AGENDA

Monday, January 13th

10 am – 1:00 pm  Registration

1:00 – 1:10 pm  Stan Kotwicki, AFSC  Opening Remarks, Terms of Reference

1:10 – 1:15  Wayne Palsson, AFSC  Orientation to the Facility

1:15 – 1:30  Introductions

1:30 – 2:00  Sven Kupschus, CEFAS  Key Note Message: European Perspective

2:00 – 2:30  Rick Methot, NMFS  Key Note Message: United States Perspective

2:30 – 3:00  Stan Kotwicki, AFSC  Challenges and priorities for WKUSER and beyond

3:00 – 4:00  Discussion on challenges and priorities (including examples of experiences and outcomes, defining extent of the problem across ICES countries)

4:00 – 4:30  Discussion on specific topics to work on during workshop (e.g. approaches to effort reduction, simulations, modeling, capturing true uncertainty in stock assessment, advice approaches). Start thinking about breakout sessions and sub-working groups to tackle specific issues.

4:30 – 5:00  Group Leader Discussion

After 5 pm  No-Host Social Event at Magnuson Brewery (7801 62nd Ave NE)

Tuesday, January 14th  Contributed talks -- European and American surveys

9 am – 9:15 am  Sven Kupschus, CEFAS  An overview of European surveys.

9:15 – 9:30 am  Rick Rideout, DFO  An Overview of Fisheries and Oceans Canada’s Multispecies Bottom Trawl Surveys in the Newfoundland and Labrador Region: Survey Coverage Issues and Implications for the Provision of Science Advice.

9:30 – 9:45 am  Michael Martin, AFSC  An overview of NOAA Fisheries Surveys.

9:45 – 10:00 am  Anne Hollowed, AFSC  SSC perspective on trade-offs among trawl survey schemes in federal waters off Alaska under varying funding scenarios
10:00 – 10:15  Kotaro Ono, IMR  A spatiotemporal operating model for simulation testing Alaskan bottom trawl survey effort and design.

10:15-10:30  BREAK

TOR I. Current Processes: The current processes used in dealing with unavoidable reductions in survey effort and examine the existing coping strategies (e.g. spatial coverage, survey frequency, or sampling density) and their qualitative consequences.


10:45 – 11:00  Owen Hamel NWFSC  The effect of survey frequency and intensity on U.S. West Coast groundfish stock assessments.

11:00 – 11:15  BREAK

11:15 -- 11:30  Ned Laman, AFSC  Effects of sampling density changes on biomass estimates from stratified random bottom trawl surveys in the Gulf of Alaska.


TOR II. “Survey Uncertainty”: Develop key quality metrics that can be used to describe “total survey uncertainty” for survey derived indices of abundance for common survey designs.

11:45 – 12 noon  Jim Thorson, AFSC  Measuring the impact of increased ageing effort: theory and case-study demonstration.

12:00 – 12:15  Stan Kotwicki, AFSC  The effect of variable sampling efficiency on the reliability of observation error as a measure of uncertainty in abundance indices from scientific surveys.

12:15 – 1:15 pm  LUNCH  NOAA Cafeteria

1:15 – 1:30  Elaina Jorgensen, AFSC  Systematic reduction in survey effort and the effect on variance of fish abundance.

1:30 – 1:45 pm  Peter Munro, AFSC  Comparing three estimators of change in trawl survey mean catch per unit effort (CPUE) the Mean Squared Error (MSE) of the estimate under different simulated scenarios.

1:45 – 2:00  Paul Spencer, AFSC  Variance propagation from fishery-independent surveys to the stock assessment outputs.

TOR III. “Survey Continuity”: Define “changes to survey designs” that require inter-survey calibration and what changes can be resolved by a model-based approach to index generation.

2:00 -- 2:15 pm  Paul Von Szalay, AFSC  A Comparison of Bottom Trawl Sampling Strategies in the Gulf of Alaska: Design vs. Model-Based Approaches.
2:15 – 2:30  **Kresimir Williams, AFSC**  Cameras vs Catch: potential effects of implementing open codend tows for acoustic midwater fish surveys.

2:30–2:45  **Jason Conner, AFSC**  Impact of reducing sample density on the accuracy and precision of design-based estimators of an abundance index for a bottom trawl survey in the eastern Bering Sea.

2:45 – 3:00  **Jennifer Blaine, WDFW**  WDFW Puget Sound scientific bottom trawling: sampling design changes and consequences.

3:00 – 3:15  **BREAK**

**TOR IV. “Decision-making Tools”: Develop methods that can provide quantitative decision-making tools describing the impacts on the quality of the survey deliverables and advisory products.**

3:15 – 3:30 pm  **Meaghan Bryan, AFSC**  The Impact of survey frequency and intensity on detecting environmental anomalies and shifts in abundance.

3:30 – 3:45  **Curry Cunningham, UAF**  Implications of changes in bottom trawl survey effort on the quality of stock assessment results.

3:45 – 4:00  **Sven Kupschus, CEFAS**  An empirical approach to predicting the effects of fisheries independent survey effort reductions on biases and precision characteristics of stock dynamic metrics used in the management of fisheries. An example for three gadoid species in the North Sea.

4:00 – 4:15  **Lauren Rogers, AFSC**  Evaluation of a survey with an adaptive sampling domain to capture climate-driven shifts in larval fish distributions.

4:15 – 4:30  **Jon Richar, AFSC**  Considering changes in sampling density and survey frequency, and their effects on eastern Bering Sea crab population time series.

4:30 – 4:45  **Chris Rooper DFO**  Accounting for habitat variables to improve abundance indices in Alaska trawl surveys with an emphasis on results from averaging multiple modeling methodologies.

4:45 – 5:00  **Nicola Walker, CEFAS**  Is the North Sea IBTS oversampled – computer-based study of the effects of reduced sampling on stock assessments?

5:00 – 5:15  **Cynthia Yeung, AFSC**  Survey Effort Reduction Impacts on the Assessment of the Thermal State of the Bering Sea Ecosystem.

5:15 – 5:30 pm  Discussion, formulating specific topics for sub-working groups. Dividing into sub-working groups

5:30 pm  Adjourn

6:00 pm  No-host Social and Welcome
**Wednesday, January 15th**

9:00 – 12 noon   Work on specific problems in break out groups

12 noon – 1:00 pm   Lunch   NOAA Cafeteria

1:00 – 5:00   Work on specific problems in break out groups

5:00   Adjourn

6:00   No-host Dinner Social

**Thursday, January 16th**

9:00 – 10:30 am   Working groups presentations, discussion

10:30 – 12 noon   Work on specific problems in break out groups

12 – 1:00 pm   Lunch   NOAA Cafeteria

1:00 – 5:00   Writing break out groups reports

5:00   Adjourn

**Friday, January 17th**

9:00 – 10:00 am   **Bill Karp & Chris Rooper**   Plenary: Synopsis: What did we learn and where do we go from here?

10:00 – 11:00   **Stan Kotwicki AFSC**   Challenges and priorities remaining. What’s next, practical matters?

11:00 – 12:00 noon   Writing final report.

12:00 noon   Closing Remarks