Proposed Lock & Dam System to Protect Honolulu Harbor from Sea Level Rise

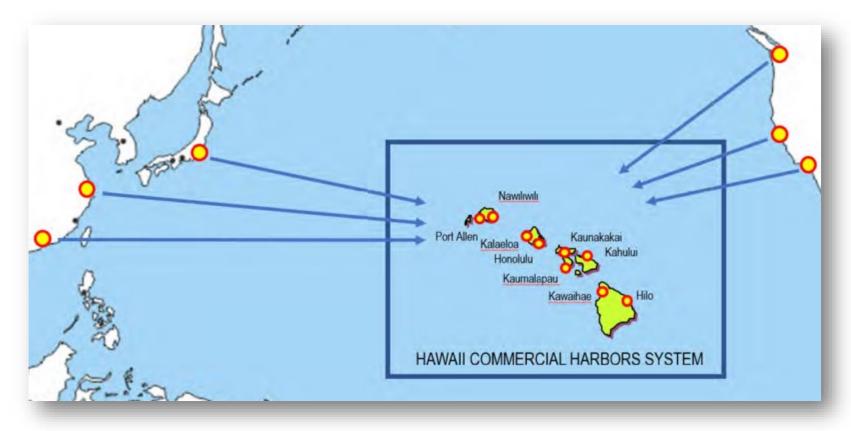
Storms, Flooding & Sea Level
Defense Conference
November 3, 2021





COMMERCIAL HARBORS SYSTEM

- The commercial harbor system is Hawaii's lifeline to the outside world.
- Hawaii imports about 80% of all goods consumed its residents consume.
 Over 98% are brought in through the commercial harbors system.
- 10 commercial ports.
- Self-funded enterprise supported by tariffs and leases.



*Size & Growth Potential of Hawaii's Maritime Industry, Lee & Olive, 1994

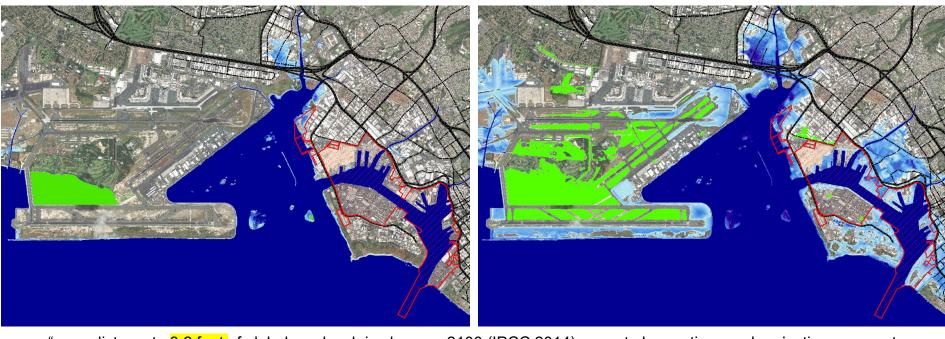
HONOLULU HARBOR



HONOLULU HARBOR DANIEL K. INOUYE INTNL AIRPORT

3ft. SLR (irrespective of time)

6ft. SLR (irrespective of time)



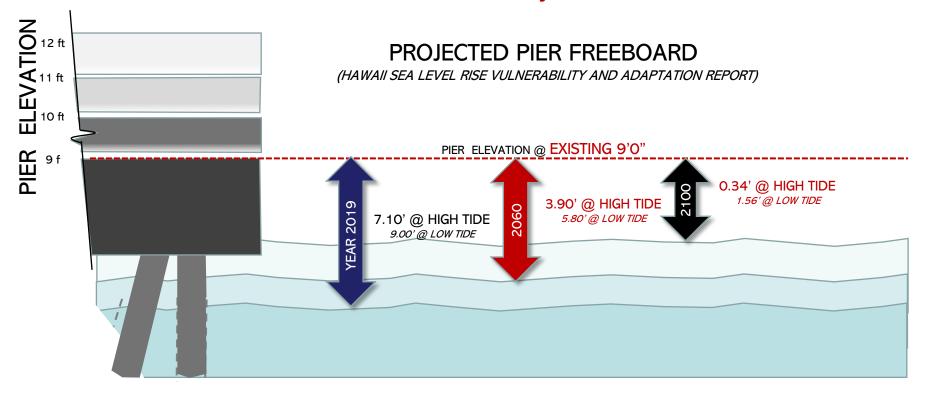
"...predicts up to 3.2 feet of global sea level rise by year 2100 (IPCC 2014), recent observations and projections suggest that this magnitude of sea level rise could occur as early as year 2060..." (Hawai'i Sea Level Rise Vulnerability and Adaptation Report – 2017).



Sea Level Rise: Potential Impacts to Hawaii's Commercial Harbors (State of Hawaii Department of Transportation - Harbors Division, April 2021)

SEA LEVEL CHANGE – INCREMENTAL ADAPTATION

FREEBOARD
3.2 Feet Rise by YEAR 2060



HONOLULU HARBOR MODIFICATIONS

