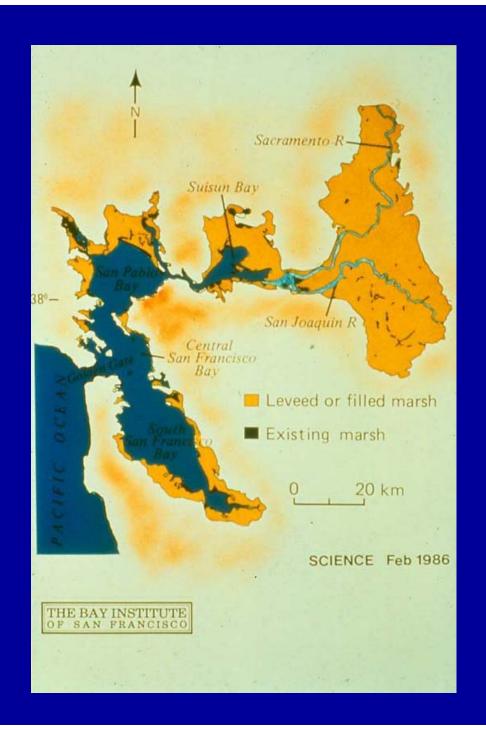
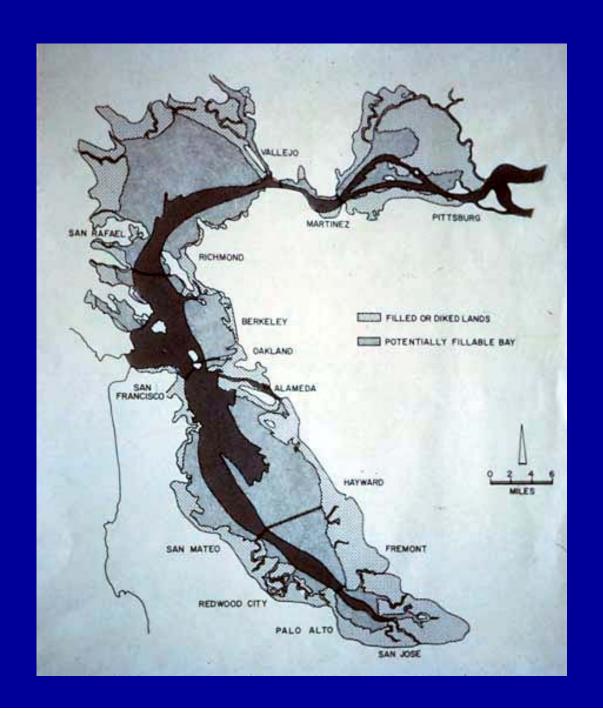
# Impacts of Global Climate Change on San Francisco Bay

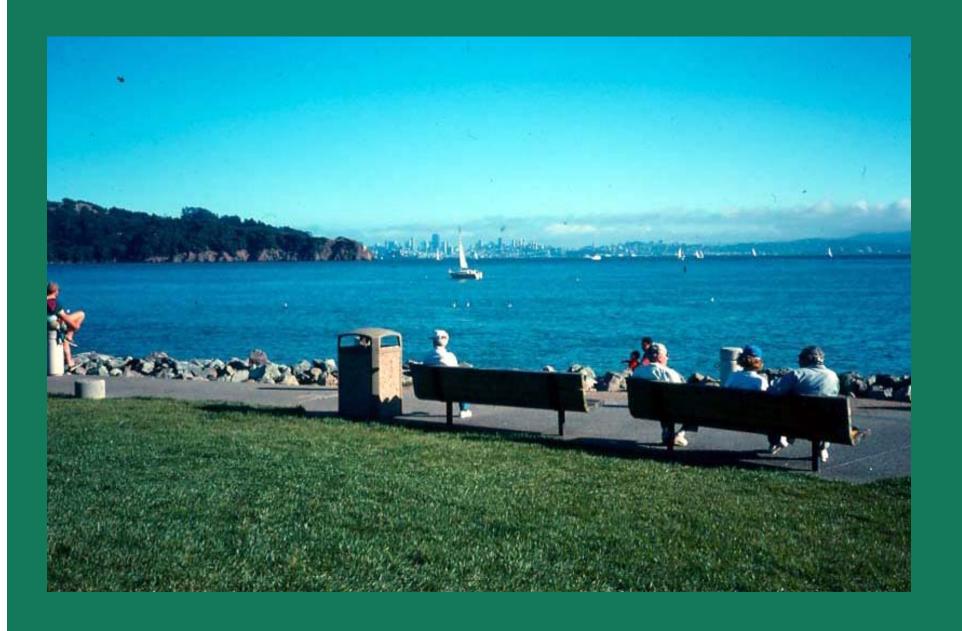


San Francisco Bay Conservation and Development Commission



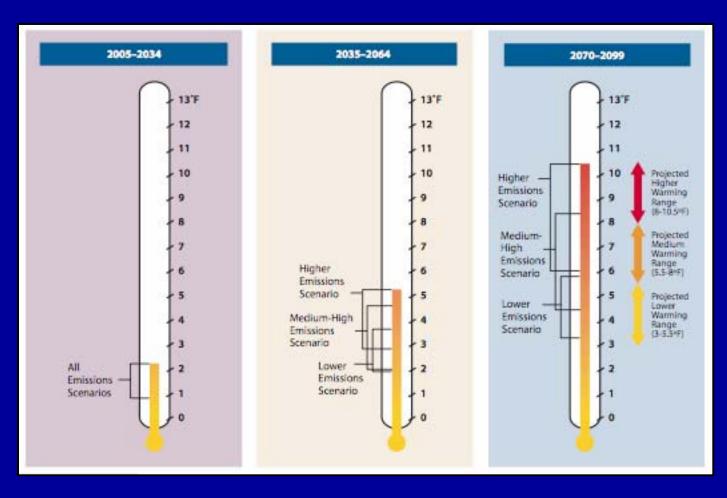






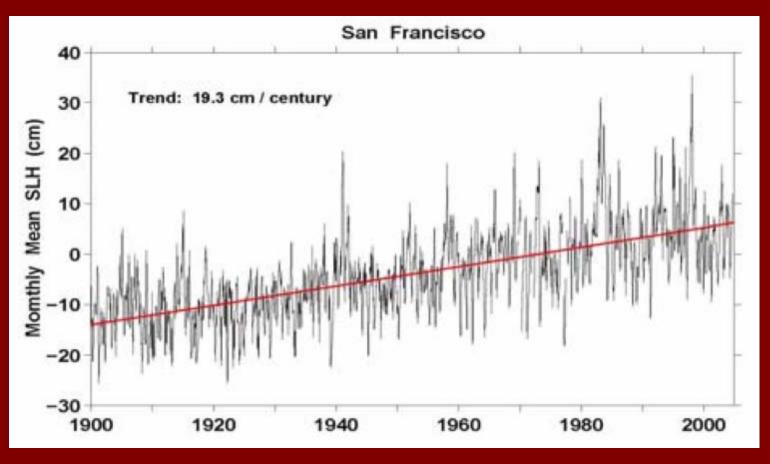
#### Climate Change Scenarios for California

Three Emissions Scenarios: Lower, Medium-High, Higher



Source: California Climate Change Center 2006

# San Francisco-observed sea level with trend of 19.3 cm (7.6 inches) per century

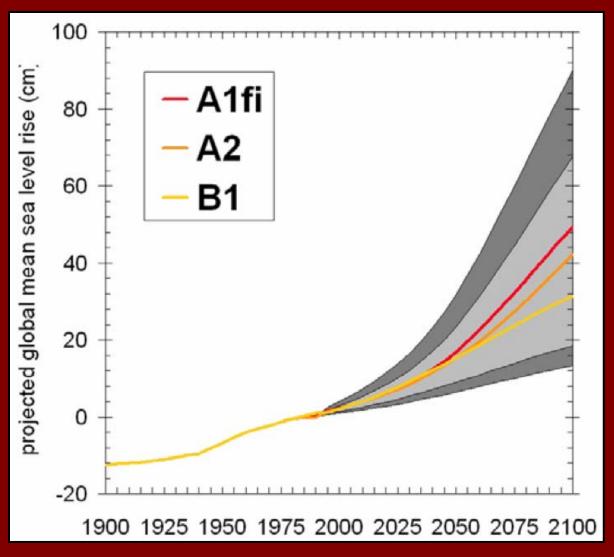


Source: California Climate Change Center 2006

#### Projected Sea Level Rise

# Three Emissions Scenarios:

- ■A1fi high
- ■A2 medium-high
- ■B1 low



Source: California Climate Change Center 2006

#### 







#### San Francisco International Airport

One Meter Sea Level Rise

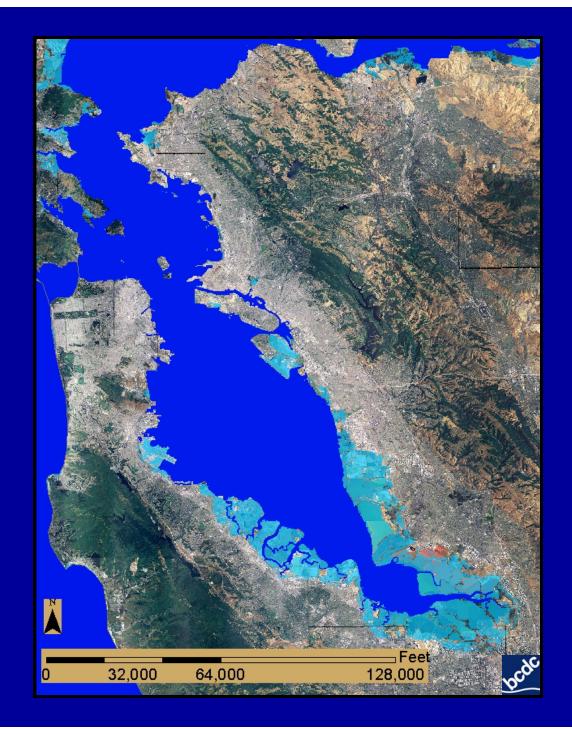
#### Oakland International Airport

One Meter Sea Level Rise



### Central and South San Francisco Bay

One Meter Sea Level Rise



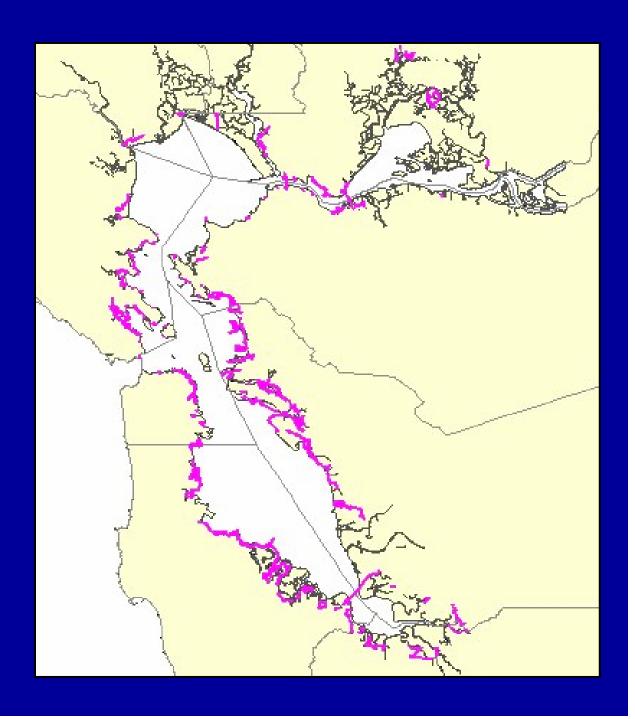
SFPUC Wastewater Treatment System



Source: SFPUC, sfwater.org

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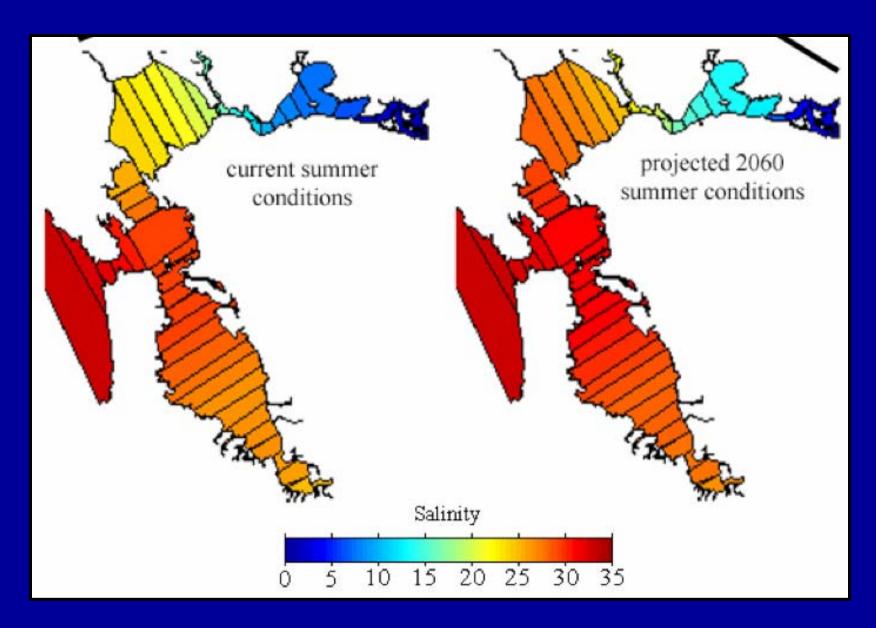






## Increased Storm Activity

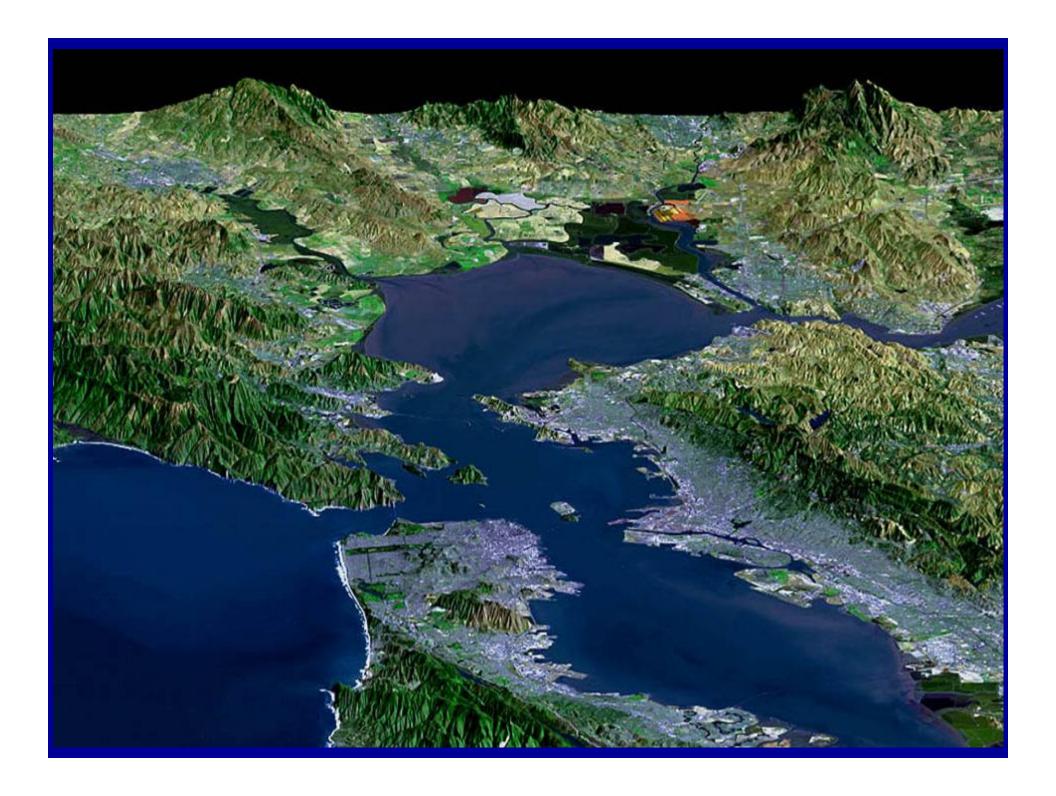
A 30 cm (11.8 inches) increase in sea level rise would shift the 100-year storm surge-induced flood event to once every 10 years.



Cayan et. al. 2005

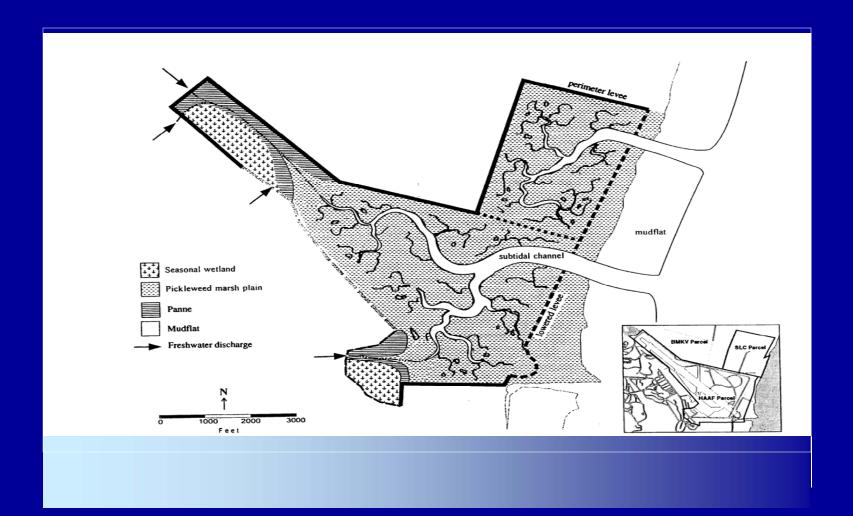








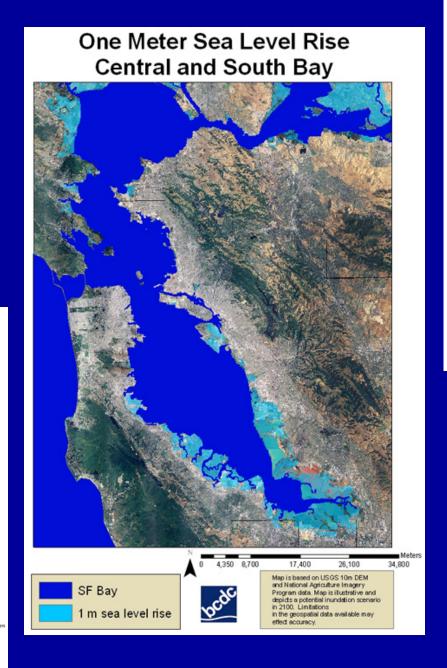
#### Hamilton Site at 50 Years





# Response to Issues Identified

- Provide initial vulnerability assessments through mapping
- Collaborate regionally to clarify jurisdiction issues and coordinate a systematic response
- Work with local governments to identify adaptation strategies
- Develop new Bay Plan Policies



One Meter Sea Level Rise San Francisco Airport







