



# OFFICE OF PLANNING STATE OF HAWAII

DAVID Y. IGE  
GOVERNOR

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Statement of  
**LEO R. ASUNCION**  
Planning Program Administrator, Office of Planning  
before the  
**SENATE COMMITTEES ON WATER AND LAND &  
AGRICULTURE AND ENVIRONMENT**

Friday, March 15, 2019  
3:00 PM  
State Capitol, Conference Room 224

in consideration of  
**HB 1487, HD1**  
**RELATING TO CLIMATE CHANGE.**

Chairs Kahele and Gabbard, Vice Chairs Keith-Agaran and Ruderman, and Members of the Senate Committees on Water and Land & Agriculture and Environment.

The Office of Planning (OP) offers the following comments to HB 1487, HD1, which establishes a shoreline climate protection pilot project.

- Section 2(b) of this HB 1487, HD1 directs the Hawaii Climate Change Mitigation and Adaptation Commission (Climate Commission) to plan a system of coastal protection for the low-lying topography of urban Honolulu between the Daniel K. Inouye Honolulu International Airport and Diamond Head State Monument.

The University of Hawaii Community Design Center (UHCDC) is currently undertaking an urban design study of the south shore of Oahu. The “South Shore Promenade and Coastal Open Space Network Study, Resilience and Connectivity by Design” assesses past, present, and future shoreline conditions in urban Honolulu from Diamond Head to Pearl Harbor.

The goal of the UHCDC study is to provide recommendations for future waterfront designs that are resilient to sea level rise related hazards. OP recommends that the Climate Commission consult and collaborate with the UHCDC, given that they involve similar subject matter and have shared objectives.

- OP further recommends that, if managed retreat is to be considered during the shoreline climate protection pilot project, as envisioned by HB 1487, HD1, the Climate Commission and any of its partners review the OP Coastal Zone Management Program’s (OP CZM) Final Report on Final report on *Assessing the Feasibility and Implications of Managed Retreat Strategies for Vulnerable Coastal*

*Areas*, which is available on the OP website ([www.planning.hawaii.gov](http://www.planning.hawaii.gov)). OP CZM is committed to furthering the managed retreat analysis and working collaboratively with agency and stakeholder partners.

Thank you for the opportunity to comment on this matter.

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 Senate Committees on  
WATER AND LAND  
and  
AGRICULTURE AND ENVIRONMENT**

**Friday, March 15, 2019  
3: 00pm  
State Capitol, Conference Room 224**

**In consideration of  
HOUSE BILL 1487, HOUSE DRAFT 1  
RELATING TO CLIMATE CHANGE**

House Bill 1487, House Draft 1 proposes to establish the Honolulu Shoreline Climate Protection Pilot Project to develop a plan to protect urban Honolulu from the acute impacts of sea level rise, floodwater, storms, and other impacts of a rapidly changing climate. **The Department of Land and Natural Resources supports this measure provided that its passage does not replace or adversely impact priorities indicted in the Executive Supplemental Budget.**

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

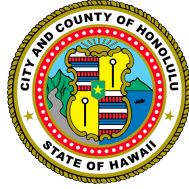
**ROBERT K. MASUDA**  
FIRST DEPUTY

**M. KALEO MANUEL**  
DEPUTY DIRECTOR - WATER

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

OFFICE OF CLIMATE CHANGE, SUSTAINABILITY AND RESILIENCY  
**CITY AND COUNTY OF HONOLULU**

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KIRK CALDWELL  
MAYOR

JOSHUA W. STANBRO  
EXECUTIVE DIRECTOR &  
CHIEF RESILIENCE OFFICER

MARCH 15, 2019 3:00PM

STATE OF HAWAII  
COMMITTEE ON AGRICULTURE & ENVIRONMENT  
COMMITTEE ON WATER & LAND

**TESTIMONY ON HOUSE BILL 1487 HD1  
A BILL RELATING TO CLIMATE CHANGE**

BY,

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

Dear Chairs Gabbard and Kahele, Vice Chairs Ruderman and Keith-Agaran and Committee Members:

The City and County of Honolulu (City) Office of Climate Change, Sustainability and Resiliency (Resilience Office) **offers the following comments on** House Bill 1487 HD1, which establishes the Honolulu shoreline climate protection pilot project to develop a plan to protect urban Honolulu from the acute impacts of sea level rise, floodwater, storms, and other impacts of a rapidly changing climate.

Thank you for your attention to this area, which encompasses much of the state's economy and population, the Kaka'ako Community Development District, the Capital District, and critical State transportation assets (e.g., Honolulu Harbor and Daniel K. Inouye International Airport). This area also includes important City recreational resources, critical infrastructure, and Transit-Oriented Development planning areas.

As currently drafted, the bill refers to the Resilience Office as the "office of climate change and resiliency." That section should be amended to read, "Office of Climate Change, Sustainability and Resiliency" (Section 2(c)).

Although it is not possible to commit City matching funds outside of the regular budget process and timeline, we understand the unique challenges that the City and State jointly face in this geographic area from climate change and will explore the

Chairs Gabbard and Kahele  
Vice Chairs Ruderman and Keith-Agaran  
House Bill 1487 HD1  
March 15, 2019 3:00PM  
Page 2

potential to allocate resources to this effort in the future should matching funds become available. Additionally, though the City has representation on the State Climate Change Mitigation and Adaptation Commission (Commission), we request stronger language be included in the bill defining the proposed State and City partnership. The bill currently states that the Commission *may* partner with the City. Recommended bill language is, “The Hawaii climate change mitigation and adaptation commission shall partner with the City and County of Honolulu in development of the design” (Section 2(c)) to ensure a shared product.

Lastly, as they relate to this bill, we encourage State agency, commission, and legislators’ participation in the update of the City Primary Urban Center Development Plan (which encompasses the bill’s study area), the City Multi-Hazard Pre-Disaster Mitigation Plan update, and the State Department of Transportation Harbors Division Honolulu Harbor Master Plan update. All of these efforts will help inform and align City and State responses to climate change impacts in this important geographic area.

Thank you for the opportunity to testify.

Testimony of  
Christopher Delaunay, Government Relations Manager  
Pacific Resource Partnership

Senate Committee on Water and Land  
The Honorable Kaiali'i Kahele, Chair  
The Honorable Gilbert S.C. Keith-Agaran, Vice Chair

Senate Committee on Agriculture and Environment  
The Honorable Mike Gabbard, Chair  
The Honorable Russell E. Ruderman, Vice Chair

HB 1487, HD1 Relating to Climate Change

Friday, March 15, 2019  
3:00 P.M.  
State Capitol – Room 224

Aloha Chairs Kahele and Gabbard and Vice Chairs Keith-Agaran and Ruderman, and Members of the Committee:

Pacific Resource Partnership (PRP) **supports** HB 1487, HD1 which establishes the Honolulu shoreline climate protection pilot project to develop a plan to protect urban Honolulu from the acute impacts of sea level rise, floodwater, storms, and other impacts of a rapidly changing climate.

Scientists have been warning us for years that climate change will significantly impact our environment and overall well-being, especially if we are not proactive in reducing greenhouse gas emissions and adapting to the impacts of sea-level rise. The Fourth National Climate Assessment, completed in November 2018, acknowledges that 3.2 feet of global sea-level rise is possible as early as 2060 in a worst-case scenario. According to the Assessment the value of all structures and land projected to be flooded by 3.2 feet of sea-level rise amounts to more than \$19 billion statewide. As such, it is prudent and urgent to begin planning for the potential impacts that these changes will bring to Hawaii.

Therefore, we respectfully ask for your favorable passage of HB 1487, HD1. Thank you for this opportunity to testify.





## HAWAII REGIONAL COUNCIL OF CARPENTERS

Senate Committee on Water and Land  
The Honorable Kaialii Kahele, Chair

Senate Committee on Agriculture and Environment  
The Honorable Mike Gabbard, Vice Chair

Friday, March 15, 2019  
3:00 PM, State Capitol Room 224  
HB1487 HD1 – Relating to Climate Change

Statement of the Hawaii Regional Council of Carpenters – Support for HB1487 HD1

Aloha Chair Kahele, Vice Chair Gabbard, and Members of the Committee:

The Hawaii Regional Council of Carpenters supports HB1487 HD1, which would establish the Honolulu shoreline climate protection pilot project to develop a plan to protect urban Honolulu from the acute impacts of sea level rise, floodwater, storms, and other impacts of a rapidly changing climate.

We are concerned about the potential for climate change to disrupt our island environment and affect the lives of everyone who calls Hawaii home. Not only do our union members enjoy Hawaii's unique natural environment, but our industry is particularly sensitive to future impacts of climate change. For example, rising water tables, subsiding land, and coastal erosion may require different designs for buildings and more advanced engineering techniques to be employed. Wetter winters may impact construction schedules, while hotter, drier summer days may also have an impact on worker health. There are many more possible impacts that we as a community must prepare for.

HB1487 HD1 calls upon the Hawaii Climate Change Mitigation and Adaption Commission to plan a system of coastal protection for the low-lying topography of urban Honolulu, akin to the plans currently being developed in New York City after Hurricane Sandy. In New York City, these plans were developed with the support of area residents, community groups, business interests, and labor organizations. We trust that if such coastal protection plans are developed for Honolulu, the Climate Change Mitigation and Adaption Commission will take a similarly inclusive and comprehensive approach.

Mahalo for the opportunity to provide these comments.

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## HB 1487, HD 1, RELATING TO CLIMATE CHANGE

MARCH 15, 2019 · SENATE COMMITTEES ON  
WATER AND LAND AND AGRICULTURE AND  
ENVIRONMENT · CHAIR SEN. KAIALI'I KAHELE AND  
SEN. MIKE GABBARD

**POSITION:** Support.

**RATIONALE:** IMUAlliance supports HB 1487, HD 1, relating to climate change, which establishes the Honolulu shoreline climate protection pilot project to develop a plan to protect urban Honolulu from the acute impacts of sea level rise, floodwater, storms, and other impacts of a rapidly changing climate.

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.

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.





# SIERRA CLUB OF HAWAI'I

## MĀLAMA I KA HONUA. *Cherish the Earth.*

### JOINT SENATE COMMITTEES ON WTL AND AEN

March 15, 2019      3:00 PM      Room 225

### In **SUPPORT** of **HB 1487 HD 1**: Relating to Climate Change

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Aloha Chair Kahele, Chair Gabbard, and members of the WTL and AEN committees,

On behalf of our 20,000 members and supporters, the Sierra Club of Hawai'i **supports HB 1487 HD 1**, which establishes and appropriates funds for the Honolulu shoreline climate protection pilot project to develop a plan to protect urban Honolulu from the acute impacts of sea level rise, floodwater, storms, and other impacts of a rapidly changing climate.

Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. The "Hawai'i Sea Level Rise Vulnerability and Adaptation Report" prepared by the Hawai'i Climate Change Mitigation and Adaptation Commission, provides the first state-wide assessment of Hawaii's vulnerability to sea level rise by showing sea level rise exposure areas (SLR-XA) that are exposed to potential chronic flooding and land loss based on modeling passive flooding, annual high wave flooding, and coastal erosion. A summary of potential state-wide impacts from 3.2 feet of sea level rise (25,800 acres) are estimated to be \$19 billion in loss of land and structures, 38 miles of major roads flooded, 6,500 structures flooded, and 19,800 people displaced.<sup>1</sup>

The coastline of urban Honolulu will be a particularly important and challenging area to protect in the face of rising seas and more frequent flooding and inland inundation. This bill will initiate and fund a pilot project to create a shoreline buffer from the Honolulu International Airport to the Diamond Head State Monument.

HB 1487 directs the Hawaii Climate Change Mitigation and Adaptation Commission to plan a system of coastal protection for the "low-lying topography" of urban Honolulu, designating in these areas different protection compartments and buffer zones. We would recommend

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<sup>1</sup> [https://climateadaptation.hawaii.gov/wp-content/uploads/2017/12/SLR-Report\\_Dec2017.pdf](https://climateadaptation.hawaii.gov/wp-content/uploads/2017/12/SLR-Report_Dec2017.pdf)

language relating to “low-lying topography” to be replaced with “SLR-XA maps, as officially adopted by the Hawaii Climate Change Mitigation and Adaptation Commission”, to provide clarity on which areas should be the focus of the pilot project and ensure consistency with the findings of the Hawaii Sea Level Rise Vulnerability and Adaptation Report.

Thank you very much for this opportunity to provide testimony in **support of HB 1487 HD 1**.

Mahalo,

A handwritten signature in black ink that reads "Jodi Malinoski". The signature is written in a cursive, flowing style.

Jodi Malinoski, Policy Advocate

**LATE**

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3442 Waialae Ave., Suite 1  
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bicycle@hbl.org

March 15, 2019

**Testimony Supporting HB1487**

Aloha Chairs Kahale and Gabbard, Vice Chairs Keith-Agaran and Ruderman, and esteemed members of the Committees on Water and Land and on Agriculture and Environment:

Hawaii Bicycling League **strongly supports House Bill 1487**, which establishes the Honolulu shoreline climate protection pilot project within the Hawaii Climate Change Mitigation and Adaption Commission.

The realities of sea-level are stark and it behooves to act now to limit the future social and economic impacts. The Honolulu shoreline climate protection pilot project envisioned in HB1487 will be a major step forward in addressing this reality while achieving a solution that improves quality life and our local economy.

Thank you very much for considering the comments of Hawaii Bicycling League. If you have any questions or would like to discuss further, please contact Daniel Alexander (808-275-6717, [Daniel@hbl.org](mailto:Daniel@hbl.org)) or Chad Taniguchi (808-255-8271).

Ride and Drive Aloha,

A handwritten signature in black ink, appearing to read "Daniel Alexander".

Daniel Alexander  
Co-Executive Director  
Hawaii Bicycling League

A handwritten signature in black ink, appearing to read "Chad Taniguchi".

Chad Taniguchi  
Director Emeritus  
Hawaii Bicycling League



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Michael Spalding Realty

**Carol Wilcox**

Author

**The Trust For Public Land's Testimony In Support Of  
HB 1487 HD1 Relating To Climate Change**  
Senate Committees on Water & Land and Agriculture & Environment  
Conf. Room 224, Friday, March 15, 2019, 3:00 p.m.

Aloha e Chairs Kahele and Gabbard, Vice-Chairs Keith-Agaran and Ruderman, and Committee Members:

The Trust for Public Land supports HB 1487 relating to climate change, which establishes a Honolulu shoreline climate protection pilot project.

The Trust for Public Land is part of a coalition of community groups advocating for a Lei of Parks or Lei of Green connecting Diamond Head to West O'ahu. The Trust for Public Land supports the intent of this bill – to work with urban communities in low lying areas of O'ahu's south shore to plan for sea level rise deploying green infrastructure, including a connected coastal path from Diamond Head to the Honolulu International Airport that would link or expand parks. We support supplying adequate funding to the Department of Land and Natural Resources to implement this effort.

This bill could also complement comprehensive planning efforts proposed by other pending bills such as SB 1287, which proposes that the Lei of Green or Lei of Parks concept be incorporated into statewide planning.

Mahalo for this opportunity to testify. I apologize that I cannot be present at the hearing of this bill due to scheduling conflicts.

Me ke aloha,

Hawaiian Islands State Director  
Edmund C. Olson Trust Fellow



March 14, 2019

In Support of HB1487 HD1 Relating to Climate Change  
Senate Committee on Water & Land (WTL) and Agriculture & Environment (AEN)  
March 15, 2019, 3:00pm, Room 224

Aloha, Chairs Kahele & Gabbard, Vice Chairs Keith-Agaran & Ruderman and Members of the Committees:

The Surfrider Foundation's Hawaii Chapters strongly support HB1487 HD1 to establish the Honolulu Shoreline Climate Projection Pilot Program to help deal with the consequences of climate change, sea level rise and increasing storms and hurricanes. Volunteer leaders from Surfrider's five Hawaii Chapters have played an active role in educating the public about the effects of climate change and sea level rise, and we are working with scientists from the UH Sea Grant Program and environmental groups like Sierra Club and Maui Tomorrow to help mitigate the effects and come up with practical solutions.

As you all know, sea levels are rising, and we have to prepare for the probability of increasingly severe storms, hurricanes and flooding. If Honolulu were to be hit by a major hurricane, the damage has been estimated to be in the billions of dollars. After New York was hit by Superstorm Sandy in 2012, the City began preparing a shoreline protection pilot program, and this bill would create a similar plan.

The Hawaii Climate Change Mitigation and Adaption Commission will develop a report and come up with designs to create a shoreline buffer zone to protect from flooding and sea level rise. As part of the bill, they should also go beyond just producing reports and begin implementing infrastructure measures to see how effective they are. Some of these measures should include moving the electrical equipment in shoreline hotel and structures from basements to higher levels (to protect them from flooding, electrical fires and blackouts) and designing a "Lei of Green Parks" along the shoreline (to mitigate flooding).

As an amendment, I would that this bill included provisions to prohibit homeowners from building seawalls and other shoreline hardening structures because that will only cause our rapidly eroding shorelines to recede even more. Like HB1564, this bill should allow for the temporary, non-hardened protection of highways and other public infrastructures, yet it should also require that they be moved inland as soon as possible. Maui's Pre-Disaster Mitigation and Management Plan should be a good guide for this bill to make sure there are solid plans in place before a natural disaster occurs.

I would also suggest that the bill create a revolving fund to help homeowners move back from the ocean, or at least elevate their houses onto posts, and include measure to preserve our beaches by allowing them to move inland as they erode. Our beaches are the best defense against climate change, sea level rise and the increasing threat from major storms and hurricanes.

Mahalo for your consideration of this bill and leadership in helping Honolulu to prepare for the effects of climate change and sea level rise.

Aloha,  
Stuart Coleman  
Stuart H. Coleman, Hawaii Manager

**LATE**



Statement of Lei of Parks Coalition  
Before the  
**Senate Committee on Water and Land and  
Senate Committee on Agriculture and Environment**  
Friday, March 15, 2019, 3:00 PM  
State Capitol, Conference Room 224  
In consideration of  
**HB 1487, HD1**

To Chair Kahele, Vice Chair Keith-Araran, Members of the Senate Committee on Water and Land, Chair Gabbard, Vice Chair Ruderman, and the Members of the Senate Committee on Agriculture and Environment,

The Lei of Parks Coalition is a group of nonprofit and advocacy groups who support the long held belief that a connected lei of green that links Honolulu's shoreline, green parks, open space, recreation areas, and greenways, interconnected with tree-lined multi-use paths, would greatly benefit the residents of Honolulu, residents of the State, and visitors. In addition, we believe it will support our ability to be resilient in the face of a changing climate, offering shoreline protection to help prevent flooding and damage to our infrastructure and livelihoods.

We appreciate the opportunity to comment on this draft legislation, as we have been working on a similar proposal for over three years, as an organized coalition. Our focus has been on connecting our parks and destinations through a greenway that would include green infrastructure and design. The concept of mitigation and adaptation has long been a component of this concept. We are happy to share our work to date, including an existing conditions report, a GIS story map, as well as a number of outreach events to develop support for the concept. We support the changes that include the development of a plan, as there will be a number of issues to resolve, including a lead agency for implementation. We have found that there is a strong need for the selection of a government agency who would have the authority and funding to work across jurisdictions to make this concept a reality. The Hawaii Climate Change Mitigation and Adaption Commission, in coordination with the City and County of Honolulu Office of Climate Change and Resiliency, as the entity to oversee the development of the plan, can accomplish this. However, we believe that the State Office of Planning should also be involved, as there is a need for an agency that can have the authority to implement such a project. In addition, there is existing draft legislation (SB 1287) that looks at a similar concept, that is proposed to be led by the State Office of Planning. It is important that both proposals work together to support the overall concept. If this is to lead to a statewide effort, there needs to be an entity to lead the effort and collaborate with other jurisdictions.

Greenways with green infrastructure create solutions for many issues we are currently facing. Greenways provide a safe place for people to walk and bike safely and use it as alternative transportation; they reduce vehicle miles traveled and our carbon footprint. Greenways can be designed to buffer and mitigate flooding and storm surges and they support our goals for a 100% renewable energy future and our ability to be resilient in the face of increases in storms, sea level rise, and other natural hazards. We support this effort. Thank you for the opportunity to comment.

**LATE**

**HB-1487-HD-1**

Submitted on: 3/15/2019 4:19:50 AM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
League of Women Voters of Hawaii	Testifying for League of Women Voters of Hawaii	Support	No

Comments:

**HB-1487-HD-1**

Submitted on: 3/12/2019 1:22:30 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Nancy Davlantes	Individual	Support	No

Comments:



**HB-1487-HD-1**

Submitted on: 3/12/2019 1:23:19 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Erica Scott	Individual	Support	No

Comments:

**HB-1487-HD-1**

Submitted on: 3/13/2019 8:00:46 AM

Testimony for AEN on 3/15/2019 3:00:00 PM

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

Comments:

**HB-1487-HD-1**

Submitted on: 3/13/2019 3:51:26 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Greg Puppione	Individual	Support	No

Comments:

I support this bill. Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. Policy and permitting decisions with long-term effects related to sea level rise are happening now, including approvals of structures with long life spans, siting of utilities and other capital improvements, and other actions with long-range consequences. We need to be incorporating sea level rise projections into our state plans, avoiding construction within hazardous coastal areas to protect our beaches, and supporting innovative solutions to address climate change.

**HB-1487-HD-1**

Submitted on: 3/13/2019 3:58:56 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
B.A. McClintock	Individual	Support	No

Comments:

I support this bill. Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. Policy and permitting decisions with long-term effects related to sea level rise are happening now, including approvals of structures with long life spans, siting of utilities and other capital improvements, and other actions with long-range consequences. We need to be incorporating sea level rise projections into our state plans, avoiding construction within hazardous coastal areas to protect our beaches, and supporting innovative solutions to address climate change.

**HB-1487-HD-1**

Submitted on: 3/13/2019 4:11:46 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Cheryl Reeser	Individual	Support	No

Comments:

I support this bill. Climate Change impacts, especially sea level rise, will impact everyone in Hawaii and will be devastating if we don't address it now.

**HB-1487-HD-1**

Submitted on: 3/13/2019 4:15:44 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Tom Eisen	Individual	Support	No

Comments:

**HB-1487-HD-1**

Submitted on: 3/13/2019 4:21:32 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Ashley Wilcox	Individual	Support	No

Comments:

I support this bill. Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. Policy and permitting decisions with long-term effects related to sea level rise are happening now, including approvals of structures with long life spans, siting of utilities and other capital improvements, and other actions with long-range consequences. We need to be incorporating sea level rise projections into our state plans, avoiding construction within hazardous coastal areas to protect our beaches, and supporting innovative solutions to address climate change.

**HB-1487-HD-1**

Submitted on: 3/13/2019 4:39:32 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Sandra Fujita	Individual	Support	No

Comments:

I support this bill. Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. Policy and permitting decisions with long-term effects related to sea level rise are happening now, including approvals of structures with long life spans, siting of utilities and other capital improvements, and other actions with long-range consequences. We need to be incorporating sea level rise projections into our state plans, avoiding construction within hazardous coastal areas to protect our beaches, and supporting innovative solutions to address climate change



**HB-1487-HD-1**

Submitted on: 3/13/2019 4:57:42 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Denise Boisvert	Individual	Support	No

Comments:

I support this bill - - especially because we live on an island!

Please support it as well.

**HB-1487-HD-1**

Submitted on: 3/13/2019 5:04:12 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Dyson Chee	Individual	Support	No

Comments:

**HB-1487-HD-1**

Submitted on: 3/13/2019 5:09:55 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Lois Crozer	Individual	Support	No

Comments:

**HB-1487-HD-1**

Submitted on: 3/13/2019 5:20:05 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Ted Bohlen	Individual	Support	No

Comments:

**HB-1487-HD-1**

Submitted on: 3/13/2019 6:12:45 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
L.M. Holmes	Individual	Support	No

Comments:

I support this bill. Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. Policy and permitting decisions with long-term effects related to sea level rise are happening now, including approvals of structures with long life spans, siting of utilities and other capital improvements, and other actions with long-range consequences. We need to be incorporating sea level rise projections into our state plans, avoiding construction within hazardous coastal areas to protect our beaches, and supporting innovative solutions to address climate change. Dr. L.M. Holmes, Honolulu 96817

**HB-1487-HD-1**

Submitted on: 3/13/2019 7:07:30 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Emily Garland	Individual	Support	No

Comments:

I support this bill. Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. Policy and permitting decisions with long-term effects related to sea level rise are happening now, including approvals of structures with long life spans, siting of utilities and other capital improvements, and other actions with long-range consequences. We need to be incorporating sea level rise projections into our state plans, avoiding construction within hazardous coastal areas to protect our beaches, and supporting innovative solutions to address climate change.

**HB-1487-HD-1**

Submitted on: 3/14/2019 7:31:42 AM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Jeffrey Bronfman	Individual	Support	No

Comments:

I support this bill. Climate change is a reality we are seeing here in the Pacific Islands we need to plan for. We cannot afford to be in denial or foolish. Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. Policy and permitting decisions with long-term effects related to sea level rise are happening now, including approvals of structures with long life spans, siting of utilities and other capital improvements, and other actions with long-range consequences. We need to be incorporating sea level rise projections into our state plans, avoiding construction within hazardous coastal areas to protect our beaches, and supporting innovative solutions to address climate change.

**HB-1487-HD-1**

Submitted on: 3/14/2019 7:44:47 AM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Kim Jorgensen	Individual	Support	No

Comments:

I strongly support this bill because I don't own a boat!



**HB-1487-HD-1**

Submitted on: 3/14/2019 10:40:13 AM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Dylan Takemoto	Individual	Support	No

Comments:

I strongly support HB1487.

It is very imperative this bill moves for and supporting our community in not only economic loss prevention mechanisms but also for generations to come. As a young member of our community we are stakeholders in these type of decisions and needs to encourage our peers to become more aware of the impact of climate change and sea level rising.

With the global change and constant sea level rising, we believe this type of project to raise the current infrastructure in the urban areas could allow communities to prosper safely.

Mahalo

Dylan

**HB-1487-HD-1**

Submitted on: 3/14/2019 3:40:55 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Andrea Quinn	Individual	Support	No

Comments:

Dear Honorable Committee Members:

Please support HB1487. Valuable coastline is eroding due to sea level rise and coral reefs are dying due to climate change, with our reefs already virtual deserts.

Climate change is already occurring. We need to be a leader in legislation to mitigate global warming.

Thank you for the opportunity to present my testimony.

Andrea Quinn

Kihei

**HB-1487-HD-1**

Submitted on: 3/14/2019 3:59:44 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
James McCay	Individual	Support	No

Comments:

Strong support and KUDOS to Reps Lee & Lowen for introducing what simply must be done to address the increasingly dire issues around climate change.

MAHALO!  
James  
HNL 96815

**LATE**

**HB-1487-HD-1**

Submitted on: 3/14/2019 4:31:31 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Marilyn Mick	Individual	Support	No

Comments:

I support this bill. Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. Policy and permitting decisions with long-term effects related to sea level rise are happening now, including approvals of structures with long life spans, siting of utilities and other capital improvements, and other actions with long-range consequences. We need to be incorporating sea level rise projections into our state plans, avoiding construction within hazardous coastal areas to protect our beaches, and supporting innovative solutions to address climate change.

**LATE**

**HB-1487-HD-1**

Submitted on: 3/14/2019 11:34:44 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Barbara L. George	Individual	Support	No

Comments:

SUPPORT. Climate Change impacts, especially sea level rise, create a new type of coastal hazard affecting coastal areas now and increasingly in the future. Policy and permitting decisions with long-term effects related to sea level rise are happening now, including approvals of structures with long life spans, siting of utilities and other capital improvements, and other actions with long-range consequences. NOW, we must incorporate sea level rise projections into our state plans, avoid construction within hazardous coastal areas to protect our beaches, and support innovative solutions to address climate change.

**LATE**

**HB-1487-HD-1**

Submitted on: 3/15/2019 2:58:46 PM

Testimony for AEN on 3/15/2019 3:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Nicole Chatterson	Individual	Support	No

Comments: