# STORMS, FLOODING & SEA LEVEL DEFENSE CONFERENCE

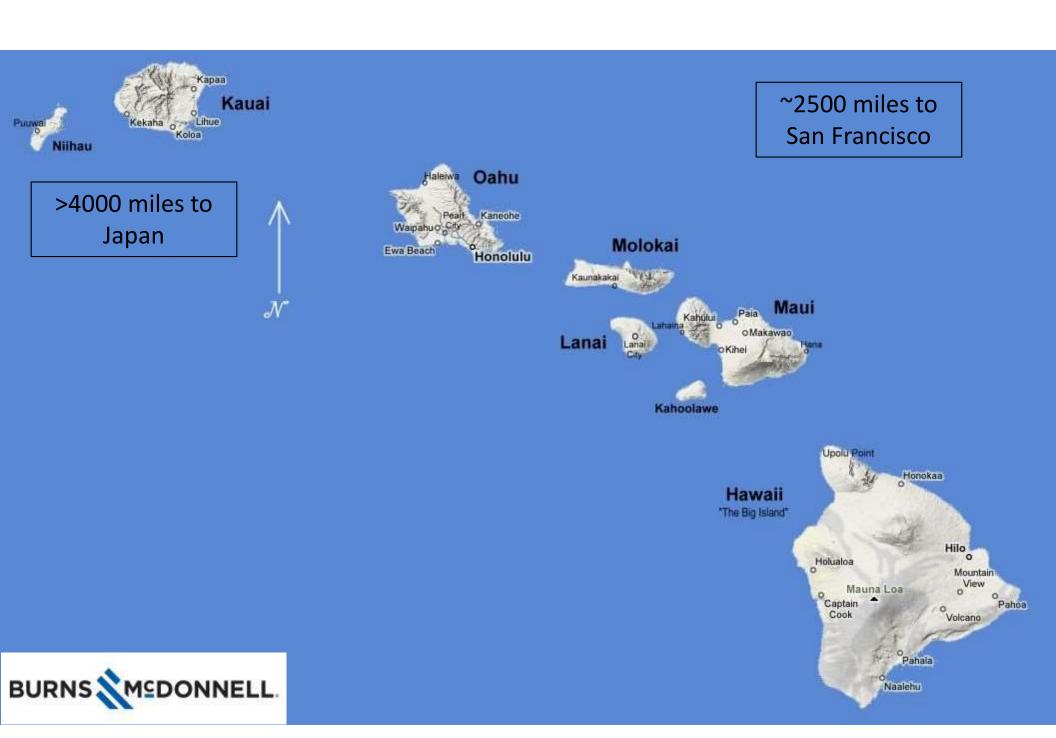


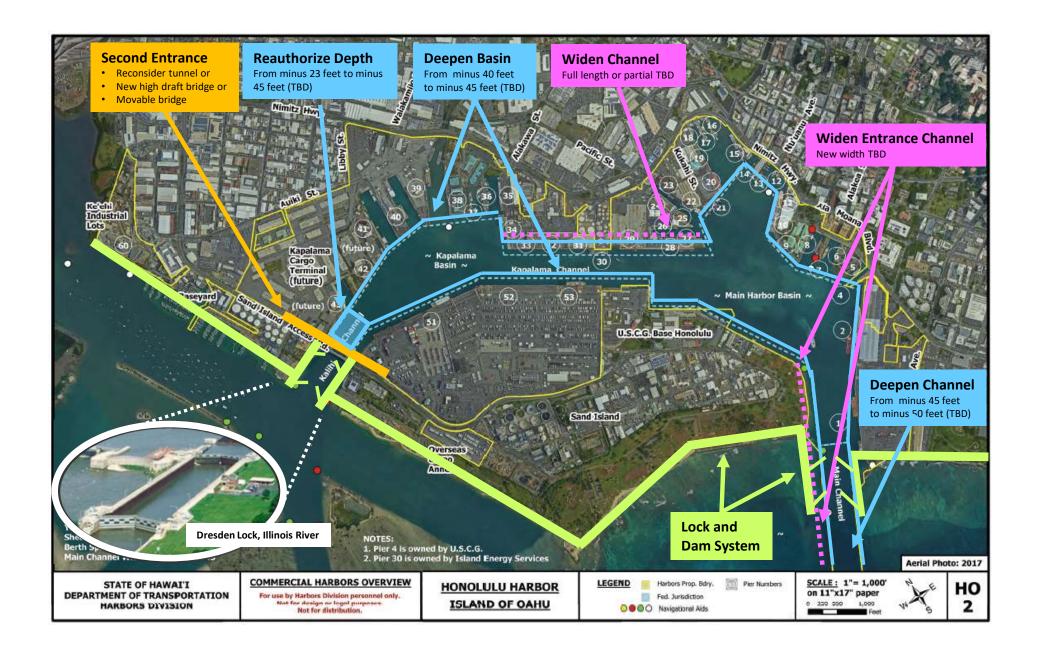
NOV. 8, 2023



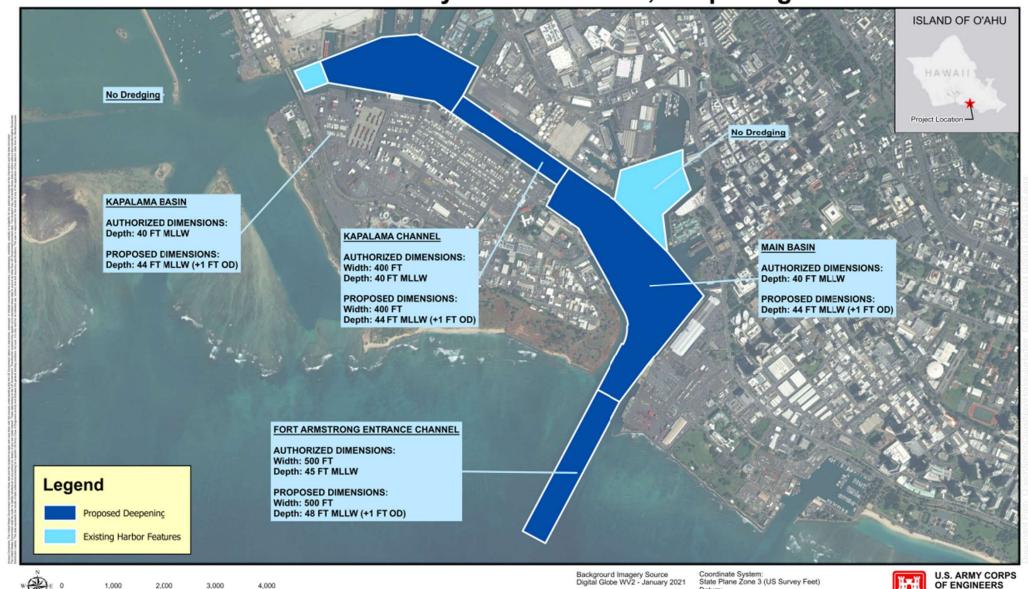
Hawaii's Sea Level Defense Strategy

#### **Hawaiian Island Chain**





Honolulu Harbor Modification Study - Alternative 2B, Deepening



NAD83 (PA11)

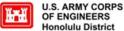
Honolulu District

Honolulu Harbor Modification Study - Alternative 3A, Widening



w € 0 1,000 2,000 3,000 4,000 Fe

Background Imagery Source Digital Globe WV2 - January 2021 Coordinate System: State Plane Zone 3 (US Survey Feet) Datum: NAD83 (PA11)

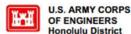


Honolulu Harbor Modification Study - Alternative 3B, Widening



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## Act 178, SLH 2021 (HRS§225M-9)

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H.B. NO. H.D. 1 S.D. 2 C.D. 1

1	The	purpose of this Act is to:
2	(1)	Require the office of planning, in coordination with
3		state agencies with operational responsibilities over
4		state facilities, to:
5	Г	(A) Identify existing and planned facilities that are
6		vulnerable to sea level rise, flooding impacts,
7		and natural hazards;
8		(B) Assess options to mitigate the impacts of sea
9		level rise to those facilities; and
10		(C) Submit annual reports to the governor,
11		legislature, and Hawaii climate change mitigation
12		and adaptation commission regarding vulnerability
13		and mitigation assessments for state facilities
14		and progress in implementing sea level rise and
15		disaster resiliency considerations;
16	(2)	Update and reaffirm the role of the office of planning
17		to coordinate climate change adaptation and sea level
18		rise adaptation among all state agencies to improve
19		the interagency coordination of these activities; and
20	(3)	Amend the Hawaii State Planning Act to include
21		sustainable development, climate change adaptation,

2021-3164 HB243 CD1 HMSO

**Courtesy: Sarah Chang, Hawaii Office of Planning and Sustainable Development** 



### **Accomplishments To Date**

2021:

Facilities Inventory & Sea Level Rise (SLR) Exposure Assessment

#### 2022:

Literature review of mechanisms used in other coastal states/municipalities to assess vulnerability to SLR



## 2023: Vulnerability Assessment Development

#### **Funding:**

- OPSD received funding for FY23-24 to develop a standardized process for assessing the vulnerability of state facilities to SLR.
- Currently working with representatives from key stakeholder agencies to develop a scope of work to procure professional services.
- Anticipate starting this project in early 2024

#### Proposed deliverables of project include:

- (1) A standard SLR vulnerability assessment form that will be applicable to all state managed buildings,
- (2) Guidance/instructions on how to complete the assessment form,
- (3) Recommendations on critical factors that agencies should consider when developing criteria for prioritizing facilities for adaptation planning, and,
- (4) Recommendation on what inundation scenarios/timelines to plan for.



# **2023: Refined SLR Exposure Assessment**

2021: Buildings represented by point + buffer





# **2023: Refined SLR Exposure Assessment**

**2023: Buildings represented by footprints** 

