



Site selection criteria

www.aqua-park.asia

Use of GIS (Geographical
Information System) for site
selection

Site selection criteria – Factor to consider

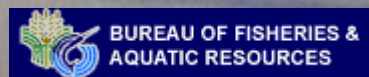
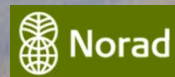
- Conflicting uses of area
- Shore line contour
- Depth profile
- Exposure to wind
- Fetch
- Currents
- Maximum wave height
- Tides
- Water temperature
- Salinity

Site selection criteria – Factor to consider

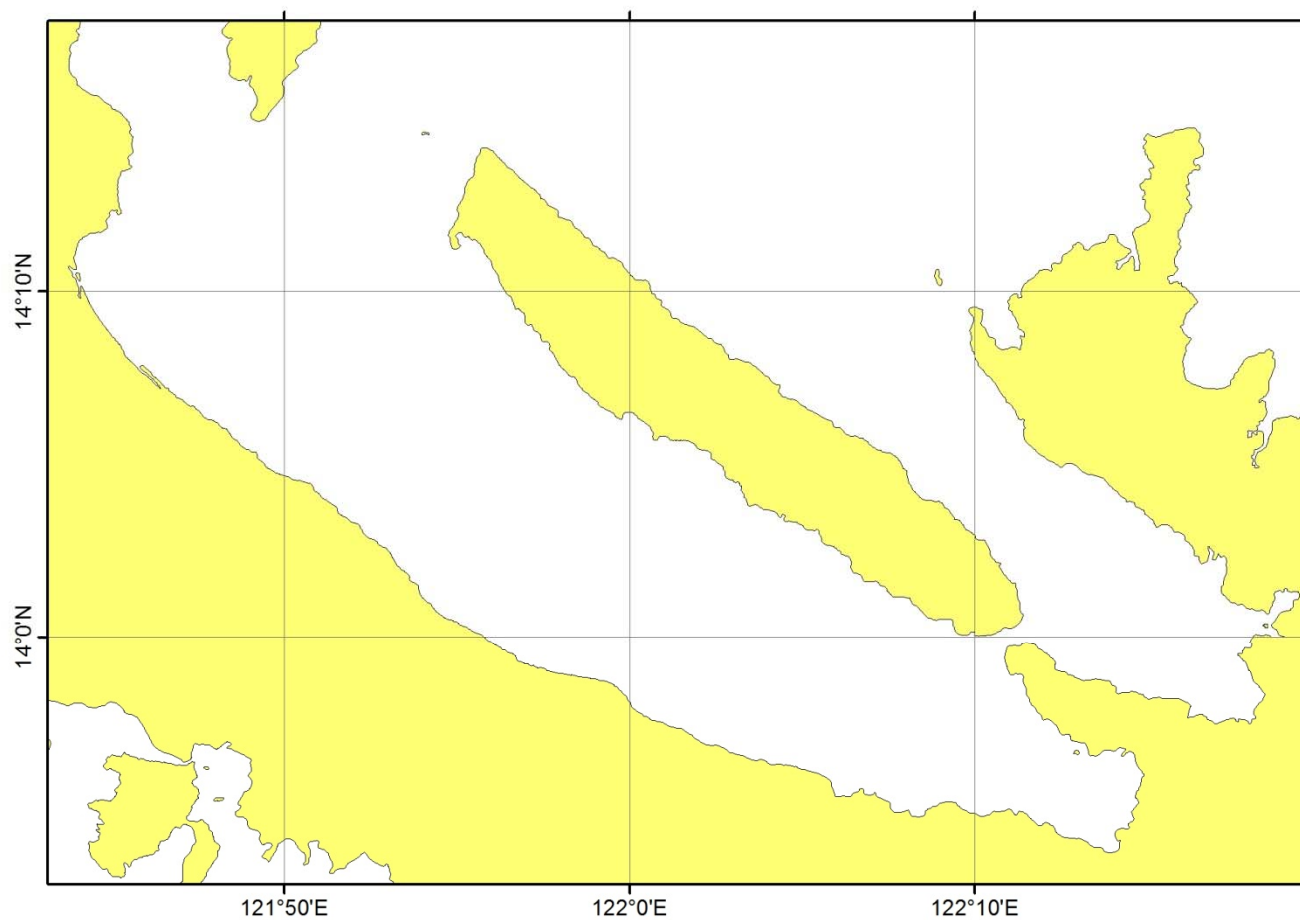
- Dissolved oxygen concentration
- Pollution (organic and inorganic)
- Phytoplankton and zooplankton occurrence and distribution
- Potential danger of red tides, plankton blooms, biofouling
- Predators - crabs, fish, birds, seals, etc.
- Flora and fauna studies (indicator organisms)
- Accessibility to the site – roads, transportation, airport, port, etc.

Site selection criteria – Factor to consider

- Infrastructure - facilities, security, communication, electricity, freshwater
- Potential for expansion - availability of adjacent area
- Environmental assessment, monitoring and control – bioremediation and mitigation
- Legal framework – policies, regulations, licenses, permits, concessions, etc.
- Public and government acceptance of project

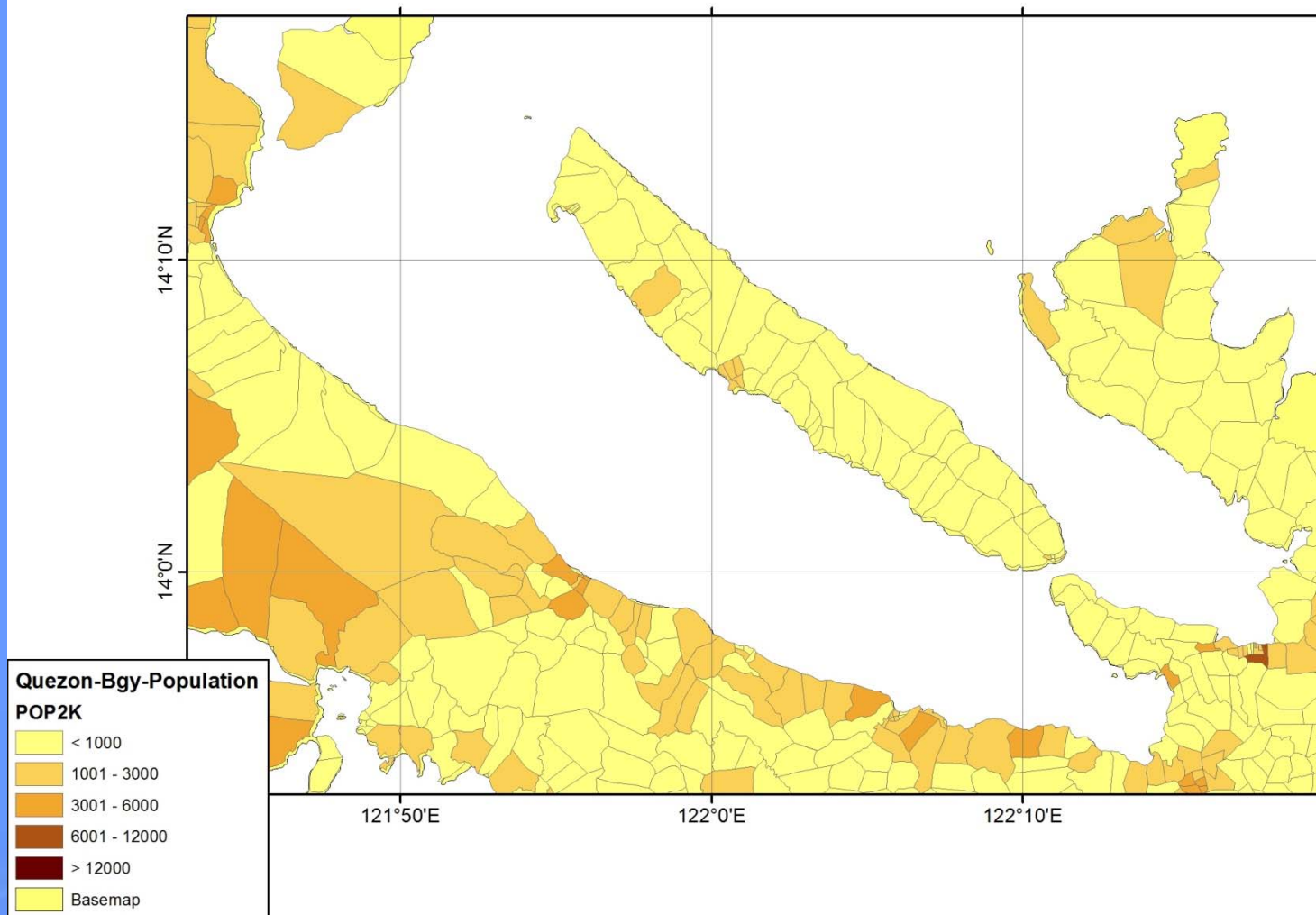


Basemap

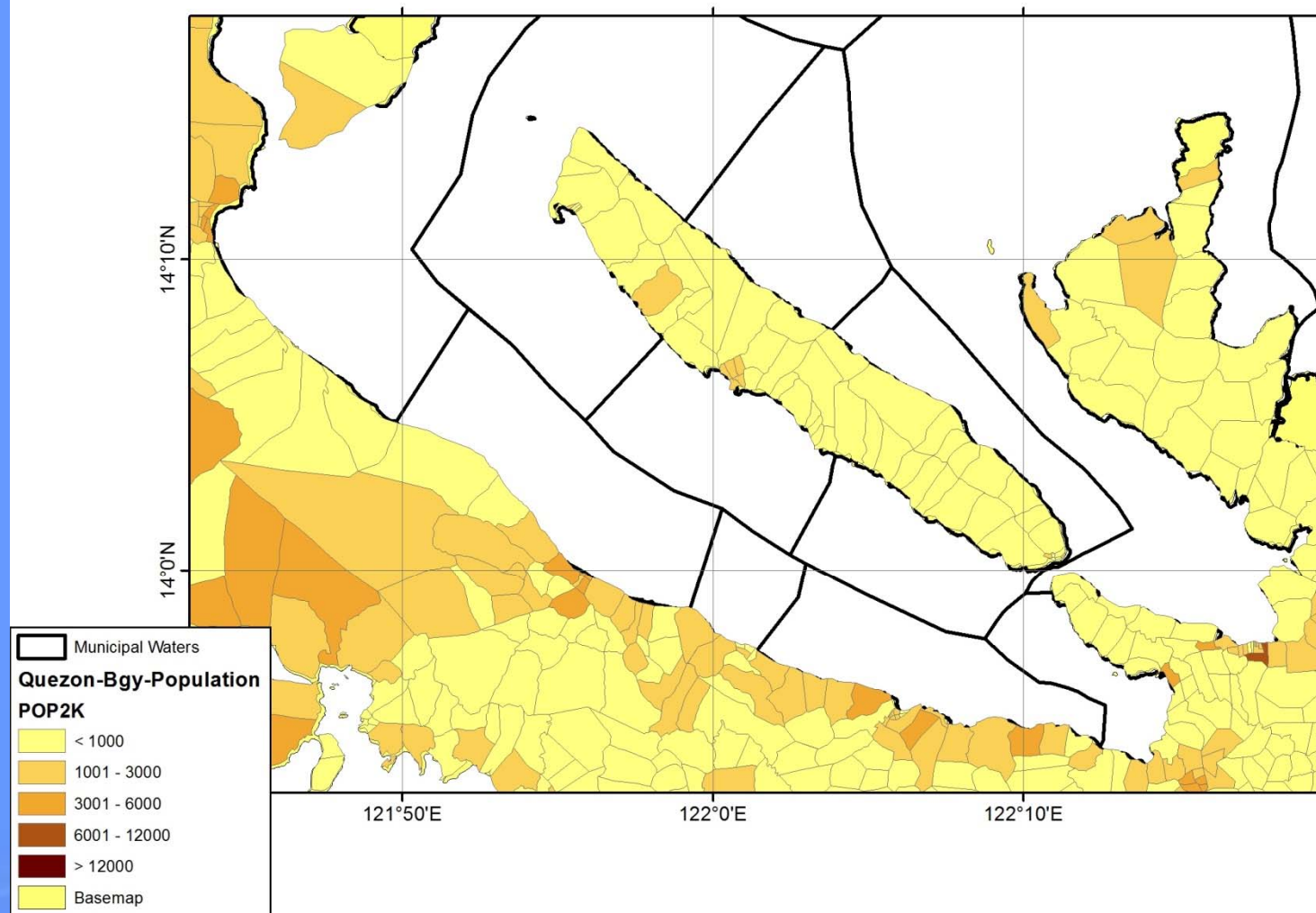


Basemap

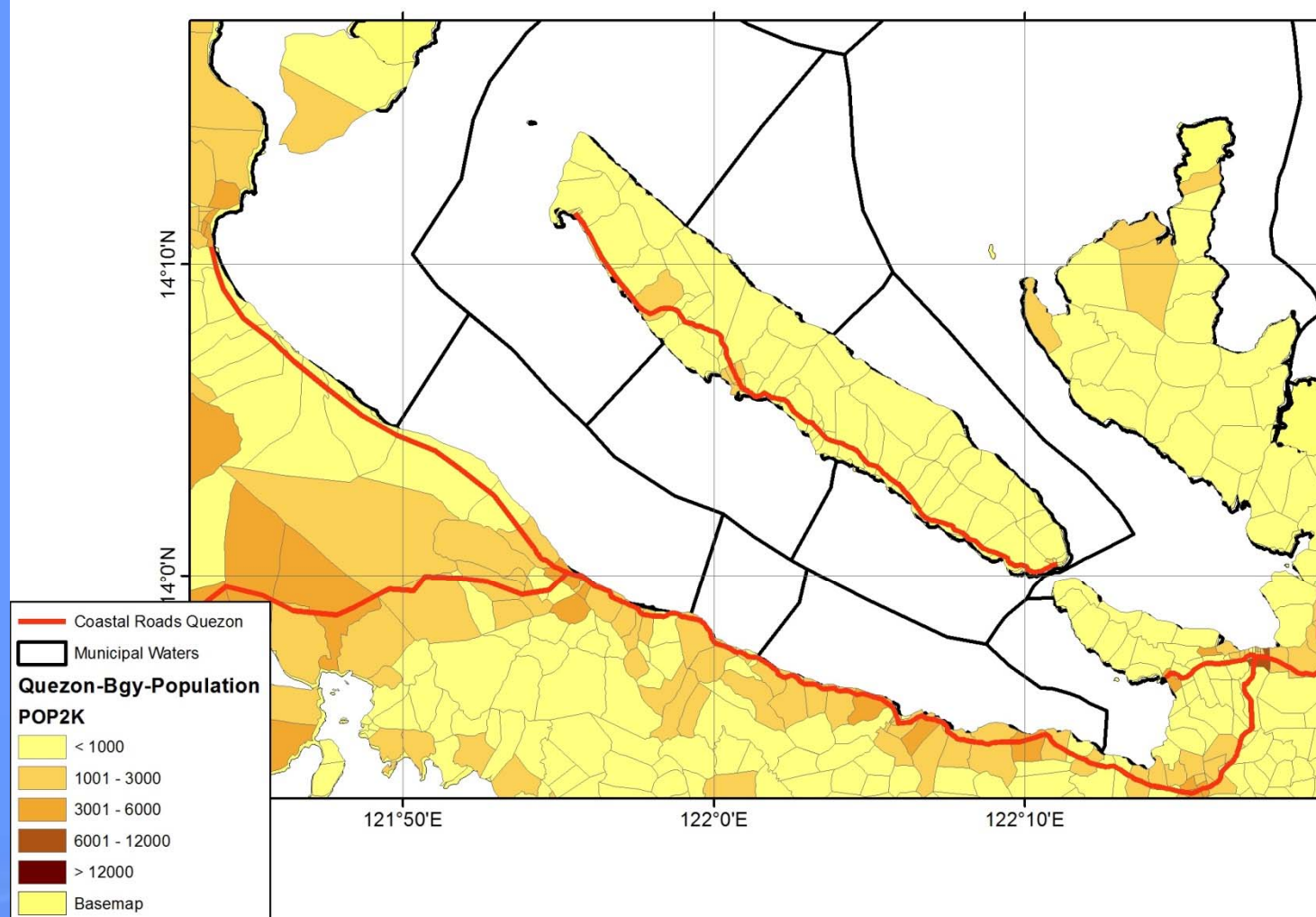
Basemap



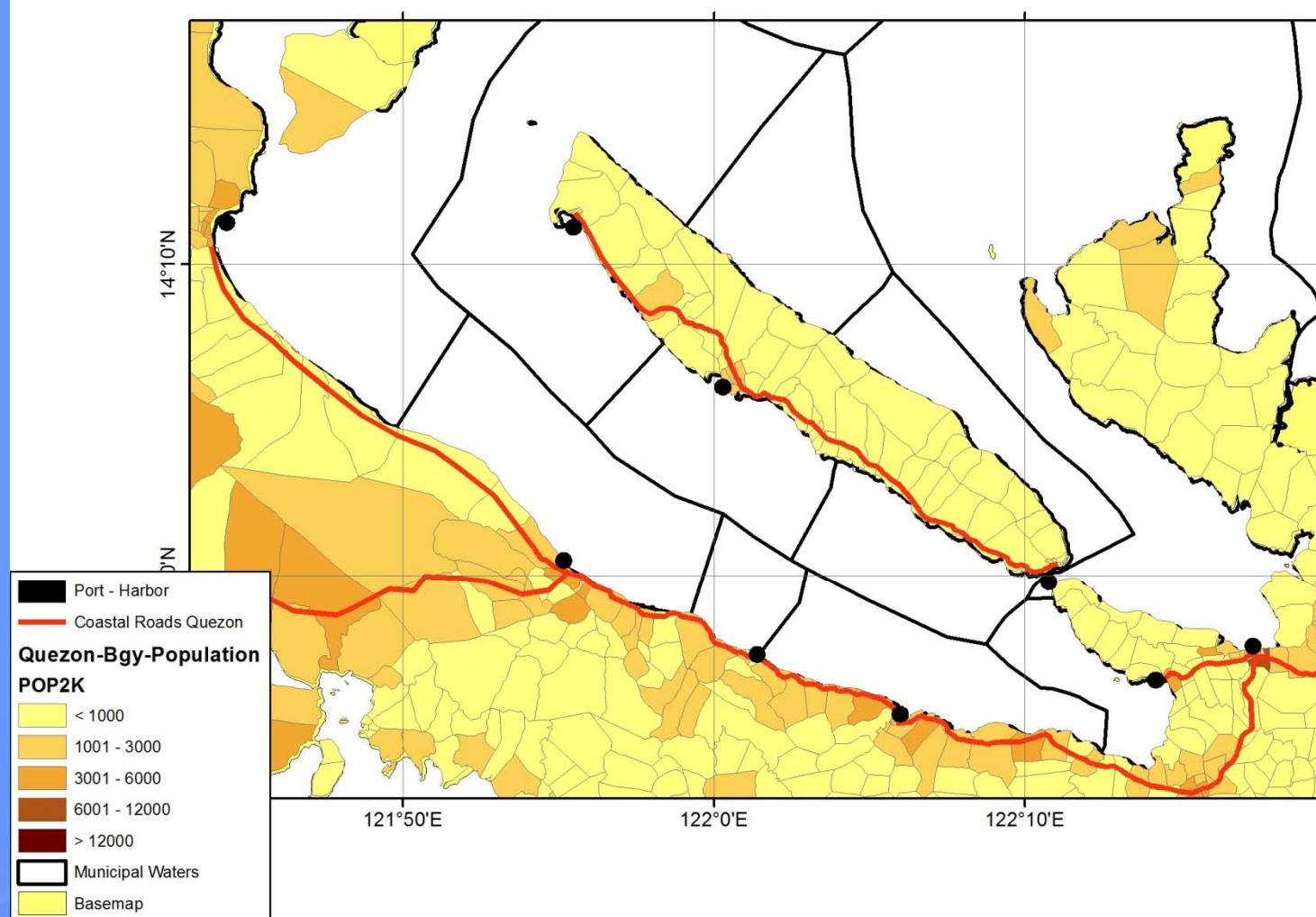
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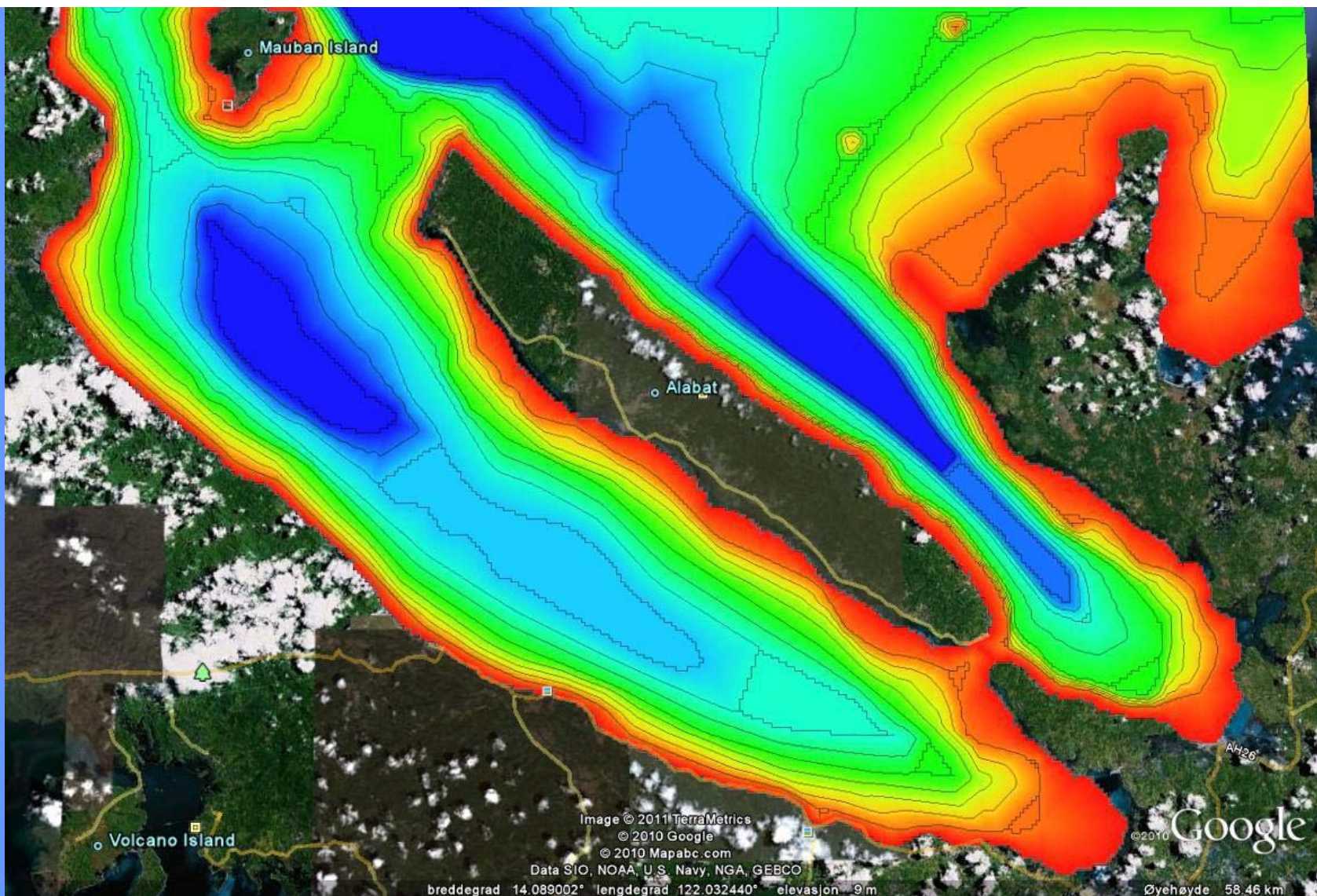
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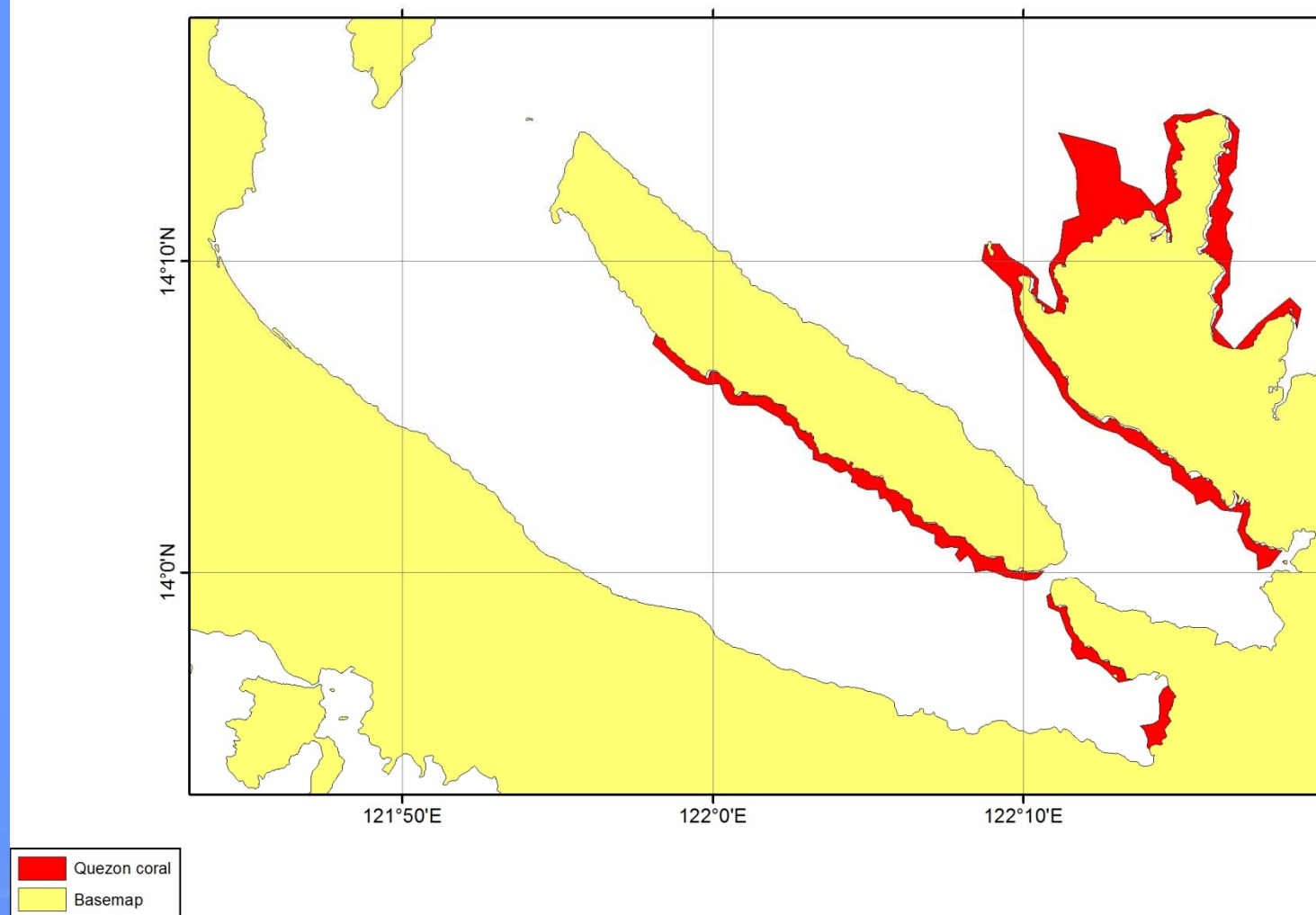
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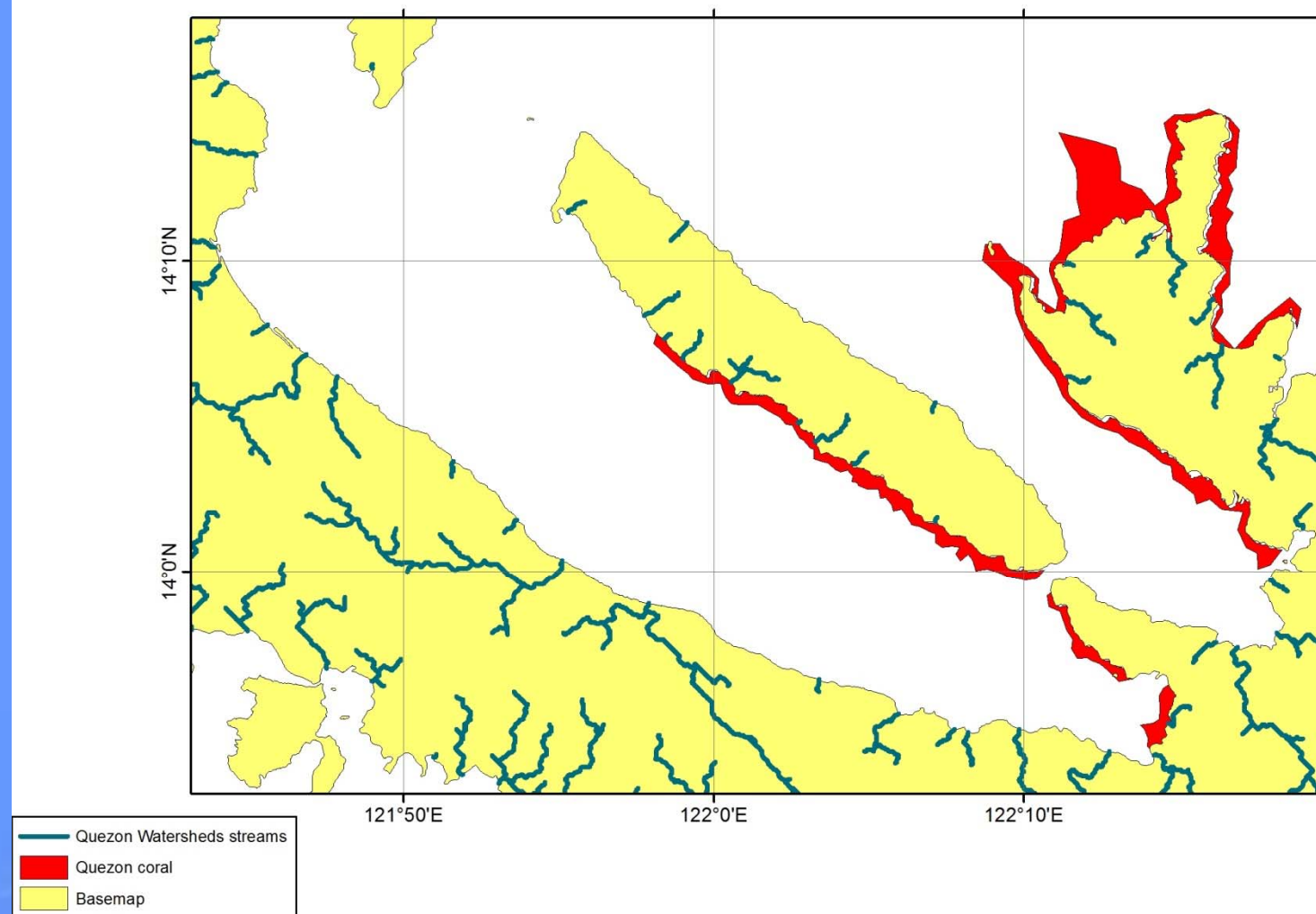
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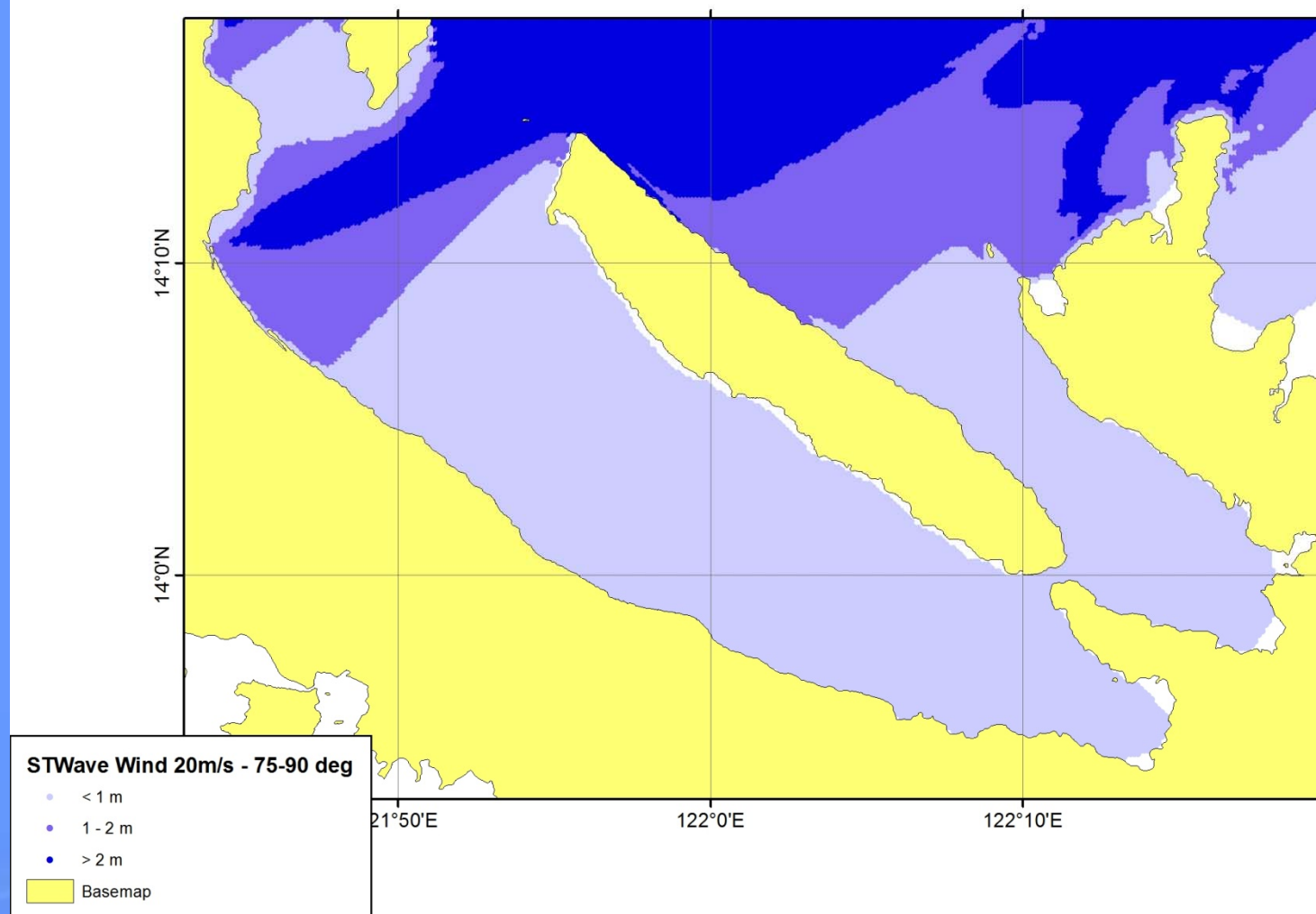
Sensitive areas



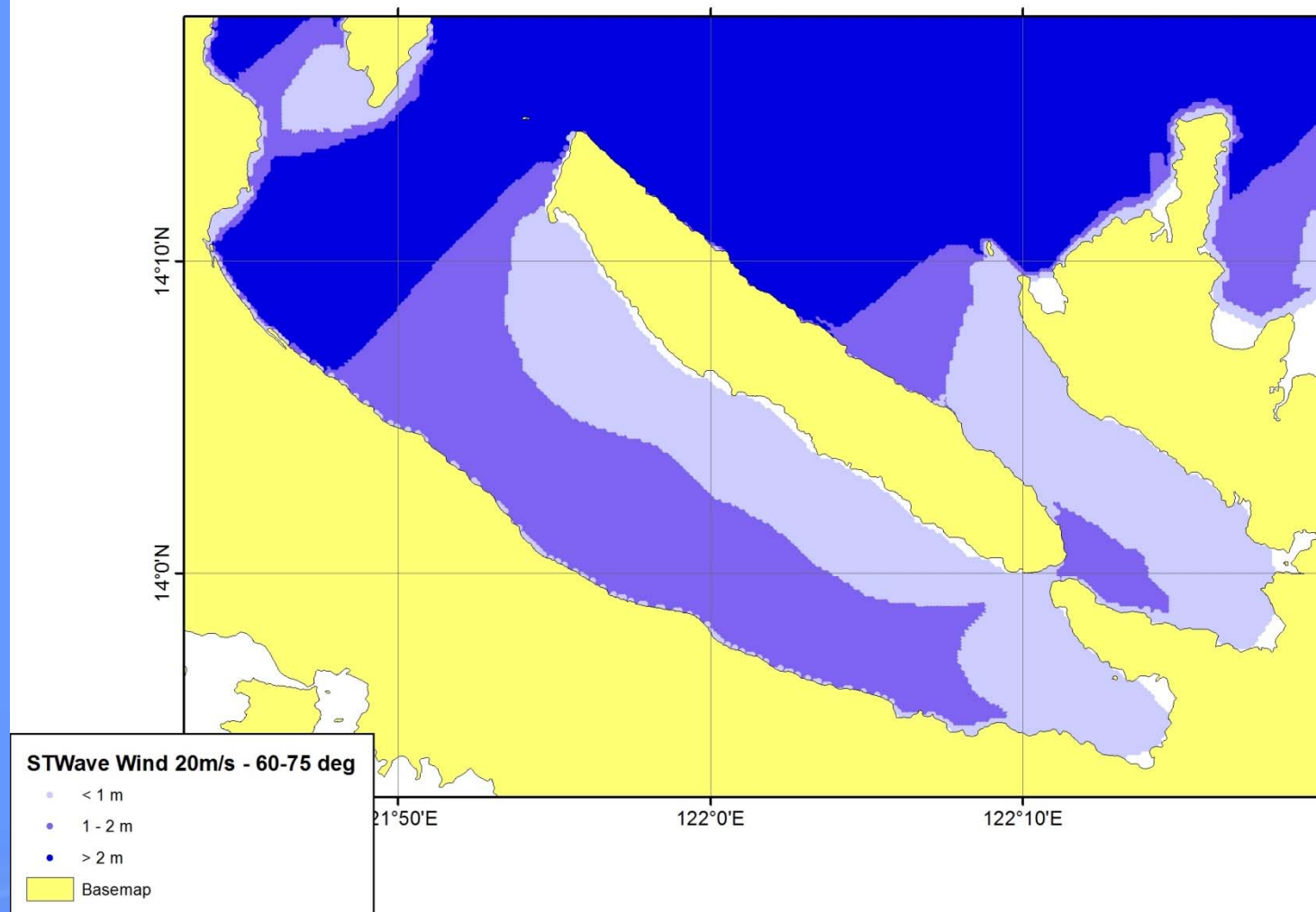
Sensitive areas



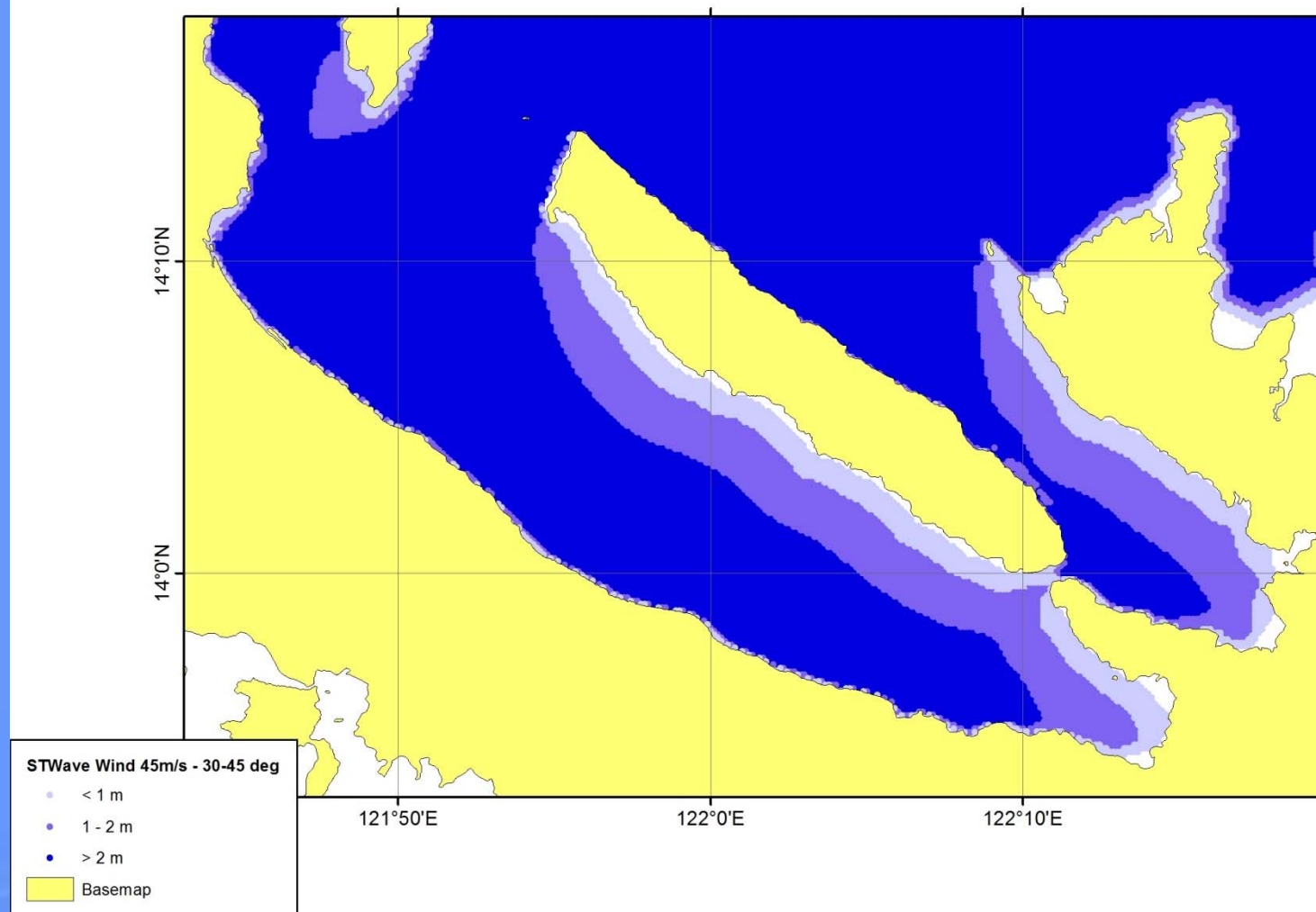
Wave model



Wave model



Wave model



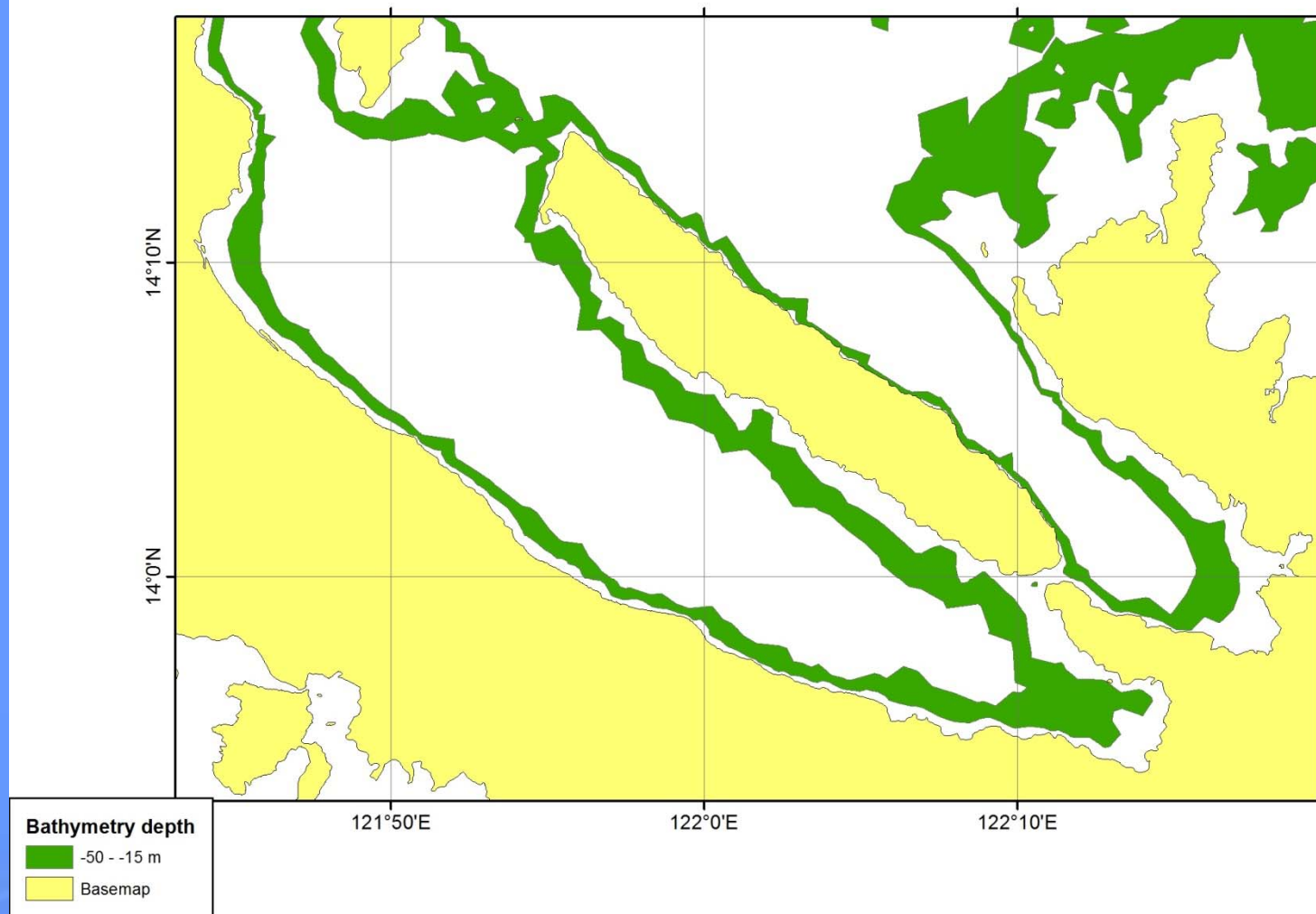
Criteria for fishfarming

- Suitable depth
 - 15 to 50 m
- Infrastructure
 - Road preferable less than 1 km away

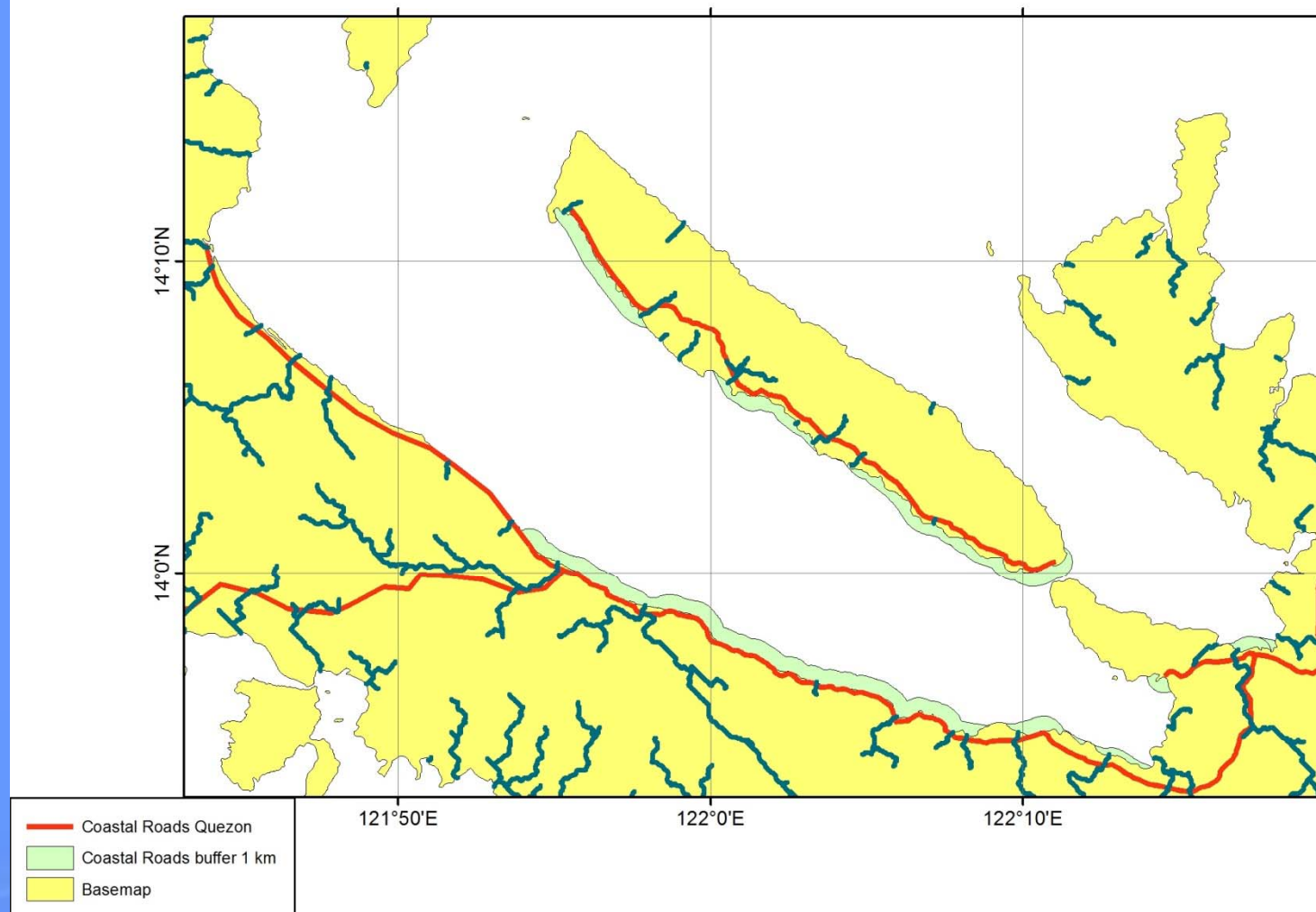
Excluding factors

- Wave
 - More than 1 m height
- Rivers
 - Large river 3 km, other river 1,5 km
- Sensitive areas
 - Coral reef 300 m away

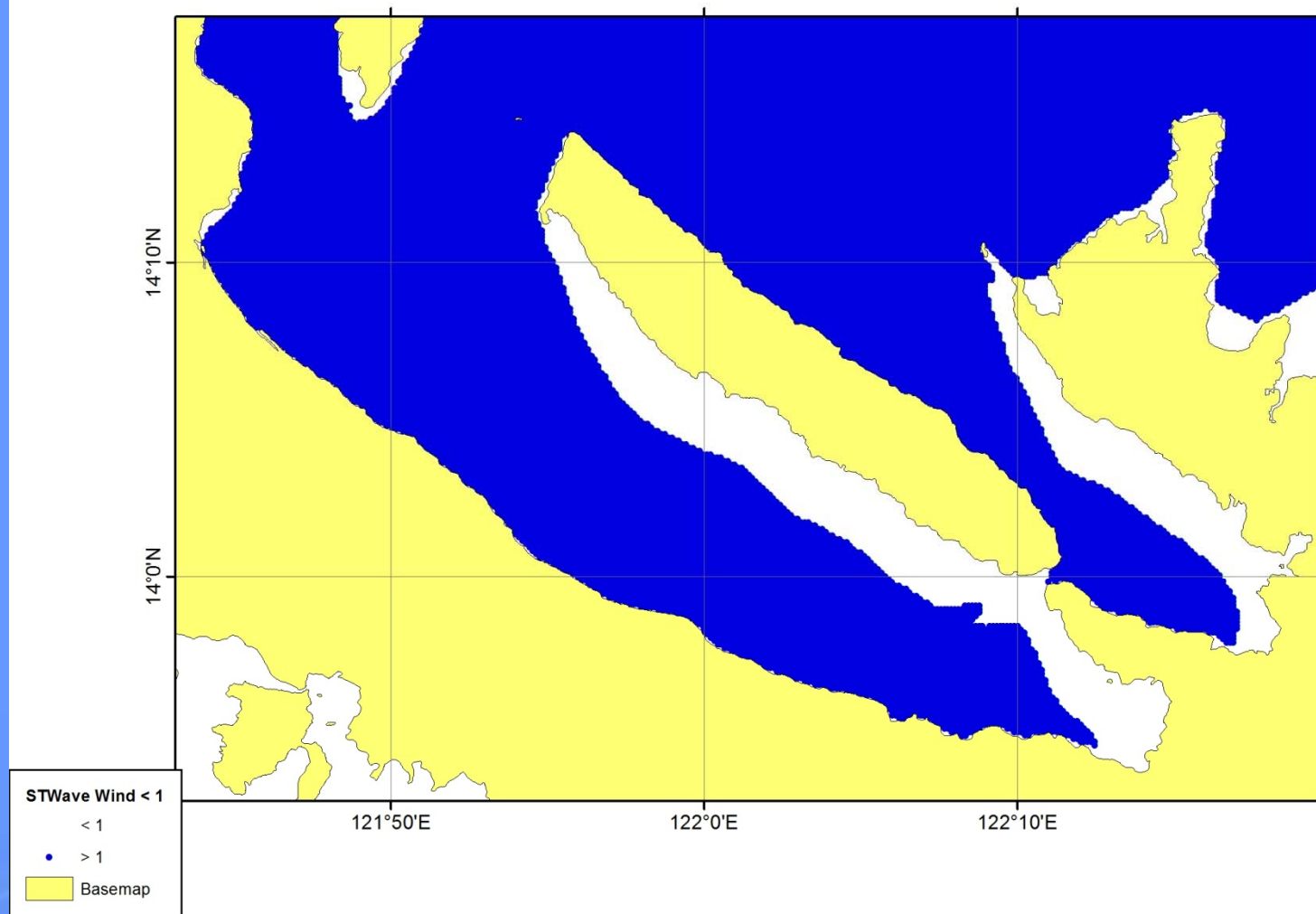
Criteria for mariculture park



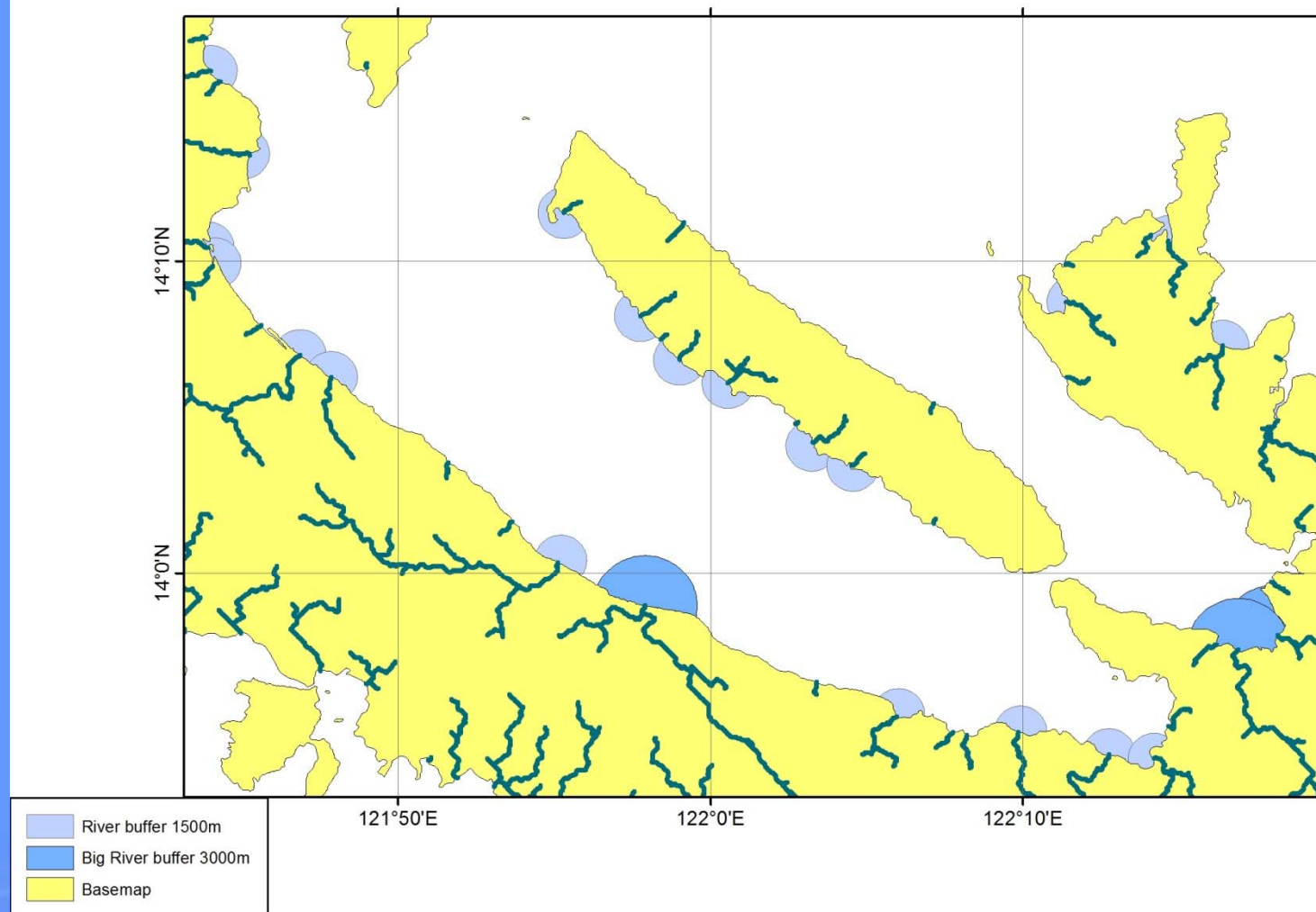
Criteria for mariculture park



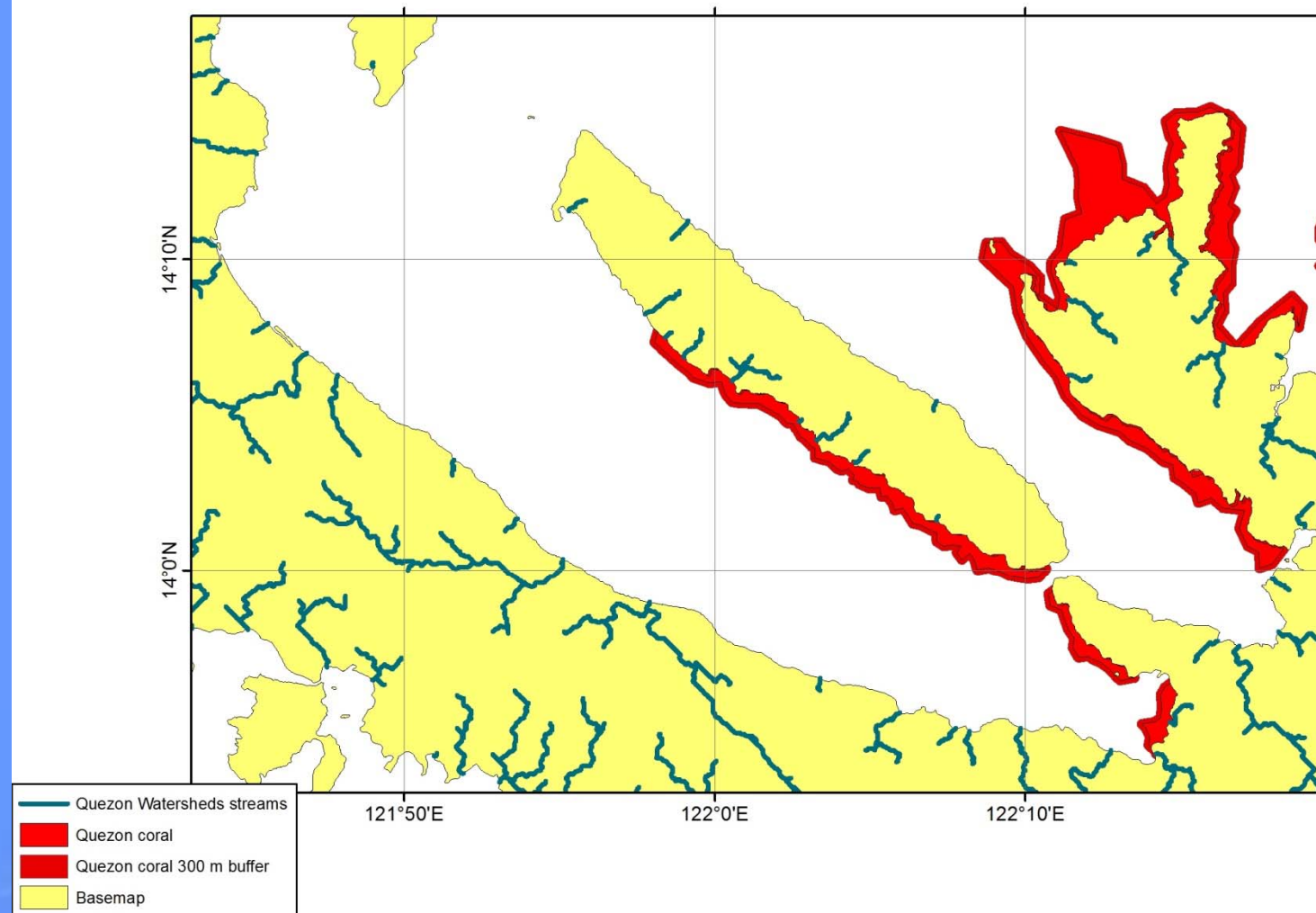
Criteria for mariculture park



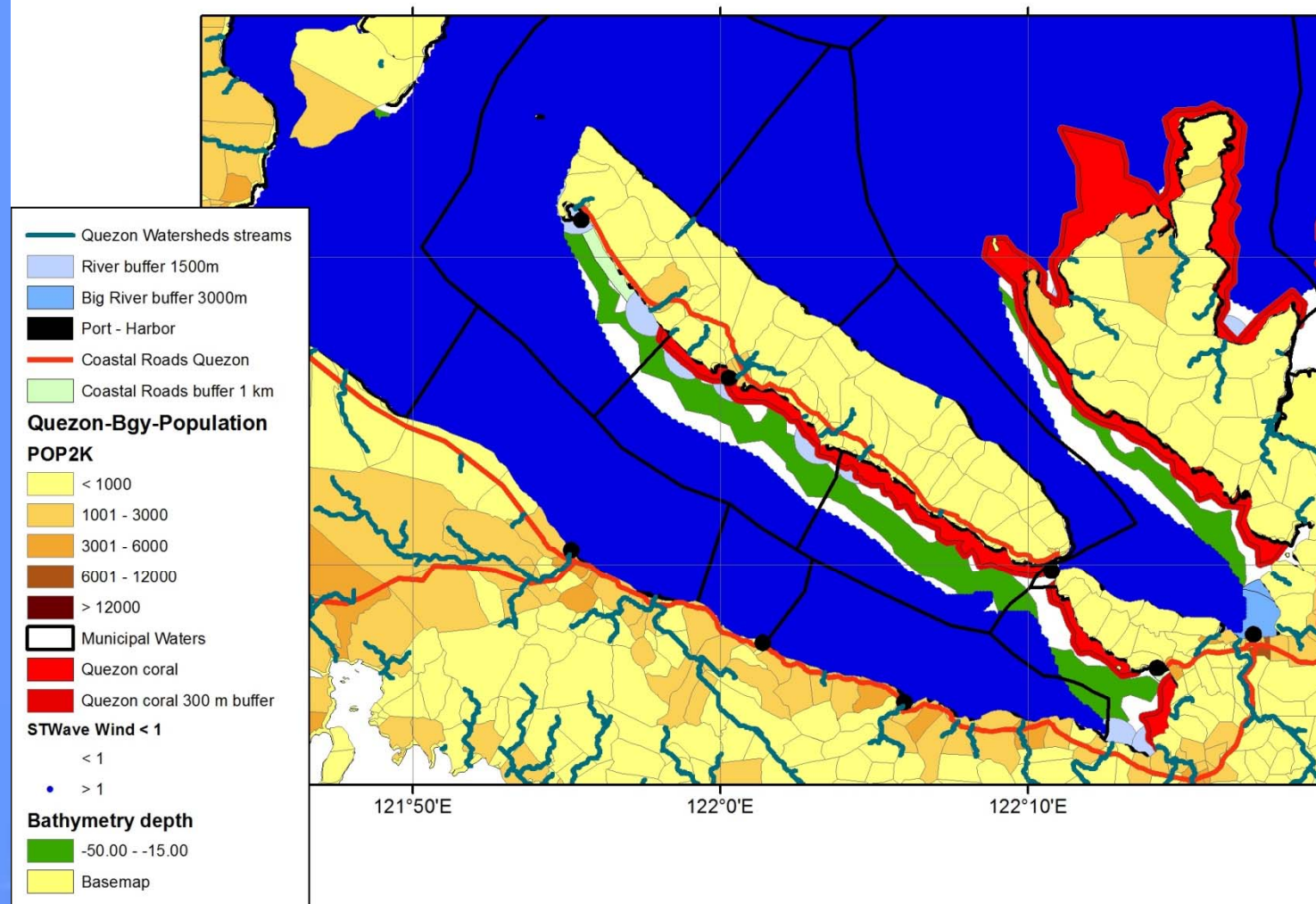
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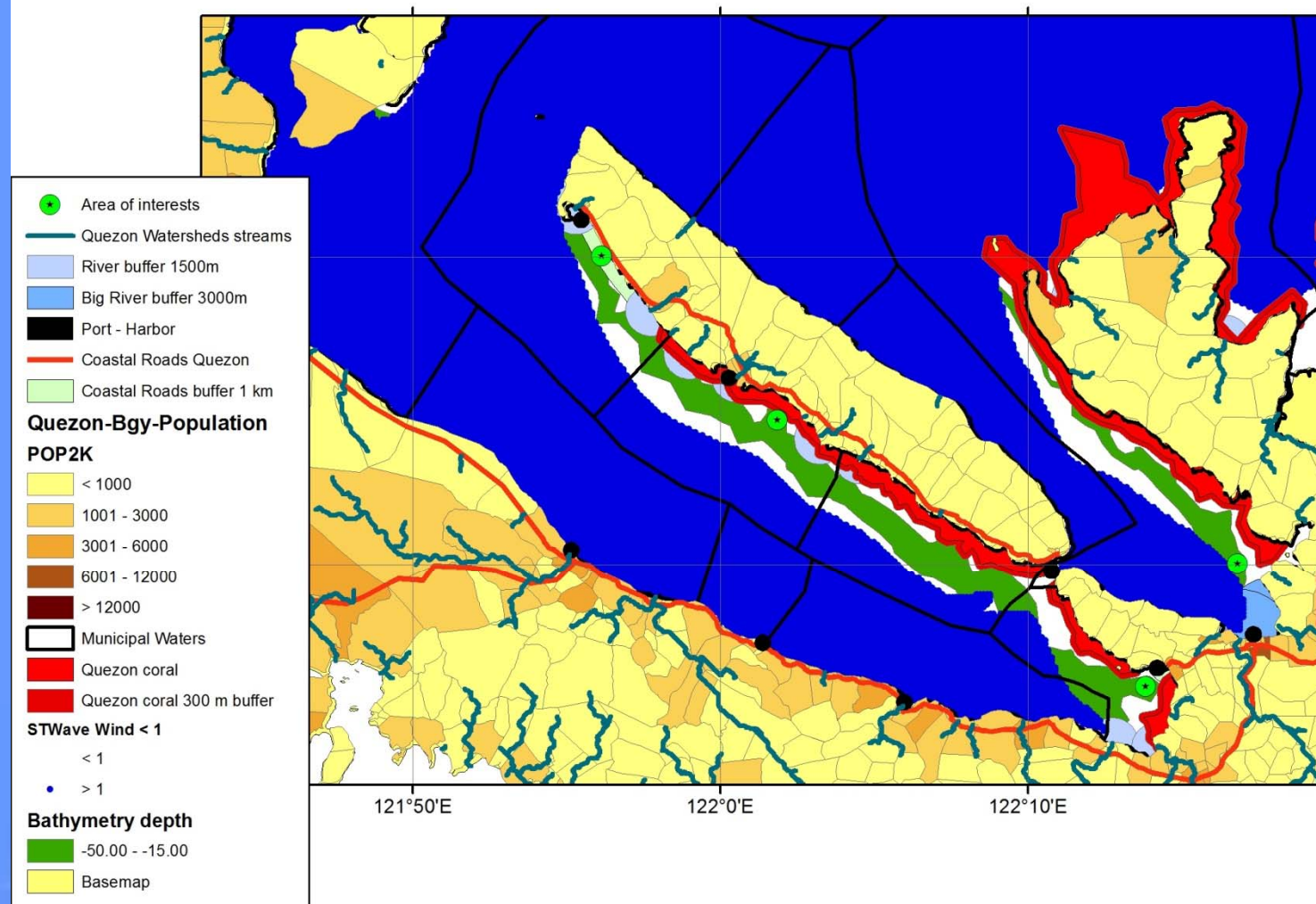
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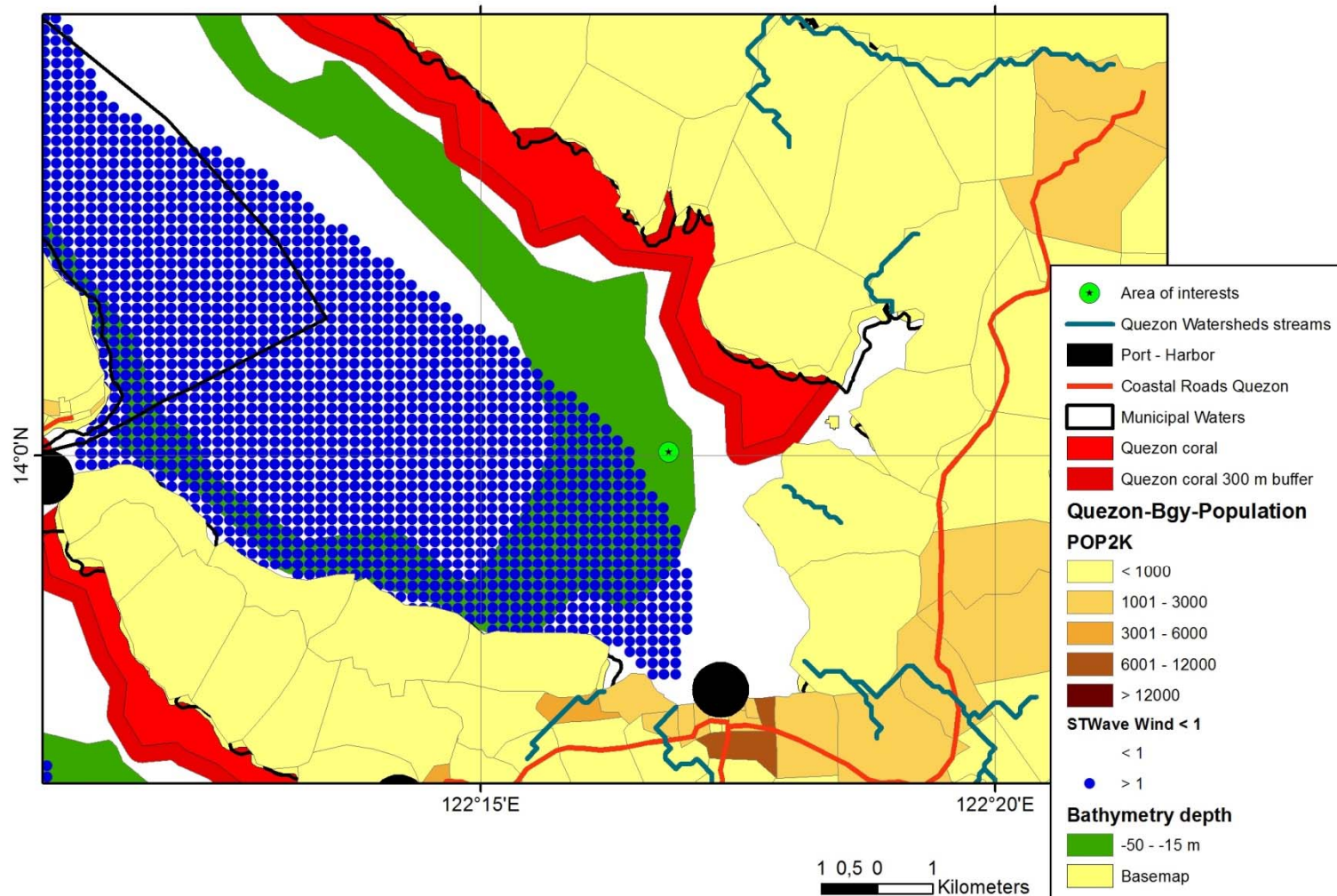
GIS result



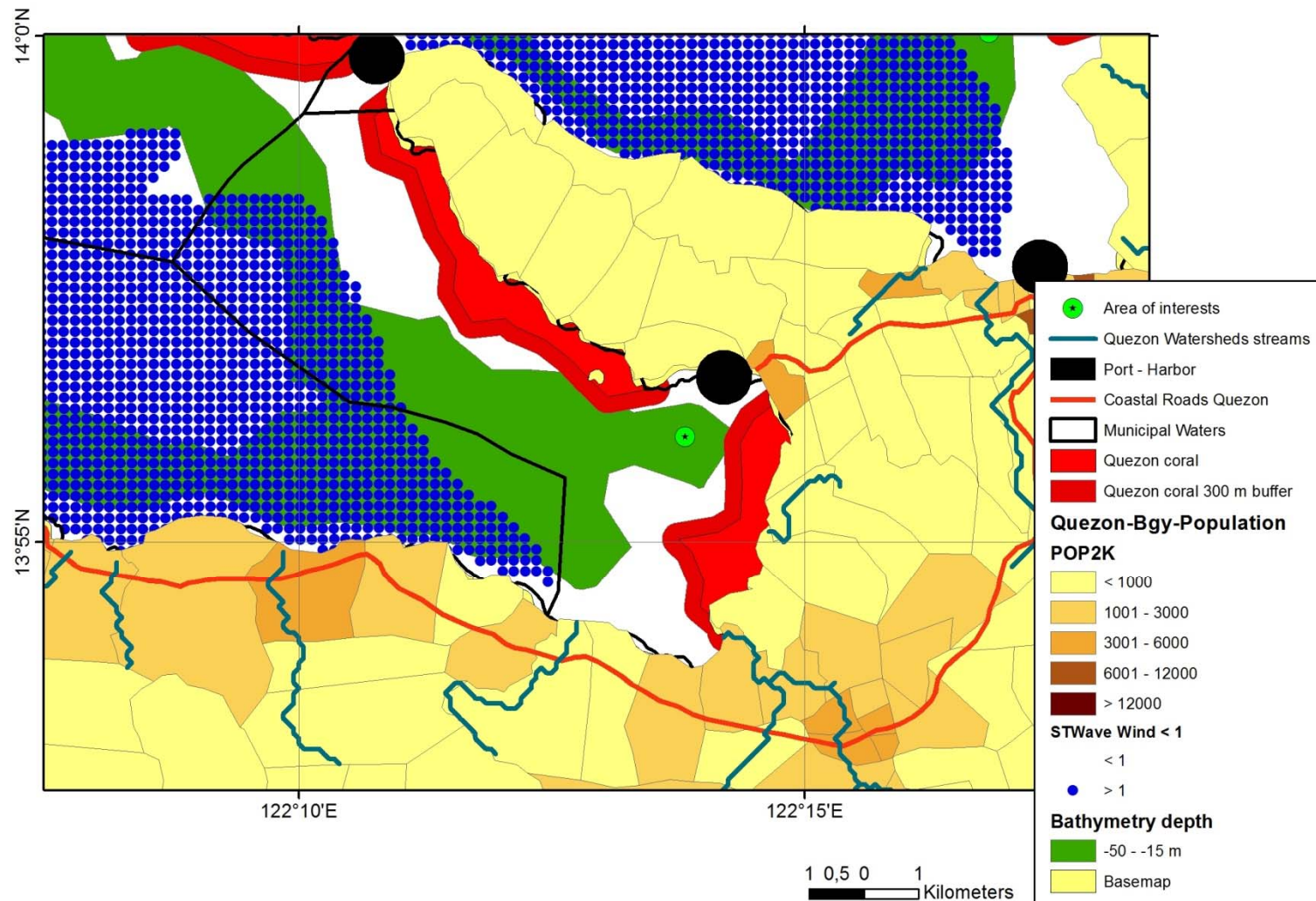
GIS result



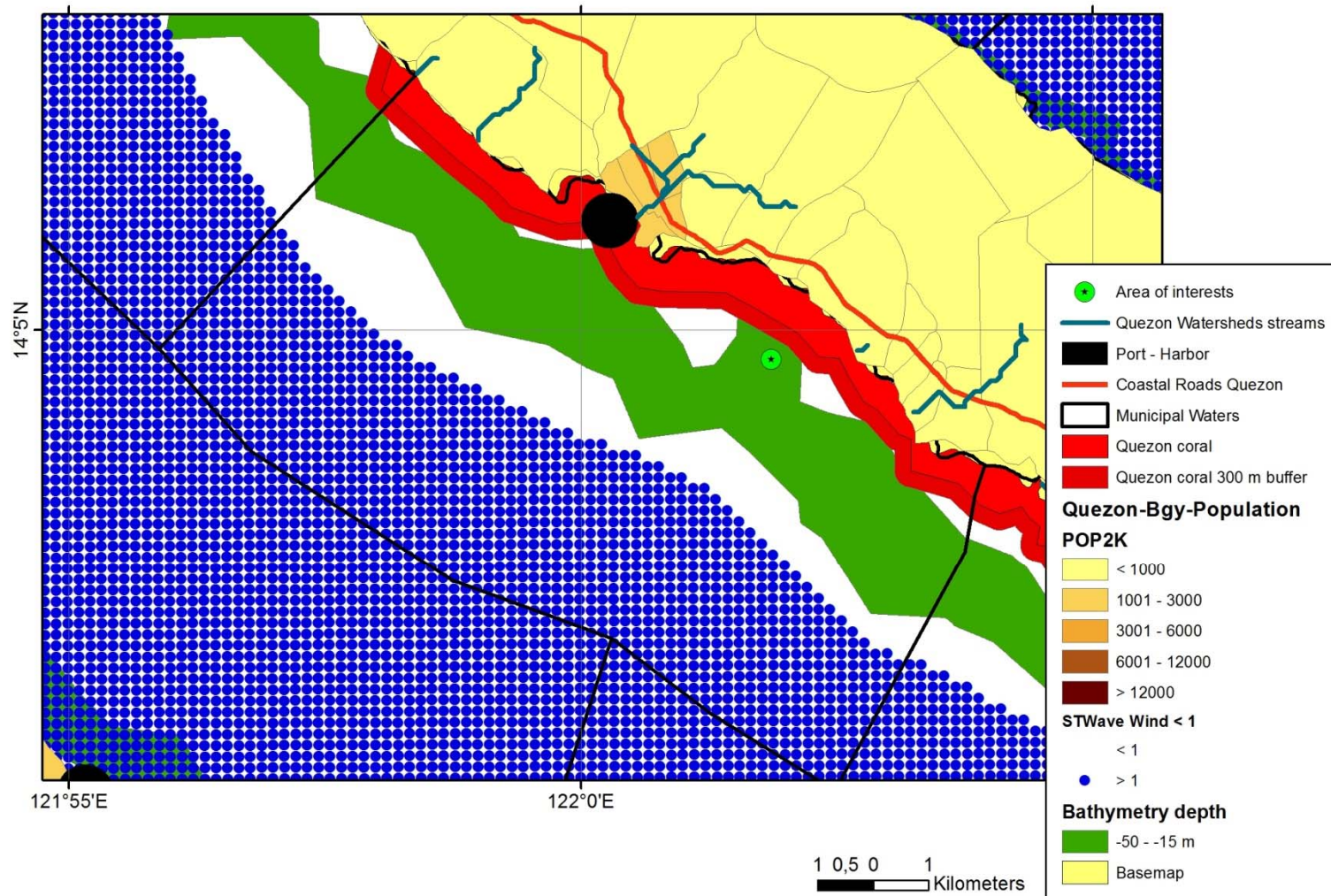
Calauag



Lopez



Alabat



Perez

