

**Illex Research Track Working Group  
September 29, 2021 Meeting 6  
Agenda/Tasks List**

<b>TOR</b>	<b>Task</b>	<b>Person(s) Responsible</b>	<b>Completion Target</b>	<b>Status</b>
1	<b>Landings, LPUE (VTR, Dealer)</b>	Hendrickson	Mar (Meeting 3)	Presented; Report Writing In Process; Landings writing completed LPUE in process
1	<b>SBRM Discard Data:</b> Work up annual Illex data	Hendrickson	Feb (Meeting 2)	Presented; Report Writing Completed
2	<b>Survey data (NEFSC, ME/NH, NEAMAP, Canadian Surveys)</b>	Hendrickson	Jun (Meeting 4)	Presented; Report Writing In Process
2	<b>Economic Factors:</b> Discuss approaches with Chad Demerest and report back on possible ways forward	Hendrickson	Mar (Meeting 3)	Brief discussion; Pending; Likely will not be completed

2	<b>CPUE:</b> Observer, Study Fleet, VTR/VMS; Develop individual vessel CPUEs for Study Fleet 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. Include VTR and possibly VMS data for full fleet CPUE models.	Mercer, Lowman, Jones, Manderson, Rago	Mar (Meeting 3); Jun (Meeting 4) Meeting 5 and later	Presented & Discussed; Report writing in process (i.e., excerpt text, tables, and figures from any working papers to WG report); Hendrickson modeling completed and writing in process; Lowman modeling completed and writing in process; Rago and Manderson modeling still in process?
3	<b>Maturity, Age &amp; Growth Data:</b> Work up maturity ogives and age data	Hendrickson	Jun (Meeting 4); Meeting 6 and later	Brief update; Pending
4	<b>In-season trends in Illex body size:</b> Review existing data sources and trends (port sampling, processor data, observer data, other)	Hendrickson	Mar (Meeting 3); Jun (Meeting 4); Meeting 6 and later	Brief update; WG Reviewed; Report writing completed
3,4	<b>Identify Illex pulses:</b> Explore methods to identify Illex pulses (Catch spike statistic - Rao Ureta 2012, other)	Manderson, Rago, Lowman	Mar (Meeting 3); Meeting 5 and later	Presented & Discussed; Pending
4	<b>Consider Environmental Factors:</b> Exploring options (VAST model, frontal drivers, Study Fleet, VMS)	Manderson, Lowman, Mercer, Hendrickson, Hyde, Salois	Feb/Mar (Meeting 2/3); Jun (Meeting 4) Meeting 5 and later	Presented & Discussed; Need to begin report writing (i.e., excerpt text, tables, and figures from any working papers to WG report); How many WPs expected?

5	<b>Mass Balance Model:</b> examine the potential impacts of the joint effects of fishery and environmental factors on observed patterns in resource surveys and fisheries, 1997-2019	Rago	Apr (Meeting 3.5)	Presented & Discussed; Report writing underway (i.e., excerpt text, tables, and figures from working papers to WG report) Rago WPs
5	<b>CuSum Method:</b> Further develop CuSum method ; Updated thru 2019	Rago	Feb/Mar (Meeting 2/3); Apr (Meeting 3.5)	Presented & Discussed; Need to begin report writing (i.e., excerpt text, tables, and figures from any working papers to WG report); Which TOR? 6 (in-season), 9 (projection), other? Any further development of existing WPs (parts 1 &2)? Or just use those?
5	<b>Conventional Leslie Depletion Model:</b> Present work from last summer's MAFMC Illex WG meetings for comparison to other depletion methods; Updated thru 2019	Rago	Feb (Meeting 2)	Presented & Discussed; Report writing underway (i.e., excerpt text, tables, and figures from working papers to WG report) Rago WPs Manderson WP?
5/6	<b>In-season assessment model:</b> 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 6 or later	Also Manderson WP?

7	<b>Maturation-Natural Mortality Model:</b> Lisa will run this model with new age & growth data from 2019-2020	Hendrickson	Meeting 6 or later	Also Manderson WP?
8	<b>Status determination:</b> 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.	Hendrickson	Meeting 7 or later	
9	<b>Projections:</b> 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.	Hendrickson, Rago	Meeting 7 or later	Rago WPs?
10	<b>Research Recommendations:</b> 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.	WG	Meeting 7 or later	

11	<b>Alternative assessment:</b> Develop a “Plan B” alternate assessment approach to providing scientific advice to managers if the analytical assessment does not pass review.	WG	Meeting 7 or later	
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