

The UN's Intergovernmental Panel on Climate Change (IPCC) issued their latest report in late September 2013. What are the key findings?

## **IPCC MESSAGES**

1. Warming is unequivocal; it is driving climate change now, and is largely caused by human activity.
2. Many parts of the world are already experiencing more frequent and intense weather events, which impact water availability, food supply, health and habitat.
3. Scientists' understanding of climate risks has strengthened and the expected impacts are profound, especially for developing countries and rural communities.
4. The next few decades are the era of "climate responsibility" and uncertainty is not a reason to avoid climate action.
5. It is cheaper to act on climate change now than to delay.

### **Average sea level in the SF Bay: Ranges of Projected Sea Level Rise**

*(Expressed in ranges because of our uncertainty of human behavior)*

<b>YEAR</b>	<b>Lowest</b>	<b>Highest</b>
Baseline (Year 2000)	0"	0"
2030	2"	12"
2050	5"	24"
2100	17"	66"

### **Impacts of Rising Sea Levels in the SF Bay**

- *More frequent and longer lasting storm flooding*
- *Increased cost of repair, maintenance and insurance*
- *Overwhelmed flood protection channels and storm drains*
- *Contamination from sewage treatment system failures*
- *Damage to critical infrastructure along the shoreline*
- *Disruption of key services (transportation, water, etc.)*

- *Permanent inundation of tidal zones; shoreline erosion*
- *Loss of tidal habitats, beaches, vistas, and trail access*
- *Elevated groundwater levels and salinity; less available fresh water*
- *Groundwater intrusion into underground transit infrastructure and contaminated sites*
- *Decreased seismic stability*

## **Key Resources**

### **Adapting to Rising Tides Project: [www.adaptingtorisingtides.org](http://www.adaptingtorisingtides.org)**

(BCDC: SF Bay Conservation and Development Commission)

Studies and maps specific to the levels of projected sea level rise for the SF Bay Estuary between Emeryville and Union City (2011-2013).

### **350Bay Area: [www.350bayarea.org](http://www.350bayarea.org)**

350 East Bay contact: [taylorsmiley5@gmail.com](mailto:taylorsmiley5@gmail.com)

"We are building a grassroots climate movement, working for deep carbon pollution reductions in the SF Bay Area and beyond." **Dirty Energy/Clean Solutions" Climate Conference: May 9-11**

Initiatives include:

- Bay Climate Action Plan
- Chevron Watch
- Divestment
- Dump the Pump
- No Tar Sands
- Stop Fracking

### **MoveOn.org: [www.moveon.org](http://www.moveon.org) – Frank Burton**

"Democracy in Action - Create the change you want to see in the world. Tap into the combined people power of millions of *MoveOn* members."

### **Citizens Climate Lobby: [www.citizensclimatelobby.org](http://www.citizensclimatelobby.org)**

Local contact: Tom Shaw, CCL volunteer ([dt\\_shaw@hotmail.com](mailto:dt_shaw@hotmail.com))

"Political Will for a Livable World". Join Citizens Climate Lobby as we meet with our members of Congress to convince them to enact a carbon fee and dividend.

### **Hayward Shoreline Interpretive Center – H.A.R.D.: [www.haywardrec.org](http://www.haywardrec.org)**

Interpreting the SF Bay-Estuary for the community. Programs, events, art exhibits, Facebook community discussion, sea level rise information and resources.

55" – *Images of Sea Level Rise* art exhibit – Jennifer Koney ([www.jenniferkoney.com](http://www.jenniferkoney.com)) and Oliver Klink ([www.incredibletravelphotos.com/55inches](http://www.incredibletravelphotos.com/55inches)) An exhibition of images of the beauty of ice from two distinct perspectives: Short lens expedition photographs from Antarctica and Iceland by Oliver Klink and large scale resist-and-pour abstract paintings with a 55" horizon line – the expected level of sea level rise for the San Francisco Bay by the year 2100. Abstraction meets reality.

### **City of Hayward – Draft General Plan (with elements that address sea level rise):**

**<http://www.ci.hayward.ca.us/GENERALPLAN/>**

Guiding principle #8 states, “Hayward should preserve, enhance, increase, and connect its baylands, hillsides, greenway trails, and regional parks to protect environmental resources, mitigate the impacts of rising sea levels, and provide opportunities to live an active outdoor lifestyle.”

**MCE Community Choice Aggregate:** [mceCleanEnergy.com](http://mceCleanEnergy.com)

A model for procuring and generating renewable power sources for energy customers.

**BOOKS: Global Weirdness,** Climate Central.

A straightforward, non-political resource for answers to FAQ about climate disruption and its impacts. 2-3 page answers in an easy-to-understand format. (CV Library)

**How Bad Are Bananas, The Carbon Footprint of Everything,** Mike Berners-Lee.

Information about the direct and indirect carbon costs of every aspect of every-day living so that you can make informed choices and changes. (CV Library)