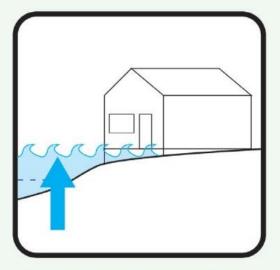


- How can sea level rise impact your project?
- How much and when?
- What can you do about it?



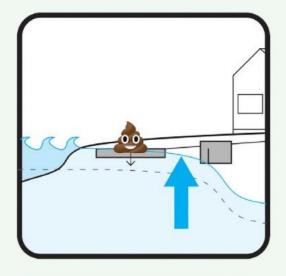


Sea Level Rise Impacts



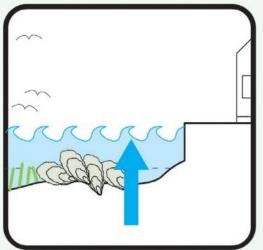
INUNDATION

Higher tides move storm surge higher and further inland. Extreme events will be more frequent; 100-year floods could become 10year floods.



SALINITY

Sea level rise raises groundwater, increasing salinity. This harms wells, septic systems and vegetation, which reduces soil stability and water quality.



HABITAT LOSS

Rising seas reduce the size of mudflats, marshes and intertidal habitats. If upland area is available, habitats may be able to adapt to "coastal squeeze."



Diagram: Jackson Blalock

LANDFORM CHANGE

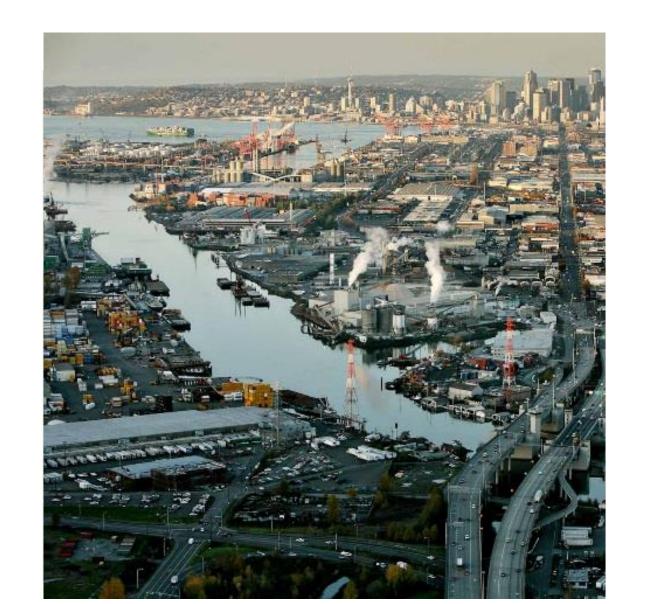
Higher waters move sediments in new ways, causing some areas to erode more quickly, while others may grow.

Sea level rise + existing erosion





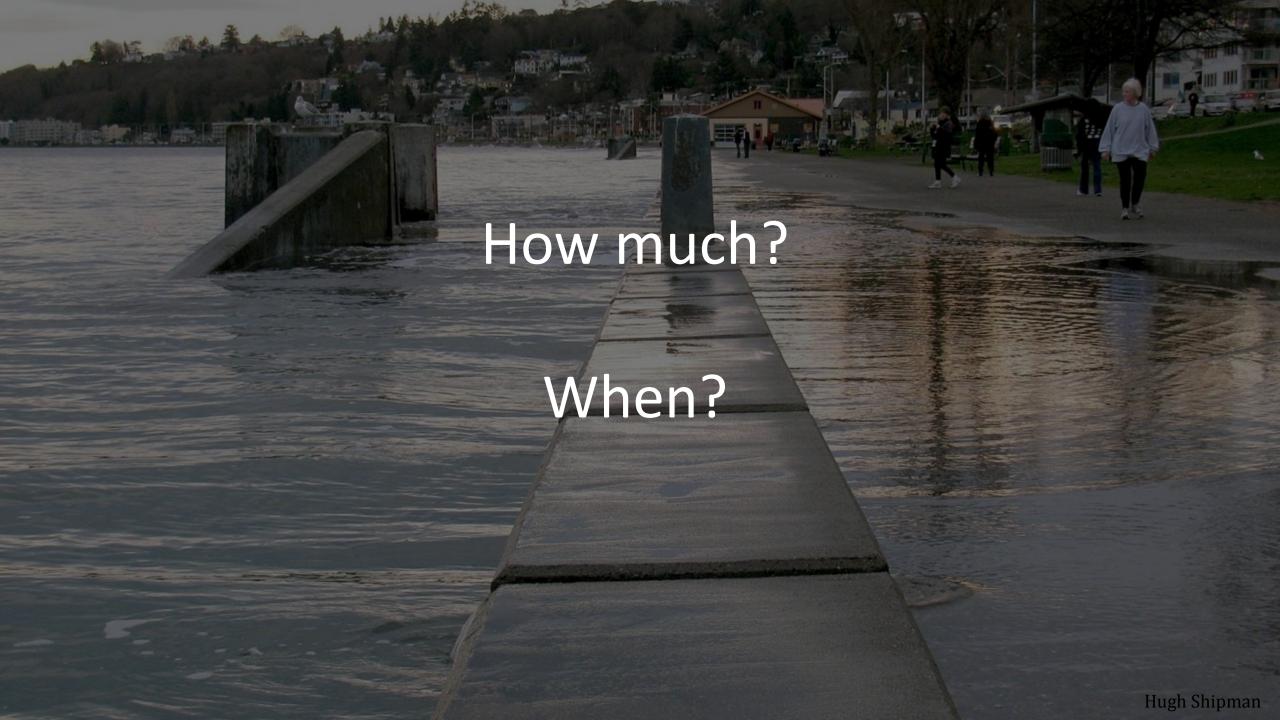
Sea level rise + filled tidelands





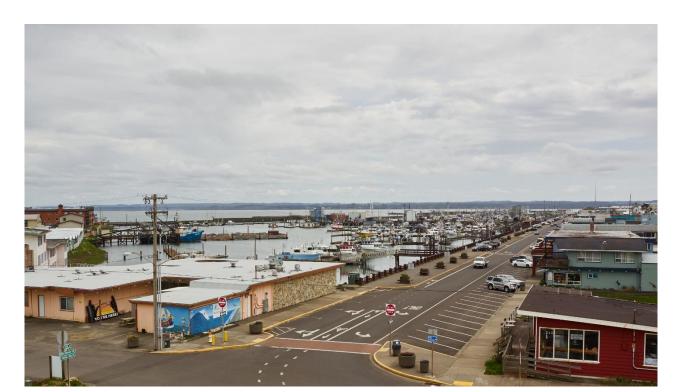






The Washington Coastal Resilience Project

Goal: Increase regional capacity to build resilience to changes in relative sea level.





The Washington Coastal Resilience Project

Goal: Increase regional capacity to build resilience to changes in relative sea level.



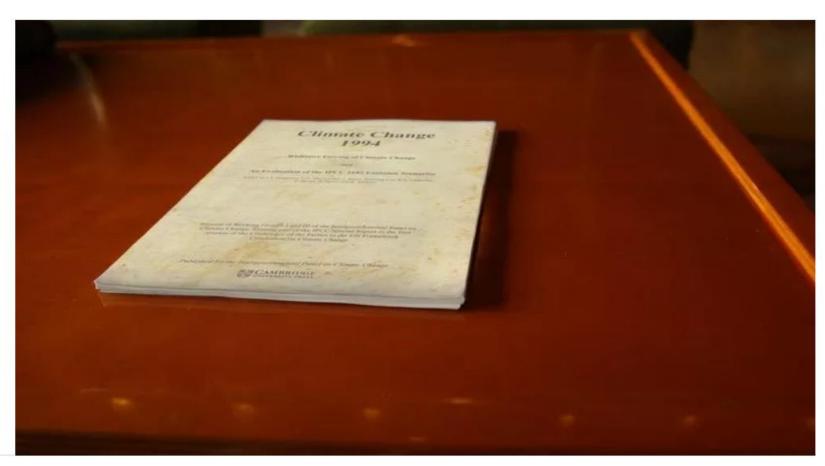








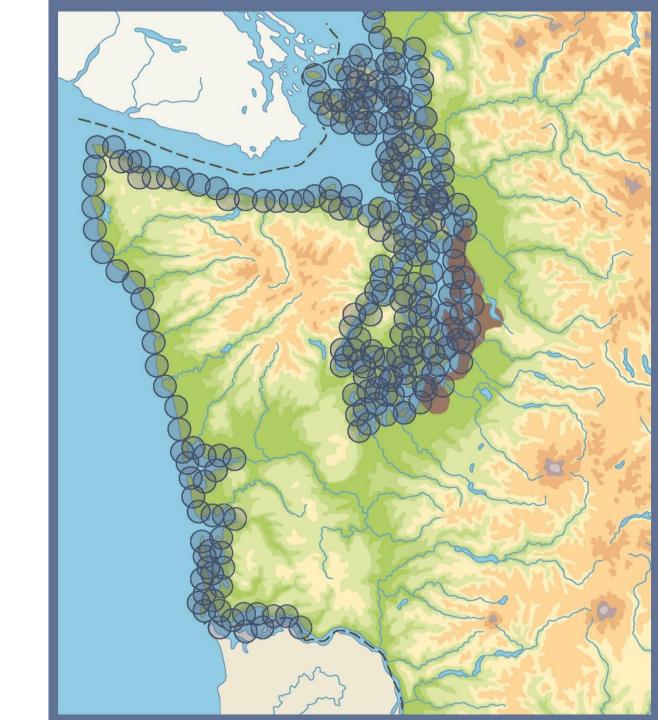
'The Time To Act Is Now,' Says Yellowing Climate Change Report Sitting In University Archive

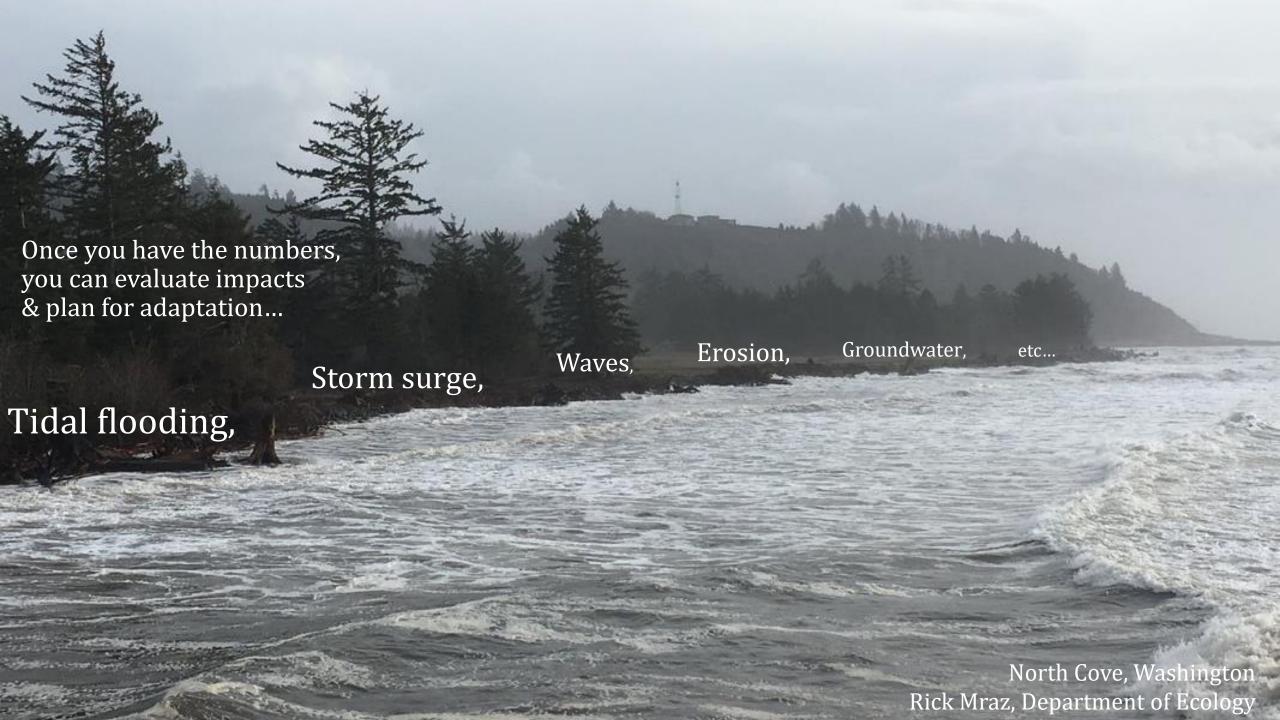


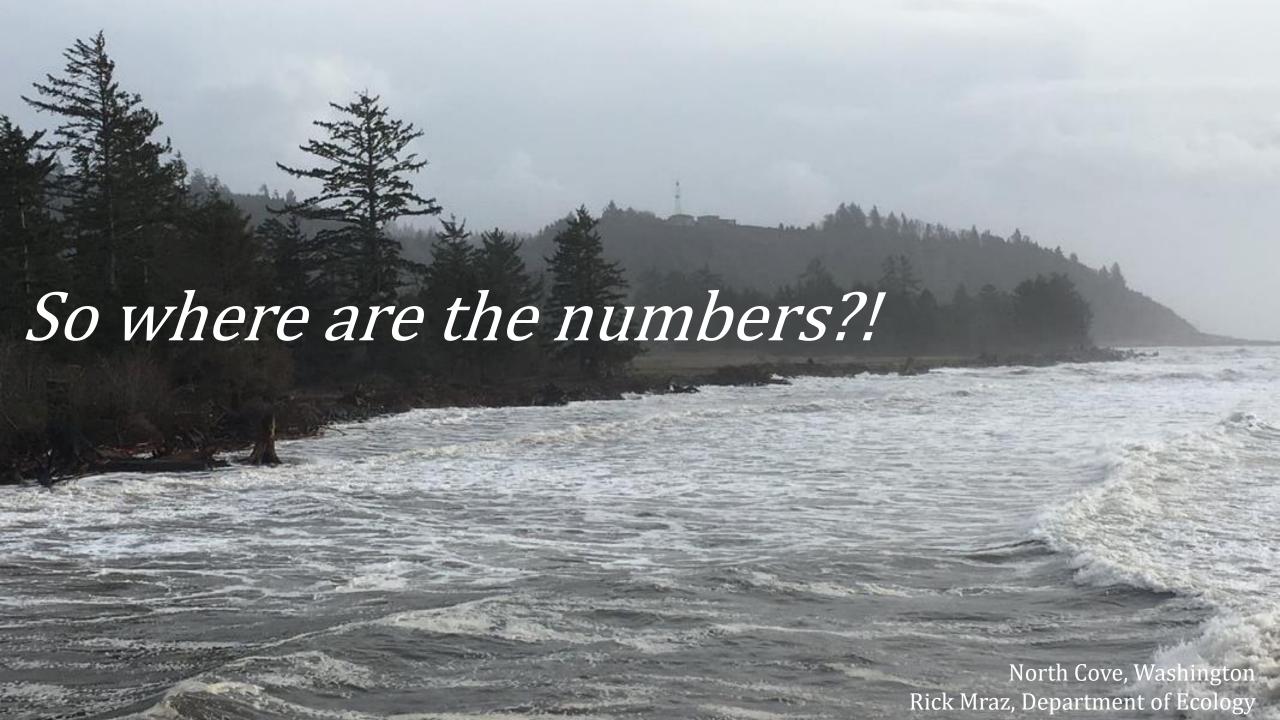


Sea level rise projections: go local!

- Future high tides at 150+ sites
- Vertical land movement
- Probabilistic: investments + livelihoods
- Extreme events additive
- Applicable to planning or projects





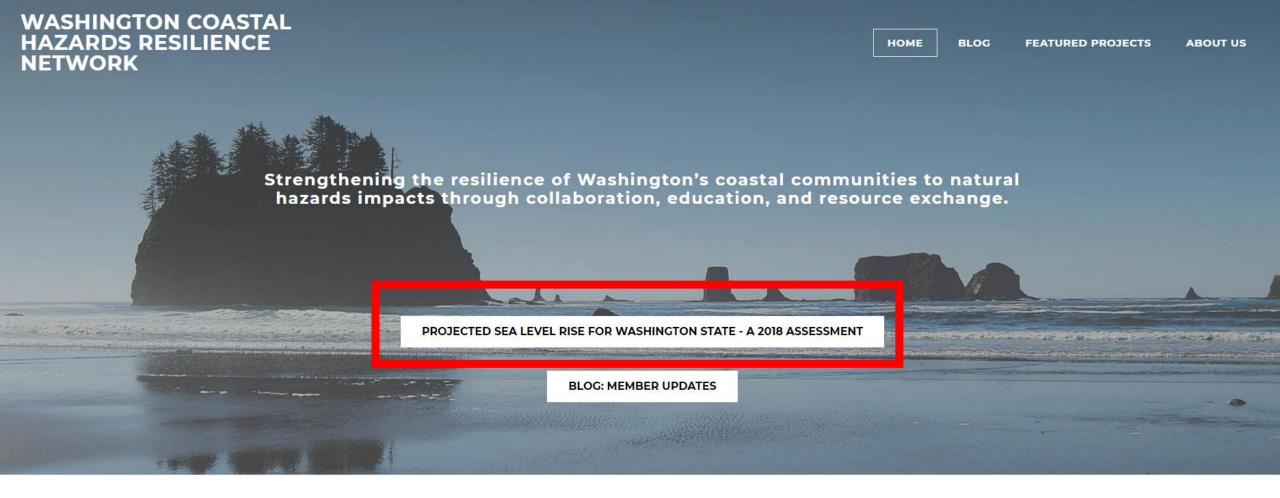








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WCRP

What's at Stake
Partners
Relevant Blogs

Data and Resources

Data and Resources

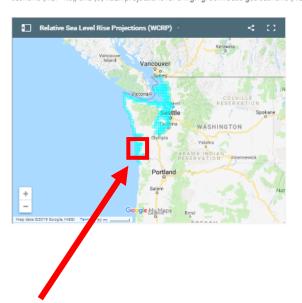
Sea Level Rise Projections

This project provides an updated set of sea level rise projections that incorporates the latest science, provides community-scale projections, and is designed for direct application to risk management and planning.

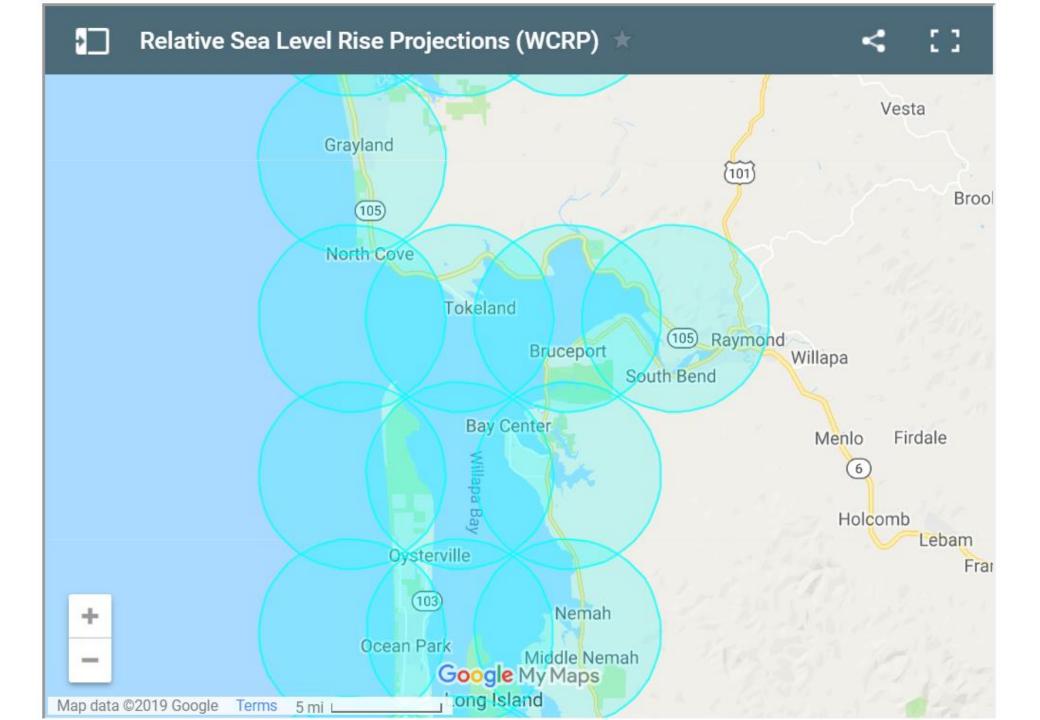
Our new projections reflect the latest science on sea level rise and are an improvement over previous assessments. We recommend using these new projections for coastal impacts assessments within the state of Washington.

How is relative sea level rise projected to change along Washington's coastlines?

The map below links to relative sea level rise (RSLR) projections for 171 sites along Washington's coast. The projections for each site are provided as a downloadable excel spreadsheet which contains three worksheets: (1) an overview, (2) RSLR projections for a low greenhouse gas scenario (RCP 4.5), and (3) RSLR projections for a high greenhouse gas scenario (RCP 8.5).



map with 150+ local SLR projections



see spreadsheet RSLProjections_for...

s (WCRP)





name

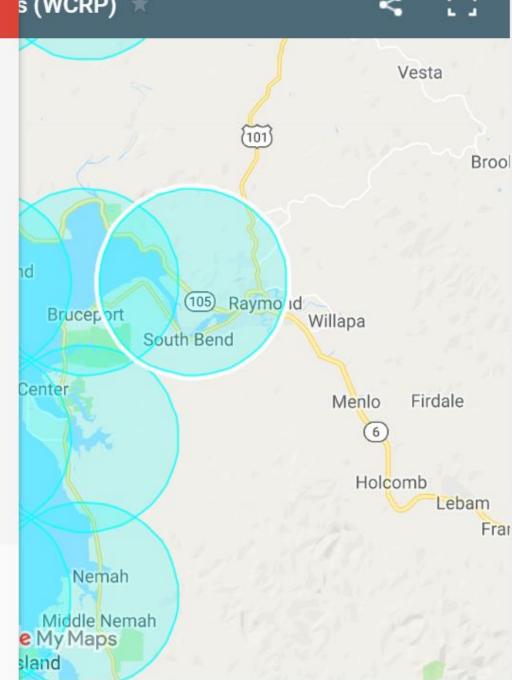
see spreadsheet RSLProjections_forLat46.7Long-123.8.xlsx

description

Developed as part of the Washington Coastal Resilience Project, the excel sheet referenced with this polygon summarizes a current assessment of sea level projections for this area

Data Download:

http://www.wacoastalnetwork.com/files/th eme/wcrp/mapdata/RSLProjections_Lat46 .7N_Long123.8W.xlsx



Projections: spreadsheets

| robability of Exceedance: | hability |
|--|----------|
| 95 90 83 50 17 10 5 1 0.1 Prof | bability |
| | of |
| -0.1 0 0 0 0.1 0.1 0.1 0.2 0.2 EVCO | eedance |
| -0.1 0 0.1 0.2 0.2 0.3 0.4 | |
| 0 0 0.1 0.2 0.3 0.4 0.4 0.5 0.6 (risk to | olerance |
| 0 0.1 0.1 0.3 0.5 0.6 0.6 0.8 1.1 | |
| 0 0.1 0.2 0.5 0.7 0.8 0.9 1.2 1.8 0.1 0.2 0.3 0.6 1 1.2 1.6 2.6 | |
| 0.1 0.2 0.3 0.6 1 1.2 1.6 2.6 | |
| 0.2 0.4 0.5 0.9 13 1.4 1.6 2.2 3.6 | |
| 0.3 0.5 0.6 1.6 1.8 2.1 2.8 5 0.4 0.6 38 1.3 2 2.2 2.6 3.5 6.3 | |
| 0.4 0.6 68 1.3 2 2.2 2.6 3.5 6.3 | |
| 0.5 0.7 (19 1.6 2.4 2.7 3.1 4.4 7.9 | |
| 0.6 0.8 1 1.7 2.5 2.9 3.4 5.1 9.3 | |
| 0.7 0.9 1.2 2 3 3.4 4 6 11.4 | |
| 0.8 1.1 1.3 2.3 3.4 3.9 4.7 7.1 13.1 | |
| 0.8 1.2 1.5 2.5 3.9 4.4 5.3 8.2 15.5 | |
| 0.9 1.3 1.6 2.8 4.4 5 6 9.4 17.6 | |

Timeline →

Choose your risk tolerance...

| | | ress i | isk aver | rse Li | ikely rai | nge | Mo | re risk a | verse > | | |
|-----------------------|------|--------|----------|--------|-----------|-----|-----|-----------|---------|------|-------------|
| 19 year period center | 99 | 95 | 90 | 83 | 50 | 17 | 10 | 5 | 1 | 0.1 | ← Probabili |
| 2010 | -0.1 | -0.1 | 0 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | of |
| 2020 | -0.1 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | Exceedan |
| 2030 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | |
| 2040 | -0.1 | 0 | 0.1 | 0.1 | 0.3 | 0.5 | 0.6 | 0.6 | 0.8 | 1.1 | |
| 2050 | -0.1 | 0 | 0.1 | 0.2 | 0.5 | 0.7 | 0.8 | 0.9 | 1.2 | 1.8 | |
| 2060 | -0.1 | 0.1 | 0.2 | 0.3 | 0.6 | 1 | 1.1 | 1.2 | 1.6 | 2.6 | |
| 2070 | 0 | 0.2 | 0.4 | 0.5 | 0.9 | 1.3 | 1.4 | 1.6 | 2.2 | 3.6 | |
| 2080 | 0 | 0.3 | 0.5 | 0.6 | 1.1 | 1.6 | 1.8 | 2.1 | 2.8 | 5 | |
| 2090 | 0 | 0.4 | 0.6 | 0.8 | 1.3 | 2 | 2.2 | 2.6 | 3.5 | 6.3 | |
| 2100 | 0 | 0.5 | 0.7 | 0.9 | 1.6 | 2.4 | 2.7 | 3.1 | 4.4 | 7.9 | |
| 2110 | 0.2 | 0.6 | 0.8 | 1 | 1.7 | 2.5 | 2.9 | 3.4 | 5.1 | 9.3 | |
| 2120 | 0.2 | 0.7 | 0.9 | 1.2 | 2 | 3 | 3.4 | 4 | 6 | 11.4 | |
| 2130 | 0.2 | 0.8 | 1.1 | 1.3 | 2.3 | 3.4 | 3.9 | 4.7 | 7.1 | 13.1 | |
| 2140 | 0.2 | 0.8 | 1.2 | 1.5 | 2.5 | 3.9 | 4.4 | 5.3 | 8.2 | 15.5 | |
| 2150 | 0.2 | 0.9 | 1.3 | 1.6 | 2.8 | 4.4 | 5 | 6 | 9.4 | 17.6 | |



| | _ | E Less r | <mark>isk averse</mark> | e Li | kely rang | ge | More | > | | |
|-----------------------|--------|----------|-------------------------|------|-----------|-----|------|-----|-----|------|
| 19 year period center | ter 99 | 95 | 90 | 83 | 50 | 17 | 10 | 5 | 1 | 0.1 |
| 2010 | -0.1 | -0.1 | 0 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| 2020 | -0.1 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 |
| 2030 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 |
| 2040 | -0.1 | 0 | 0.1 | 0.1 | 0.3 | 0.5 | 0.6 | 0.6 | 0.8 | 1.1 |
| 2050 | -0.1 | 0 | 0.1 | 0.2 | 0.5 | 0.7 | 0.8 | 0.9 | 1.2 | 1.8 |
| 2060 | -0.1 | 0.1 | 0.2 | 0.3 | 0.6 | 1 | 1.1 | 1.2 | 1.6 | 2.6 |
| 2070 | 0 | 0.2 | 0.4 | 0.5 | 0.9 | 1.3 | 1.4 | 1.6 | 2.2 | 3.6 |
| 2080 | 0 | 0.3 | 0.5 | 0.6 | 1.1 | 1.6 | 1.8 | 2.1 | 2.8 | 5 |
| 2090 | 0 | 0.4 | 0.6 | 0.8 | 1.3 | 2 | 2.2 | 2.6 | 3.5 | 6.3 |
| 2100 | 0 | 0.5 | 0.7 | 0.9 | 1.6 | 2.4 | 2.7 | 3.1 | 4.4 | 7.9 |
| 2110 | 0.2 | 0.6 | 0.8 | 1 | 1.7 | 2.5 | 2.9 | 3.4 | 5.1 | 9.3 |
| 2120 | 0.2 | 0.7 | 0.9 | 1.2 | 2 | 3 | 3.4 | 4 | 6 | 11.4 |
| 2130 | 0.2 | 0.8 | 1.1 | 1.3 | 2.3 | 3.4 | 3.9 | 4.7 | 7.1 | 13.1 |
| 2140 | 0.2 | 0.8 | 1.2 | 1.5 | 2.5 | 3.9 | 4.4 | 5.3 | 8.2 | 15.5 |
| 2150 | 0.2 | 0.9 | 1.3 | 1.6 | 2.8 | 4.4 | 5 | 6 | 9.4 | 17.6 |

← Probability of Exceedance



| | • | E Less ri | isk avers | e L | ikely rar | nge | More risk averse→ | | | | | |
|-----------------------|------|-----------|-----------|-----|-----------|-----|-------------------|-----|-----|------|--|--|
| 19 year period center | 99 | 95 | 90 | 83 | 50 | 17 | 10 | 5 | 1 | 0.1 | | |
| 2010 | -0.1 | -0.1 | 0 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | | |
| 2020 | -0.1 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | | |
| 2030 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | | |
| 2040 | -0.1 | 0 | 0.1 | 0.1 | 0.3 | 0.5 | 0.6 | 0.6 | 0.8 | 1.1 | | |
| 2050 | -0.1 | 0 | 0.1 | 0.2 | 0.5 | 0.7 | 0.8 | 0.9 | 1.2 | 1.8 | | |
| 2060 | -0.1 | 0.1 | 0.2 | 0.3 | 0.6 | 1 | 1.1 | 1.2 | 1.6 | 2.6 | | |
| 2070 | 0 | 0.2 | 0.4 | 0.5 | 0.9 | 1.3 | 1.4 | 1.6 | 2.2 | 3.6 | | |
| 2080 | 0 | 0.3 | 0.5 | 0.6 | 1.1 | 1.6 | 1.8 | 2.1 | 2.8 | 5 | | |
| 2090 | 0 | 0.4 | 0.6 | 0.8 | 1.3 | 2 | 2.2 | 2.6 | 3.5 | 6.3 | | |
| 2100 | 0 | 0.5 | 0.7 | 0.9 | 1.6 | 2.4 | 2.7 | 3.1 | 4.4 | 7.9 | | |
| 2110 | 0.2 | 0.6 | 0.8 | 1 | 1.7 | 2.5 | 2.9 | 3.4 | 5.1 | 9.3 | | |
| 2120 | 0.2 | 0.7 | 0.9 | 1.2 | 2 | 3 | 3.4 | 4 | 6 | 11.4 | | |
| 2130 | 0.2 | 0.8 | 1.1 | 1.3 | 2.3 | 3.4 | 3.9 | 4.7 | 7.1 | 13.1 | | |
| 2140 | 0.2 | 0.8 | 1.2 | 1.5 | 2.5 | 3.9 | 4.4 | 5.3 | 8.2 | 15.5 | | |
| 2150 | 0.2 | 0.9 | 1.3 | 1.6 | 2.8 | 4.4 | 5 | 6 | 9.4 | 17.6 | | |

← Probability of Exceedance



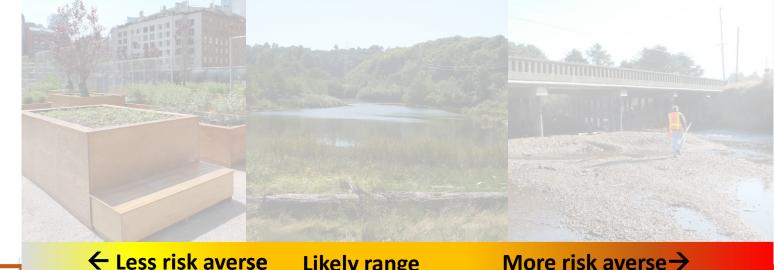
| | - | - Less ris | k averse | Lik | ely rang | ge | More | risk ave | erse→ | |
|-----------------------|--------------|------------|----------|-----|----------|-----|------|----------|-------|------|
| 19 year period center | 99 | 95 | 90 | 83 | 50 | 17 | 10 | 5 | 1 | 0.1 |
| 2010 | -0.1 | -0.1 | 0 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| 2020 | -0.1 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 |
| 2030 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 |
| 2040 | -0.1 | 0 | 0.1 | 0.1 | 0.3 | 0.5 | 0.6 | 0.6 | 0.8 | 1.1 |
| 2050 | -0.1 | 0 | 0.1 | 0.2 | 0.5 | 0.7 | 0.8 | 0.9 | 1.2 | 1.8 |
| 2060 | -0.1 | 0.1 | 0.2 | 0.3 | 0.6 | 1 | 1.1 | 1.2 | 1.6 | 2.6 |
| 2070 | 0 | 0.2 | 0.4 | 0.5 | 0.9 | 1.3 | 1.4 | 1.6 | 2.2 | 3.6 |
| 2080 | 0 | 0.3 | 0.5 | 0.6 | 1.1 | 1.6 | 1.8 | 2.1 | 2.8 | 5 |
| 2090 | 0 | 0.4 | 0.6 | 0.8 | 1.3 | 2 | 2.2 | 2.6 | 3.5 | 6.3 |
| 2100 | 0 | 0.5 | 0.7 | 0.9 | 1.6 | 2.4 | 2.7 | 3.1 | 4.4 | 7.9 |
| 2110 | 0.2 | 0.6 | 0.8 | 1 | 1.7 | 2.5 | 2.9 | 3.4 | 5.1 | 9.3 |
| 2120 | 0.2 | 0.7 | 0.9 | 1.2 | 2 | 3 | 3.4 | 4 | 6 | 11.4 |
| 2130 | 0.2 | 0.8 | 1.1 | 1.3 | 2.3 | 3.4 | 3.9 | 4.7 | 7.1 | 13.1 |
| 2140 | 0.2 | 0.8 | 1.2 | 1.5 | 2.5 | 3.9 | 4.4 | 5.3 | 8.2 | 15.5 |
| 2150 | 0.2 | 0.9 | 1.3 | 1.6 | 2.8 | 4.4 | 5 | 6 | 9.4 | 17.6 |

← Probability
of
Exceedance



| | ← | Less ris | k averse | Lik | ely rang | ge | More risk averse→ | | | | |
|-----------------------|----------|----------|----------|-----|----------|-----|-------------------|-----|-----|------|--|
| 19 year period center | 99 | 95 | 90 | 83 | 50 | 17 | 10 | 5 | 1 | 0.1 | |
| 2010 | -0.1 | -0.1 | 0 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | |
| 2020 | -0.1 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | |
| 2030 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | |
| 2040 | -0.1 | 0 | 0.1 | 0.1 | 0.3 | 0.5 | 0.6 | 0.6 | 0.8 | 1.1 | |
| 2050 | -0.1 | 0 | 0.1 | 0.2 | 0.5 | 0.7 | 0.8 | 0.9 | 1.2 | 1.8 | |
| 2060 | -0.1 | 0.1 | 0.2 | 0.3 | 0.6 | 1 | 1.1 | 1.2 | 1.6 | 2.6 | |
| 2070 | 0 | 0.2 | 0.4 | 0.5 | 0.9 | 1.3 | 1.4 | 1.6 | 2.2 | 3.6 | |
| 2080 | 0 | 0.3 | 0.5 | 0.6 | 1.1 | 1.6 | 1.8 | 2.1 | 2.8 | 5 | |
| 2090 | 0 | 0.4 | 0.6 | 8.0 | 1.3 | 2 | 2.2 | 2.6 | 3.5 | 6.3 | |
| 2100 | 0 | 0.5 | 0.7 | 0.9 | 1.6 | 2.4 | 2.7 | 3.1 | 4.4 | 7.9 | |
| 2110 | 0.2 | 0.6 | 0.8 | 1 | 1.7 | 2.5 | 2.9 | 3.4 | 5.1 | 9.3 | |
| 2120 | 0.2 | 0.7 | 0.9 | 1.2 | 2 | 3 | 3.4 | 4 | 6 | 11.4 | |
| 2130 | 0.2 | 0.8 | 1.1 | 1.3 | 2.3 | 3.4 | 3.9 | 4.7 | 7.1 | 13.1 | |
| 2140 | 0.2 | 0.8 | 1.2 | 1.5 | 2.5 | 3.9 | 4.4 | 5.3 | 8.2 | 15.5 | |
| 2150 | 0.2 | 0.9 | 1.3 | 1.6 | 2.8 | 4.4 | 5 | 6 | 9.4 | 17.6 | |

← Probability of Exceedance

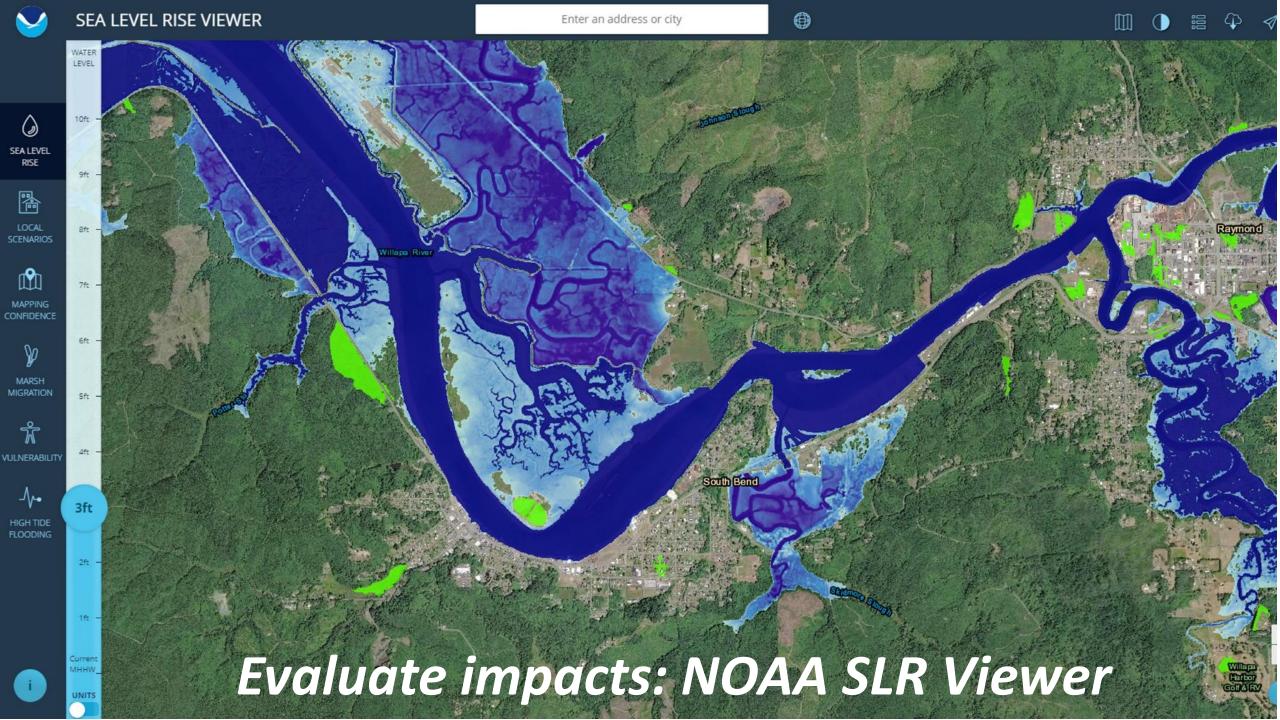


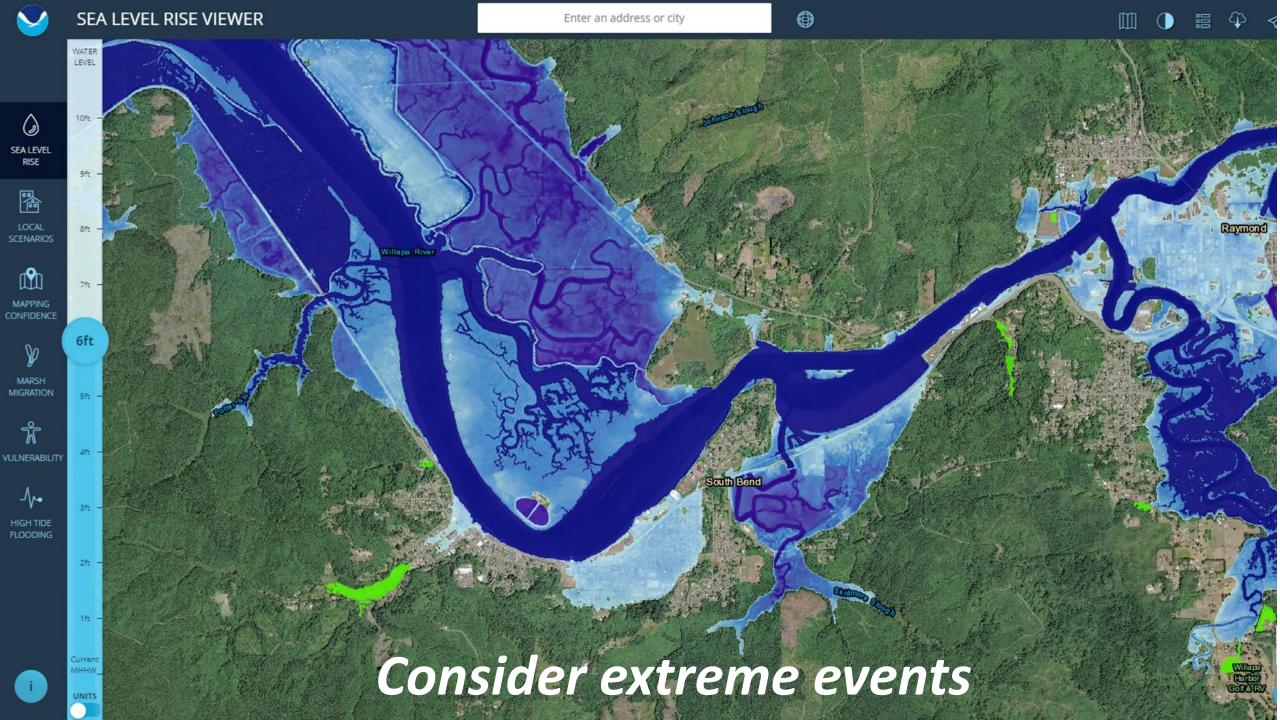
| | ← | – Less ri | sk averse | Li | Likely range | | | More risk averse→ | | | |
|-----------------------|----------|-----------|-----------|-----|--------------|-----|-----|-------------------|-----|------|--|
| 19 year period center | 99 | 95 | 90 | 83 | 50 | 17 | 10 | 5 | 1 | 0.1 | |
| 2010 | -0.1 | -0.1 | 0 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | |
| 2020 | -0.1 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | |
| 2030 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | |
| 2040 | -0.1 | 0 | 0.1 | 0.1 | 0.3 | 0.5 | 0.6 | 0.6 | 0.8 | 1.1 | |
| 2050 | -0.1 | 0 | 0.1 | 0.2 | 0.5 | 0.7 | 0.8 | 0.9 | 1.2 | 1.8 | |
| 2060 | -0.1 | 0.1 | 0.2 | 0.3 | 0.6 | 1 | 1.1 | 1.2 | 1.6 | 2.6 | |
| 2070 | 0 | 0.2 | 0.4 | 0.5 | 0.9 | 1.3 | 1.4 | 1.6 | 2.2 | 3.6 | |
| 2080 | 0 | 0.3 | 0.5 | 0.6 | 1.1 | 1.6 | 1.8 | 2.1 | 2.8 | 5 | |
| 2090 | 0 | 0.4 | 0.6 | 0.8 | 1.3 | 2 | 2.2 | 2.6 | 3.5 | 6.3 | |
| 2100 | 0 | 0.5 | 0.7 | 0.9 | 1.6 | 2.4 | 2.7 | 3.1 | 4.4 | 7.9 | |
| 2110 | 0.2 | 0.6 | 0.8 | 1 | 1.7 | 2.5 | 2.9 | 3.4 | 5.1 | 9.3 | |
| 2120 | 0.2 | 0.7 | 0.9 | 1.2 | 2 | 3 | 3.4 | 4 | 6 | 11.4 | |
| 2130 | 0.2 | 0.8 | 1.1 | 1.3 | 2.3 | 3.4 | 3.9 | 4.7 | 7.1 | 13.1 | |
| 2140 | 0.2 | 0.8 | 1.2 | 1.5 | 2.5 | 3.9 | 4.4 | 5.3 | 8.2 | 15.5 | |
| 2150 | 0.2 | 0.9 | 1.3 | 1.6 | 2.8 | 4.4 | 5 | 6 | 9.4 | 17.6 | |

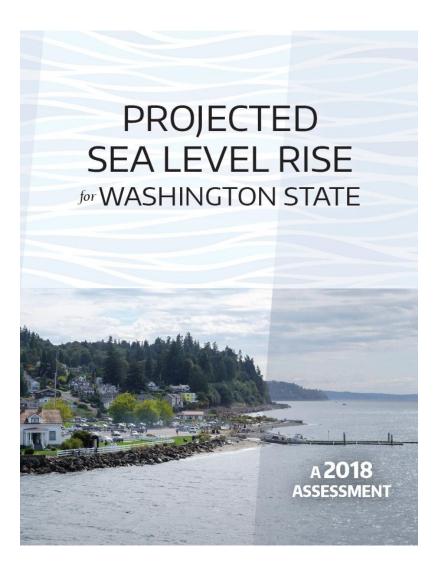
Now you have your number...

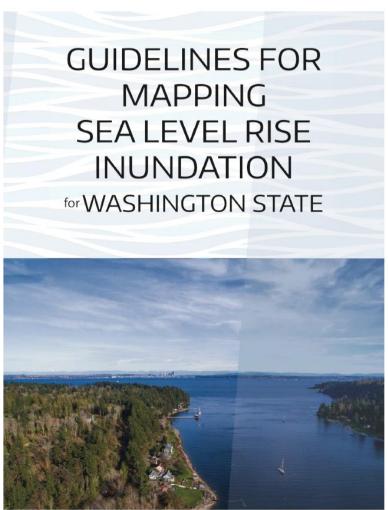
| | • | E Less r | risk avers | e Li | Likely range | | | More risk averse→ | | | |
|-----------------------|------|----------|------------|------|--------------|-----|-----|-------------------|-----|------|--|
| 19 year period center | 99 | 95 | 90 | 83 | 50 | 17 | 10 | 5 | 1 | 0.1 | |
| 2010 | -0.1 | -0.1 | 0 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | |
| 2020 | -0.1 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | |
| 2030 | -0.1 | 0 | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | |
| 2040 | -0.1 | 0 | 0.1 | 0.1 | 0.3 | 0.5 | 0.6 | 0.6 | 0.8 | 1.1 | |
| 2050 | -0.1 | 0 | 0.1 | 0.2 | 0.5 | 0.7 | 0.8 | 0.9 | 1.2 | 1.8 | |
| 2060 | -0.1 | 0.1 | 0.2 | 0.3 | 0.6 | 1 | 1.1 | 1.2 | 1.6 | 2.6 | |
| 2070 | 0 | 0.2 | 0.4 | 0.5 | 0.9 | 1.3 | 1.4 | 1.6 | 2.2 | 3.6 | |
| 2080 | 0 | 0.3 | 0.5 | 0.6 | 1.1 | 1.6 | 1.8 | 2.1 | 2.8 | 5 | |
| 2090 | 0 | 0.4 | 0.6 | 0.8 | 1.3 | 2 | 2.2 | 2.6 | 3.5 | 6.3 | |
| 2100 | 0 | 0.5 | 0.7 | 0.9 | 1.6 | 2.4 | 2.7 | 3.1 | 4.4 | 7.9 | |
| 2110 | 0.2 | 0.6 | 0.8 | 1 | 1.7 | 2.5 | 2.9 | 3.4 | 5.1 | 9.3 | |
| 2120 | 0.2 | 0.7 | 0.9 | 1.2 | 2 | 3 | 3.4 | 4 | 6 | 11.4 | |
| 2130 | 0.2 | 0.8 | 1.1 | 1.3 | 2.3 | 3.4 | 3.9 | 4.7 | 7.1 | 13.1 | |
| 2140 | 0.2 | 0.8 | 1.2 | 1.5 | 2.5 | 3.9 | 4.4 | 5.3 | 8.2 | 15.5 | |
| 2150 | 0.2 | 0.9 | 1.3 | 1.6 | 2.8 | 4.4 | 5 | 6 | 9.4 | 17.6 | |

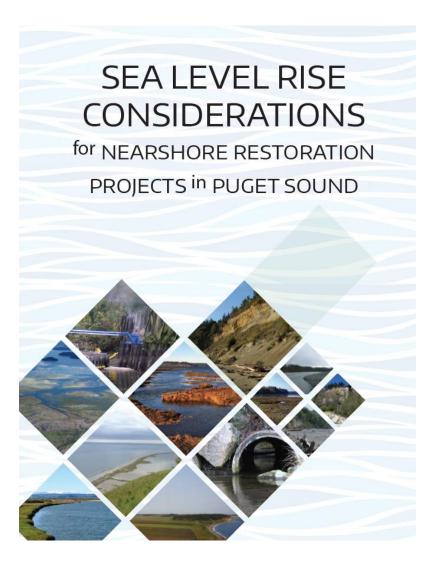










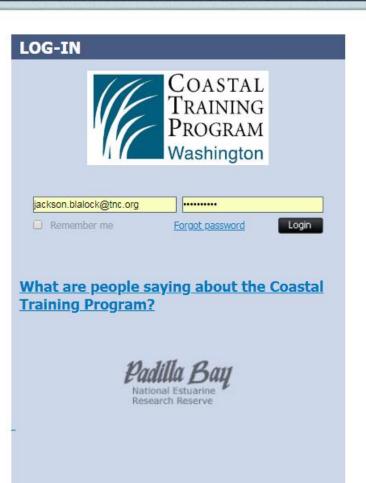


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Working to Protect Puget Sound and Washington's Shorelines

The Coastal Training Program provides practical, science-based training to professionals who make decisions about shoreline management in Western and Eastern Washington.







ECOLOGY State of Washington

The Nature Conservancy



National

Snoqualmie National Forest

Gifford Pinchot National Forest

Esri, HERE, Garmin, NGA, USGS, NPS



WA Coastal Coastal Resilience Network 🚦 💆 🔗



All Projects

Beach

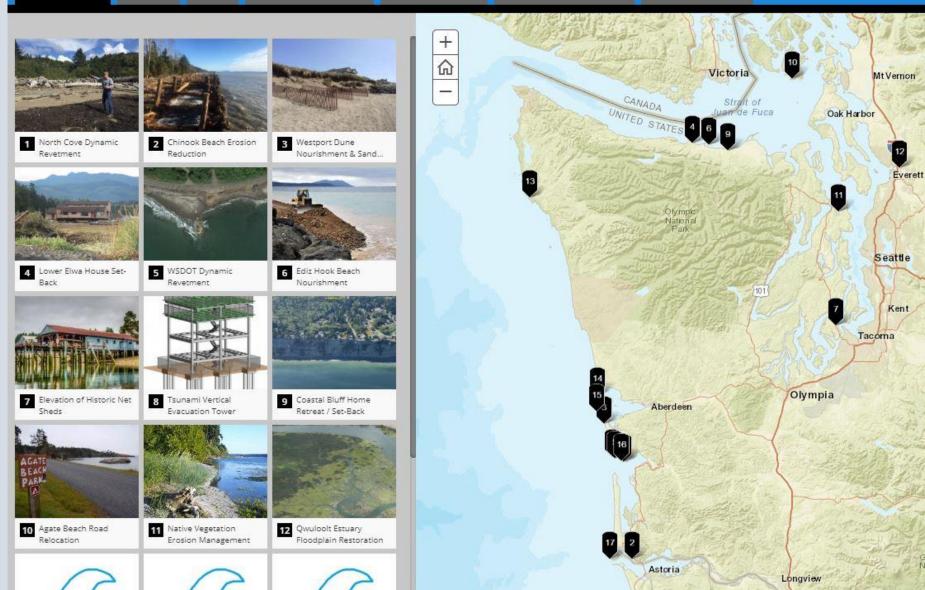
Bluff

Estuary / Marsh

Policy-Based

Emergency Mgmt

Coming Soon



DRAFT* Washington Coastal Adaptation Atlas

WA Coastal Coastal Resilience Network 🚮 💆 🔗





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Interested in submitting a new project example? Take our Natural Hazards Mitigation and Risk Reduction Project survey here:

All Projects

Beach

Bluff Estuary / Marsh Policy-Based

Emergency Mgmt

Coming Soon

Chinook Beach Erosion Reduction







Private landowners in Chinook WA had been losing shoreline forest and beach to wind driven waves for a number of years. The District installed 450ft of rootwad logs in a pile anchored matrix to knock down wave energy and reduce shoreline erosion rates.

Location: Chinook, WA

Year Built: 2017

Shoreline Type: Beach

Primary Hazard: Erosion

Mitigation Strategy: Structural

Action Employed: Wood-Based Wave Erosion Reduction

Click here to learn more!

