

## Local Coastal Program and Sea-Level Rise Planning Efforts in Progress

### Sea-Level Rise (SLR) Planning Grants

- **LCP Planning Grant** – Grants for LCP updates or certifications, with emphasis on climate change; administered by the California Coastal Commission (CCC). \$1 million was awarded January 2014 for FY 2013/2014, and an additional \$1 million was awarded November 2014 for FY 2014/2015.
- **LCP SLR Grant** - \$2.5 million in funding for LCP updates to address SLR; administered by the Ocean Protection Council (OPC) in partnership with Coastal Commission and California State Coastal Conservancy (SCC). \$1.3 million awarded November 2013, and \$1.2 million awarded in December 2014.
- **Climate Ready** - Funding for climate change-related projects administered by California State Coastal Conservancy. Grants awarded since 2009; Total awarded for sea-level rise projects in the coastal zone includes \$3 million awarded in January 2014 and \$220,000 in January 2015. Future grant rounds expected.

### Sea-Level Rise Planning Grant Recipients

LCP Jurisdiction	Year Effectively Certified	Climate Ready (SCC)	LCP SLR (OPC)	LCP Planning (CCC)	Summary of Grant Awards & Current Efforts
<b>North Coast</b>					
<b>Humboldt County</b>	1986		\$90,000 (2014)	\$29,000 (2013) + \$35,000 (2014)	Received funds from CCC in 2013 to certify 3 ADCs, including a managed retreat plan for Big Lagoon. Has started to address SLR as part of regional Humboldt Bay SLR Adaptation Working Group. Received CCC and OPC funds in 2014 to complete a LCP SLR amendment for Humboldt Bay.
<b>Humboldt Bay (multiple jurisdictions)</b>	N/A	\$295,000 (2012)			Detailed shoreline conditions map completed. Sea-level rise inundation mapping and adaptation strategies are currently under development.
<b>City of Trinidad</b>	1980			\$80,000 (2014)	Received funds from CCC to certify ADC and update LCP. LCP will include policies and programs that reflect the changed conditions, effects of climate change, and any new scientific knowledge since the LCP was certified.

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City of Arcata	1989	\$86,000 (2013)		\$54,000 (2013)	In process of updating LCP to address SLR. Received 2013 Climate Ready funds to assess living shorelines, and 2013 CCC funds to complete LCP certification. Coordinating with regional efforts.
City of Eureka	1984		\$250,000 (2013)		In process of comprehensive LCP update, including update to address SLR. Received 2013 OPC LCP SLR Grant to conduct vulnerability analysis and develop SLR policies. Coordinating with regional effort.
<b>North Central Coast</b>					
Sonoma County	1982		\$150,000 (2013)		In process of comprehensive LCP update, including to address SLR. Received OPC LCP SLR funds in 2013 to address SLR. LCP update is underway..
Marin County	South Unit I 1981; North Unit II 1982		\$200,000 (2013)	\$54,000 (2013)	Comprehensive LCP update underway. Received 2013 OPC LCP SLR funds to address SLR vulnerability and 2013 CCC funds to develop SLR policies, engage public, and update LCP.
City and County of San Francisco	1986; SF Olympic Club not yet certified	\$700,000 (2012)	\$160,750 (2014)	\$13,000 (2014)	Received SCC funding to complete the "Ocean Beach Master Plan" which addresses climate change, SLR, erosion, and public access at Ocean Beach (Completed by SPUR). Received 2014 OPC and CCC funds to implement the OBMP and to complete an LCP amendment to address SLR.

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San Mateo County	1980	\$220,000 (2014)			Received 2014 SCC funds to complete a SLR vulnerability assessment within San Mateo County for the San Francisco Bay shoreline and Pacific Ocean coastline from Half Moon Bay north.
City of Half Moon Bay	1996		\$70,000 (2013)	\$75,000 (2013)	LCP update underway in conjunction with General Plan update. Received 2013 CCC LCP planning grant funds to complete update. Received 2013 OPC LCP SLR funds to assess vulnerability to SLR and develop SLR policies.
<b>Central Coast</b>					
Monterey Bay Regional SLR Assessment	N/A	\$100,000 (2013)	\$150,000 (2013)		Monterey Bay Region (Santa Cruz County, Monterey County, City of Capitola) received SCC and OPC LCP SLR funds to conduct SLR modeling, assess vulnerability, evaluate adaptation responses, support updates to LCPs, or other plans. Downscaled model used to assess future impacts from SLR, including coastal erosion and flooding from wave action and storm surges.
Monterey County	1988				2013 OPC Funding for Monterey Bay Regional effort awarded to Monterey County. Recently updated its General Plan, and is in the process of updating the LCP. Will incorporate results of regional efforts into LCP.
City of Monterey	Not yet certified			\$200,000 (2014)	\$35,000 (2014)

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City of Pacific Grove	Not yet certified			\$130,000 (2013)	Received 2013 CCC funds to develop and certify LCP. LCP will include consideration of SLR. Will benefit from regional efforts.
Santa Cruz County	1983			County is in process of updating Safety Element, and will use results of Monterey Bay Regional effort to develop flood hazard, coastal bluff, and beach hazard policies that include SLR.	
City of Capitola	1990			Currently working on a comprehensive update of the General Plan, which includes revisions to the LCP and Local Hazard Mitigation Plan. Will incorporate results of regional effort into LCP.	
City of Morro Bay	1984		\$250,000 (2013)	\$147,000 (2014)	Received 2013 OPC LCP SLR grant funds to update the LCP to address SLR. Includes SLR modeling, analysis of SLR vulnerability, development of adaptation strategies and a SLR Action Plan. Received 2014 CCC funds to complete a comprehensive LCP update.
<b>South Central Coast</b>					
Goleta Slough Vulnerability Assessment (multiple jurisdictions)	N/A	\$50,000 (2013)			Received 2013 Climate Ready funds to develop a SLR impact assessment and adaptive management strategies to inform an update to the Goleta Slough Management Plan and a regional approach to management of shoreline erosion and sediment. Awarded to City of Santa Barbara.
County of Santa Barbara	1982	\$200,000 (2013)	\$175,000 (2014)	\$8,000 (2014)	Received 2013 Climate Ready funds to address SLR, in collaboration with Cities of Goleta, Santa Barbara, and Carpinteria. Received 2014 OPC

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<b>County of Santa Barbara (Con't)</b>					and CCC funds to complete a LCP amendment to address SLR, based on results of the Climate Ready project. Also includes completion of a SLR modeling and a vulnerability assessment for the North County portion of the planning area, and further development of a SLR decision support system for the entire county.
<b>City of Goleta</b>	Not yet certified			\$120,000 (2013)	Received 2013 CCC LCP grant funds to certify LCP. Includes SLR analysis. Will be coordinating SLR vulnerability assessment and analysis with regional efforts.
<b>City of Santa Barbara</b>	City segment-1986; Airport segment-1991			\$123,000 (2013)	Received 2013 CCC LCP funds to update LCP. Includes a detailed SLR vulnerability assessment, adaptation strategy development. Considerable effort already underway.
<b>City of Oxnard</b>	1982		\$110,000 (2014)	\$40,000 (2014)	Received OPC and CCC funds to analyze SLR hazards and update LCP. Will include new plans and policies for conserving and protecting coastal resources from future SLR impacts and storm flooding events.
<b>South Coast</b>					
<b>Southern California Bight (Point Conception to Mexican Border)</b>	N/A	\$1,000,000 (2013)			Funding for USGS to develop a numerical model to project coastal flooding and erosion driven by climate change, from SLR and future storms that will support coastal hazard assessments and LCP updates in the entire Southern California Bight (from Point Conception to Mexico Border).

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<b>Los Angeles Regional (Greater LA Metropolitan Region)</b>	N/A		\$235,000 (2013)		LA region received OPC LCP SLR funds to conduct a SLR and coastal storms study. Funding awarded to City of Santa Monica.
<b>Los Angeles County</b>	1990	\$69,000 (2013)			Received 2013 funds from Climate Ready to assess vulnerability of beaches. Will benefit from completion of regional SLR and coastal storms study.
<b>City of Santa Monica</b>	Not yet certified			\$225,000 (2014)	Received 2014 CCC funds to develop and certify LCP. Will integrate results from LA regional study. Funding for regional study awarded to the City of Santa Monica.
<b>City of Los Angeles</b>	Not yet certified			\$100,000 (2013) + \$250,000 (2014)	Received 2013 and 2014 CCC LCP grant funds for Venice segment. Includes a climate resilience component. Will benefit from regional SLR study. Recently completed 'AdaptLA', including a SLR vulnerability assessment and recommendations for adaptation.
<b>City of Hermosa Beach</b>	Not yet certified	\$100,000 (2013)		\$100,000 (2013)	In process of developing LCP for certification. Includes addressing SLR. Received Strategic Growth Council funding, Climate Ready, and CCC LCP grant funds to assess vulnerability to SLR and saltwater intrusion, and complete the LCP.
<b>City of Newport Beach</b>	Not yet certified			\$67,000 (2014)	Received 2014 CCC funds to complete certification of the Program (LCP) Implementation Plan. Includes implementation of SLR policies in Land Use Plan.

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City of San Clemente	Not yet certified			\$90,000 (2013)	In process of developing LCP. Received 2013 CCC LCP grant funds to certify LCP. Includes SLR component. Will include policies and measures to mitigate impacts from SLR and other climate change impacts.
<b>San Diego Coast</b>					
San Diego County	Not yet certified			\$52,000 (2014)	Received 2014 CCC funds to develop and certify a new LCP. Includes analysis of inland flooding from SLR.
City of Carlsbad	1996		\$180,000 (2014)	\$48,000 (2014)	Received 2014 CCC and OPC funds to complete a comprehensive LCP update. Includes a SLR vulnerability assessment, development of adaptation measures, and certification of a new LCP for the Agua Hedionna Lagoon Segment.
City of Solana Beach	Not yet certified			\$120,000 (2013)	Received 2013 CCC LCP Planning funds to complete Land Lease/Recreation Impact Mitigation Fee Study. Study will be developed with an awareness of and sensitivity to the potential effects of SLR and climate change.
City of Del Mar	2001		\$100,000 (2014)		Received 2014 OPC funds to complete a LCP amendment to address SLR. Will include a vulnerability assessment, risk assessment, and development of an adaptation plan.
City of Imperial Beach	1984	\$300,000 (2013)			Received 2013 funds from Climate Ready to conduct SLR modeling and a SLR vulnerability assessment.