Hawai‘i Interagency Climate Adaptation Committee Handbook
Background

Climate change is anticipated to have profound effects in the Hawaii Islands [1]. Increasing air temperature, decreasing trade winds, overall decline in rainfall, decreasing stream base flow, increasing sea surface temperatures, increasing ocean acidity, and rising sea level pose significant threats to our social and economic wellbeing. Mitigating the effects of climate change will require immediate and unprecedented levels of intergovernmental cooperation amongst world governments to reduce greenhouse gas (GHG) emissions. In the meantime, it is imperative that governments take immediate and unprecedented steps to prepare for climate change, given that changes are already being observed.

In Hawaii, climate change has the potential to profoundly impact our wellbeing and way of life. The warming of the oceans and land will change our coastal and nearshore marine areas; watersheds may become less productive and less diverse, and public health will generally suffer from the combination of these changes. In particular, rising sea levels will increase the occurrence and severity of coastal erosion and flooding, threatening natural resources and economic sectors concentrated along low-lying shores.

In 2014, the Hawaii State legislature declared, through the passage of the Hawaii Climate Adaptation Initiative Act (Act 83, Session Laws of Hawaii) that climate change is the paramount challenge of this century, posing both an urgent and long-term threat to the State’s economy, sustainability, security, and way of life. The purpose of the Hawaii Climate Adaptation Initiative Act is to address the effects of climate change in order to protect the State’s economy, health, environment, and way of life. Act 83 notes that, "Hawaii is one of the few coastal states that has not adopted a statewide climate adaptation plan, yet is among the most vulnerable." Act 83 calls for the establishment of an Interagency Climate Adaptation Committee (ICAC), attached administratively to the Hawaii Department of Land and Natural Resources (DLNR) and co-chaired by the Board of Land and Natural Resources (BLNR) and the director of the Hawaii Office of Planning (OP).

The first task of the ICAC is to develop a statewide Sea Level Rise Vulnerability Assessment and Adaptation Report (SLR Report) by December 31, 2017. According to the Intergovernmental Panel on Climate Change, Assessment Report 5, at the current rate of greenhouse gas production, global mean sea level is likely to rise a mean of 1 foot by mid-century and over 2 feet by the end of the century[2]. Hawaii and other central Pacific islands are expected to experience significantly greater-than-average sea-level rise [3]. The consequences of sea level rise for Hawaii are severe compared to many other coastal states, as the majority of our population and public infrastructure exist on low-lying coastal plains which are highly susceptible to coastal hazards. The DLNR Office of Conservation and Coastal Lands (OCCL) will lead the development of the SLR Report in coordination with the ICAC. The SLR Report will serve as a framework for the State and ICAC to address other climate-related threats and climate change adaptation priorities, ultimately leading to a Climate Adaptation Plan for the State of Hawaii, which will be prepared by the OP.
Purpose and Use of the Handbook

This Handbook describes the goals and objectives, membership, and the roles and responsibilities of the ICAC. It is intended as a working document that can be updated and revised as needed to document the process and procedures used by the ICAC for this initial SLR phase of their work and to provide a foundation for future efforts to develop a statewide adaptation plan.

Committee Goals, Objectives, and Approach

The overarching goal of the ICAC is to plan for and address the effects of climate change in order to protect the State’s economy, health, environment, and way of life. Over the next three years (2015 – 2017), the ICAC has been directed to focus on climate impacts related to sea level rise. To achieve this goal, the ICAC will: (1) develop, update, and use knowledge of climate risk to recommend improvements to policies, programs, projects, and business practices that reduce risk, and (2) to work effectively together, sharing information and data and developing innovative sector-specific and cross-cutting recommendations to adapt in a changing climate.

The entities of the ICAC are committed to work collaboratively to achieve results they are more likely to achieve together than alone. Adopting a collaborative approach changes the way we work:

- from competing to building consensus;
- from working alone to including others from a diversity of cultures, fields, and sectors;
- from focusing on single sector activities, services, and programs to integrating multisectoral strategies and results; and
- from addressing short-term needs to affecting large scale changes in policies, programs, and institutions.
Committee Membership

ICAC membership shall include a primary and alternate member. As mandated by Act 83, the ICAC shall include the following members (or their designees):

- Chairs of the standing committees of the legislature with related subject matter jurisdiction;
- Chairperson of the Board of Land and Natural Resources (co-chair);
- Director of the Office of Planning (co-chair);
- Director of Business, Economic Development, and Tourism;
- Chairperson of the Hawai‘i Tourism Authority Board of Directors;
- Chairperson of the Board of Agriculture;
- Chief Executive Officer of the Office of Hawaiian Affairs;
- Chairperson of the Hawaiian Homes Commission;
- Director of Transportation;
- Director of Health;
- Adjutant General;
- Chairperson of the Board of Education;
- Directors of the County Planning Departments; and,
- Manager of the Coastal Zone Management Program.

Each primary ICAC member shall designate an official alternate representative. This alternate member may participate fully in meetings if the primary Committee member is unable to attend. Names and contact information for committee members and alternates will be updated as Appendix 1. The primary Committee member shall ensure that his/her alternate is kept apprised of relevant issues.

In addition to those members officially designated in Act 83, the chairs of the committee may request the participation or input of members of the public; experts in the field; and county, state, or federal officials necessary for the formulation of the report.

Work groups of the ICAC may be established as needed to engage in specific tasks. Workgroups will be comprised of both selected Committee members and subject matter experts not otherwise involved in the Committee. The primary role of the Workgroups will be to thoroughly research, discuss and provide recommendations for specific issues identified by the ICAC.

Member Roles and Responsibilities

The ICAC members (and their alternates) will provide input over the short-term on the development of the SLR Report and over the long-term on the development and implementation of a statewide climate adaptation plan. ICAC members (and their alternates) shall:

- Define the goals of the ICAC;
- Represent, to the best of their ability, the interests and opinions of the agency, organization or constituent group which they represent;
- Regularly attend and participate in Committee meetings and webinars;
• Communicate and consult regularly with the organizations and constituent groups which they represent to ensure that the SLR Report meets the diverse needs and interests of all those involved;
• Share information regarding initiatives and projects that may affect the SLR Report and other impacts of climate change adaptation;
• Provide information and data that may be needed for the vulnerability assessment (VA)/socioeconomic impact (SEI) analysis; and
• Review and come to consensus upon recommendations to be included in the SLR Report and action to address other impacts of climate change.

The DLNR will serve as co-chair to the ICAC. Specific responsibilities include:

• Provide management oversight and technical direction of subcontractors (UH SOEST and Tetra Tech) for the development of the SLR Report;
• Provide planning and facilitation support for meetings of the ICAC and workgroups;
• Provide technical and policy advice for meetings and plan development;
• Ensure comments, concerns and recommendations of the ICAC are represented in planning products;
• Provide adequate staff resources for drafting documents; and
• Ensure adequate time to ICAC members to review and comment on information, recommendations and documents;

The Office of Planning will serve as co-chair to the ICAC. Specific responsibilities include:

• Provide planning and facilitation support for meetings of the ICAC and workgroups;
• Provide outreach and education to stakeholder organizations and other interested parties.

The work of the ICAC will be achieved through quarterly meetings and agency-specific work such as information gathering or document review before or after each meeting. The ICAC will establish and update as needed a working agenda for quarterly meetings and other events needed to achieve the Committee goals and objectives.

**Committee Tasks**

The first phase of work of the ICAC is to develop the SLR Report by December 2017. The SLR Report will expand upon ongoing collaborations with the University of Hawai‘i School of Ocean and Earth Science and Technology (UH SOEST), the University of Hawai‘i Sea Grant College Program (UH Sea Grant), the Pacific Islands Ocean Observing System (PACIOOS), and the Pacific Islands Climate Change Cooperative (PICCC). SOEST data and mapping products will provide a basis for further analysis of vulnerabilities, socioeconomic ramifications, and recommendations for planning, management and adaptation to reduce vulnerability and increase resilience to SLR hazards. In addition, OCCL has contracted Tetra Tech, Inc. to assist with ICAC coordination and stakeholder engagement, conduct the vulnerability assessment and socioeconomic impact analysis, and assist the ICAC in preparing the SLR Report. Major milestones of this SLR phase are shown in Figure 1.
The ICAC working agenda for June 2015 – December 2017 is provided in Appendix 2 highlighting key objectives, inputs, decisions, and outputs of each meeting. This agenda will be reviewed and revised as needed at each quarterly meeting as part of an adaptive management process for achieving the Committee goals and objectives. Ground rules for ICAC meetings are provided in Appendix 3.
### Appendix 1. Interagency Climate Adaptation Committee Member List

<table>
<thead>
<tr>
<th>NAME</th>
<th>AGENCY/ORGANIZATION</th>
<th>NAME OF ALTERNATE</th>
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<tbody>
<tr>
<td>Suzanne Case, Co-Chair</td>
<td>Department of Land &amp; Natural Resources</td>
<td>Sam Lemmo</td>
</tr>
<tr>
<td>Leo Asuncion, Co-Chair</td>
<td>Dept. of Business, Economic Development, &amp; Tourism/Office of Planning/CZM</td>
<td>TBD</td>
</tr>
<tr>
<td>Senator Laura Thielen</td>
<td>Senate</td>
<td>Jennifer Barra</td>
</tr>
<tr>
<td>Senator Mike Gabbard</td>
<td>Senate</td>
<td>Meg Turner</td>
</tr>
<tr>
<td>Rep. Chris Lee</td>
<td>House of Representatives</td>
<td></td>
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<tr>
<td>Rep. Ryan Yamane</td>
<td>House of Representatives</td>
<td>Danielle Bass</td>
</tr>
<tr>
<td>Phyllis Shimabukuro-Geiser</td>
<td>Department of Agriculture</td>
<td>Brian Kau</td>
</tr>
<tr>
<td>David Brentlinger</td>
<td>Department of Defense</td>
<td>Tiffany Petersen</td>
</tr>
<tr>
<td>Duane Kashiwai</td>
<td>Department of Education</td>
<td>Ken Masden</td>
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<tr>
<td>Nancy McPherson</td>
<td>Department of Hawaiian Home Lands</td>
<td>Kaleo Manuel</td>
</tr>
<tr>
<td>Laura McIntyre</td>
<td>Department of Health</td>
<td>Dr. Keith Kawaoka</td>
</tr>
<tr>
<td>Jessica Wooley</td>
<td>DOH, Office of Environmental Quality Control</td>
<td>Thomas Eisen</td>
</tr>
<tr>
<td>Jade Butay</td>
<td>Department of Transportation</td>
<td>David Rodriguez</td>
</tr>
<tr>
<td>Keli Wilson</td>
<td>Hawaii Tourism Authority</td>
<td>TBD</td>
</tr>
<tr>
<td>Keola Lindsey</td>
<td>Office of Hawaiian Affairs</td>
<td>TBD</td>
</tr>
<tr>
<td>George Atta</td>
<td>City and County of Honolulu, Department of Planning and Permitting</td>
<td>Bob Stanfield</td>
</tr>
<tr>
<td>April Surpreranant</td>
<td>County of Hawai‘i Planning Department</td>
<td>Bethany Morrison</td>
</tr>
<tr>
<td>Mike Dahilig</td>
<td>County of Kauai Planning Department</td>
<td>Jody Galinato</td>
</tr>
<tr>
<td>Jeff Dack</td>
<td>County of Maui Planning Department</td>
<td>Pam Pogue</td>
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# Appendix 2. Interagency Climate Adaptation Committee Working Agenda (2015 –2017)

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Activity</th>
<th>Objectives</th>
<th>Inputs</th>
<th>Decisions</th>
<th>Outputs</th>
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| 2015 | June 3      | Meeting                       | • Review mandate established by Act 83  
• Review tasks and schedule to achieve mandate  
• Review and provide comments on draft ICAC Handbook (goal, roles, responsibilities, and procedures of ICAC)  
• Review and provide comments on illustrative ICAC agenda | Draft ICAC Handbook                   |                                                 |                                                     |
|      | September 22| Meeting                       | • Introduce SLR modeling and viewer  
• Review Project Work Plan with VA/SEI analysis methodology | Draft final ICAC Handbook  
Draft Project Work Plan | Approval of ICAC Handbook                   | ICAC Handbook  
Project Work Plan  
Completed survey |
|      | February 1st week | Climate Science Seminar | • Present latest climate science and projections | Presentations by climate scientists |                                                 |                                                     |
|      | March       | State-wide Public Listening Session | • Conduct webinar to provide overview and status of ICAC efforts  
• Solicit public views and concerns | Presentation |                                                 | Webinar recorded and posted on DLNR website  
Public views and concerns documented |
|      | June        | Meeting                       | • Review and update as necessary ICAC Handbook | Draft sections |                                                 |                                                     |
|      | September   | Meeting                       | • Review selected sections of the Report | 50% draft report  
Approval of draft recommendations |                                                 |                                                     |
| 2017 | January     | Meeting                       | • Review 50% draft Report  
• Develop consensus on comments and edits needed | Webinar recorded and posted on DLNR website  
Public views and concerns documented |                                                 |                                                     |
|      | April       | State-wide Public Listening Session | • Conduct webinar to provide status of ICAC efforts  
• Solicit public views and concerns | 50% draft report  
Approval of draft recommendations |                                                 |                                                     |
|      | July        | Meeting                       | • Review 90% draft Report | Approval of final recommendations |                                                 |                                                     |
Appendix 3: ICAC Meeting Ground Rules

- Each Committee member participates
- Members are forthcoming with information and opinions
- Dissenting opinions are valued and respected
- Members listen to ideas without judging
- One person speaks at a time
- Members will not participate in side bar conversations
- Meetings and breaks start and end on time
- Cell phones are set on silent or vibrate
- Unanswered questions will be placed in “parking lot” and will be followed up on at the next meeting
References

