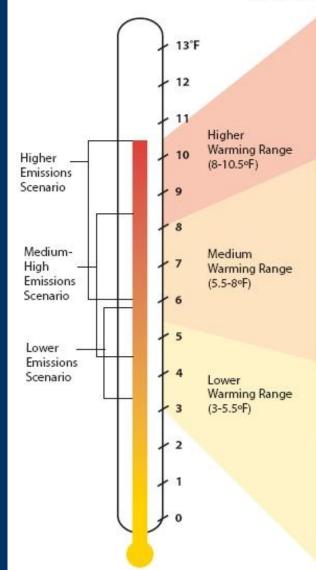
Climate: Are you poised for change?

Becky Smyth, West Coast Regional Director
NOAA Coastal Services Center



Summary of Projected Global Warming Impact, 2070–2099

(as compared with 1961-1990)

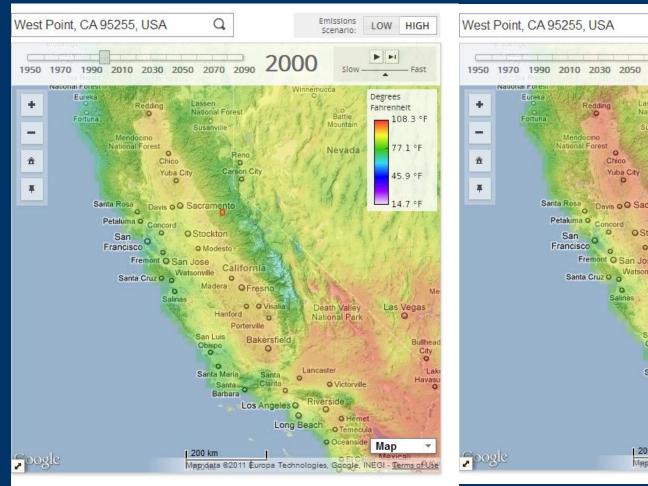


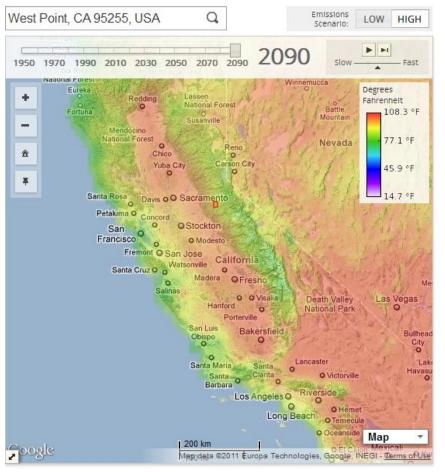
- · 90% loss in Sierra snowpack
- 22–30 inches of sea level rise
- 3-4 times as many heat wave days in major urban centers
- · 4-6 times as many heat-related deaths in major urban centers
- · 2.5 times more critically dry years
- · 20% increase in energy demand
- 70–80% loss in Sierra snowpack
- 14–22 inches of sea level rise
- 2.5–4 times as many heat wave days in major urban centers
- 2-6 times as many heat-related deaths in major urban centers
- 75–85% increase in days conducive to ozone formation*
- · 2-2.5 times more critically dry years
- · 10% increase in electricity demand
- · 30% decrease in forest yields (pine)
- · 55% increase in the expected risk of large wildfires
- 30–60% loss in Sierra snowpack
- 6–14 inches of sea level rise
- · 2-2.5 times as many heat wave days in major urban centers
- 2-3 times as many heat-related deaths in major urban centers
- 25–35% increase in days conducive to ozone formation*
- · Up to 1.5 times more critically dry years
- · 3-6% increase in electricity demand
- · 7-14% decrease in forest yields (pine)
- · 10-35% increase in the risk of large wildfires

For high ozone locations in Los Angeles (Riverside) and the San Joaquin Valley (Visalia)

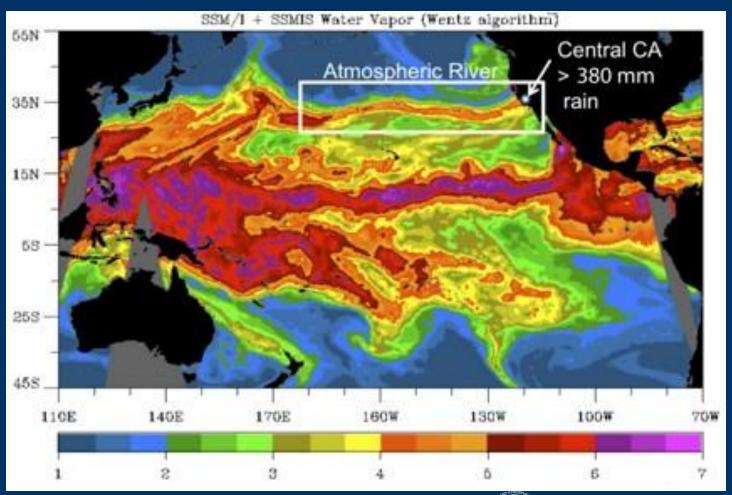


Temperature : Decadal Averages August

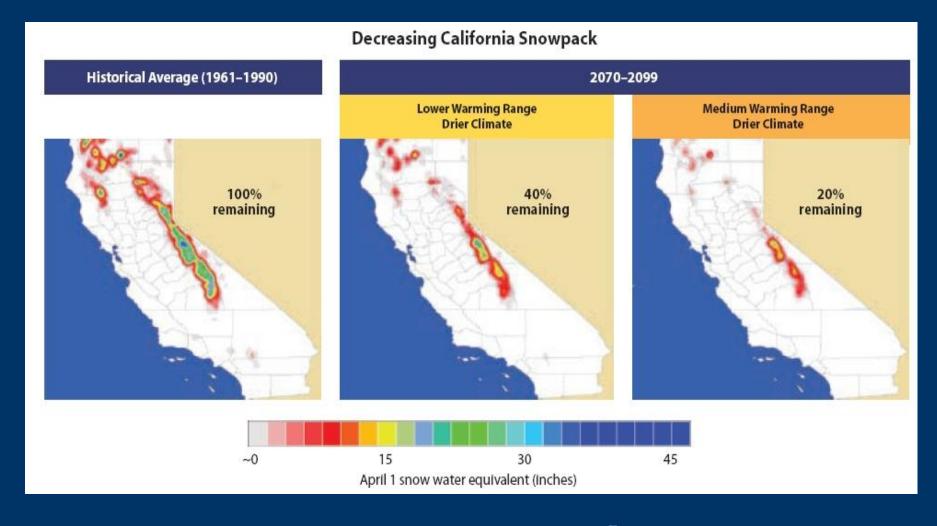




"Atmospheric Rivers" and Rain

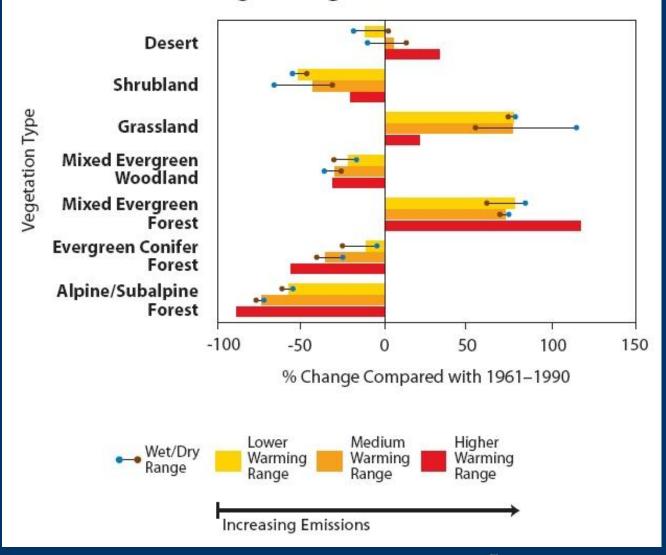


Snowpack





Change in Vegetation Cover, 2070–2099



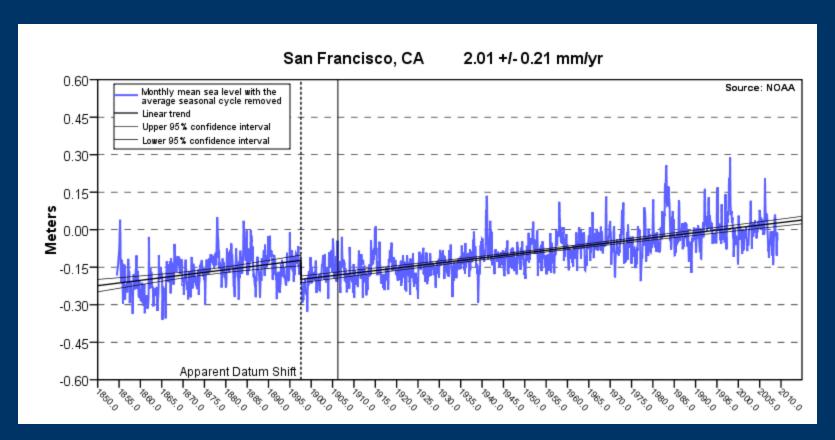


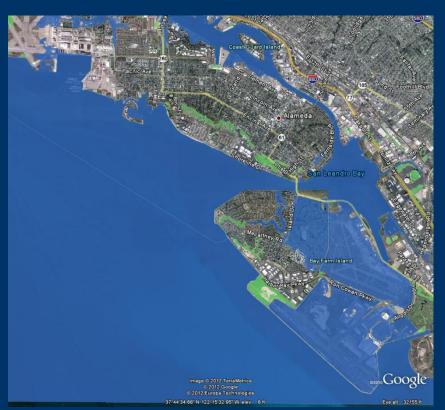
Figure 1. Trend in Monthly Mean Sea Level at the San Francisco Tide Station from 1854–2006

Source: National Oceanic and Atmospheric Administration (NOAA) Sea Levels Online, http://tidesandcurrents.noaa.gov/sltrends/sltrends_station.shtml?stnid=9414290

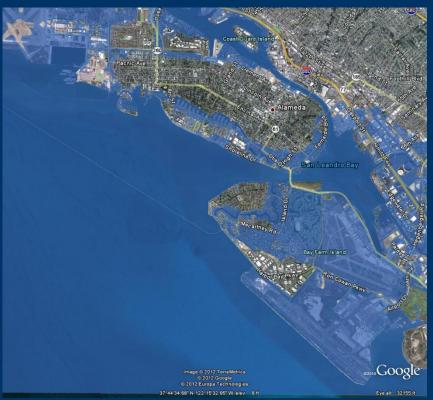


Sea Level Rise Viewer – Alameda

3 Feet Inundation



6 Feet Inundation





<u>www.climate.gov</u>

<u>www.cal-adapt.org</u>

<u>www.csc.noaa.gov/DigitalCoast</u>

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