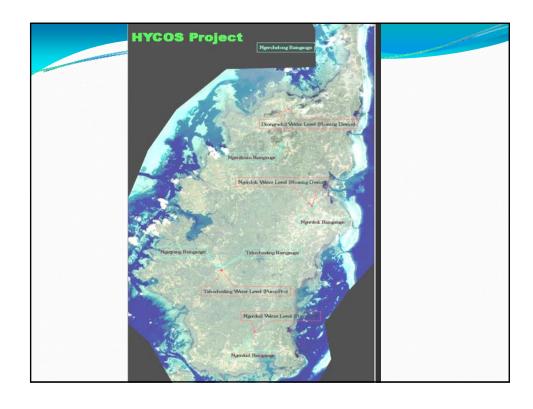


Project Purpose

- Promote proper watershed practices
 - Reduce land degradation
 - Preserve ecosystem stability, functions and services
 - Soil and watershed protection
 - Nutrient retention
 - Maintain Water Quality
- Resource Concerns
 - Soil erosion and sedimentation
 - Nutrient loading
 - Solid waste disposal
 - Invasive species
 - Wildlife habitat loss





Need & Use for Catchment Management

- Ngerikiil & Kmekumel Rivers: Airai State
- ➤ Water source for over 75% ROP population
- During strong El Nino earlier this year HYCOS monitored Ngerikiil River stream flow on weekly basis and report to Bureau of Public Works
- Ecosystem Based Management (EBM)





Need & Used for Catchment Management

- Ngermeskang River: Ngeremlengui State
- Babeldaob Watershed Alliance
- ➤ Bird Sanctuary
- > Potential water source
- > Flood risk management in Ngeremlengui State
- Conservation Area
- Tabecheding River: Ngatpang State
- ➤ Potential water source
- > Flood risk management



Need & Used for Catchment Management

- Diongradid River: Ngardmau State
- ➤ Tourist Hot Spot—Highest Waterfall in Palau
- ➤ Babeldaob Watershed Alliance
- Lake Ngardok: Melekeok State
- Water source for Melekeok State & Ngerulmuud Capitol
- ➤ Conservation Area
- > BWA

Need & Used for Catchment Management

- Ngarchelong Rain Gauge: Ngerchelong State
- Driest state in Babeldaob and has no major river
- Ngerchelchuus Rain Gauge: Ngardmau State
- Highest point in Palau

Hydrological Data

• Rainfall data

- 1. Dry season-help BPW water hours
- 2. Rainy season- Road management (landslides and road drainages)
- 3. Road mitigation
- 4. Ownership of data
- 5. Calculate recharge rate
- 6. Climate change

Future Plans for HYCOS Data

- Water level Billboard
 - Will be like a fuel gauge
- Water Quantity
 - Drought mitigation
 - Rainy season- Road management (landslides and road drainages)
 - Calculate recharge rate
 - Ownership of data
 - Climate change

Hydrological Data Provided

- Bureau of Public Works
- Babeldaob Watershed Alliance
- Palau International Coral Reef Center
- Belau National Museum
- Palau Conservation Society
- Private Companies
- The State Offices

Palau Project Progress

- Sanitary Survey Completed
- Invasive Species Survey Completed
- Storm water Road Drainage Mitigation study completed.
 - Tree Planting Ceremony
 - July 29th
- ArcInfo GIS Map of land uses Ngerikiil.
- Intern from Palau Community College.

