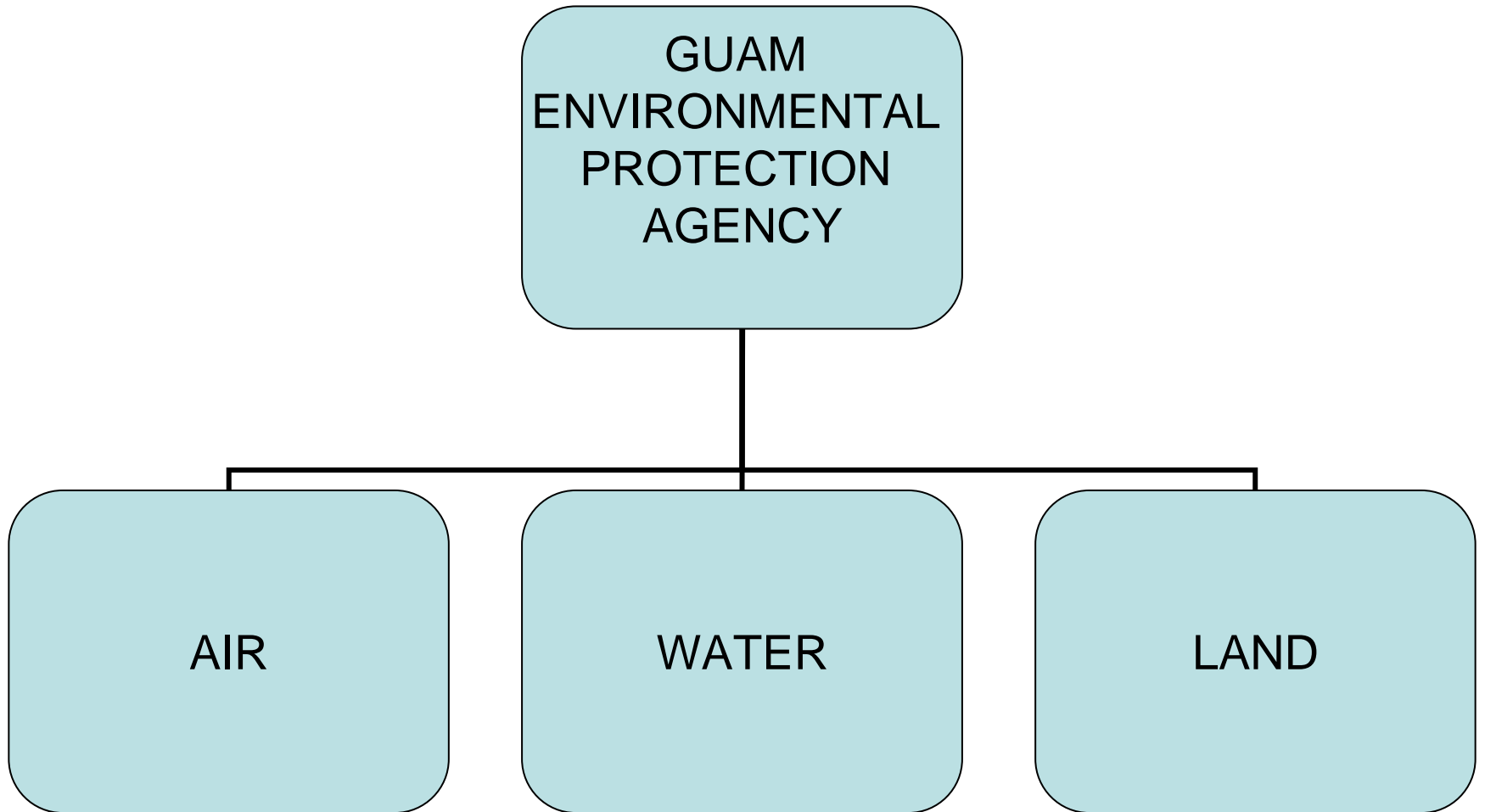
Climate Change Impacts on Guam Environmental Protection Agency Programs For

**Workshop on Climate Variability and Change in Guam:
Challenges and Opportunities**

April 24-25, 2006



ENVIRONMENTAL CONCERNS



Guam Environmental Protection Agency Programs

- Administration
- Information Services
- Environmental Planning and Review
- Environmental Monitoring and Analytical Services
- DSMOA
- Air and Land Division
 - Air Pollution
 - Solid Waste
 - Hazardous Waste
 - Pesticides
- Water Division
 - Safe Drinking Water
 - Water Resources
 - Water Pollution



Climate Change Issues

- Precipitation
- Storms/Typhoons
- Global Warming
 - Sea Temperature Rise
 - Sea Level Rise

Precipitation

- Drought
 - Freshwater Ecosystems and Wetlands
 - Surface Drinking Water Sources
 - Groundwater
- Increased Precipitation
 - Erosion
 - Flooding



Storms/Typhoons

- Debris Management
- Flooding
- Infrastructure Damage



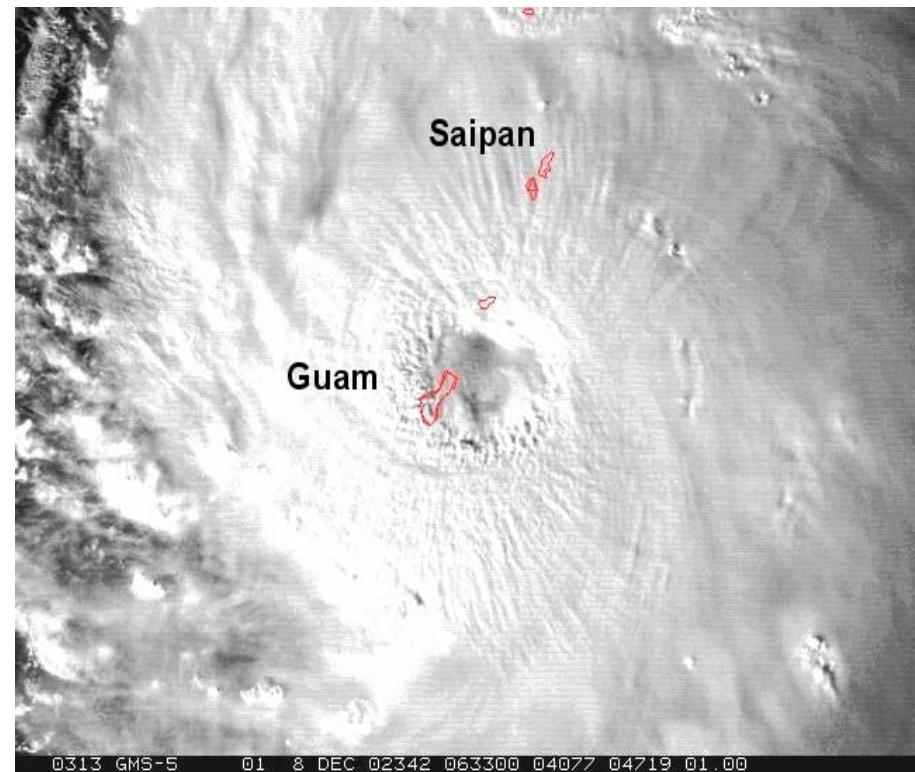
Infrastructure Damage



Both wooden and concrete power poles can be damaged during typhoons, and may take several months to replace.

Storms/Typhoons

- Nonpoint Sources of Pollution
- Coral reefs and coastal waters impacted
 - Sedimentation and turbidity from erosion
 - Lowered salinity
 - Nutrients
 - Pesticides and toxic materials





Burning fuel tanks
after the passage of
Supertyphoon
Pongsona (photo
from Guam Pacific
Daily News Ron
Soliman)

Global Warming

- Sea Temperature Rise



Global Warming

Sea
Level
Rise



Environmental Education

- Earthweek
- Posters
- Calendars
- Educational Materials
- Contests
- Clean-ups
- Drain Signage

