

Ventura County Resource Management Agency Planning Division



VC RESILIENT COASTAL ADAPTATION PROJECT

Sea Level Rise Community Workshop, June 10, 2024



For Spanish Interpretation Para Interpretación en Español





For Desktop users

- I. Click Interpretation
- 2. Select the language
- (Optional) Click Mute
 Original Audio, to only hear
 Spanish translation

For smart phone users

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Chat	Raise Hand	Q&A	Interpretation	

- I. Tap More
- 2. Tap Language Interpretation
- 3. Select the language
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Para usuarios de la Aplicación de Escritorio

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Use "Raise Hand" button to signal your interest to make a comment or ask a question. You will be unmuted when it is your turn to speak.

Utilice el botón "Levantar la Mano" para indicar que desea hacer un comentario o una pregunta. Se activará el sonido de su micrófono cuando sea su turno de hablar. Use "Q&A" button to type in your question. Your question will be presented at the end of the presentation.

Utilice el botón "Preguntas y Respuestas" para escribir su pregunta. Su pregunta se presentará al final de la presentación.

For Spanish Interpretation Para Interpretación en Español



Click on the "Raise Hand" button; you will be unmuted when it is your turn.

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Haga clic en el botón "Levantar la Mano"; se activará el sonido de su micrófono cuando sea su turno.



Use "Q&A" button to type in your question. Your question will be presented at the end of the presentation.

Utilice el botón "Preguntas y Respuestas" para escribir su pregunta. Su pregunta se presentará al final de la presentación. Technical Issues During the Meeting Asuntos Técnicos Durante la Reunión

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Having Issues With Zoom During The Meeting? ¿Tiene Problemas con Zoom Durante la Reunión?

Email your comment or question to <u>luz.juachon@ventura.org</u> Envíe su comentario o pregunta por correo electrónico a gabe.ramirez@ventura.org

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Workshop Format

- Project Overview (15 min)
 - Vulnerabilities/Hazard Areas
- Proposed Amendments (15 min)
- Visual Simulations (5 min)
- Discussion and Q & A (30 min)







Why Plan for Sea Level Rise Now?

- Preparation now may be less costly than waiting
- Existing coastal hazards already pose a threat
- Consistency in permitting process
- Support long-term coastal resilience





COUNTY

Resource Management



Quantified and Qualified General Vulnerabilities: Vulnerability Assessment—GIS Based

Adaptation Report — Qualitative Summary

What We've Done: Phase I

Preliminary Draft Policies for:

• Disclosure of Hazards

- Siting and Design of New Development
- Coastal Hazard Reports for New Development
- Neighborhood Scale Approaches





What We've Done: Phase II

Education and Public Outreach:

- Meetings with community groups
- Webpage update, flyers, and public survey (bilingual)
- Interagency Working Group
- **Draft Policies and Zoning Amendments for:**
- Same topics as Phase I
- Focus on seawalls and building elevations

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What is Sea Level Rise?





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Coastal Hazards - Combined





Sea Level Rise Projections



The rate of global sea-level rise was measured from tide gauges historically and satellites since 1993

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Glacier Melt





Potential future sealevel rise is very high (~225 feet total), but uncertainties in rate of rise.

"HOW ON EARTH DO WE TURN IT OFF?"

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eaglecartoons.com

Historical Coastal Hazards: North Coast





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2014 Erosion at Emma Wood

MAPPED VULNERABILITIES: NORTH COAST

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DRAFT COASTAL HAZARD SCREENING AREAS





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Historical Coastal Hazards: Central Coast







Victoria Boulevard at Hobie Beach (Silver Strand)





2017 Storm Flooding at Ocean Dr. @ Los Feliz St. (Hollywood Beach)

Mapped Vulnerabilities: Central Coast





Draft Coastal Hazard Screening Areas





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Draft Coastal Hazard Screening Areas





Historical Coastal Hazards: South Coast





Mapped Vulnerabilities: South Coast

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Draft Coastal Hazard Screening Areas





North Coast: FEMA and Sea Level Rise



FEMA Flood Insurance Rate Map Revisions: Substantial Increases in Base Flood Elevations

- The North Coast increased by an average of 12 feet, the Central Coast by 4 feet, and the South Coast averaged an 8-foot increase
- If new development plans for 5 feet of sea level rise, that amount would often be equal or less than that height required by FEMA requirements today.

Some development is in and other is out of FEMA



Accessory Uses and Breakaway Design



Breakaway deck design was needed in the City of Pacifica in 2016.

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Central Coast: FEMA and Sea Level Rise



Natural Resources –Habitats



- Critical habitat for the Western snowy plover is currently at risk and may be completely eroded with 8" of sea level rise.
- All USFWS species habitats vulnerable to coastal storm flooding (41-88%).
- Over 90% of estuarine habitats vulnerable to tidal inundation.
- Monarch overwintering sites at Rincon Pt. and Sycamore Canyon are vulnerable.





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Draft Local Coastal Program Amendments

ADAPTATION STRATEGIES

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ADAPTATION - TRADEOFFS





- Construction Costs
- Maintenance Costs
- Recreation/Access
- Ecology

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• Views/Aesthetics

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Coastal Area Plan		Table 1 - Expected Life and Sea Level Rise Scenarios for CoastalDevelopment, Identified by Proposed Use							
		Proposed Use	Expected Life (Years)	<u>Sea</u> <u>Level</u> <u>Rise</u> <u>Scenario</u>					
Chapter 4.1: 4.1.4: Coastal Trail 4.1.6: New Section for Sea Level Rise (Moves		Natural Surface Trails/ /Coastal Trail/Easily Removable Development Public Restrooms and Ancillary Structures	<u>5</u> 20	<u>Intermediate</u> <u>Intermediate</u> Intermediate-High					
Hazards 4.4, and	s and Erosion Sections from Chapters 4.3, d 4.5) roduction	<u>Wetlands/Riparian</u> <u>Habitats</u> <u>Roads/Parking</u> <u>Lots</u> Sidewalks	<u>20</u> 40	<u>Low</u> Intermediate-High					
B. Nai	rratives als and Policies	Infrastructure/Utilities that are not initiated by Public Works	Between 50-100 years with Planning Director Discretion	Intermediate-High					
Goa	al 1: Reduce Risks (49 policies)	<u>Wireless</u> <u>Communication</u> <u>Facilities</u> (freestanding) Residential/Commercial	20	<u>Intermediate-High</u> Intermediate-High					
C: Clir	al 2: Natural Adaptation (19 policies) mate Change (7 policies)	<u>Manufactured</u> Homes <u>Public Works Initiated</u> Projects other than	<u>40</u>	Intermediate-High Intermediate-High or					
D: Pro	ograms (12 programs)	<u>Roads/Parking Lots/</u> <u>Sidewalks. Includes, but is</u>	As determined by the	<u>Public Works Director</u> in coordination with					
Minor e Works a	edits to Access, Agriculture, Energy, Public and Recreation/Access	<u>Levees, and Stream</u> <u>Alterations (Channels,</u> <u>Dams)</u>	<u>in coordination with</u> <u>Planning Director;</u> <u>minimum of 75 years</u>	Policy 1.41 below)					
			Planning Director Discretion or as specified in a	Planning Director Discretion or as specified in a					
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Table 3.1. Median values for Sea Level Scenarios for California, in feet, relative to a 2000 baseline. These statewide values all incorporate an average value of vertical land motion corresponding to a negligible rate of 0.1 mm (0.0003 ft) per year uplift. Evaluation of the Intermediate, Intermediate-High and High Scenarios (outlined in red below) is recommended to inform appropriate sea level rise planning and project decisions.



Year	Low	Int-Low	Intermediate	Int-High	High
2020	0.2	0.2	0.2	0.2	0.3
2030	0.3	0.4	0.4	0.4	0.4
2040	0.4	0.5	0.6	0.7	0.8
2050	0.5	0.6	0.8	1.0	1.2
2060	0.6	0.8	1.1	1.5	2.0
2070	0.7	1.0	1.4	2.2	3.0
2080	0.8	1.2	1.8	3.0	4.1
2090	0.9	1.4	2.4	3.9	5.4
2100	1.0	1.6	3.1 <	4.9	> 6.6
2110	1.1	1.8	3.8	5.7	8.0
2120	1.1	2.0	4.5	6.4	9.1
2130	1.2	2.2	5.0	7.1	10.0
2140	1.3	2.4	5.6	7.7	11.0
2150	1.3	2.6	6.1	8.3	11.9

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Coastal Zoning Ordinance



Article 2: DefinitionsArticle 4: Table of Allowed UsesArticle 5: Development Standards

- Connection of Structures
- Uncovered Porches and Decks
- Building Height in RB and RBH Zones
- Shoreline Protective Devices

Article 8: Mitigation of Hazards Article 11: Entitlements

• Findings

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• Modifications

Appendix H1:Hazard Reports

- Geologic
- Screening Area A
- Shoreline Protective Devices
- Screening Area B
- Maps

	PERMIT REQUIREMENTS BY ZONE										
LAND USE CATEGORY		CA	CR	CRE	CR1	CR2	RB	RBH	CRPD	СС	СМ
SHORELINE PROTECTIVE DEVICES (See Sec. 8175-5.12.2), including construction, repair, and/or maintenance	PD	PD	PD	PD	PD	PD	PD	PD	PD	PD	PD
• If exempt per Sec. 8174-6.3.2, or <u>8174-6.3.6 or Sec. 8175-</u> <u>5.12.3(b)</u>	zc	ZC	ZC	zc	ZC	zc	ZC	ZC	ZC	ZC	ZC
[Staff comment: Text added to clarify permitting requirements for construction, repair, and/or											

[Start comment: 16xt added to clarify permitting requirements for construction, repair, and/or maintenance activities associated with shoreline protective devices. No further changes are proposed to Section 8174-5.]

Shoreline Structure with Armor that has Not Been Designed for Coastal Resilience





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Shoreline Structure after Design for Coastal Resilience





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Shoreline Structure that has Not Been Designed for Coastal

Resilience on a Wide Beach







Shoreline Structure after Substantial Redevelopment: With SLR





Cantilevered Deck Design





Limitations on pilings for decks/accessory uses

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Adaptation Pathway Example: Hollywood Beach



Implementation Timeline Case Study: Hollywood Beach Sediment Management



Adaptation Pathway Example: Hollywood Beach



This graphic shows how sea level rise adaptation strategies can hypothetically be applied over time. Various "thresholds" as illustrated by the yellow explanation point icons, could be used to begin planning (blue-diamond icons) and implementation (green-square icons) for new adaptation strategies as they are needed.



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Visual Simulations

Visual Simulations

Martin Martin Par

Visual Simulations are representative for discussion
Heights have been approximated
Height increases based off a 5-ft sea level rise projection and FEMA Flood zones, whichever is higher
FEMA Height Increase = # of feet new structures would be elevated to clear flood requirements

North Coast

* Mussel Shoals South

La Conchita

Rincon Point

Seacliff 101 Offramp

 Faria South Central Faria Point

Solimar Central

Solimar South $\frac{1}{2}$

City of Ventura Boundary

Mussel Shoals South

North and a prime to

1 and

A.C.F.

FEF



Mussel Shoals – South FEMA Height Increase: N/A* SLR Height Increase: ~5-ft

Seacliff – 101 Offramp

Terrer contraction in the second second











Faria – South Central

NÍ



Faria – South Central FEMA Height Increase: ~4.5-ft SLR Height Increase: ~5-ft

11111





















Solimar South FEMA Height Increase: ~6-ft SLR Height Increase: ~5-ft



South Coast

Point Mugu Rock

Great Sand Dune

Sycamore (



★ Yerba Buena Beach ★ Solromar - Tonga Street

South County Boundary

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Solrolmar – Yerba Buena Beach

THE WALLS THE THE

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Solromar, Yerba Buena Beach FEMA Flood Elevation: ~18-ft SLR Height Increase: ~5-ft



Solrolmar – Tonga Street

STATUTE SCALE (STATES

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Solromar, Tonga Street FEMA Height Increase: ~6-ft SLR Height Increase: ~ 5-ft







- Sea level rise is a slow looming threat that will increase first with storm events and then rising tides.
- There are variety of existing communities and conditions to plan for along the County's approximately 23 miles of unincorporated coastline.
- The proposed amendments represent a first step in planning for sea level rise that is focused on phasing in adaptation as new development occurs
- The proposed amendments would begin a long-term process to reduce the county's reliance on shoreline protective devices, while allowing maintenance on existing devices, and elevating new principal development to ensure it is safe.
- Future phases could include neighborhood scale plans that focus on a comprehensive approach to achieving resilient communities,





The remaining phases of this project are summarized below:

- April/May: Finish LCP amendment prep and conclude grant contract with Coastal Commission
- June 5th Release of Draft LCP amendments for Public Review and Zoom Outreach Meeting
- July 20th Conclude 45-day public review and begin including comments
- Fall 2024: Planning Commission hearing to recommend adoption of LCP amendments
- Early 2025: Board of Supervisors hearing for adoption of LCP amendments
- Remainder 2025: LCP Coastal Commission amendment certification hearings

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VC RESILIENT COASTAL ADAPTATION PROJECT

Visit the webpage to download the amendments at: vcrma.org/en/vc-resilient-coastal-adaptation-project

Please submit comments to: Aaron Engstrom, Area Plans and Resources Manager <u>Aaron.Engstrom@Ventura.org</u> 805-654-2936