

**Illex Research Track Working Group
March 31, 2021 Meeting 3
Agenda/Tasks List**

| TOR | Task | Person(s) Responsible | Completion Target |
|------------|---|--|----------------------------|
| 1 | Landings, LPUE (VTR, Dealer) | Hendrickson | March (Meeting 3) |
| 1 | SBRM Discard Data: Work up annual Illex data | Hendrickson | February (Meeting 2) |
| 2 | Survey data (NEFSC, ME/NH, NEAMAP, Canadian Surveys) | Hendrickson | March (Meeting 3) |
| 2 | Economic Factors: Discuss approaches with Chad Demerest and report back on possible ways forward | Hendrickson | March (Meeting 3) |
| 2 | CPUE: Observer, Study Fleet, VTR/VMS; Develop individual vessel CPUEs for Study Fleet participants and discuss CPUE drivers with captains (will work with Paul Rago and John Manderson on the questions for the discussions); Develop full fleet modeled CPUE for review by WG. Will need to pull in VTR and possibly VMS data for full fleet CPUE models. | Mercer, Lowman, Jones, Manderson, Rago | March (Meeting 3) or later |
| 3 | Maturity & Growth Data: Work up maturity ogives | Hendrickson | March (Meeting 3) |
| 4 | In-season trends in Illex body size: Review existing data sources and trends (port sampling, processor data, observer data, other) | Hendrickson | March (Meeting 3) |

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| 3,4 | Identify Illex pulses: Explore methods to identify Illex pulses (Catch spike statistic - Rao Ureta 2012, other) | Manderson, Rago, Lowman | March (Meeting 3) |
| 4 | Consider Environmental Factors: Exploring options (VAST model, frontal drivers, Study Fleet, VMS) and presenting to the WG. | Manderson, Lowman, Mercer, Hendrickson, Hyde, Salois | February/March (Meeting 2/3) |
| 5 | CuSum Method: Further develop CuSum method to present to working group. | Rago | February/March (Meeting 2/3) |
| 5 | Conventional Leslie Depletion Model: Present work from last summer's MAFMC Illex WG meetings for comparison to other depletion methods. Note/check assumptions and data needs. | Rago | February (Meeting 2) |
| 5/6 | Falklands Depletion Model: Run this model (Rao-Ureta 2012) with inputs from US Illex fishery; Develop "comparative anatomy" of oceanography of Falklands and Northwest Atlantic to assess appropriateness of use of this model in this region. Note/check assumptions and data needs. | Hendrickson, Rago, Hocking, Manderson | February (Meeting 2); Meeting 4 or later |
| 5/6 | In-season assessment model: Describe the data that would be needed to conduct in-season stock assessments for adaptive management and identify whether the data already exist or if new data would need to be collected and at what frequency. | Hendrickson | Meeting 4 or later |

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| 7 | <p>Maturation-Natural Mortality Model: Lisa will run this model with hopefully some new age/growth data from 2020. Note/check assumptions and data needs.</p> | Hendrickson | Meeting 4 or later |
| 8 | <p>Status determination: Recommend a stock status determination (i.e., overfishing and overfished), for each dominant cohort supporting the fishery, based on new modeling approaches developed for this peer review.</p> | Hendrickson | Meeting 5 or later |
| 9 | <p>Projections: Define the methodology for performing short-term projections of catch and biomass under alternative harvest scenarios, including the assumptions of fishery selectivity, weights at age, and maturity.</p> | Hendrickson | Meeting 5 or later |
| 10 | <p>Research Recommendations: Review, evaluate and report on the status of the Stock Assessment Review Committee (SARC) and Working Group research recommendations listed in the most recent SARC- reviewed assessment and review panel reports. Identify new research recommendations.</p> | WG | Meeting 6 or later |
| 11 | <p>Alternative assessment: Develop a "Plan B" alternate assessment approach to providing scientific advice to managers if the analytical assessment does not pass review.</p> | WG | Meeting 6 or later |