Sea Level Rise planning in Marin County
Visit www.MarinSLR.org for more information

Project team: Marin Community Development and Dept. of Public Works
Contact Chris Choo, principal planner at 473-7586 or cchoo@marincounty.org

Moving forward...

How can we support planning and adaptation?

Findings for Marin County

Major Impacts

- Buildings and infrastructure
- Agriculture, livelihoods
- Impacts on wildlife

Moving forward...

- Planning and design
- Collaborative planning
- Learning and education

Vulnerability Assessment

- Low-lying areas
- Coastal communities
- Transportation
- Natural resources
- Resilience and adaptation
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Task review

1. Model and scenarios
2. Collaboration
3. Vulnerability assessment

Vulnerability Assessment

- Countywide impacts
- Buildings, businesses, tax revenue
- Utilities, facilities and infrastructure
- Transportation
- Cultural resources
- Recreation and natural areas

Moving forward...

How can we support planning and adaptation?

- Identify priorities, projects, and partners
- Do something, share information, act
- Demonstrate projects
- Develop guidance for land use and capital project policies
- Outreach: youth, disadvantaged communities, partners, public

Outreach: youth, disadvantaged communities, partners, public

Findings for Marin County

Major Impacts

- Early tidal and winter storms already impact Marin. Sea level rise makes these worse or permanently inundates low-lying areas.

- Highways 1, 101, 580 and 37, which impacts Marin, but also traffic across the region. 300 miles of road in Scenario 2 or 44%, and 300 miles by Scenario 6 or 91% of road level rise.

- All our transit is impacted as well, including buses, ferry, and train. Coastal areas will be impacted for beaches, wetlands, and our public access trails.

- Water treatment occurs at the bay. Many of these facilities are at risk. Imagine not being able to flush your toilet or otherwise let water down the drain.

- Buildings: impacted are approximate, but 4,000 homes, businesses, and institutions are flooded at Scenario 2 and 32,000 with Scenario 6. The market value of the homes in 5% is over $30 billion.

- Findings for Marin County
Task review

1. Model and scenarios

2. Collaboration

3. Vulnerability assessment
Long term

Mid term

Near term

SLR

SLR + 100 yr storm
Task review

1. model and scenarios

2. collaboration

3. vulnerability assessment
Vulnerability Assessment

- Countywide impacts
- Buildings, businesses, tax revenue
- Utilities: facilities and infrastructure
- Transportation
- Cultural resources
- Recreation and natural areas
Findings for Marin County

Major Impacts

Daily tides and winter storms already impact Marin. Sea level rise makes these worse or permanently inundates low-lying areas.

Highways 1, 101, 580, and 37, which impacts Marin, but also traffic across the region. (30 miles of road in Scenario 2 or 46", and 200 miles by Scenario 6 or 96" of sea level rise.)

All our transit is impacted as well, including bus, ferry, and train. Coastal access will be impacted for beaches, wetlands, and our public access trails.

Wastewater treatment occurs at the bay. Many of these facilities are at risk. Imagine not being able to flush your toilet or otherwise let water down the drain.

Buildings impacted are approximate, but 4,500 homes, businesses, and institutions are flooded at Scenario 2 and 12,100 with Scenario 6. The market value of the homes in S6 is over $20 billion!
Moving forward...

How can we support planning and adaptation?

- Identify priorities, projects, and partners
- Develop criteria
- Do something, share information, act!
- Coordination with regional efforts
- Demonstration projects
- Outreach: youth, disadvantaged communities, partners, public
- Develop guidance for land use and capital project policies
Do something, share information, act!
Task review

1. Model and scenarios
2. Collaboration
3. Vulnerability assessment

Moving forward...

How can we support planning and adaptation?

- Identify priorities, projects, and partners
- Develop criteria
- Do something: share information, etc.
- Coordination with regional efforts
- Demonstration projects
- Outreach: youth, disadvantaged communities, partners, public

Vulnerability Assessment

- Countywide impacts
- Buildings, business, tax revenue
- Utilities facilities and infrastructure
- Transportation
- Cultural resources
- Recreation and natural areas

Findings for Marin County

Major Impacts

- Early tidal and winter storms already impact Marin. Sea level rise makes these worse or permanently inundates low-lying areas.

- Highways 1, 101, 80, and 37, which impact Marin, but also traffic across the region. 100 miles of road in Scenario 7 or 46', and 200 miles by Scenario 6 or 67' of tide level rise.

- All our transit is impacted as well, including trains, ferry, and train. Coastal access will be impacted for beaches, wetlands, and our public access trails.

- Waterfront treatment occurs at the bay. Many of these facilities are at risk. Imagine not being able to flush your toilet or otherwise let water down the drain.

- Buildings impacted are approximately 40,000 homes, businesses, and institutions are flooded at Scenario 2 and 32,000 with Scenario 6. The market value of the homes in S4 is over $10 billion.
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