

# **NPFMC Crab Modeling Workshop**

January 14-17, 2014

Hilton Hotel, Anchorage, AK

## **Background**

The North Pacific Fishery Management Council is sponsoring a technical crab modeling workshop to provide feedback to on issues associated with model development, for the developing generic crab model by application to the Bristol Bay and Norton Sound red king crab assessment results. The goal is to provide an opportunity to have constructive deliberations on assessment approaches and data analysis prior to SSC and subsequent Crab Plan Team (CPT) review later in the spring.

## ***Format***

Discussion of these models will be limited to the technical aspects of developing the models. This meeting will be open to the public. The workshop will be conducted in a manner consistent with the format of Council Plan Teams. André Punt (UW) will Chair the meeting and together with Diana Stram (Council staff) will prepare the meeting report and recommendations of the invited participants. The Chair will allow public input following discussion and comments from invited participants to the extent possible. Consensus recommendations of the participants will be reflected in the meeting report. Non-consensus recommendations will be reflected to the extent possible in the discussion of the meeting report.

The format of the assessment review is intended to be a split-format review of both models. Model documentation must be provided at least 2 weeks in advance of the meeting (no later than XXX), with the authors expected to come to the meeting with a series of scenarios and questions for consideration at the workshop. Model code will also be provided to a sub-set of the participants as identified by the Chair at the same time as the model documentation. Models are intended to be run real-time during the meeting to best facilitate feedback and problem-solving during the workshop week.

## ***Topics***

1. Overview of generic model formulation
2. Application of generic model to BBRKC stock and comparison with assessment results
3. NSRKC model and issues related to 2013 specifications
4. Application of generic model to NSRKC stock and comparison with assessment results
5. Process for developing a library of stock assessment routines / updating and modifying the generic models
6. Data for use in crab assessments: survey calculations of biomass estimates and how other data sources are assembled for use in assessments
7. Priorities for next steps in model development

## ***Participants***

Participants will include members of the Council's CPT and SSC, and additional experts. The meeting is open to the public.

### **Draft Agenda (note all start times at 9am):**

Tues 14<sup>th</sup> 9am -12pm – overview/intro and objectives; generic model overview

Tues 14<sup>th</sup> 1-3pm – application of generic model to BBRKC (including identification of additional scenarios / code modifications)

Wed 14<sup>th</sup> 3-5pm- NSRKC overview of revised assessment results per 2013/14 specifications and retrospective issues

Wed 15<sup>th</sup> 9-10.30m – report back on alternative scenarios for BBRKC (including identification of additional scenarios / code modifications)

Wed 15<sup>th</sup> 10.30-12pm – application of generic model to NSRKC (including identification of additional scenarios / code modifications)

Wed 15<sup>th</sup> 1-2pm- report back on NSRKC requests

Wed 15<sup>th</sup> 2-5pm- Data for use in crab assessments: survey calculations of biomass estimates (Foy, Andre, Buck, others)

Thurs 16<sup>th</sup> 9am-12pm -continue work/discussion of NSRKC/BBRKC application/results;

Thurs 16<sup>th</sup> 1-3pm – Data for use in crab assessments: How data are assembled for use in assessments (Andre, Buck, others?).

Thurs 16<sup>th</sup> 4pm - continue work/discussion of NSRKC/BBRKC application/results; draft recommendations on moving forward

Fri 17<sup>th</sup> 9-10.30am - continue work/discussion of NSRKC/BBRKC application

Fri 17<sup>th</sup> 10.30am- Review main workshop recommendations; adjourn by 2pm