

DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

KA 'OIHANA HO'OMOHALA PĀ'OIHANA, 'IMI WAIWAI A HO'OMĀKA'IKA'I

No. 1 Capitol District Building, 250 South Hotel Street, 5th Floor, Honolulu, Hawaii 96813 Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804 Web site: dbedt.hawaii.gov JOSH GREEN, M.D. GOVERNOR

CHRIS J. SADAYASU DIRECTOR

> DANE K. WICKER DEPUTY DIRECTOR

Telephone: (808) 586-2355 Fax: (808) 586-2377

Statement of CHRIS J. SADAYASU Director Department of Business, Economic Development, and Tourism before the HOUSE COMMITTEE ON FINANCE

Tuesday, February 28, 2023 10:00 AM State Capitol, Conference Room 308 & Videoconference

In consideration of HB993, HD1 RELATING TO SEA LEVEL RISE ADAPTATION.

Chair Yamashita, Vice Chair Kitagawa, and members of the Committee. The Department of Business, Economic Development and Tourism (DBEDT) supports HB993, HD1, that requires the Office of Planning and Sustainable Development (OPSD) to coordinate with state agencies to develop a standardized process to assess the vulnerability of state managed facilities to sea level rise and makes an appropriation in support of this effort.

Act 178, SLH 2021 codified HRS § 225M-9 Coordination of sea level rise adaptation activities, which tasked OPSD in cooperation with state agencies to plan for and assess a range of options to mitigate the impacts of sea level rise to existing and planned facilities.

This measure provides resources to the OPSD to carry out its charge and is critical to planning for and supporting the state's resiliency to coastal hazards.

Thank you for the opportunity to testify.



STATE OF HAWAI'I OFFICE OF PLANNING & SUSTAINABLE DEVELOPMENT

JOSH GREEN, M.D. GOVERNOR

> SCOTT J. GLENN DIRECTOR

235 South Beretania Street, 6th Floor, Honolulu, Hawai'i 96813 Mailing Address: P.O. Box 2359, Honolulu, Hawai'i 96804

 Telephone:
 (808) 587-2846

 Fax:
 (808) 587-2824

 Web:
 https://planning.hawaii.gov/

Statement of SCOTT GLENN, Director

before the HOUSE COMMITTEE ON FINANCE Tuesday, February 28, 2023, 10:00AM State Capitol, Conference Room 308

in consideration of HB 993 HD1 RELATING TO SEA LEVEL RISE ADAPTATION

Chair Yamashita, Vice Chair Kitagawa, and Members of the House Committee on Finance, the Office of Planning and Sustainable Development (OPSD) **strongly supports HB 993 HD1**, which proposes that the OPSD develop a standardized process for state managed facilities to assess vulnerability to sea level rise, and appropriates funds for this endeavor.

Under the charges of Act 178, Session Laws of Hawaii 2021 which codified HRS § 225M-9 Coordination of sea level rise adaptation activities, the OPSD conducted a sea level rise exposure assessment, which identified that out of 25 agencies with facilities management responsibilities, 20 agencies have facilities that fall within the 3.2 ft Sea Level Rise Exposure Area (SLR-XA). The development of a standardized procedure for assessing the vulnerability of state managed facilities to sea level rise will ensure a coordinated statewide effort to building climate resiliency and ensures that sea level rise planning and adaptation implementation is carried out in a consistent and comprehensive way across agencies and capital planning projects.

The use of a standardized approach to assessing vulnerability will facilitate improved planning to prepare and incorporate sea level rise adaptation into facilities planning and operations, and will support agencies' abilities to prioritize needs for current and future sea level rise adaptation into capital improvement requests. The OPSD is already actively engaging and consulting with agencies with facilities management responsibilities, and will continue to collaborate during the development of a standardized vulnerability assessment process.

HB 993 HD1 will ensure that the State's planning for sea level rise adaptation is moving forward in a coordinated and focused effort, and will allow the Office of Planning & Sustainable Development, in coordination with state agencies, to continue meeting the charges of Act 178, SLH 2021.

Thank you for the opportunity to testify on this measure.

HB/SB XXXX RELATING TO _____ - SUPPORT/COMMENT State Office of Planning and Sustainable Development Hearing Date



STATE OF HAWAI'I

HAWAI'I CLIMATE CHANGE MITIGATION & ADAPTATION COMMISSION

POST OFFICE BOX 621

HONOLULU, HAWAII 96809

Co-Chairs: Chair, DLNR Director, OPSD

Commissioners: Chair, Senate AEN Chair, Senate WTL Chair, House EEP Chair, House WAL Chairperson, DTA Chairperson, DCA CEO, OHA Chairperson, DH Director, DBEDT Director, DBEDT Director, DOH Chairperson, DOE Director, C+C DPP Director, Hawai'I DP Director, Hawai'I DP The Adjutant General Manager, CZM

Testimony of Manager, CZM Leah Laramee Coordinator, Hawai'i Climate Change Mitigation and Adaptation Commission

Before the Senate Committees on FINANCE

Tuesday, February 28, 2023 10:00 a.m. State Capitol, Conference Room 415 & Videoconference

In consideration of HOUSE BILL 993 HOUSE DRAFT 1 RELATING TO SEA LEVEL RISE ADAPTATION

House Bill 993 HD1 requires the Office of Planning and Sustainable Development, in cooperation with each state agency having operational responsibilities over state facilities, to develop a standardized process to conduct vulnerability assessments for facilities at risk from sea level rise and guidance to agencies on how to conduct the vulnerability assessments for their facilities and appropriates funds. The Climate Change Mitigation and Adaptation Commission (Commission) supports this bill.

The Hawai'i Climate Change Mitigation and Adaptation Commission consists of a multijurisdictional effort between 20 different departments, committees, and counties. A 2022 assessment conducted by OPSD determined that 20 of the 25 state agencies with facilities management responsibilities have facilities that fall within the 3.2 ft Sea Level Rise Exposure Area (SLR-XA). The proposed measure builds on the work accomplished by OPSD to continue work towards understanding vulnerability to sea level rise.

The 2022 *Hawai`i Sea Level Rise Vulnerability and Adaptation Report* includes recommendations to conduct an "in-depth assessment of vulnerability and evaluation of adaptation strategies for critical infrastructure throughout the State" and to "promote collaboration and accountability for adapting to sea level rise." This bill provides the resources needed to develop a standardized vulnerability assessment tool to facilitate state agencies' implementation of appropriate sea level rise adaptation strategies. HB 993 also enables agencies to enact Recommended Action 1.9 from the report to "conduct long-term strategic planning for maintenance, repair and replacement of critical infrastructure within the SLR-XA in advance of emergent need" by providing the tool to identify priority vulnerabilities. Mahalo for the opportunity to testify in support of this measure.

JOSH GREEN, M.D. GOVERNOR | KE KIA'ĂINA

SYLVIA LUKE LIEUTENANT GOVERNOR | KA HOPE KIA'ĂINA





STATE OF HAWAI'I | KA MOKU'ĀINA 'O HAWAI'I DEPARTMENT OF LAND AND NATURAL RESOURCES KA 'OIHANA KUMUWAIWAI 'ĀINA

P.O. BOX 621 HONOLULU, HAWAII 96809

Testimony of DAWN N. S. CHANG Chairperson

Before the House Committee on FINANCE

Tuesday, February 28, 2023 10:00 a.m. State Capitol, Conference Room 308 & Videoconference

In consideration of HOUSE BILL 993, HOUSE DRAFT 1 RELATING TO SEA LEVEL RISE ADAPTATION

House Bill 993, House Draft 1 proposes to: 1) have the Office of Planning and Sustainable Development (OPSD) develop a standardized process for state managed facilities to assess vulnerability to sea level rise; 2) make an appropriation for this endeavor. The Department of Land and Natural Resources (Department) supports this bill.

An assessment conducted by OPSD pursuant to Act 178, Session Laws of Hawai'i, 2021, determined that twenty of the twenty-five state agencies with facilities management responsibilities have facilities that fall within the 3.2 ft Sea Level Rise Exposure Area (SLR-XA). The proposed measure builds on the work already accomplished by OPSD and continues state agencies' work towards understanding vulnerability to sea level rise.

The 2017 Hawai'i Sea Level Rise Vulnerability and Adaptation Report (Report) and the 2022 five-year update include recommendations to conduct *an in-depth assessment of vulnerability and evaluation of adaptation strategies for critical infrastructure throughout the State* and to *promote collaboration and accountability for adapting to sea level rise*. The Report also recommends that the State *conduct long-term strategic planning for maintenance, repair and replacement of critical infrastructure within the SLR-XA in advance of emergent need*.

House Bill 993, House Draft 1 will provide the resources needed to meet the recommendations of the Report, and to develop a standardized vulnerability assessment tool to facilitate state agencies' implementation of appropriate sea level rise adaptation strategies.

Mahalo for the opportunity to testify in support of this measure.

DAWN N.S. CHANG CHAIRPERSON BOARD OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

> LAURA H.E. KAAKUA FIRST DEPUTY

M. KALEO MANUEL DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES BOATING AND OCEAN RECREATION BUREAU OF CONVEYANCES COMMISSION ON WATER RESOURCE MANAGEMENT CONSERVATION AND COASTAL LANDS CONSERVATION AND RESOURCES ENFORCEMENT ENGINEERING FORESTRY AND WILDLIFE HISTORIC PRESERVATION KAHOOLAWE ISLAND RESERVE COMMISSION LAND STATE PARKS

'ŌNAEHANA KULANUI O HAWAI'I

Legislative Testimony Hōʻike Manaʻo I Mua O Ka ʻAhaʻōlelo

Testimony Presented Before the House Committee on Finance Tuesday, February 28, 2023 at 10:00 a.m. By Charles "Chip" Fletcher, PhD Dean, School of Ocean and Earth Science and Technology And Darren T. Lerner, PhD Director, Sea Grant College Program, School of Ocean and Earth Science and Technology And Michael Bruno, Provost University of Hawai'i at Mānoa

HB 993 HD1 - RELATING TO SEA LEVEL RISE ADAPTATION

Chair Yamashita, Vice Chair Kitagawa, and Members of the Committee:

The University of Hawai'i Sea Grant College Program (Hawai'i Sea Grant) and the Climate Resilience Collaborative (CRC) **support the intent of House Bill 993 HD1**.

This measure requires the Office of Planning and Sustainable Development, in cooperation with each state agency having operational responsibilities over state facilities to: develop a standardized process to conduct vulnerability assessments for facilities at risk from sea level rise and guidance to agencies on how to conduct the vulnerability assessments for their facilities. In addition, this measure makes an appropriation.

Hawai'i Sea Grant's mission is to provide integrated research, extension, and education activities that increase understanding and use of ocean and coastal resources of the Hawaiian and Pacific Islands and support the informed personal, policy, and management decisions that are integral to realizing this vision. Hawai'i Sea Grant is part of a national network of 34 university-based programs associated with the National Oceanic and Atmospheric Administration (NOAA) that promote better understanding, conservation, and use of coastal resources.

CRC is a multi-investigator research project at the University of Hawai'i at Mānoa focused on sea level rise adaptation and climate resilience. CRC is working to update coastal models with more recent projections of sea level rise and to take account of other variables that impact Hawai'i's shorelines.

Hawai'i Sea Grant and CRC would be happy to provide updated sea level rise data and projections to the Committee or any lawmaker upon request.

Hawai'i Sea Grant and the Climate Resilience Collaborative support the intent of House Bill 993 HD1.

Thank you for the opportunity to testify on this measure.



HB 993, HD1, RELATING TO SEA LEVEL RISE ADAPTATION

FEBRUARY 28, 2023 · HOUSE FINANCE COMMITTEE · CHAIR REP. KYLE YAMASHITA

POSITION: Support.

RATIONALE: Imua Alliance <u>supports</u> HB 993, HD1, relating to sea level rise adaptation, which requires the Office of Planning and Sustainable Development, in cooperation with each state agency having operational responsibilities over state facilities to: develop a standardized process to conduct vulnerability assessments for facilities at risk from sea level rise and guidance to agencies on how to conduct the vulnerability assessments for their facilities.

According to a report produced by the Hawai'i Climate Change Mitigation and Adaptation Commission, global sea levels could rise more than three feet by 2100, with more recent projections showing this occurring as early as 2060. In turn, over the next 30 to 70 years, approximately 6,500 structures and 19,800 people statewide will be exposed to chronic flooding.

Additionally, an estimated \$19 billion in economic loss would result from chronic flooding of land and structures located in exposure areas. Finally, approximately 38 miles of coastal roads and 550 cultural sites would be chronically flooded, on top of the 13 miles of beaches that have already been lost on Kaua'i, O'ahu, and Maui to erosion fronting shoreline armoring, like seawalls.

Furthermore, according to research conducted by Michael B. Gerrard from Colombia Law School, modern-day slavery tends to increase after natural disasters or conflicts where large numbers of people are displaced from their homes. In the decades to come, says Gerrard, <u>climate change</u>

will very likely lead to a significant increase in the number of people who are displaced and, thus vulnerable, to human trafficking. While the Paris Climate Agreement of 2015 established objectives to limit global temperature increases and several international agreements are aimed at combating modern-day slavery, it is highly uncertain whether they will be adequate to cope with the scale of the problem that is likely to occur as a result of climate change.

As we work to reduce carbon emissions and stave off the worst consequences of climate change, we must begin preparing for the adverse impact of sea level rise on our shores. We are now quantifying the speed at which we must act. We cannot continue to develop the 25,800-acre statewide sea level rise exposure area–one-third of which is designated for urban use–without risking massive structural damage and, potentially, great loss of life.

Therefore, our state should take steps to protect Hawai'i's coastal areas, including by engaging in the long-term planning needed to coordinate climate change adaptation. <u>Site-specific</u> <u>vulnerability assessments conducted on state facilities will empower government</u> <u>agencies to understand the exposure of state infrastructure and prioritize capital</u> <u>improvement projects that strengthen climate resilience.</u> For the sake of our keiki, we cannot afford to wait to solidify strategies to preserve our island home for generations to come.

Kris Coffield · Executive Director, Imua Alliance · (808) 679-7454 · kris@imuaalliance.org