

Curriculum Vitae for Christopher M. Legault

1. Contact Information

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2. Education

<i>Degree</i>	<i>Year</i>	<i>Major</i>	<i>Institution</i>
Bachelor of Arts	1989	Biology & Mathematics	Colby College
Master of Science	1991	Marine Biology and Fisheries	University of Miami (RSMAS)
Doctor of Philosophy	1997	Marine Biology and Fisheries	University of Miami (RSMAS)

3. Appointments

2013 – present	Supervisory Research Fishery Biologist	NMFS-NEFSC
2000 – 2012	Research Fishery Biologist	NMFS-NEFSC
1998 – 2000	Research Fishery Biologist	NMFS-SEFSC
1997 – 1998	Post-doctoral scientist	CUFER (RSMAS/SEFSC)

4. Example Publications

- Perretti, C.T. and C.M. **Legault**. 2018. When does smoothing the output of index-based stock assessments improve estimates of fish population biomass? *Fisheries Research*. 207: 1-8. doi:10.1016/j.fishres.2018.05.024
- Miller, T.J. and C.M. **Legault**. 2017. Statistical behaviour of retrospective patterns and their effects on estimation of stock and harvest status. *Fisheries Research* 186: 109-120. doi:10.1016/j.fishres.2016.08.002
- Brooks, E.N. and C.M. **Legault**. 2016. Retrospective forecasting - evaluating performance of stock projections for New England groundfish stocks. *Canadian Journal of Fisheries and Aquatic Sciences*. 73: 935–950. doi:10.1139/cjfas-2015-0163
- Legault**, C.M. and M.C. Palmer. 2016. In what direction should the fishing mortality target change when natural mortality increases within an assessment? *Canadian Journal of Fisheries and Aquatic Sciences*. 73: 349-357. doi:10.1139/cjfas-2015-0232. Selected as Editor's Choice.
- Palmer, M.C., J.J. Deroba, C.M. **Legault**, and E.N. Brooks. 2016. Comment on “Slow adaptation in the face of rapid warming leads to the collapse of Atlantic cod in the Gulf of Maine”. *Science* 352(6284): 423. doi:10.1126/science.aad9674
- Dichmont, C.M., R. Deng, A.E. Punt, J. Brodziak, Y.-J. Chang, J.M. Cope, J.N. Ianelli, C.M. **Legault**, R.D. Methot Jr, C.E. Porch, M.H. Prager, and K. Shertzer. 2016. A review of stock assessment packages in the United States. *Fisheries Research* 183: 447-460. doi:10.1016/j.fishres.2016.07.001
- Deroba, J.J., D.S. Butterworth, R.D. Methot, Jr, J.A.A. De Oliveira, C. Fernandez, A. Nielsen, S.X. Cadrin, M. Dickey-Collas, C.M. **Legault**, J. Ianelli, J.L. Valero, C.L. Needle, J.M. O'Malley, Y-J. Chang, G.G. Thompson, C. Canales, D.P. Swain, D.C.M. Miller, N.T. Hintzen, M. Bertignac, L. Ibaibarriaga, A. Silva, A. Murta, L.T. Kell, C.L. de Moor, A.M. Parma, C.M. Dichmont, V.R. Restrepo, Y. Ye, E. Jardim, P.D. Spencer, D.H. Hanselman, J. Blaylock, M. Mood, and P.-J. F. Hulson. 2015. Simulation testing the robustness of stock assessment models to error: some results from the ICES strategic initiative on stock assessment methods. *ICES Journal of Marine Science*. 72: 19–30. doi:10.1093/icesjms/fst237

- Legault, C.M.** 2014. The ability of two age composition error distributions to estimate selectivity and spawning stock biomass in simulated stock assessments. *Fisheries Research*. doi 10.1016/j.fishres.2013.12.007
- Goethel, D.R., C.M. **Legault**, and S.X. Cadrin. 2015. Testing the performance of a spatially explicit tag-integrated stock assessment model of yellowtail flounder (*Limanda ferruginea*) through simulation analysis. *Canadian Journal of Fisheries and Aquatic Sciences*. 72: 582-601. doi:10.1139/cjfas-2014-0244
- Legault, C.M.** and E.N. Brooks. 2013. Can stock-recruitment points determine which spawning potential ratio is the best proxy for maximum sustainable yield reference points? *ICES Journal of Marine Science*. 70: 1075-1080. doi:10.1093/icesjms/fst105
- Brodziak, J. and C.M. **Legault**. 2005. What are appropriate reference points for overfished stocks? *Canadian Journal of Fisheries and Aquatic Sciences*. 62: 544-562. doi: 10.1139/f04-199

5. Synergistic Activity

- Submitted over 100 working papers as part of stock assessments and published 40 original research articles in peer-reviewed journals since 1995
- Member of the New England Fisheries Management Council SSC 2011-present
- Leader of Stock Assessment Methods Task in Population Dynamics Branch, NEFSC
- Reviewed papers for 13 journals, Associate Editor *Canadian Journal of Fisheries and Aquatic Science*, former Associate Editor *North American Journal of Fisheries Management*

6. Collaborations and Other Affiliations

6.1. Thesis Committee Member

M. Valle (PhD 2003) in Marine Biology and Fisheries at the University of Miami
 J. Melgey (MS 2010) in Marine Science and Technology at the University of Massachusetts
 K. Curti (PhD 2012) in Oceanography at the University of Rhode Island
 D. Goethel (PhD 2014) in Marine Science and Technology at the University of Massachusetts
 M. Fitchett (PhD 2015) in Marine Biology and Fisheries at the University of Miami
 J. McNamee (PhD 2018) in Oceanography at the University of Rhode Island
 J. Langan (PhD and MS in progress) in Oceanography and Statistics, respectively, at the University of Rhode Island

6.2. Membership on review panels since 2010

Invited Expert. ICES MSE horse mackerel via correspondence Feb 2018.
 Invited Expert. ICES Benchmark Workshop on Baltic Salmon. Copenhagen. Jan 2017.
 Chair ICES Review Group on the Precautionary Approach via correspondence Apr-Sept 2016.
 Invited Expert. DFO Regional Peer Review Meeting: Northern Cod Framework. Newfoundland. Dec 2015.
 Invited Expert. ICES Benchmark Workshop for Sea Bass via correspondence Apr 2014.
 Invited Expert. ICES Workshop to consider reference points for all stocks. Copenhagen. Jan 2014.
 Invited Expert. ICES Benchmark Workshop for Sea Bass and Turbot. Copenhagen. Aug 2012.
 Invited Expert. ICES Benchmark Workshop on Flatfish Species. Copenhagen. Feb 2011.
 Chair ICES Workshop on Reviews of Recent Advances in Stock Assessment Models Worldwide “Around The World In AD Models”. Nantes. Sept 2010.
 Chair SEDAR 19 Review Panel, Savannah, GA. Jan 2010.