DAVID Y. IGE GOVERNOR OF HAWAII





STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES

POST OFFICE BOX 621 HONOLULU, HAWAII 96809

Testimony of SUZANNE D. CASE Chairperson

Before the House Committee on ENERGY & ENVIRONMENTAL PROTECTION

Tuesday, March 13, 2018 8:30 AM State Capitol, Conference Room 325

In consideration of SEANTE BILL 2334, SENATE DRAFT 2 RELATING TO PLANNING

Senate Bill 2334, Senate Draft 2 proposes to require the State and counties to incorporate evaluations, predictions, and recommendations pertaining to climate change hazards and mitigation into their respective multi-hazard mitigation plans. The Department of Land and Natural Resources supports this measure and provides the following comment.

In December 2017, the Hawaii Climate Change Mitigation and Adaptation Commission accepted the Hawaii Sea Level Rise Vulnerability and Adaptation Report (SLR Report). Recommendation 3 of the SLR Report includes a number of potential actions that are consistent with this measure such as, "Adopt Higher Flood Standards to Account for Sea Level Rise," "Consider Adopting V Zone Standards in the Coastal A Zone," "Provide Technical and Financial Support to a Statewide Community Rating System Program," "Encourage Property Owners at Risk to Coastal Flooding to Purchase Flood Insurance," "Incorporate Sea Level Rise into State and County Hazard Mitigation Plans," and "Develop Pre-disaster Recovery Frameworks at State and County Levels that Incorporate Opportunities to Adapt to Sea Level Rise Through Disaster Recovery."

Thank you for the opportunity to comment on this measure.

SUZANNE D. CASE CHAIRPERSON BOARD OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA

JEFFREY T. PEARSON, P.E. 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

DAVID Y. IGE GOVERNOR

LEO R. ASUNCION
DIRECTOR
OFFICE OF PLANNING

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

Statement of **LEO R. ASUNCION**

Director, Office of Planning

before the

HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL PROTECTION

Tuesday, March 13, 2018 8:30 AM State Capitol, Conference Room 325

in consideration of SB 2334, SD2 RELATING TO PLANNING.

Chair Lee, Vice Chair Lowen, and Members of the House Committee on Energy and Environmental Protection.

SB 2334, SD2 requires the State and counties to incorporate predictions of sea level rise and other climate change hazards and mitigation opportunities into applicable plans, strategies, and mapping, in order to increase the State's resiliency and ability to respond to natural disasters.

The Office of Planning (OP) supports SB 2334, SD2, and respectfully offers the following comments on this measure:

1. The State and counties shall incorporate the findings of the "Hawaii Sea Level Rise Vulnerability and Adaptation Report 2017" prepared by the Hawaii climate change mitigation and adaptation commission, into the State plan and State functional plans, county general plans and county development or community plans, besides their respective multi-hazard mitigation plans, in order to increase the State's resiliency and ability to respond to natural disasters. It is not sufficient enough for the State and each county to incorporate the findings of the "Hawaii Sea Level Rise Vulnerability and Adaptation Report" only into their respective multi-hazard mitigation plans. Therefore, OP recommends amendments to Page 2, Lines 4-11 to read as follows:

"§ 226- Climate change hazards and mitigation planning; required.

The State and each county shall incorporate evaluations, predictions, and recommendations pertaining to climate change hazards and mitigation into their respective multi-hazard mitigation plans, the State plan and State functional plans, county general plans and county development or community plans. Those plans, at a minimum, shall incorporate the findings of the "Hawaii Sea Level Rise Vulnerability and

Adaptation Report" prepared by the Hawaii climate change mitigation and adaptation commission.

Thank you for the opportunity to comment on this measure.



SB2334 SD2 RELATING TO PLANNING

House Committee on Energy & Environmental Protection

March 13, 2018 8:30 a.m. Room 325

The Office of Hawaiian Affairs (OHA) <u>SUPPORTS</u> SB2334 SD2, which would require the state and the counties to address climate change hazards and mitigation in their hazard mitigation plans, and to include sea level rise adaptation strategies in other state and county plans and maps.

OHA has long sought to promote the resiliency and health of our islands' lands and natural and cultural resources. OHA's strategic priorities include 'Āina (Land & Water), which represents our commitment to maintain Native Hawaiians' connection to the past and a viable land base; by Native Hawaiian participation in and benefit from the responsible stewardship of Ka Pae 'Āina O Hawai'i. In line with this priority, OHA's strategic results specifically seek to preserve cultural and natural resources and historic properties.

As a member of the Hawai'i Climate Change Mitigation and Adaptation Commission established by Act 32 (Reg. Sess. 2016), OHA currently assists with direction, facilitation, coordination and planning among state and county agencies, federal agencies, and other partners on climate change mitigation (reduction of greenhouse gases) and climate change resiliency strategies, including, but not limited to, sea level rise adaptation, water and agricultural security, and natural resource conservation. OHA understands that the impacts of climate change – such as coastal flooding and erosion and impacts to terrestrial and marine ecosystems – will affect the built and natural environment, as well as the livelihoods and food security of Native Hawaiians. Understanding the extent of these changes and their impacts and planning early adaptation and mitigation actions is essential to protecting the communities and natural resources of Ka Pae 'Āina O Hawai'i.

OHA accordingly appreciates and supports the intent of this measure, and believes that the contemplated climate change hazard and mitigation planning will reaffirm and reinforce our efforts to ensure the resiliency and sustainable stewardship of our islands

Accordingly, OHA urges the Committee to <u>PASS</u> SB2334 SD1. Mahalo nui for the opportunity to testify on this measure.



STATE OF HAWAII DEPARTMENT OF DEFENSE HAWAII EMERGENCY MANAGEMENT AGENCY

Testimony on Senate Bill 2334 SD2 RELATING TO PLANNING

by

BRIGADIER GENERAL MOSES KAOIWI Interim Administrator, Hawaii Emergency Management Agency (HI-EMA)

Before the House Committee on ENERGY AND ENVIRONMENTAL PROTECTION

Chair Lee, Vice-Chair Lowen, and Members of the Committee:

Aloha - I am Brigadier General Moses Kaoiwi, Interim Administrator of the Hawaii Emergency Management Agency and am submitting the following comments **in support** of SB 2334 SD2:

- The Stafford Act requires states and counties to submit Hazard Mitigation Plans to the Federal Emergency Management Agency (FEMA) at least every five years to be eligible for certain types of disaster assistance, including public assistance and hazard mitigation grant program funding after a presidentially declared disaster.
- These plans identify the natural hazards that affect each jurisdiction and through combined efforts of affected stakeholders (e.g. state and county planners, university professors, scientists, community organization, and others) lay out mitigation strategies and projects to reduce the long-term impacts of these hazards. HI-EMA oversees this planning with the support of the State Hazard Mitigation Forum.
- Sea level rise and climate change have been among the top hazards considered in the
 development of these hazard mitigation plans and FEMA mitigation plan guidance
 already requires their inclusion. Climate Change Effects are addressed in chapter 18 of
 the current State of Hawaii Hazard Mitigation Plan that has been in effect since 2013.

The recent sea level rise vulnerability/adaptation report commissioned by the state's Interagency Climate Adaptation Commission will be a major consideration in the state hazard mitigation plan update, which is due in October of 2018. This report also includes potential actions that are consistent with the intent of SB 2334 SD2, such as the incorporation of sea level rise into state and county hazard mitigation plans.

Thank you for the opportunity to provide testimony in support of Senate Bill 2334 SD2.

Moses Kaoiwi; moses.kaoiwi@hawaii.gov; 808-733-4300

SB-2334-SD-2

Submitted on: 3/12/2018 5:40:18 AM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Melodie Aduja	OCC Legislative Priorities Committee, Democratic Party of Hawai'i	Support	No

Comments:

PRESENTATION OF THE
OAHU COUNTY COMMITTEE ON LEGISLATIVE PRIORITIES
DEMOCRATIC PARTY OF HAWAII
TO THE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
THE HOUSE OF REPRESENTATIVES
TWENTY-NINTH LEGISLATURE
REGULAR SESSION OF 2018
Tuesday, March 13, 2018
8:30 p.m.

Hawaii State Capitol, Conference Room 325

RE: Testimony in **Support** of **SB2334 SD2**, RELATING TO PLANNING To the Honorable Chris Lee, Chair; the Honorable Nicole E. Lowen, Vice-Chair and Members of the Committee on Energy & Environmental Protection:

Good morning. My name is Melodie Aduja. I serve as Chair of the Oahu County Committee ("OCC") Legislative Priorities Committee of the Democratic Party of Hawaii. Thank you for the opportunity to provide written testimony on **SB2334 SD2** relating to Disasters; Planning; Recovery; and Climate Change.

The OCC Legislative Priorities Committee is in favor of **SB2334 SD2** and strongly supports its passage as it requires the State and counties to incorporate predictions of sea level rise and other climate change hazards and mitigation opportunities into applicable plans, strategies, and mapping.

SB2334 SD2 is in accord with the Platform of the Democratic Party of Hawai'i ("DPH") which provides that "[w]e know that climate change is a real threat to our islands and the world. We strongly urge our candidates and elected officials to take immediate action to mitigate and adapt to the consequences of climate change. This includes funding adaptation measures including coastal retreat, effective participation of indigenous peoples in climate change governance, and recognition that indigenous, local, and traditional ecological knowledge is key in climate change adaptation solutions." (Platform of the DPH, P. 8, 435-439 (2016)).

Given that **SB2334 SD2** requires the State and counties to incorporate predictions of sea level rise and other climate change hazards and mitigation

opportunities into applicable plans, strategies, and mapping, it is the position of the OCC Legislative Priorities Committee to strongly support this measure.

Thank you very much for your kind consideration.
Sincerely yours,
/s/ Melodie Aduja
Melodie Aduja, Chair, OCC Legislative Priorities Committee
Email: legislativepriorities@gmail.com, Text/Tel.: (808) 258-8889

OFFICE OF CLIMATE CHANGE, SUSTAINABILITY AND RESILIENCY

CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 9TH FLOOR • HONOLULU, HAWAII 96813 PHONE: (808) 768-2277 • EMAIL: resilientoahu@honolulu.gov • INTERNET: www.resilientoahu.org

KIRK CALDWELL MAYOR



JOSHUA W. STANBRO EXECUTIVE DIRECTOR & CHIEF RESILIENCE OFFICER

TUESDAY, MARCH 13, 2018 8:30AM COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

TESTIMONY ON SENATE BILL 2334 SD2 RELATING TO CLIMATE CHANGE

BY,

JOSHUA STANBRO
EXECUTIVE DIRECTOR AND CHIEF RESILIENCE OFFICER
OFFICE OF CLIMATE CHANGE, SUSTAINABILITY AND RESILIENCY

Dear Chair Lee, Vice Chair Lowen, and Committee Members:

The City and County of Honolulu Office of Climate Change, Sustainability and Resiliency **supports the intent** of Senate Bill 2334 SD2, which mandates the integration of climate change considerations in state and county planning efforts, including the Multi-Hazard Pre-Disaster Mitigation Plan.

The City has already begun to include sea level rise and other climate change considerations into its long range policy plans. We have also been requesting that climate change impacts be defined for major land use proposals. The City also established via City Charter our permanent Office of Climate Change, Sustainability and Resiliency which has quickly built capacity to coordinate policies and departmental action to plan for and address climate change impacts.

While we support the concept of proactive actions such as modeling for mapping purposes and participation in the community rating system called for in this bill, we are concerned that this Bill mandates City actions without funding to carry them out. These are not one-time costs, but reflect an ongoing commitment. These activities are not currently in the City's budget and we request that Senate Bill No. 2334 SD2 include permanent funding to assist the City and other counties in this work.

Thank you for the opportunity to testify.

Bernard P. Carvalho Jr.

Mayor

Wallace G. Rezentes Jr.
Managing Director



PLANNING DEPARTMENT

County of Kaua'i, State of Hawai'i

4444 Rice Street, Suite A-473, Līhu'e, Hawai'i 96766 TEL (808) 241-4050 FAX (808) 241-6699 Michael A. Dahilig
Director of Planning

Ka'āina S. HullDeputy Director of Planning



Testimony Relating to Planning SB2334 SD2 By Michael A. Dahilig Director of Planning, County of Kauai

The Planning Department **SUPPORTS** SB 2334 SD2 which requires the State and counties to incorporate predictions of sea level rise and other climate change hazards and mitigation opportunities into applicable plans, strategies, and mapping.

The Kauai County Planning Department has recently updated its General Plan and has incorporated climate change and coastal hazard considerations into the plan. Additionally, these considerations have been incorporated into the adopted South Kauai Community Plan. Currently the department is working on the West Kauai Community Plan and will also incorporate hazard, risk and vulnerability assessments.

Thank you for the opportunity to comment.



HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Tuesday, March 13, 2018 8:30 AM Conference Room 325

In SUPPORT of SB 2334 SD2 Relating to planning

Aloha Chair Lee, Vice Chair Lowen, and members of the Committee,

On behalf of our 20,000 members and supporters, the Sierra Club of Hawai'i, a member of the Common Good Coalition, **supports SB 2334 SD2**, which provides the legislative mandate needed to implement recommendations from the "Hawai'i Sea Level Rise Vulnerability and Adaptation Report¹" (the Report) prepared by the Hawai'i Climate Change Mitigation and Adaptation Committee, especially those recommendations dealing with climate change hazards and mitigation in an era of sea level rise, increased frequency and intensity of storm events, and other climate change impacts.

This bill provides the legislative mandate needed to implement recommendation 3.7 of the Report, Develop pre-disaster recovery frameworks at state and county levels that incorporate opportunities to adapt to sea level rise through disaster recovery.

As stated in the Report,

"Disasters can provide opportunities to adapt to sea level rise. Pre-disaster recovery strategies can support managed retreat and other adaptation strategies by engaging community stakeholders in making decisions about land use in the event that a major hazard event, such as a hurricane or tsunami, occurs. Using pre- disaster planning and post-disaster recovery as opportunities for implementation of sea level rise adaptation is as advantageous as it is cost effective and reduces repetitive losses."

Such engagement of communities in pre-disaster recovery planning also serves to promote a visioning process to guide future managed retreat actions which sea level rise may trigger even in the absence of major disasters.

¹ Hawai'i Sea Level Rise Vulnerability and Adaptation Report (2017)

Federal floodplain maps are based on historic data and do not incorporate sea level rise projections. SECTION 4 of this bill would require that floodplain mapping supported by state or county funding include modeling which takes sea level rise into account. This will promote more realistic identification of flood hazards than provided by federal floodplain maps.

In summary, we **strongly support SB 2334 SD2** and encourage its passage.

Mahalo for the opportunity to testify on this important issue.



HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Hearing Tuesday, March 13, 2018 8:30 AM Conference Room 325

IN SUPPORT OF SB 2334 SD2 Relating to Planning

Aloha Chair Lee, Vice-Chair Lowen, and Committee Members:

The **HAWAI'I REEF AND OCEAN COALITION** – **HIROC** – was formed last year by coral reef scientists, educators, local Hawai'i environmental organizations, elected officials, and others to address a crisis facing Hawaii's coral reefs and ocean. We are currently asking the Legislature to pass a handful of very important bills to save our coral reefs – they are bills relating to sunscreens, plus bills on cesspools; Styrofoam; plastic marine debris; and sea level rise.

HIROC supports SB 2334 SD2. It is one of several bills we back for addressing the challenges Hawai'i faces <u>now</u> and into the future in an era of sea level rise, increased frequency and intensity of storm events, and other climate change impacts.

This bill provides the legislative mandate needed to implement recommendation 3.7, **Develop pre-disaster recovery frameworks at state and county levels that incorporate opportunities to adapt to sea level rise through disaster recovery,** from the Hawai'i Sea Level Rise Vulnerability and Adaptation Report (the Report) prepared by the Hawai'i Climate Change Mitigation and Adaptation Committee.

As stated in the Report:

"Disasters can provide opportunities to adapt to sea level rise. Pre-disaster recovery strategies can support managed retreat and other adaptation strategies by engaging community stakeholders in making decisions about land use in the event that a major hazard event, such as a hurricane or tsunami, occurs. Using pre- disaster planning and post-disaster recovery as opportunities for implementation of sea level rise adaptation is as advantageous as it is cost effective and reduces repetitive losses."

Such engagement of communities in pre-disaster recovery planning also serves to promote a visioning process to guide future managed retreat actions which sea level rise may trigger even in the absence of major disasters.

Federal floodplain maps are based on historic data and do not incorporate sea level rise projections. SECTION 4 of this bill would require that floodplain mapping supported by state or county funding include predictions which takes sea level rise into account, including the information provided in the Sea Level Rise Vulnerability and Adaptation Report. This will promote more realistic identification of flood hazards than provided by federal floodplain maps.

In summary, we support this bill and encourage its passage.

Mahalo for the opportunity to present this testimony.

Submitted by Dave Raney on behalf of the Hawai'i Reef and Ocean Coalition.



Testimony Presented Before the
House Committee on
ENERGY AND ENVIRONMENTAL PROTECTION
Tuesday, March 13, 2018 8:30 A.M
State Capitol, Conference Room 325
By
Dolan Eversole
President
Hawai'i Shore and Beach Preservation Association

SB2334 – RELATING TO PLANNING

Chair Lee, Vice Chair Lowen and members of the committee:

The Hawai'i Shore and Beach Preservation Association (HSBPA) supports the intent of Senate Bill 2334.

SB2334 requires the State and counties to incorporate predictions of sea level rise and other climate change hazards and mitigation opportunities into applicable plans, strategies, and mapping. The purpose of this Act is to require the State and counties to incorporate predictions of sea level rise and other climate change hazards and mitigation opportunities into applicable plans, strategies, and mapping, in order to increase our State's resiliency and ability to properly respond to natural disasters.

Hawai'i's beaches have become increasingly threatened by coastal erosion. According to the United States Geological Service (USGS) National Assessment of Shoreline Change for the Hawaiian Islands, 70% of Hawai'i's beaches are eroding and 13 miles of beach have been lost over the last century. Beach erosion effects shoreline access, recreation and cultural activities, coastal environments, and our economy. Beaches are the backbone of Hawai'i's \$15 Billion tourism industry and are central to Hawai'i's unique culture and lifestyle. With sea-level rise and chronic coastal erosion, the state is challenged to find effective and efficient ways to preserve and maintain our naturally occurring sand beaches. We believe the proposed legislation will help support the long-term preservation and protection of our coastal resources in addition to developing hazard mitigation plans that incorporate and address some of the pressing climate change impacts such as sea-level rise.

HSBPA supports SB2334 in the effort to incorporate modern scientific information on climate change as part of State and County plans and policies. The HSBPA supports further development of a full suite of coastal management options needed to address the challenging conditions forecast for the future of Hawai'i. Hawai'i's hazard mitigation plans are an important part of Hawai'i's disaster preparedness, incorporating climate change impacts and science is not only appropriate but necessary to obtain comprehensive mitigation plans that are adaptive and relevant to the current hazard threats.

*The Hawaii Shore and Beach Preservation Association (HSBPA, http://asbpa.org/hawaii/) formed in 2014 is an organization of private sector, academic, and government professionals, students and local community members dedicated to the preservation and restoration of Hawaii's beaches and coastal environments. The HSBPA aims to bring together various members of the coastal community to foster dialogue and cooperation on beach and coastal resource conservation, management, and regulation; supporting professional development of chapter members; and providing education to students and community members on Hawaii's beaches and coastal environments.

Thank you for considering our testimony on the bill.



<u>SB-2334-SD-2</u> Submitted on: 3/12/2018 4:40:14 PM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lisa Bishop	Friends of Hanauma Bay	Support	No

<u>SB-2334-SD-2</u> Submitted on: 3/9/2018 5:38:21 PM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Benton Kealii Pang, Ph.D.	Individual	Support	No

<u>SB-2334-SD-2</u> Submitted on: 3/10/2018 12:40:59 PM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing	
Rene Umberger	Individual	Support	No	

<u>SB-2334-SD-2</u> Submitted on: 3/9/2018 10:22:14 PM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
janice palma-glennie	Individual	Support	No

Comments:

please support to protect our islands

<u>SB-2334-SD-2</u> Submitted on: 3/10/2018 4:30:56 PM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Erica Scott	Individual	Support	No

<u>SB-2334-SD-2</u> Submitted on: 3/11/2018 5:23:26 AM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Dyson Chee	Individual	Support	No

<u>SB-2334-SD-2</u> Submitted on: 3/11/2018 5:26:53 AM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Micah Chee	Individual	Support	No

<u>SB-2334-SD-2</u> Submitted on: 3/11/2018 5:38:01 AM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
David Chee	Individual	Support	No

<u>SB-2334-SD-2</u> Submitted on: 3/11/2018 11:14:15 PM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Philipp LaHaela Walter	Individual	Support	No

<u>SB-2334-SD-2</u> Submitted on: 3/12/2018 9:05:58 AM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Tulsi Greenlee	Individual	Support	No

Comments:

Please support this bill. Thank you Tulsi Greenlee

<u>SB-2334-SD-2</u> Submitted on: 3/12/2018 11:10:15 AM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
R. Kinslow	Individual	Support	No

Comments:

I support planning activities, yet a strategic approach across the state is required for success



<u>SB-2334-SD-2</u> Submitted on: 3/12/2018 5:17:40 PM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Barbara Best	Individual	Support	No



<u>SB-2334-SD-2</u> Submitted on: 3/12/2018 6:35:44 PM

Testimony for EEP on 3/13/2018 8:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Ken Stover	Individual	Support	No