Battle at the Front Lines: Facing Sea Level Rise on Tybee Island



Lesson for dealing with politically loaded issues:

- Don't debate causes focus on objective effects (i.e. avoid discussion of "global warming" and "carbon footprints." Look to fact of sea level rise as recorded on Ft. Pulaski tide gauges.)
- Start with current manifestations of issue (i.e. flooding already apparent on Tybee)

Acknowledge range of uncertainty in data interpretations.

Drudence of planning in uncertain times

Concerns Identified in Public Forum at Tybee City Hall

- US 80 causeway to the island floods periodically during spring high tides
- Beach erosion

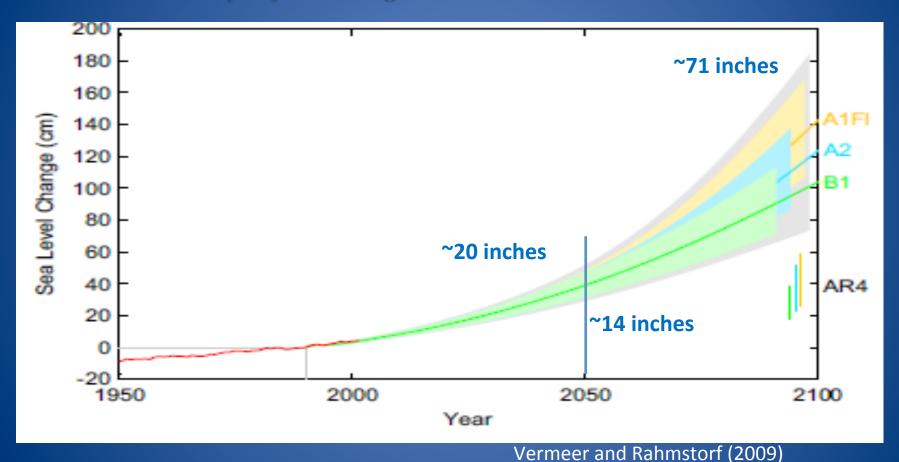
- Southwest part of island experiences periodic flooding during spring high tides
- City well pumps at ground level

Adaptation actions selected for benefit-cost consideration

- Raise US80 to 4 feet above current grade

 Discussions opened with GA DOT and Chatham Co.
- Continue renourishing beaches to keep up with sea level rise
 Deemed cost-effective Grant funding being sought
- Upgrade drainage infrastructure in southwest island
 Deemed cost-effective Project underway
- Build 4 foot high sea wall in southwest island
 NOT deemed cost effective Alternatives, such as living shorelines, being explored
- Raise water well facilities above 100 year flood height Deemed cost-effective - Project underway

Other recent projections give more cause for concern





Current sea level

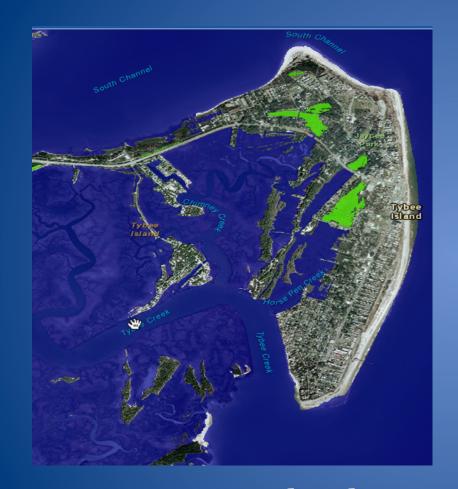


1 foot rise



Current sea level

3 feet rise





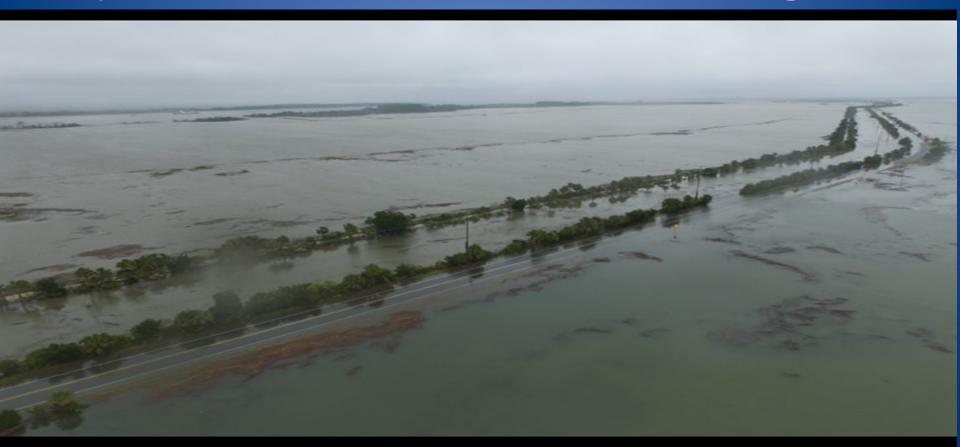
Current sea level

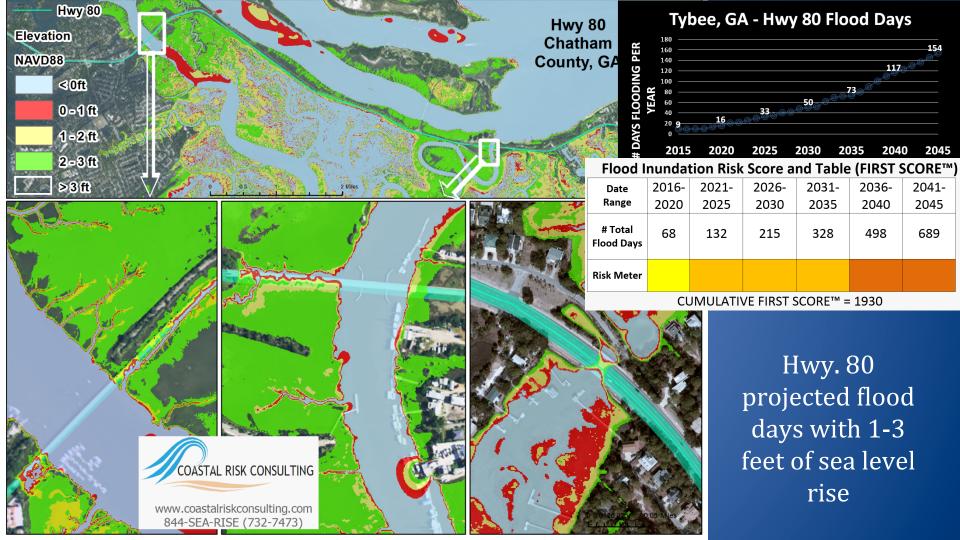
6 feet rise

Tybee Road with 9.5' High Tide



Hwy 80 10.27.2015 with 10.43' High Tide





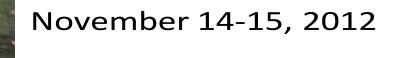


Second Street "Hot Spot" Post-Renourishment





Tybee Island "King Tides"







Living Shoreline: Erosion Control and Natural Stormwater Filtration



Tybee City Hall: Note post showing tide surge.



Ground level well house on Tybee Island

Raise well houses and well pump electronic components above the 100-year flood zone

Total estimated cost ~\$600,000





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Sign-up for free site assessments is open and will run through April 15, 2015.

Read through the Program Details, FAQs, and then Sign Up! See the tabs above.

Solarize Tybee aims to bring solar power to Tybee Island and Chatham County, Georgia by eliminating some of the complexity of selecting a qualified installer and by driving down costs through the power of bulk purchasing. This program offers competitive pricing in a tiered system. Prices decrease with increased participation. Once a site is judged suitable for solar and the customer decides to continue with the program, the customer will sign a contract and schedule installation directly with our selected installer, Hannah Solar.

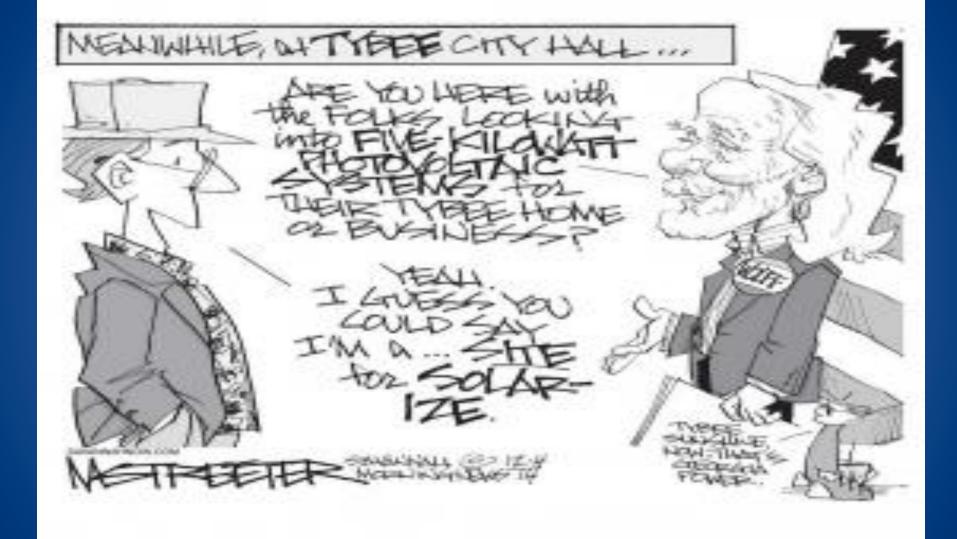
Sponsored by the City of Tybee and the Tybee Community Resource Committee, Solarize Tybee is open to all residents, businesses, and governmental entities within Chatham County, Georgia provided the governing body in each jurisdiction does not object to having its citizens participate.

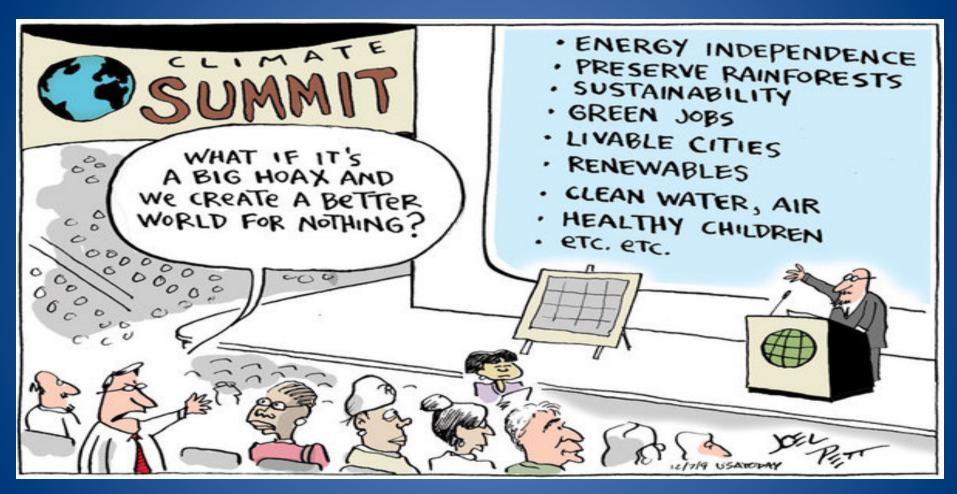
Questions or comments? Contact us at solarizetybee@gmail.com or find us on Facebook!



The City of Tybee and the Tybee Community Resource Committee acknowledges the assistance of the SunShot Solar Outreach Partnership (SolarOPs, http://solaroutreach.org/). SolarOPs is funded by the Department of Energy SunShot Initiative and is designed to help accelerate solar energy adoption on the local level by providing timely and actionable information to local governments. SolarOPs achieves its goals through a mix of educational workshops, research-based reports, online resources, and customized technical assistance.









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