

**CALIFORNIA COASTAL COMMISSION**

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**Coastal Commission  
Public Discussion  
Beaches and Coastal Dunes:  
Coastal Processes and Recent Coastal Research  
(May 10, 2017)**

**INTRODUCTIONS AND BACKGROUND****John Ainsworth, Executive Director****Susan Hansch, Chief Deputy Director**

- a. Purpose of Public Workshop
- b. Introduction to coastal processes important to beaches
- c. Some recent studies about the California coast and its beaches
- d. Introduction of the presenters

**COASTAL PROCESSES FOR SANDY BEACHES AND DUNES****Dr. Lesley Ewing, Sr. Coastal Engineer, California Coastal Commission****PAST, PRESENT, AND FUTURE IMPACTS TO CALIFORNIA BEACHES****Dr. Patrick Barnard, Research Director,  
USGS Coastal Climate Impacts Program****SUMMARY OF EL NIÑO AND STORM RELATED EMERGENCY  
PERMITS ACTION 2015 – 2017****Dr. Lesley Ewing, Sr. Coastal Engineer, California Coastal Commission****SUMMARY****John Ainsworth, Executive Director****Susan Hansch, Chief Deputy Director****COMMISSIONER QUESTIONS****PUBLIC COMMENTS****LINKS TO BACKGROUND INFORMATION**Littoral Cells, Sand Budgets and Beaches: [http://www.dbw.ca.gov/csmw/littoral\\_cells.aspx](http://www.dbw.ca.gov/csmw/littoral_cells.aspx)Extreme Oceanographic Forcing and Coastal Response due to the 2015-2016 El Niño:  
<https://www.nature.com/articles/ncomms14365>A model integrating longshore and cross-shore processes for predicting long-term shoreline  
response to climate change: <http://onlinelibrary.wiley.com/doi/10.1002/2016JF004065/full>

Can beaches survive climate change?:

<http://onlinelibrary.wiley.com/doi/10.1002/2017JF004308/full>