

SEDAR Procedural Workshop 7
Data Best Practices
Workshop Document List

Document #	Title	Authors	Relevant Technical Group
Data Issue Overview Documents			
The Data Issue Overview documents served as a starting point for the report sections included in this report. See the report section indicated below for the final recommendations provided by each of the Technical Groups.			
PW7 - 01	Life History Data Issue Overview Document (See report section 3.3.1)	Life History Technical Group 2015	
PW7 - 02	Commercial Data Issue Overview Document (See report section 3.3.2)	Commercial Technical Group 2015	
PW7 - 03	Recreational Data Issue Overview Document (See report section 3.3.3)	Recreational Technical Group 2015	
PW7 - 04	Indices Data Issue Overview Document (See report section 3.3.4)	Indices Technical Group 2015	
PW7 - 05	Catch at Size/Age Data Issue Overview Document (See report section 3.3.5)	Catch at Size / Age Technical Group 2015	
Technical Group Additional Resources			
PW7 - 06	SEDAR7-AW03: Estimated conversion factors for calibrating MRFSS charterboat landings and effort estimates for the Gulf of Mexico in 1981-1997 with For-Hire Survey estimates with application to red snapper landings	Diaz and Phares 2004	Recreational
PW7 - 07	SEDAR16-DW15: Estimated conversion factors for calibrating MRFSS charterboat landings and effort estimates from the Southeastern US (NC to FL-east coast) in 1981-2003 with For-Hire Survey estimates with application to King Mackerel landings	Sminkey 2008	Recreational
PW7 - 08	SEDAR 17 South Atlantic Spanish Mackerel Stock Assessment Report	SEDAR 17	Recreational

PW7 – 09	SEDAR 24 South Atlantic Red Snapper Stock Assessment Report	SEDAR 24	Recreational Commercial Indices
PW7 – 10	SEDAR 25 South Atlantic Black Sea Bass Stock Assessment Report	SEDAR 25	Recreational Commercial Life History
PW7 – 11	SEDAR 25 South Atlantic Tilefish Stock Assessment Report	SEDAR 25	Recreational
PW7 – 12	SEDAR 28 South Atlantic Cobia Stock Assessment Report	SEDAR 28 W Panel	Recreational Commercial Indices
PW7 – 13	SEDAR 28 South Atlantic Spanish Mackerel Stock Assessment Report	SEDAR 28	Recreational Commercial
PW7 – 14	SEDAR28-DW12: Estimated conversion factors for calibrating MRFSS charterboat landings and effort estimates for the South Atlantic and Gulf of Mexico in 1981-1985 with For-Hire Survey estimates with application to Spanish mackerel and cobia landings	Matter et al. 2012	Recreational
PW7 – 15	SEDAR 31 Gulf of Mexico Red Snapper Stock Assessment Report	SEDAR 31	Recreational Commercial
PW7 – 16	SEDAR31-DW25: Estimated Conversion Factors for Adjusting MRFSS Gulf of Mexico Red Snapper Catch Estimates and Variances in 1981-2003 to MRIP Estimates and Variances	Rios et al. 2012	Recreational
PW7 – 17	SEDAR31-DW33: Using a censored regression modeling approach to standardize red snapper CPUE using recreational fishery data affected by a bag limit	Saul and Walter 2012	Indices
PW7 – 18	SEDAR31-AW01: Headboat Discards for Red Snapper in the Gulf of Mexico	Matter and Walter 2013	Recreational
PW7 – 19	SEDAR 32 South Atlantic Blueline Tilefish Stock Assessment Report	SEDAR 32	Recreational Commercial Indices Life History
PW7 – 20	SEDAR32-DW02: MRFSS to MRIP Adjustment Ratios and Weight Estimation Procedures for South Atlantic and Gulf of	Matter and Rios 2013	Recreational

	Mexico Managed Species (PDF and Excel docs)		
PW7 – 21	SEDAR32-AW01: Age and length composition weighting for U.S. blueline tilefish	SFB 2013 (contact: E. Fitzpatrick)	CAA/CAS
PW7 – 22	SEDAR32-AW02: Age and length composition weighting for U.S. gray triggerfish	SFB 2013 (contact: R. Cheshire)	CAA/CAS
PW7 – 23	SEDAR 33 Gulf of Mexico Gag Stock Assessment Report	SEDAR 33	Recreational Commercial
PW7 – 24	SEDAR 33 Gulf of Mexico Greater Amberjack Stock Assessment Report	SEDAR 33	Recreational Commercial
PW7 – 25	SEDAR 36 South Atlantic Snowy Grouper Stock Assessment Report	SEDAR 36	Recreational
PW7 – 26	SEDAR36-WP01: MRIP Recreational Survey Data for Snowy Grouper in the Atlantic	Matter 2013	Recreational
PW7 – 27	SEDAR36-WP11: Commercial Landings of Snowy Grouper in the U.S. Atlantic, 1950-2012	Baertlein et al. 2013	Commercial
PW7 – 28	SEDAR 38 South Atlantic King Mackerel Stock Assessment Report	SEDAR 38	CAA/CAS Commercial
PW7 – 29	SEDAR 38 Gulf of Mexico King Mackerel Stock Assessment Report	SEDAR 38	CAA/CAS Life History
PW7 – 30	SEDAR38-AW05: Age frequency distributions, age length keys, length at ages, and sex ratios for kin mackerels in the Gulf of Mexico and South Atlantic from 1986-2013	Chih 2014	CAA/CAS
PW7 – 31	SEDAR 39 Atlantic Smoothhound Sharks Stock Assessment Report	SEDAR 39	Recreational
PW7 – 32	SEDAR39-DW03: Preliminary catches of smoothhound sharks	Cortes and Balchowsky	Commercial
PW7 – 33	SEDAR 42 Gulf of Mexico Red Grouper Data Workshop Report	SEDAR 42 DW Panel	Recreational Commercial Indices Life History
PW7 – 34	SEDAR42-DW12: Variations in length frequency distributions and age length keys for red groupers collected in the Gulf of	Chih 2014	CAA/CAS

	Mexico		
PW7 – 35	SEDAR42-DW18: Length and age frequency distributions for red groupers collected in the Gulf of Mexico from 1984-2013	Chih 2014	CAA/CAS
PW7 – 36	SEDAR PW1 Report: Developing Protocols for Submission of Abundance Indices to the SEDAR Process		Indices
PW7 – 37	SEDAR Index Report Card (current version)		Indices
PW7 – 38	SEDARPW2 Report: Evaluating and Modeling Catchability		Indices
PW7 – 39	SEDAR Outline for Data Workshop Report (current version)		Indices
PW7 – 40	Report of the 2012 Meeting of the ICCAT Working Group on Stock Assessment Methods	ICCAT Working Group Methods 2012	Indices
PW7 – 41	Guidelines for presenting CPUE indices of abundance for WCPFC stock assessments	Hoyle et al. / WCPFC 2014	Indices
PW7 – 42	Fitting a surplus-production model with numbers- vs. weight based indices of abundance together with removals data in weight: evaluation on simulated fisheries similar to blue marlin in the Atlantic Ocean	Prager and Goodyear 2001	Indices
PW7 – 43	Report of the 2014 Meeting of the ICCAT Working Group on Stock Assessment Methods	ICCAT Working Group Methods 2015	Indices
PW7 – 44	Stock Assessment and Future Projections of Blue Shark in the North Pacific Ocean	ISC Shark Working Group 2014	Indices
PW7 – 45	Recommended approaches for standardizing CPUE in pelagic fisheries	Hoyle et al. / WCPFC 2014	Indices
PW7 – 46	Constructing stock abundance indices from catch and effort data: Some nuts and bolts	Campbell 2015	Indices
PW7 – 47	Some considerations for CPUE standardization; variance estimation and distributional considerations	Lauretta et al. 2015	Indices
PW7 – 48	NOAA Tech Memo 119: Estimating Natural Mortality in Stock Assessment Applications	Brodziak et al. 2011	Life History
PW7 – 49	Forms of Reproductive Potential Used in	Fitzhugh 2015	Life History

	SEDAR Assessments (Excel spreadsheet)		
PW7 – 50	SEDAR41-DW: Estimates of Historic Recreational Landings of Red Snapper in the South Atlantic Using the FHWAR Census Method (DRAFT)	Brennan 2014	Recreational
PW7 – 51	SEDAR07-DW45: Size frequency distribution of red snapper from dockside sampling of commercial landings in the Gulf of Mexico 1984-2002 (TIP size data)	Diaz et al. 2004	Commercial
PW7 – 52	SEDAR08-DW6: Status of NOAA Fisheries Commercial Landings and Biostatistical Data – Puerto Rico, 1983-Present	Bennett 2004	Commercial
PW7 – 53	SEDAR08-DW7: Status of NOAA Fisheries Commercial Landings and Biostatistical Data – USVI, 1973-Present	Bennett 2004	Commercial
PW7 – 54	SEDAR 8 Caribbean Yellowtail Snapper Stock Assessment Report	SEDAR 8	Commercial
PW7 – 55	SEDAR 15A South Atlantic and Gulf of Mexico Mutton Stock Assessment Report	SEDAR 15A	Commercial
PW7 – 56	SEDAR 19 South Atlantic Red Grouper Stock Assessment Report	SEDAR 19	Commercial
PW7 – 57	SEDAR 19 South Atlantic and Gulf of Mexico Black Grouper Stock Assessment Report	SEDAR 19	Commercial
PW7 – 58	SEDAR16-DW13: Analysis of the king mackerel size and size-frequency samples data available for use in stock assessment	Ortiz 2008	Commercial
PW7 – 59	SEDAR 17 South Atlantic Vermilion Snapper Stock Assessment Report	SEDAR 17	Commercial
PW7-60 through PW7-66 are the process docs below			
PW7 – 67	MRIP Calibration Workshop II – Final Report	Carmichael and Van Voorhees 2014	Recreational
PW7 – 68	MRFSS/MRIP Calibration Workshop Ad-hoc Working Group	Ad-hoc Working Group	Recreational
PW7 – 69	Stock-recruitment resilience of North Pacific striped markin based on reproductive ecology	Brodziak et al. 2015	Life History
PW7 – 70	Stock assessment of protogynous fish: evaluating measures of spawning biomass	Brooks et al. 2008	Life History

	used to estimate biological reference points		
PW7 – 71	A Standardized Terminology for Describing Reproductive Development in Fishes	Brown-Peterson et al. 2011	Life History
PW7 – 72	Relating angling-dependent fish impairment to immediate release mortality of red snapper (<i>Lutjanus campechanus</i>)	Campbell et al. 2010	Life History
PW7 – 73	Release mortality in the red snapper (<i>Lutjanus campechanus</i>) fishery: a meta-analysis of three decades of research	Campbell et al. 2014	Life History
PW7 – 74	Maternal size, not age, influences egg quality of a wild, protogynous coral reef fish <i>Plectropomus leopardus</i>	Carter et al. 2015	Life History
PW7 – 75	Evolutionary assembly rules for fish life histories	Charnov et al. 2013	Life History
PW7 – 76	Assessing stock reproductive potential in species with indeterminate fecundity: Effects of age truncation and size dependent reproductive timing	Cooper et al. 2013	Life History
PW7 – 77	On changes in some biological parameters in the North Sea sole (<i>Solea solea</i> L.)	deVeen 1976	Life History
PW7 – 78	Growth models for red snapper in U.S. Gulf of Mexico waters estimated from landings with minimum size limit restrictions	Diaz et al. 2004	Life History
PW7 – 79	Gag grouper, marine reserves, and density-dependent sex change in the Gulf of Mexico	Ellis and Powers 2012	Life History
PW7 – 80	The illusion of plenty: hyperstability masks collapses in two recreational fisheries that target fish spawning aggregations	Erisman et al. 2011	Life History
PW7 – 81	Review of size- and age-dependence in batch spawning: implications for stock assessment of fish species exhibiting indeterminate fecundity	Fitzhugh et al. 2012	Life History
PW7 – 82	Contemporary management issues confronting fisheries science	Frank and Brickman 2001	Life History
PW7 – 83	Spawning aggregations of <i>Lutjanus cyanopterus</i> (Cuvier) on the Belize Barrier Reef over a six year period	Heyman et al. 2005	Life History

PW7 – 84	Models to compare management options for a protogynous fish	Heppell et al. 2006	Life History
PW7 – 85	BOFFFFs: on the importance of conserving old-growth age structure in fishery populations	Hixon et al. 2014	Life History
PW7 – 86	Marine Fish Population Collapses: Consequences for Recovery and Extinction Risk	Hutchings and Reynolds 2004	Life History
PW7 – 87	Exploring the structure of genetic variation and the influences of demography on effective population size in the gag grouper <i>Mycteroperca microlepi</i> (Goode & Bean)	Jue 2006	Life History
PW7 – 88	SEDAR 34 HMS Atlantic Sharpnose Stock Assessment Report	SEDAR 34	Life History
PW7 – 89	Parent-egg-progeny relationships in teleost fishes: an energetics perspective	Kalmer 2006	Life History
PW7 – 90	How to manage data to enhance their potential for synthesis, preservation, sharing, and reuse – a Great Lakes case study	Kolb et al. 2013	Life History
PW7 – 91	Characterizing fish populations: effects of sample size and population structure on the precision of demographic parameter estimates	Kritzer et al. 2001	Life History
PW7 – 92	Population dynamics and potential fisheries stock enhancement: practical theory for assessment and policy analysis	Lorenzen 2005	Life History
PW7 – 93	The relationship between body weight and natural mortality in juvenile and adult fish: a comparison of natural ecosystems and aquaculture	Lorenzen 1996	Life History
PW7 – 94	Emerging issues and methodological advances in fisheries reproductive biology	Lowerre-Barbieri et al. 2011	Life History
PW7 – 95	Reproductive timing in marine fishes: variability, temporal scales, and methods	Lowerre-Barbieri et al. 2011	Life History
PW7 – 96	Assessing reproductive resilience: an example with South Atlantic red snapper <i>Lutjanus campechanus</i>	Lowerre-Barbieri et al. 2015	Life History
PW7 – 97	Essential relationships incorporating the influence of age, size and condition on	Marteinsdottir and Begg 2002	Life History

	variables required for estimation of reproductive potential in Atlantic cod <i>Gadus morhua</i>		
PW7 – 98	A stock-recruitment model for highly fecund species based on temporal and spatial extent of spawning	Maunder and Deriso 2013	Life History
PW7 – 99	Seasonal growth of Kin George whiting (<i>Sillaginodes punctate</i>) estimated from length-at-age samples of the legal-sized harvest	McGarvey and Fowler 2002	Life History
PW7 – 100	Variability in total egg production and implications for management of the southern stock of European hake	Mehault et al. 2010	Life History
PW7 – 101	Technical Description of the Stock Synthesis Assessment Program	Methot 2000	Life History
PW7 – 102	The evaluation of reference points and stock productivity in the context of alternative indices of stock reproductive potential	Morgan et al. 2009	Life History
PW7 – 103	Is the Northern European hake, <i>Merluccius merluccius</i> , management procedure robust to the exclusion of reproductive dynamics	Murua et al. 2010	Life History
PW7 – 105	A simulation study of the implications of age-reading errors for stock assessment and management advice	Reeves 2003	Life History
PW7 – 106	Mating systems and the conservation of commercially exploited marine fish	Rowe and Hutchings 2003	Life History
PW7 – 107	The threat of fishing to highly fecund fishes	Sadovy 2001	Life History
PW7 – 108	Fishing groupers towards extinction: a global assessment of threats and extinction risks in a billion dollar fishery	Sadovy de Mitcheson et al. 2013	Life History
PW7 – 109	SEDAR 16 South Atlantic and Gulf of Mexico King Mackerel Stock Assessment Report	SEDAR 16	Life History
PW7 – 110	SEDAR33-AW23: Meta-analysis of release mortality in the gag grouper fishery	Campbell et al. 2013	Life History
PW7 – 111	SEDAR41-DW33: Size Distribution, Release Condition, and Estimated Discard Mortality of Red Snapper Observed in For-	Sauls et al. 2014 (updated 2015)	Life History

	Hire Fisheries in the South Atlantic		
PW7 – 112	Modeling Protogynous Hermaphrodite Fishes Workshop	Shepherd et al. 2013	Life History
PW7 – 113	Evaluating the predictive performance of empirical estimators of natural mortality rate using information on over 200 fish species	Then et al. 2014	Life History
PW7 – 114	Technical documentation of the Beaufort Assessment Model (BAM)	Williams and Shertzer 2015	Life History
PW7 – 115	SEDAR41-DW46: Discards of Red Snapper Calculated for Commercial Vessels with Federal Fishing Permits in the US South Atlantic	McCarthy 2015	Commercial
PW7 – 116	SEDAR 7 Gulf of Mexico Red Snapper Stock Assessment Report	SEDAR 7	Commercial
PW7 – 117	SEDAR28-DW06: Methods for Estimating Shrimp Bycatch of Gulf of Mexico Spanish Mackerel and Cobia	B. Linton 2012	Commercial
PW7 – 118	SEDAR17-DW12: Estimation of Spanish mackerel and vermilion snapper bycatch in the shrimp trawl fisher in the South Atlantic	Andrews 2008	Commercial
PW7 – 119	SEDAR 21 HMS Blacknose Shark Stock Assessment Report	SEDAR 21	Commercial
PW7 – 120	SEDAR 34 HMS Bonnerhead Shark Stock Assessment Report	SEDAR 34	Life History
PW7 – 121	SEDAR42-DW13: The use of otolith reference collections to determine ageing precision of red grouper (<i>Epinephelus morio</i>) between fisheries laboratories	Palmer et al. 2014	Life History
PW7 – 122	Design and analysis of field studies to estimate catch-and-release mortality	Pollock and Pine 2007	Life History
Process Documents			
PW7 – 60	DRAFT: South Atlantic & Gulf of Mexico Data Workshop Roles (Excel spreadsheet)		Process All Groups
PW7 – 61	DRAFT: Life History Flowchart (two versions)		Process Life History
PW7 – 62	DRAFT: Commercial Flowchart		Process

			Commercial
PW7 – 63	Recreational Flowchart		Process Recreational
PW7 – 64	DRAFT: Indices Flowchart		Process Indices
PW7 – 65	DRAFT: Pre-Data Workshop Flowchart		Process All Groups
PW7 – 66	DRAFT: South Atlantic Data Workshop Flow Chart		Process All Groups