Recruitment: theory, estimation, and application in fishery stock assessment models (30th October, 2017 to 3rd November, 2017)

Agenda

Talk No.	Day/Time	Speaker	Title
Day 1 (10/30) DEMO SESSION (HANDS ON WORKSHOP)			
	10:00-12:00	Rick Methot	Overview of new features of Stock Synthesis (SS) V 3.30
	12:00- 1:00	LUNCH	
	1:00-3:30	Ian Taylor	Demo of Stock Synthesis (SS III) Recruitment dynamics
	3:30-4:00	Coffee Break	
	4:00-5:30	Craig Marsh	Demo of *C++ Algorithmic Stock Assessment Laboratory (CASAL)*
Day 2 (10/31)			
	9:00-9:10	Rishi Sharma/Clay Porch	Introduction and Logistics
No. 1	**9:10-10:10**	**Ken Rose (Keynote 1)**	**Recruitment is The Holy Grail in Fisheries Science and Why We Should Keep on Searching**
No. 2	10:10-10:40	Nelson Ehrhardt	Stock Assessment Modeling and the Conundrum of Multiple Life Stage Abundance Effects on Recruitment: The Caribbean Spiny Lobster, Panulirus argus, as an example
No. 3	10:40-11:10	Kai Lorenzen	Patterns of density-dependent mortality in the life cycles of fishes: When is a recruit not a recruit?
	11:10-11:30	BREAK (Coffee)	
	11:30-12:00	DISCUSSION on SESSION 1 (Processes on Recruitment)	
No. 4	**12:00-1:00**	**Terry Quinn (Keynote 2)**	**Population Dynamics and Stock & Recruitment**
	1:00-2:00	LUNCH BREAK	
No. 5	2:00-2:30	E. Brooks	Paulik revisited: Statistical framework and estimation performance of multistage recruitment functions
No. 6	2:30-3:00	Xi He	Effects of recruitment variability and fishing history on estimation of stock-recruitment relationships: Two case studies from U.S. West Coast Fisheries

No. 7	3:00-3:30	J. Thorson	Steepness for West Coast rockfishes: Results from a twelve-year experiment in iterative regional meta-analysis
	3:30-4:00	BREAK (Coffee)	
No. 8	4:00-4:30	F. Carvalho	Parameterizing the Low-fecundity Stock Recruitment Relationship (LFSR) for Pelagic Sharks in Stock Synthesis: Challenges and Results.
No. 9	4:30-5:00	Jon Brodziak	Forecasting Recruitment Using Model Ensembles
	5:00-5:30	**DISCUSSION on SESSION 2 (Stock and Recruit)**	
DAY 3 (11/01)			
	9:00-9:10	Clay Porch	Overview of Day 1
No. 10	**9:10-10:10**	**Mark Maunder (Key Note 3)**	**Modeling recruitment temporal variation in fisheries stock assessment: a review of theory and practice**
No. 11	10:10-10:40	Ashley E. Weston	Evaluation of model selection tools for recruitment-environmental linkages in stock assessments
	10:40-11:00	BREAK (Coffee)	
No. 12	11:00-11:30	C. Minte-Vera	Improving estimates of abundance using regional recruitment signals derived from meta-analysis of stock assessments
No. 13	11:30-12:00	J. Zhu	Estimation of recruitment from length composition data in an integrated stock assessment model when growth is uncertain
No. 14	12:00-12:30	C. Canales	Small pelagics: Modelling seasonality in recruitments using the seperability assumption.
No. 15	12:30-13:00	M. Fitchett	Recruitment Signals Commensurate to Ocean Circulation and Climatology
	1:00-2:00	LUNCH	
No. 16	2:00-2:30	C. Marsh	Reviewing assumptions surrounding year class strengths in the recruitment dynamic.
No. 17	2:30-3:00	Vanessa Trijoulet	Modeling episodic recruitment events: methods and implications for stock assessment in the presence of occasional very large year classes
No. 18	3:00-3:30	R. McGarvey	Modelling gradual recruitment to legal size by dynamically accounting for both age and length: slice partition.
	3:30-4:00	BREAK (Coffee)	
No. 19	4:00-4:30	D. Kinzey	Recruitment in the integrated assessment for Antarctic krill
No. 20	4:30-5:00	O. Hamel	Addressing cohort-strength correlated ageing error in fishery stock assessment
No. 21	5:00-5:30	Ignacio Paya	Exploring predictions of recruitments using individual mean weight.
	5:30-6:15	**DISCUSSION Session 3 (Time Varying Dynamics)**	
	6:15-9:00	**SOCIAL (SALT)**	
DAY 4 (11/02)			
	9:00-9:10	Clay Porch	Overview of Day 2
No. 22	**9:10-10:10**	**Andre Punt (Keynote 4)**	**Modelling recruitment in a spatial context: A review of current approaches, simulation evaluation of options, and suggestions for best practices**

No. 23	10:10-10:40	S. Cadrin	**The importance of accurately accounting for geographic stock structure in recruitment estimation**
No. 24	10:40-11:10	K. Bosley	Estimating Recruitment in Spatially-Explicit Stock Assessment Models: the Impact of Population Structure Assumptions on Recruitment Bias
	11:10-11:30	BREAK (Coffee)	
No. 25	11:30-12:00	Francisco Contreras	Spatial considerations for assessment
No. 26	12:00-12:30	K. Johnson	Recruitment dynamics in a changing environment: integrating spatial and temporal variability into stock assessment and management strategies
No.27	12:30-1:00	C. McGilliard	Modeling the impacts of two age–related portfolio effects on recruitment variability with and without a marine reserve.
	1:00-1:30	**DISCUSSION on SESSION 4 (Spatial Interactions & Recruitment)**	
	1:30-2:15	LUNCH BREAK	
No. 28	**2:15-3:15**	**Eva Plagyani (Keynote 5)**	**Management implications of modelling recruitment**
No. 29	3:15-3:45	CL de Moor	Letting the "data" speak for themselves: The use of stock-recruit relationships to determine a biomass threshold above which management should aim to keep a resource.
	3:45-4:00	BREAK (Coffee)	
No. 30	4:00-4:30	Aaron Berger	Shifts in stock productivity: recruitment potential and static/dynamic reference points
No. 31	4:30-5:00	R. Sharma	A simulation approach developed to assess resilience, rebuilding time as a function of steepness and perceived risk to reference points on Indian & Atlantic Ocean Tuna & Tuna-like Populations
No. 32	5:00-5:30	M. Haltuch	Unraveling the Recruitment Problem: A Review of Environmentally-Informed Forecasting
No. 33	5:30-6:00	Latreese Denson	Strategy to evaluate the risks and benefits of including environmental predictors of recruitment
	6:00-6:30	**DISCUSSION on SESSION 5 (Management Implications of Recruitment Variation)**	
Day 5 (11/03)			
No. 34	**9:00-10:00**	**Dale Kolody /Paige Evenson (Key Note 6)**	**Recruitment in tuna RFMO assessment and management: a review of recent methods and challenges**
No. 35	10:00-10:30	P. Crone	Good practices for including environmental data to model spawner-recruit dynamics and recruitment variability in integrated stock assessments: a small pelagic species case study.
No. 36	10:30-11:00	J. Zolonski	Environmental dependence of Pacific sardine recruitment – another spurious correlation?
	11:00-11:30	BREAK (Coffee)	
	11:30- 1:00	DISCUSSION (FOCUS QUESTIONS) Summary of Day 1-3	
END			