

# Ecosystem and Socioeconomic Profile (ESP) Model Workshop

## 3/10/2020 – 3/12/2020, Royce/Traynor Room

### Location Details:

Royce Room 131 (Library), Ted Stevens Marine Research Institute, 17109 Pt Lena Loop Rd, Juneau, AK  
Remote Site: Traynor Room 2076, Building 4, 2nd Floor - 7600 Sand Point Way NE, Seattle, WA

### Webex Details:

**Meeting password:** ESP123

**Meeting number:** 906 830 321

**Meeting passcode:** 8480290

**Join by Phone:** 1 888-456-5038

#### Meeting Link:

<https://noaanmfs-meets.webex.com/noaanmfs-meets/j.php?MTID=m7743bde7004c13f1a8a615a9e6c1042d>

### Workshop Materials:

Links to workshop materials: [ESP Workshop Proposal](#), [ESP Data List](#), [2019 ESP Data Workshop Materials](#), ESP Workshop Survey, workshop minutes, draft workshop report

### Workshop Goals:

Primary goals to accomplish at this workshop:

- ★ Review ESP framework, current and new priority ESPs, data accessibility for ESPs, and Council recommendations regarding improving ESPs and use in management decisions
- ★ Discuss and generate guidelines for ESP modeling applications from simple indicator development and analysis to advanced multi-species, climate-enhanced models
- ★ Foster communication and collaboration between programs and discuss the process for ESP contributions, timeline, and avenues for improvement
- ★ Review 1st workshop report, outline 2nd workshop report, and prepare both for producing technical memorandum series

## Agenda:

In the following agenda, guideline times are listed for each topic. The values in parentheses following the topic title are the estimated time for presentation followed by time for questions and/or discussion relating to the topic (e.g., (5/5) means five minutes presenting, five minutes questions/discussion).

### *Day 1 Afternoon 3/10/2020, 12 pm start (Alaska Standard Time)- ESP Update*

- **12:00 - 12:15** Review of ESP Workshop proposal, goals – Kalei Shotwell (10/5)
  1. Introductions, review agenda, workshop materials, workshop survey
  2. Review rapporteur/time manager list, discussion and polling sessions
- **12:15 - 12:30** ESP Review, Update, Council Feedback – Kalei Shotwell (10/5)
  1. Short review of ESP process, standard products, and reporting frameworks
  2. Review on PT/SSC recommendations, coordinating timeline, teams, needs
- **12:30 - 13:30** ESP Team Updates – Kalei Shotwell, Erin Fedewa, Olav Ormseth (45/15)
  1. Sablefish, GOA Pollock, Pacific Cod ESPs: executive summaries, full documents, production timeline, Plan Team/SSC recommendations
  2. Crab ESPs: executive summary, priority ESPs, timeline, recommendations
  3. Data limited ESPs: description, alternate uses, considerations
- **13:30 - 14:00** Discussion/Polling Session – Cindy Tribuzio
  1. What are the standards for including indicators in an ESP (e.g., mechanism documentation, proxy information)?
  2. To what extent do we transform the assessment through the ESP (e.g., everything not directly used for harvest recommendations, method testing)?
- **14:00 - 14:25** Break (25 minutes)
- **14:25 - 15:00** Data Accessibility for ESPs – Jordan Watson, Kalei Shotwell (20/15)
- **15:00 - 15:30** Ecosystem/Economics Status Reports and ESP Workflow – Bridget Ferris, Ben Fissel, Ebett Siddon (20/10)

*Adjourn for the day and please fill out the ESP survey!*

### *Day 2 Morning 3/11/2020, 8:30 am start (Alaska Standard Time) - Modeling Applications for ESPs*

- **08:30 - 08:40** Recap, Introduction to Models for ESPs – Kalei Shotwell (5/5)
  1. Structure for model presentations
  2. Review discussion and polling sessions
- **08:40 - 09:05** Oceanographic Models – Kelly Kearney, Darren Pilcher (15/10)
- **09:05 - 09:30** Individual Based Models – Esther Goldstein, William Stockhausen (15/10)
- **09:30 - 09:55** Food Web Models – Kerim Aydin, Jon Reum (15/10)
- **09:55 - 10:20** Break (25 minutes, potential polling session)
- **10:20 - 10:45** Species Distribution Models, Part 1 – Lewis Barnett, Jim Thorson (15/10)
- **10:45 - 11:10** Species Distribution Models, Part 2 – Ned Laman, Jodi Pirtle (15/10)
- **11:10 - 11:35** Metrics Applications – Ben Laurel, Suzanne McDermott, Rob Suryan (15/10)
- **11:35 - 12:45** Lunch (~1.25 hours)

*Day 2 Afternoon 3/11/2020, 3:30 pm end (AKST) - Modeling Applications for ESPs (cont.)*

- **12:45 - 13:15** Ecosystem Indicator Applications – Lauren Rogers, Ellen Yasumiishi (20/10)
- **13:15 - 13:40** Discussion/Polling Session – Jim Thorson
  1. What are the criteria to add or remove metrics/indicators for use in an ESP?
  2. How do we measure and report skill-testing of a potential indicator in an ESP?
- **13:40 - 14:00** Break (20 minutes)
- **14:00 - 14:20** SEASAW: Past, Present and Future – Alan Haynie (15/5)
- **14:20 - 14:50** A Conceptual Model for social and economic indicators – Ben Fissel (25/5)
- **14:50 - 15:05** Sablefish Case Study: Fleet Performance Indicator – Marysia Szymkowiak (10/5)
- **15:05 - 15:30** Discussion Session – Steve Kasperski
  1. What kind of advice should social and economic indicators provide?
  2. How can we weave social and economic considerations in the ESP paradigm?

*Adjourn for the day and please fill out the ESP survey!*

*Day 3 Morning 3/12/2020, 9 am start (Alaska Standard Time) - Modeling Applications within ESPs*

- **09:00 - 09:10** Recap, Introduction to Models within ESPs – Kalei Shotwell (5/5)
  1. Review ESP indicator analysis framework stages for ESPs
  2. Review discussion sessions and trigger questions
- **09:10 - 09:35** Simple Indicator Scores – Kalei Shotwell, Martin Dorn (15/10)
- **09:35 - 10:00** Indicator Importance Methods – Curry Cunningham (15/10)
- **10:00 - 10:15** Break (15 minutes)
- **10:15 - 10:45** Enhanced Stock Assessment Models – Meaghan Bryan, Carey McGilliard (20/10)
- **10:45 - 11:10** Climate-enhanced Multi-species Models – Kirstin Holsman (15/10)
- **11:10 - 11:35** Multi-area Models – Kari Fenske, Dana Hanselman, Nick Tolimieri (15/10)
- **11:35 - 12:00** Discussion session – Pete Hulson
  1. What model performance metrics do we provide in the ESPs?
  2. How do these metrics translate to advice for the SAFE?
- **12:00 - 13:30** Lunch (1.5 hour)

*Day 3 Afternoon 3/12/2020, 3 pm end (AKST) - Review Tech Memo*

- **13:30 - 14:00** Discussion/Polling Session Review – Discussion Session Leads (30)
  1. Present summary conclusions of discussion/polling sessions
  2. Review workshop survey preliminary results
- **14:00 - 14:30** Draft ESP Workshop Tech Memo, Manuscript – ESP Workshop Team (30)
  1. Review outline for Tech Memos of each workshop
  2. Review outline for ESP Workshop Manuscript
- **14:30 - 14:45** Main Workshop Wrap-up – Kalei Shotwell
  1. Timeline for summary presentations, progress report, Tech Memos, Manuscript
  2. Mini-meet Workshop Review and Discussion, Monday September 14, 2020
  3. Next ESP Workshop theme and discuss preliminary dates
- **14:45 - 15:00** Break (15 minutes) and **End main workshop**

ESP Workshop Team and rapporteurs will reconvene to collect notes and discuss action items for the next workshop preparation. All are welcome to join.

- **15:00 - 15:15** Collect notes/summary from rapporteurs/presenters on Google Drive
- **15:15 - 15:30** Workshop Actions – ESP Workshop Team
  1. Writing assignments for workshop notes
  2. Timeline for completion of workshop Tech Memo (1, 2, 3 or combo)
  3. Discuss ESP Teams and facilitation
  4. Discuss Advice workshop and preparation

*Adjourn and see you at the next ESP workshop!!!*

### **Action Items:**

- ✓ ESP Modeling Synopsis and Guidelines
  - ☉ Accounting of modeling applications for use in ESPs
  - ☉ Guidelines for testing indicators and model output within ESPs
- ✓ ESP Discussion Review
  - ☉ Pre-workshop survey on participant expectations
  - ☉ Discussion wrap-up session conclusions
- ✓ ESP Workshop Report
  - ☉ ESP Update and Team Reports
  - ☉ Model Guidelines for ESPs
  - ☉ Workshop Survey
  - ☉ Discussion Review
  - ☉ Table 1: Testing criteria for indicators
  - ☉ Table 2: Performance metrics for model output
- ✓ ESP Workshop Summary Presentations
  - ☉ PEEC Workshop – May, 2020
  - ☉ Possibly June Council – June, 2020
  - ☉ Joint Groundfish Plan Team – September 2020

### **Next Workshop Timing:**

ESP Advice Workshop, Sand Point, Seattle, Washington, Spring 2021