**Hawai‘i Interagency Climate Adaptation Committee Meeting**

**January 26th, 2016**

**1:00 – 4:00 PM**

**AGENDA**

1. **Open Meeting**
2. **2016 Legislative update (Rep. Yamane) -***Postponed*
3. **Progress on the Climate Adaptation Stories (Tetra Tech)**
4. **Tetra Tech Work Plan and Pilot Test – Vulnerability Assessment-Socioeconomic Impact Analysis Methodology (Tetra Tech presentation and ICAC discussion and feedback)**
5. **Break**
6. **COP 21 Paris Update (Dr. Anukriti Hittle)**
7. **Draft SLR Report Outline (ICAC discussion and feedback)**
8. **Overview of Upcoming SLR Workshop**
9. **Adaptive Management: ICAC Agenda**

**The meeting was opened by Mr. Sam Lemmo (Hawai‘i Department of Land and Natural Resources (DLNR), ICAC Co-chair)**. Attendees introduced themselves. The Work Plan was distributed. Mr. Lemmo explained that adaptive capacity would be a main point of interest in the meeting and the topic of stakeholders would be discussed. He also noted that last year, DLNR and Tetra Tech presented the Work Plan to Senior Managers at Honolulu City and County Department of Planning and Permitting and will be presenting to the State Emergency Management Authority the following week so Mr. Lemmo would like to explore continuing outreach and partnerships such as these.

**Tetra Tech (Ms. Ali Andrews) presented an update of the Sea Level Rise Adaptation Stories**, of which 4 are complete and 5 are in progress. The story lines and key messages from the completed stories were presented and more stories were solicited from other interested committee members or meeting attendees.

**Tetra Tech (Dr. Kitty Courtney and Mr. Bill Bohn) presented on the methodology for risk assessment, showing a pilot study for Ewa Beach** with impacts from flooding, inundation, and erosion, and the associate monetary losses. They also showed socio-economic factors of population affected including age, race, and income, which combined into the social risk index. Environmental and Economic Risk Indices were also shown for the pilot site.

**Discussion**

*Is this information going to be given to the committee for review?* Tetra Tech can provide the presented PowerPoint or other products.

*Honolulu City and County is concerned that this level of analysis is overwhelming for the purpose of the ICAC recommendations to the legislature. DPP will be looking to Chip Fletcher at UH SOEST’s analysis for maps to adopt but does not see the need for socioeconomic analysis. They would rather see the money spent on outreach.*

*Representative Lee agrees that more outreach* *is necessary but says that more information on economic impact is useful for the purposes of the legislature to merit further action.*

*Does the waste water include cesspools?* Yes, if data is provided from the counties, cesspools can be included in the analysis.

*What is the source of the data? Census or County real property?* The data comes from real property data from counties. *Census blocks can be inaccurate on outer islands.* Tetra Tech is looking at the number of homes affected and then looking at average demographics in the census block. *Even at that level, Census data can have margins of error as large as the population count itself and racial data can be hard to interpret. POMS Data could be helpful for that.*

*What is the difference between inundation and flooding?* Inundation is permanent and flooding is temporary.

*County of Maui* *is looking at how information in ICAC report can help their work. Information at the parcel level is useful. Is RCP 8.5 the only RCP considered? Is it possible to be flexible in RCPs? Will we be able to take the information that is provided?* Mr. Lemmo would like to talk to Chip Fletcher about flexibility of RCPs. He would like to note that though RCP 8.5 is the highest RCP for IPCC, it corresponds to 3.2 feet of sea level rise by 2100, which is still relatively conservative.

*RCP 8.5 is lower than the projections adopted by the Army Corp, which assumes Iceland and Greenland melt completely.*

**BREAK**

**Mrs. Anukriti Hittle gave an overview of the outcomes of the Conference of the Parties (COP) 21 in Paris.** The major outcomes include that the parties agreed upon keeping global warming beneath 2°C and *all* countries pledged to contribute to reducing carbon emissions. Small Island States were able to negotiate that the document reference but not agree upon 1.5°C warming, which is a more ideal temperature cap, and additionally $100 billion was promised to the Green Climate Fund. Once ratified by all nations over the next year, the treaty will come into force in 2020.

**Discussion**

*Do you have a report you could share?* Mrs. Hittle has written some papers and would be happy to share. *What is your website?* pages.wustl.edu/anukritihittle

**Tetra Tech explained the outline of the Sea Level Rise Report** including a call for action, global and local sea level rise projections, vulnerabilities and case studies, recommended strategic framework and tools, and methodology, assumptions, and results (appendices).

**Discussion**

*“Diving deeper,” the appendices, could reference where to find datasets produced by and used in study.* Dr. Courtney agreed.

More comments will be welcome later once committee members have time to review the outline.

**Mr. Lemmo gave the overview of the agenda of the Sea Level Rise Workshop. Dr. Courtney gave an overview of the second half of the day in workshops** including role playing, considering specific locations, and creating a message and recommendation framework.

**Discussion**

*Will this be open to the public?* Yes.

*Will you have supplemental information such as, what is OCCL, provided to participants?* In the roles, there will be some information about the different agencies involved.

*Who is the primary audience?* DLNR first reached out to ICAC members, then reached out to agencies, and counties – not only planning but other departments such as Public Works – and then we broke it out to public and federal entities. DLNR will also be pushing it out on the news.

*Can you send an official invitation to Major’s office?* Yes, DLNR will send official invitations to Mayors and copy the Directors of the Planning Department and the alternates.

**Mr. Lemmo explained some of the links on the website and recommended that committee members visit it at** [**http://climateadaptation.hawaii.gov/**](http://climateadaptation.hawaii.gov/)**.**

**Discussion**

*There are many companies working on climate change in the private sector on island. Are there ways that we can get their expertise in the room?* Yes, the statute says the ICAC can invite new entities to meetings but the committee will at some point reach its capacity to manage new ideas. Maybe we could bring them in for guest talks at the meetings.

*There was a request for Scott Glen to engage those entities.* Yes, Mr. Glen will talk to the American Planning Association of Planning and send interested parties to Dr. Courtney.

*There was a suggestion that the ICAC invite Gary Chock to talk about his recommendations.* We will explore opportunities to invite guest speakers to ICAC meetings as well as use other forums such as the Pacific Resiliency Forums to host a webinar.

*It would also be productive to invite in the people who would oppose sea level rise adaptation efforts to anticipate what opposition there is.*  That is a good idea and we would like to consider them. We hope to reach some more of the public through the sea level rise workshop.

*It sounds like the workshop was aimed mainly at agencies so it would be productive to include more of the public, including developers, landowners, and others.*

Mr. Lemmo explained there is new legislation this year proposing requiring real estate packets be given out, which will be contentious. Hawai‘i is a visitor-based economy so this kind of information for out of state developers and others is important.

*What is the state listening session proposed in the Tetra Tech Work Plan?* It is a webinar, which has yet to be outlined specifically. *A webinar doesn’t provide the same opportunity for conversation.*

*There was a suggestion to include private sector adaptation stories.* Yes, we would be open to that.

*The ICAC could travel to county councils – because those are public forums.* That is a good suggestion, given budget allowances.

*There is a continuum from an individual native Hawaiian on the coastline to multi-national corporations and we should be engaging that spectrum.*

*Kauai is running Hawai‘i Congress of Planning Officials (HCPO) this year, so the Kauaʻi County representative to the ICAC will run it by her supervisor to add ICAC to the agenda.* That would be great. Everyone here at this meeting is part of the committee so if you see opportunities to engage the community further, please do.

The next ICAC meeting is scheduled for June, should we have one sooner? A consensus was reached that May would be a good date.

The ICAC is also having a session in the Pacific Risk Management Ohana (PRiMO) Annual Conference this March, so that could be an opportunity to discuss further with other stakeholders.

Additionally the IUCN World Conservation Congress will be held in September 2016 in Honolulu.

**Open to Public Comment**

Dave Helweg (Federal Director, Pacific Islands Climate Science Center): *Dr. Helweg applauds the committee for the February meeting, and for starting the dialogue. The way that people get their information in the Pacific is each other, so this is a good place to start. Additionally, Dr. Helweg suggests considering having experienced facilitators at the SLR workshop in February.*

Ben Reder (NOAA): *Mr. Reder suggests putting the stories in the meat of the report because they are more easily read than the data. Additionally, he asks what scale are the recommendations that this group working at? That would inform the next steps of the ICAC and who they engage with.*

Mr. Stanfield (DPP): *The ICAC should be concerned with the parcel level and bring the wide scope down to specific codes*.

Dr Helweg: *Is the committee stood up to deal with specifically sea level rise or are you tasked with other aspects of climate change?*

Mr. Lemmo: We wanted the legislators to ask the committee to focus on sea level for the first couple of years so we could make tangible progress here. The committee will continue on to deal with freshwater, health, ocean acidification, storms, etc. We wanted to be able to deliver a product at first.

Dr. Helweg: *PICSC has $500,000 to $1 million in research grants and could potentially use some of that money for research to inform the committee in the future.*

Mr. Lemmo: Thank you for that comment. That would be helpful for the future, once the committee has proven its usefulness and credibility.

Dr. Courtney asked meeting attendees to send any story ideas to Lauren Yasaka, who will forward them to Tetra Tech.

**IDEAS FOR FURTHER COMMITTEE CONSIDERATION**

* Consider increasing public outreach events
* Consider having more than 2 more meetings in 2016 to accommodate more guest speakers
* Consider engaging more entities from the private sector, such as APA
* Consider moving stories up in SLR Report, as well as including them in the appendix
* PICSC offers an opportunity to share resources for research