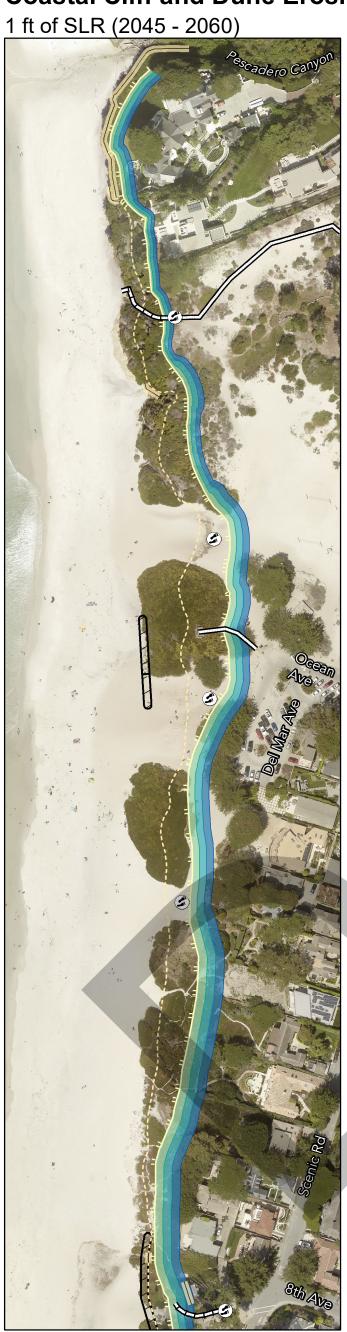
Coastal Cliff and Dune Erosion Projection Without Armoring - North Carmel Beach







Projected Bluff Crest Position Across Sea Level Rise Elevations

Most Likely Best Worst Case

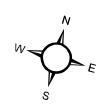
Notes: Erosion distances represent projected longterm time-averaged trends in erosion without coastal armoring. Future erosion distances and bluff crest position may vary from these projections.

Sea level rise elevations and time periods are based on 2018 OPC guidance and refer to a high emissions scenario with 2020 as a baseline.

Shoreline Features

Beach Access
Stairway
Coastal Access
Location
Beach Access
Bluff-Top Edge
Riprap Footprint





0 75 150 Feet

Coastal Cliff and Dune Erosion Projection Without Armoring - Central Carmel Beach

1 ft of SLR (2045 - 2060) 9th Ave





Projected Bluff Crest Position Across Sea Level Rise Elevations

Most Likely

Notes: Erosion distances represent projected longterm time-averaged trends in erosion without coastal armoring. Future erosion distances and bluff crest position may vary from these projections.

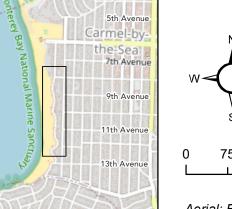
Sea level rise elevations and time periods are based on 2018 OPC guidance and refer to a high emissions scenario with 2020 as a baseline.

Best **Worst Case** 11th Ave

Shoreline Features



Riprap Footprint



Aerial: EagleView, 2022

150 Feet

Coastal Cliff and Dune Erosion Projection Without Armoring - South Carmel Beach

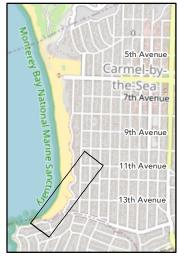


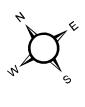
Most Likely Best Worst Case

Notes: Erosion distances represent projected longterm time-averaged trends in erosion without coastal armoring. Future erosion distances and bluff crest position may vary from these projections.

Sea level rise elevations and time periods are based on 2018 OPC guidance and refer to a high emissions scenario with 2020 as a baseline.

Shoreline Features Boardwalk Beach Access Stairway Coastal Access Location Shoreline Features Seawalls Approx. Cliff to Terrace Contact Location Bluff-Top Edge





0 75 150 Feet

Coastal Cliff and Dune Erosion Projection With Armoring - North Carmel Beach

1 ft of SLR (2045 - 2060) Pescadero Cany





Projected Bluff Crest Position Across Sea Level Rise Elevations

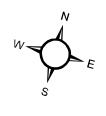
1 ft 2 ft

Notes: Erosion distances represent projected longterm time-averaged trends in erosion with coastal armoring. Future erosion distances and bluff crest position may vary from these projections.

Sea level rise elevations and time periods are based on 2018 OPC guidance and refer to a high emissions scenario with 2020 as a baseline.





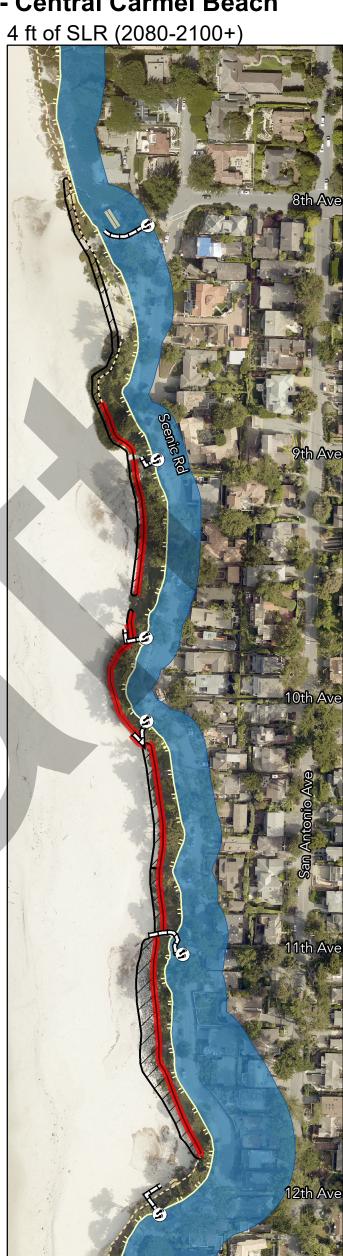


0 75 150 Feet

Coastal Cliff and Dune Erosion Projection With Armoring - Central Carmel Beach

1 ft of SLR (2045 - 2060) 11th Ave

2 ft of SLR (2060-2080)

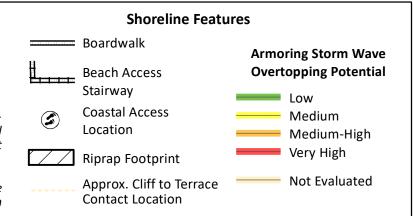


Projected Bluff Crest Position Across Sea Level Rise Elevations

1 ft 2 ft 4

Notes: Erosion distances represent projected longterm time-averaged trends in erosion with coastal armoring. Future erosion distances and bluff crest position may vary from these projections.

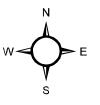
Sea level rise elevations and time periods are based on 2018 OPC guidance and refer to a high emissions scenario with 2020 as a baseline.



Bluff-Top Edge



11th Ave



0 75 150 Feet

Coastal Cliff and Dune Erosion Projection With Armoring - South Carmel Beach 1 ft of SLR (2045 - 2060) 2 ft of SLR (2060-2080) 4 ft of SLR (2080-2100+) Scenic Rd enic Rd **Shoreline Features Projected Bluff Crest Position** = Boardwalk **Across Sea Level Rise Elevations Armoring Storm Wave** Carmel-by-**Overtopping Potential Beach Access** 2 ft 4 ft Stairway Low **Coastal Access** Notes: Erosion distances represent projected long-Medium term time-averaged trends in erosion with coastal Location Medium-High armoring. Future erosion distances and bluff crest Very High

Riprap Footprint

Contact Location

Bluff-Top Edge

Approx. Cliff to Terrace

Not Evaluated

position may vary from these projections.

Sea level rise elevations and time periods are

based on 2018 OPC guidance and refer to a high emissions scenario with 2020 as a baseline.

Aerial: EagleView, 2022

140 Feet

Coastal Cliff and Dune Erosion Projection With Armoring





Shoreline Features

Riprap Footprint



projected long-term time-averaged trends in erosion with coastal armoring. Future erosion distances and bluff crest position may vary from these projections.

Sea level rise elevations and time periods are based on 2018 OPC guidance and refer to a high emissions scenario with 2020 as a baseline.

