#### **AGENDA**

Review from last meeting

- Study design refinements
  - Biological component
  - Reference watershed selection

Pilot study options

# At Our Last Meeting

- Need for ASBS monitoring
  - Northern Cal has same issues

- Desire for "natural water quality"
  - Focus on receiving water

- Primary concern was wet weather (2008/09)
  - Pilot study this winter

#### Goals of the SWRCB

- Want to initiate a statewide ASBS monitoring program
  - Linkage to large regional programs is a plus
- Have some flexibility in monitoring design

 Willing to provide monitoring trade-offs to regulated stakeholders

# Monitoring Questions

- What is the range of natural conditions at reference intertidal locations?
- How does this range of natural water quality compare to ASBS sites during wet weather?
  - Dry weather?
- What is the extent of impact at shorelines in ASBS with and without discharges?

# Three Phase Approach

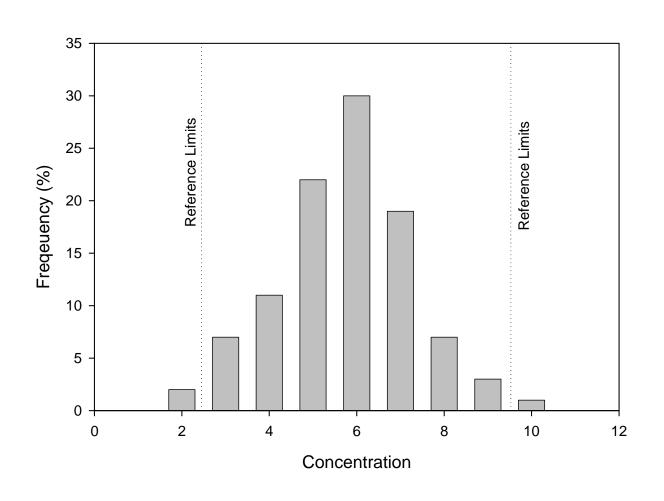
Develop natural water quality "limits"

- Compare specific ASBS locations to natural water quality limits
  - Near discharges

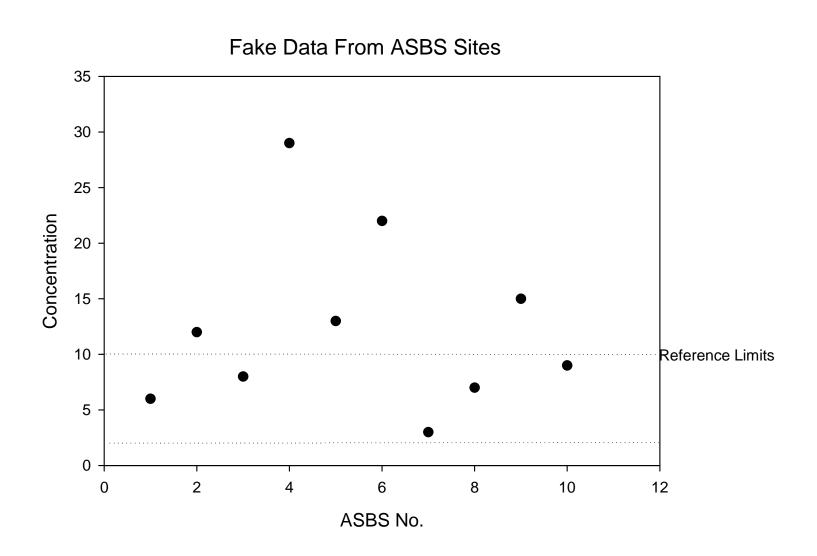
• Estimate extent of ASBS shoreline that exceeds natural water quality limits

# Defining Natural Water Quality

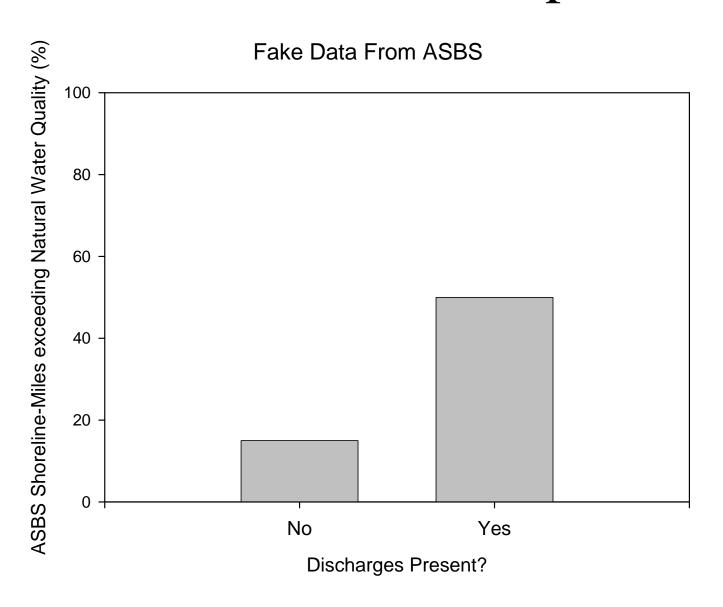
#### Fake Data From Reference Sites



# Comparing ASBS to NWQ Limits



# Extent of ASBS Impacts



#### **AGENDA**

Review from last meeting

- Study design refinements
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  - Reference watershed selection

Pilot study options

## Site Selection

• Two types of sites to discuss

• Reference sites

ASBS sites

#### Reference Site Criteria

- Open beach with breaking waves
- Not 303(d) listed
- Minimal human disturbance
  - Land use
- Catchment size within the range of ASBS discharges

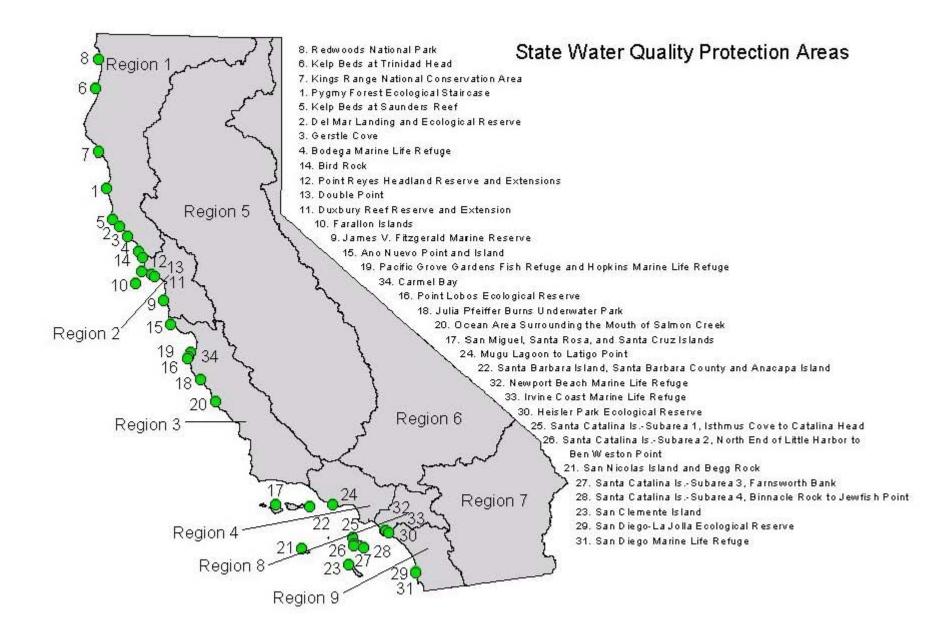
# GIS Information Used For Site Selection

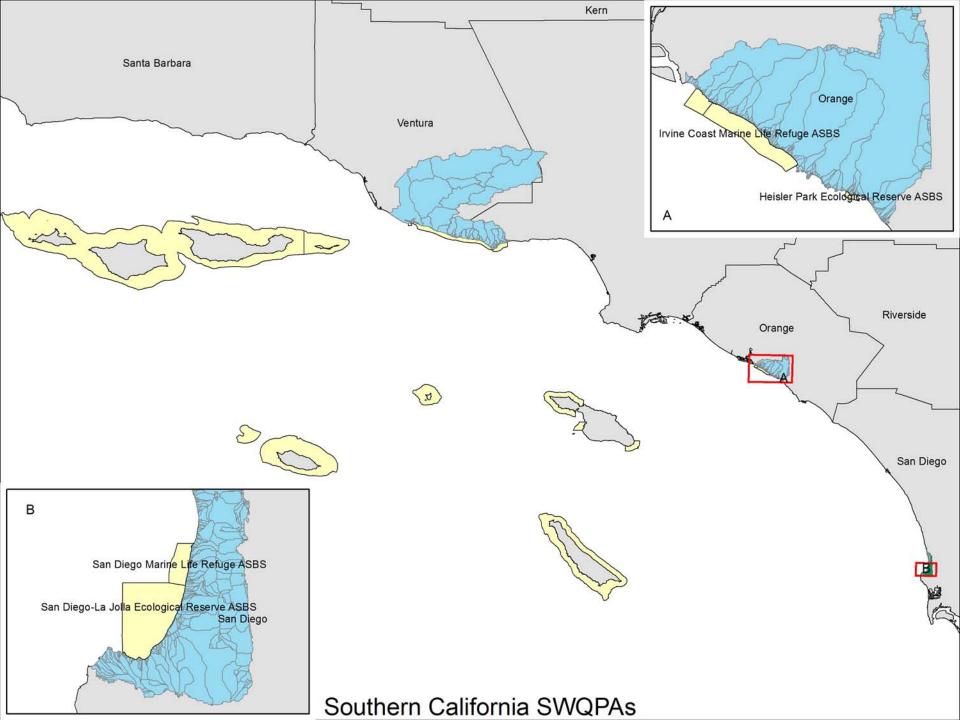
• SWRCB coastline layer

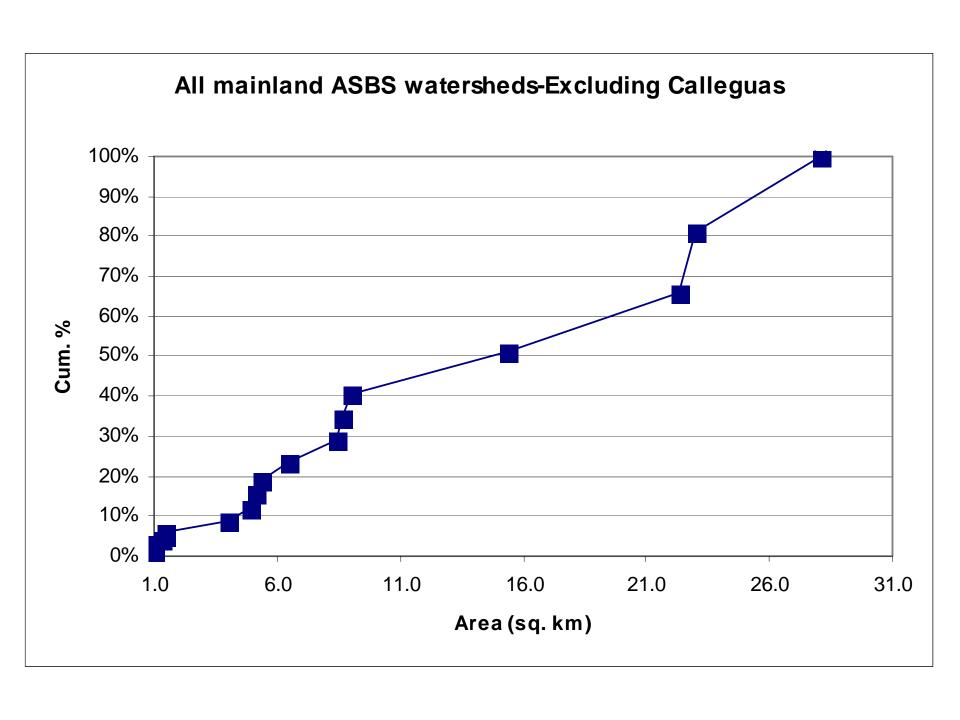
• SWRCB's 2006 303(d) list

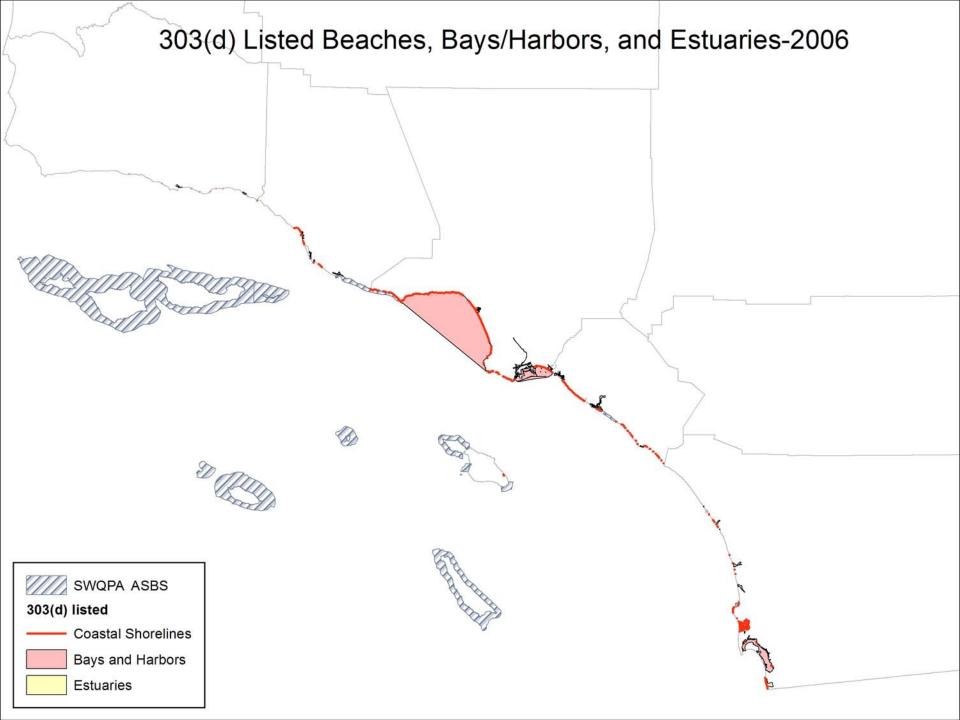
• NOAA's land cover data set

• CalWater watershed layer with some local data enhancements

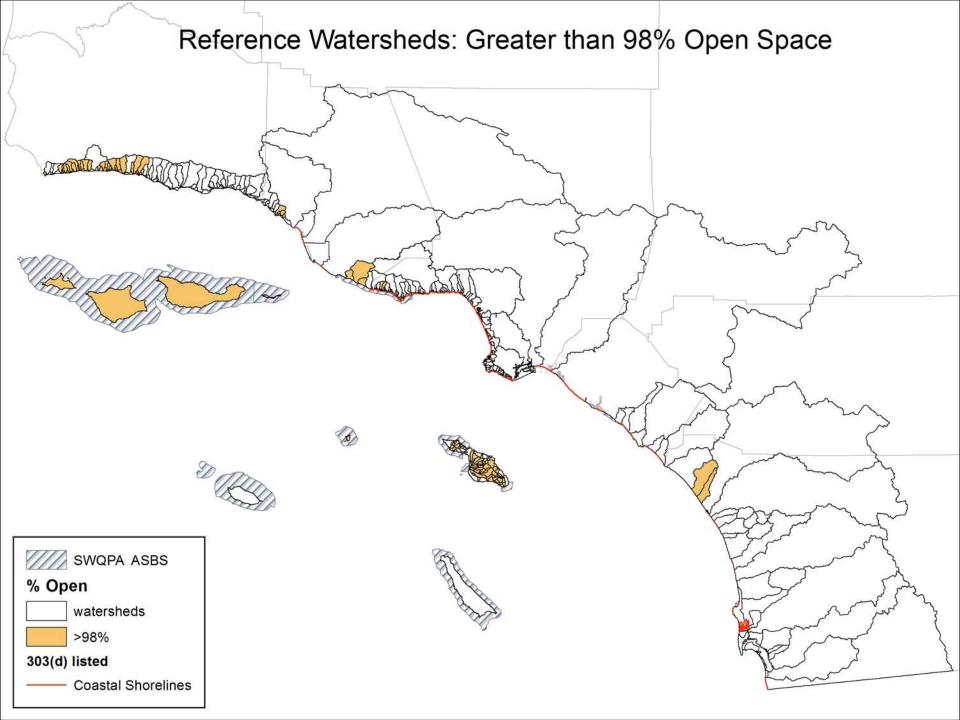


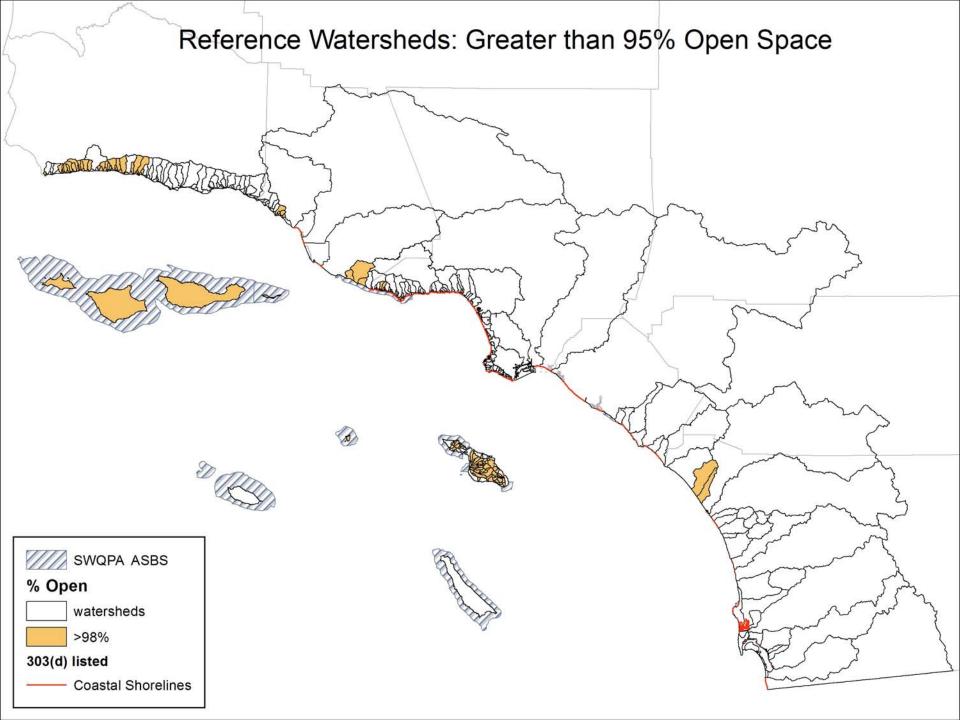


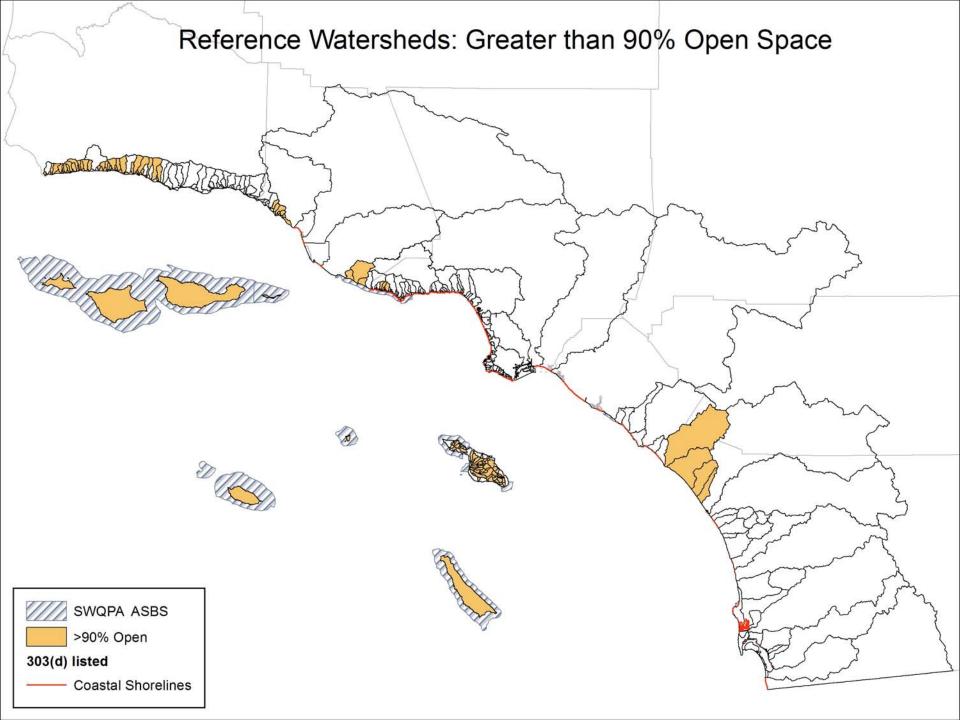










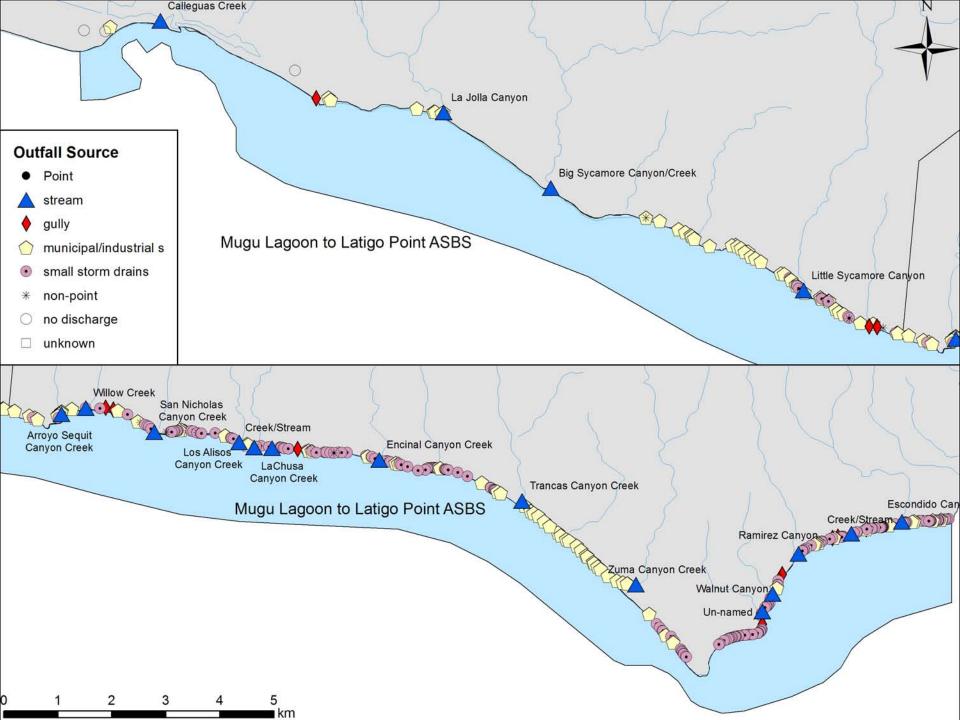


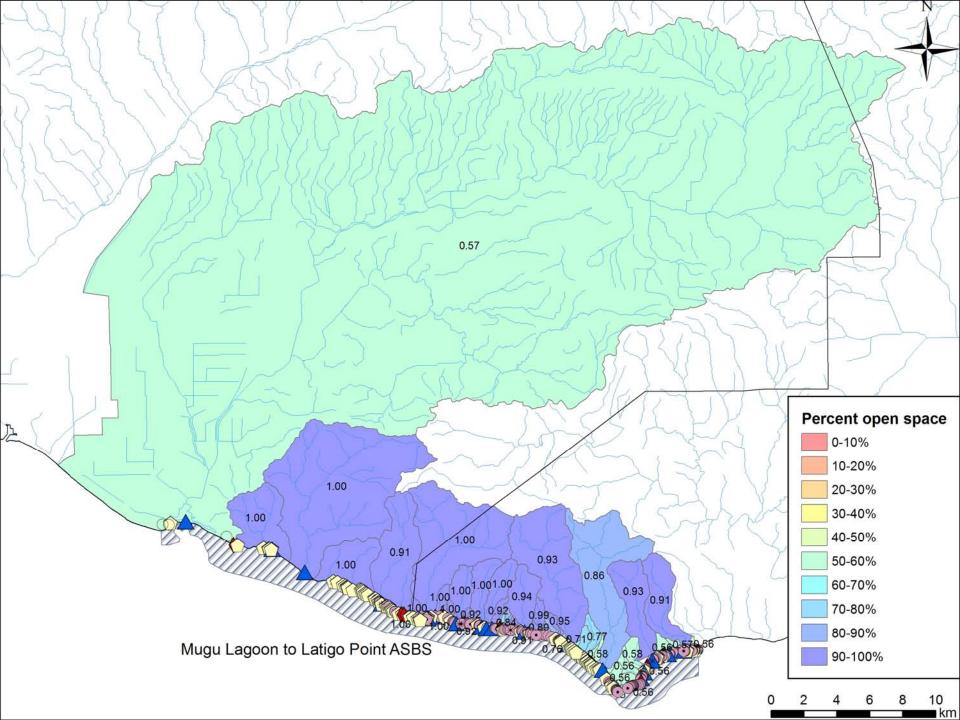
#### Site Selection

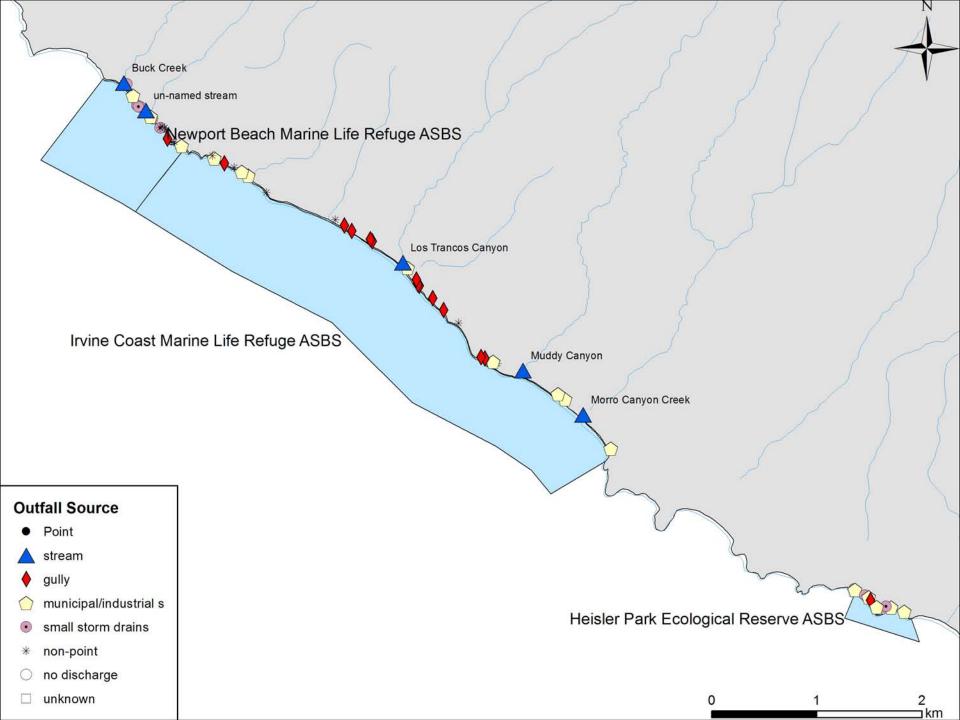
Two types of sites to discuss

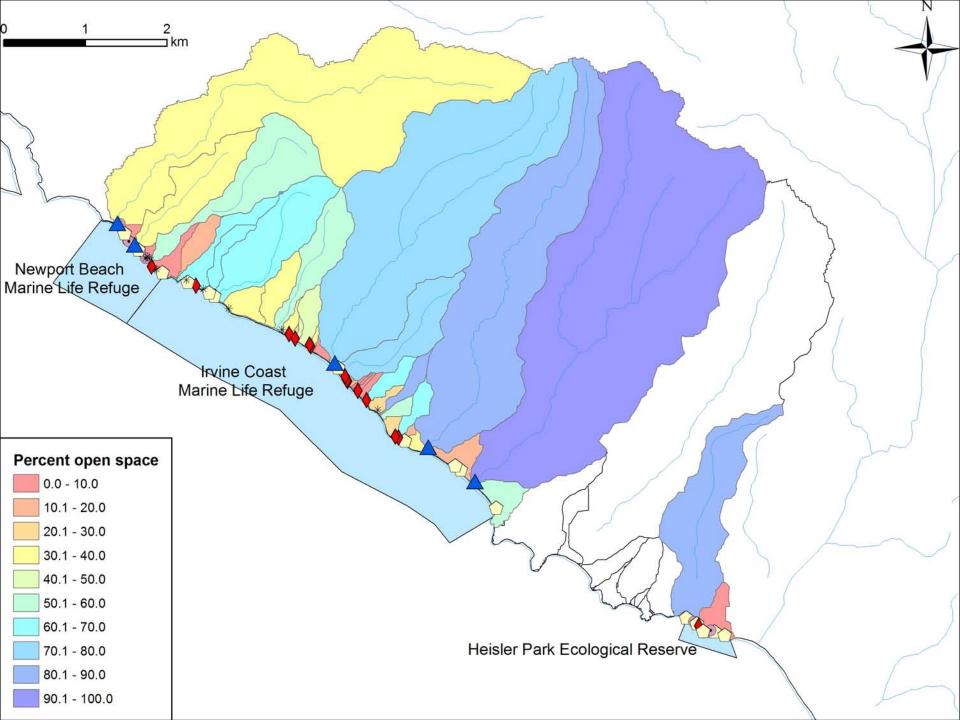
• Reference sites

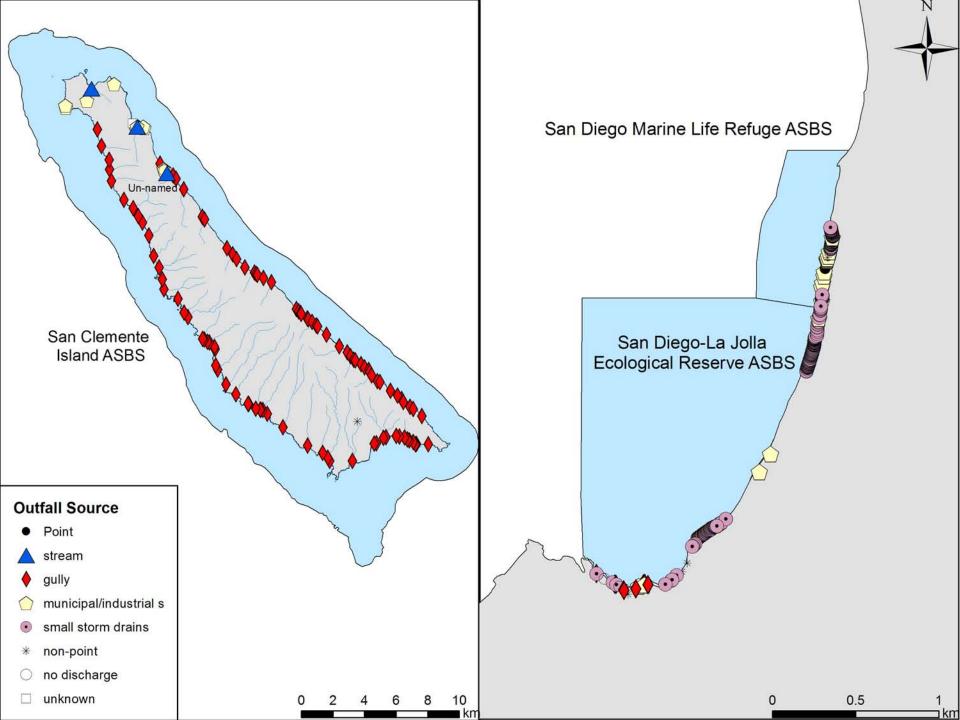
ASBS sites

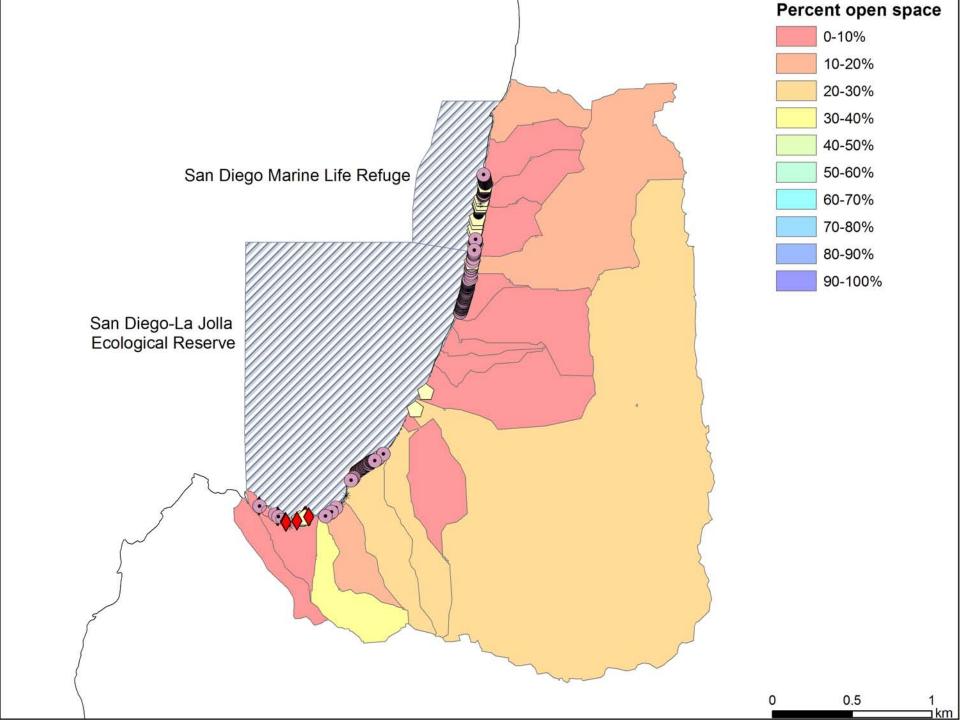


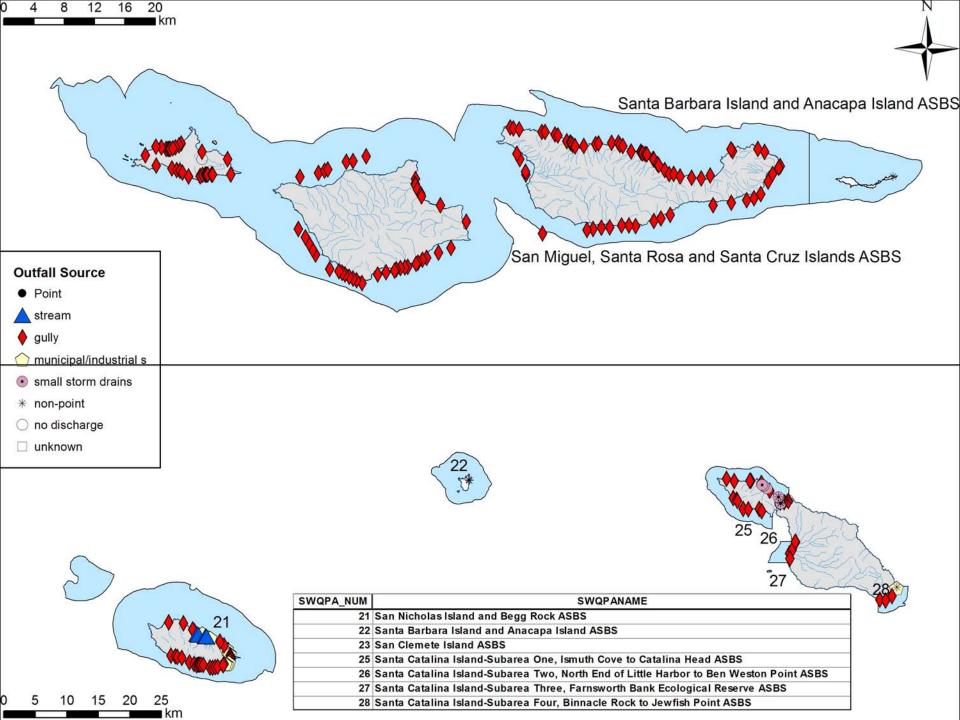












## Site Selection

Two types of sites to discuss

• Reference sites

ASBS sites