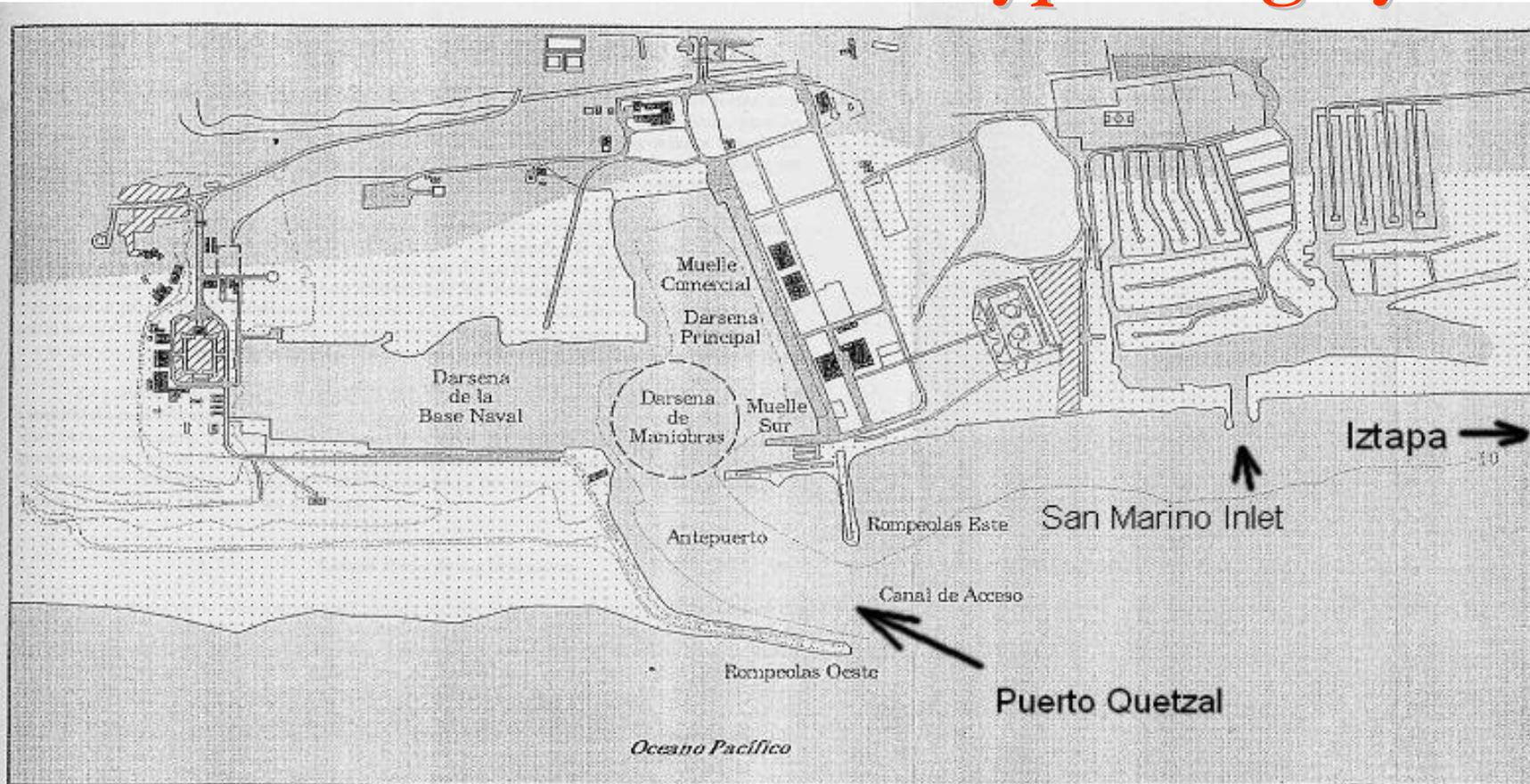


Orientation to Hands-on Application



Shoreline Stabilization & Bypassing System



GUATEMALA

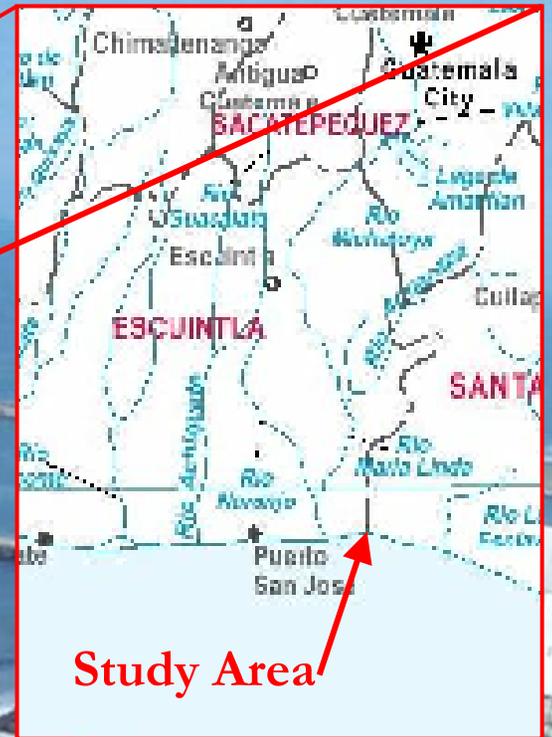
- border (international)
- national capital
- independent power
- - - departmental boundary

Scale: 1:1,000,000

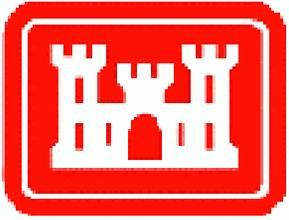
0 50 100 Kilometers



Study Area



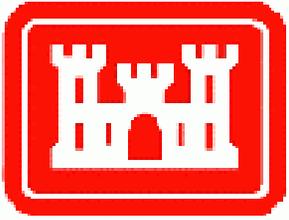
Study Area



Photographic Overview



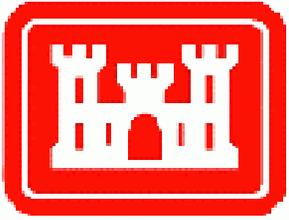
Looking east from west of Puerto Quetzal.
Note wide accretional beach in foreground.



Photographic Overview



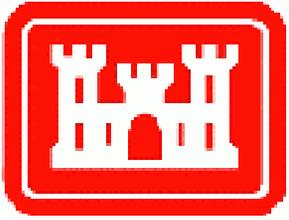
Looking east from west of Puerto Quetzal. Note shoreline offset & ersoional beach in background.



Photographic Overview

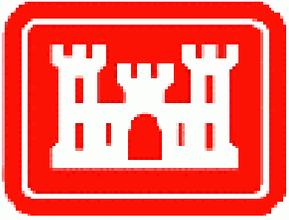


Looking west from San Marino Inlet
toward Puerto Quetzal.



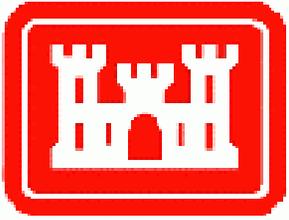
Photographic Overview





Photographic Overview

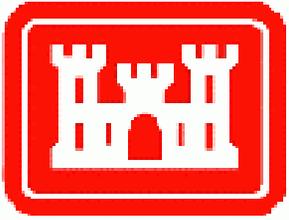




Photographic Overview



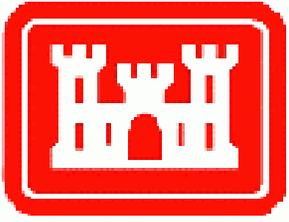
Looking east from San Marino Inlet
toward Rio Maria Linda.



Photographic Overview



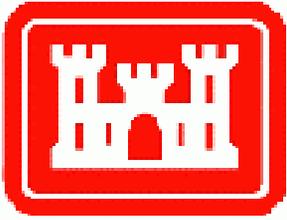
Evidence of an erosion problem.



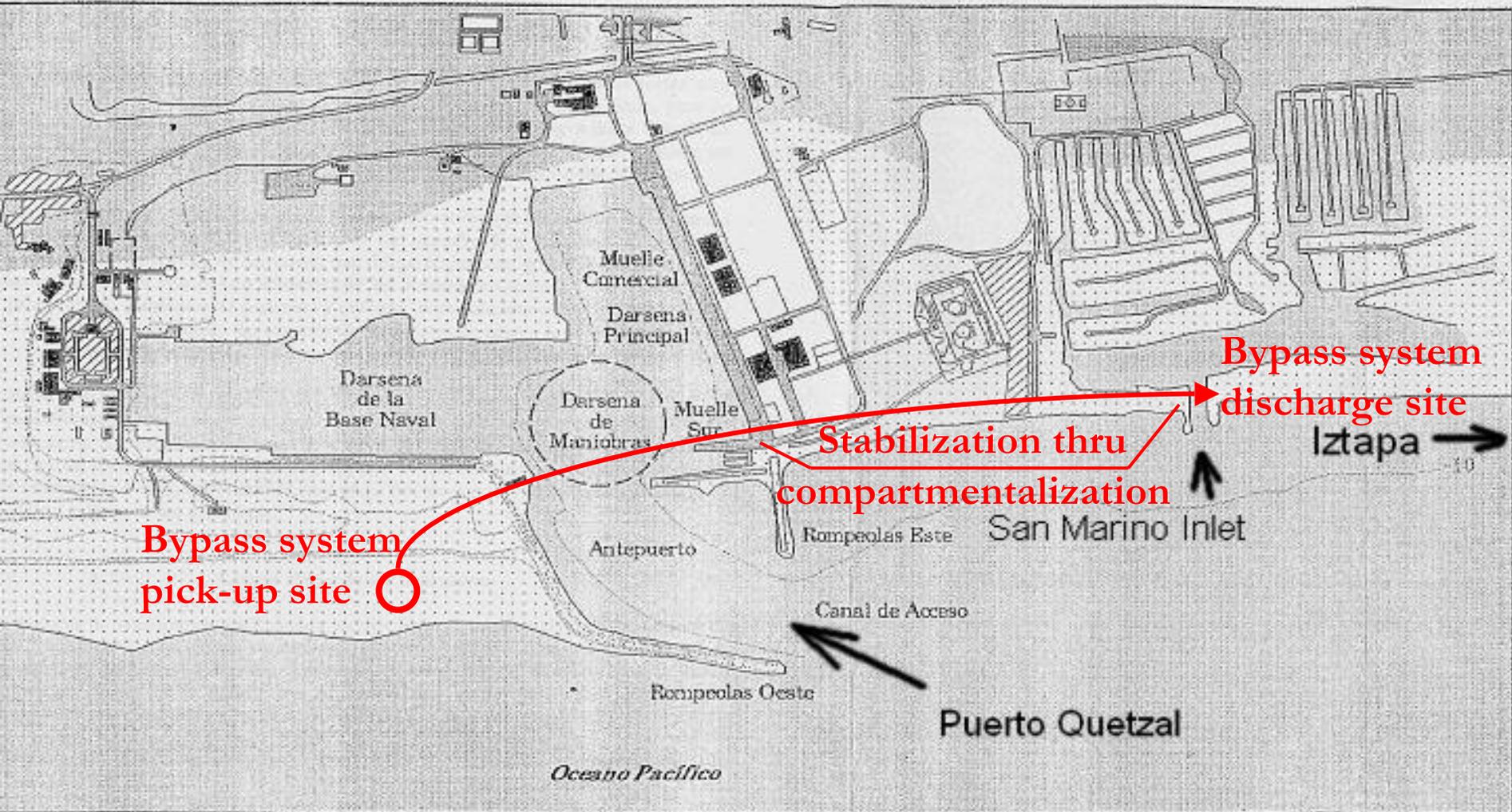
Photographic Overview

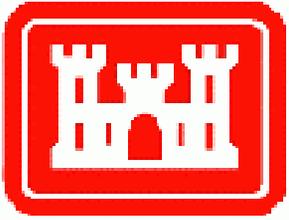


Beach homes for short people?



Solution Design Concept



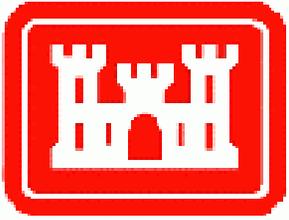


Available Data

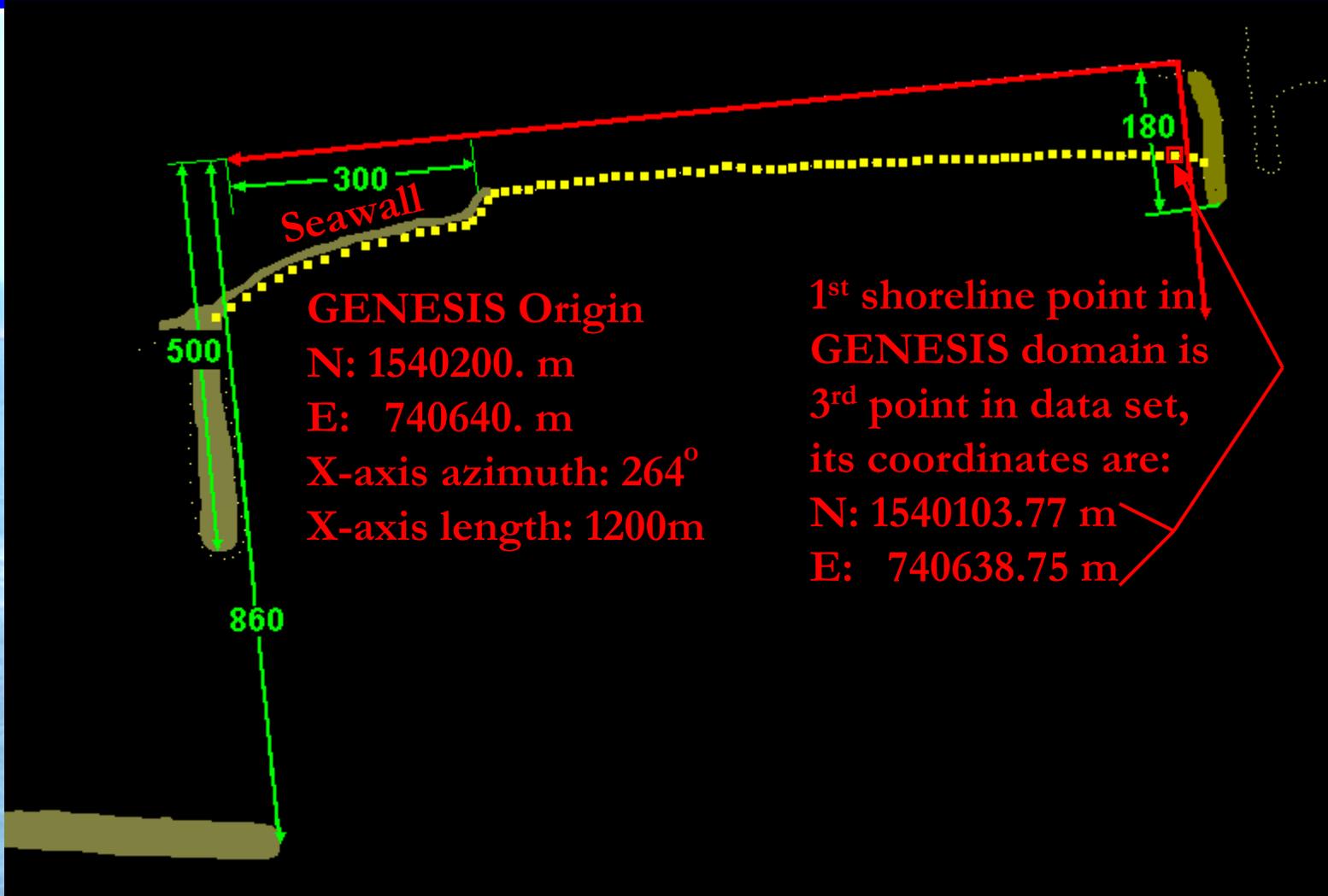


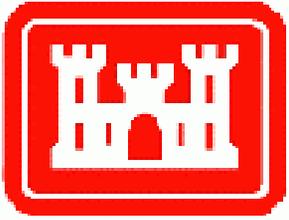
- **Shoreline Position**
 - present day only
- **Wave Information**
 - 10-year hindcast 1966-1975
- **Design Concept**





Shoreline Data / GENESIS Lay-out





Shoreline Data / GENESIS Lay-out



Distribution of offshore waves transformed to 15m depth and filtered for transport threshold.

