Considering the short-term implications of directed sardine catches during 2018

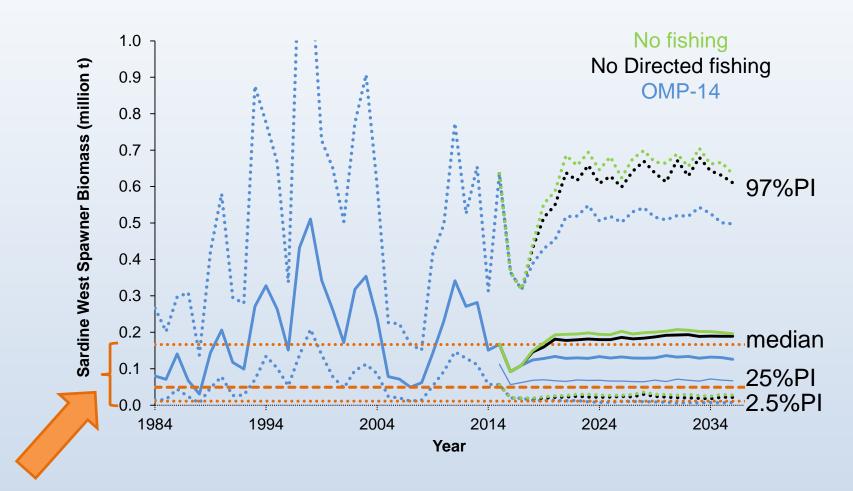
Small Pelagics Scientific Working Group 7th December 2017

Carryn de Moor



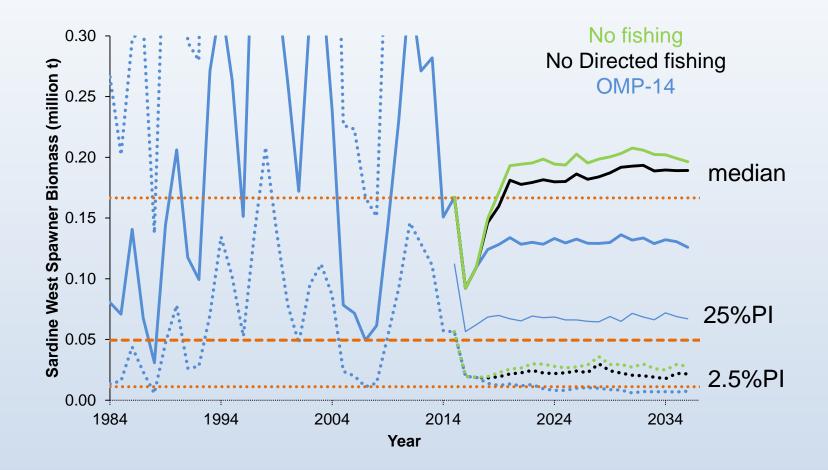
Marine Resource Assessment and Management Group (MARAM) Department of Mathematics and Applied Mathematics University of Cape Town

West Component Spawner Biomass

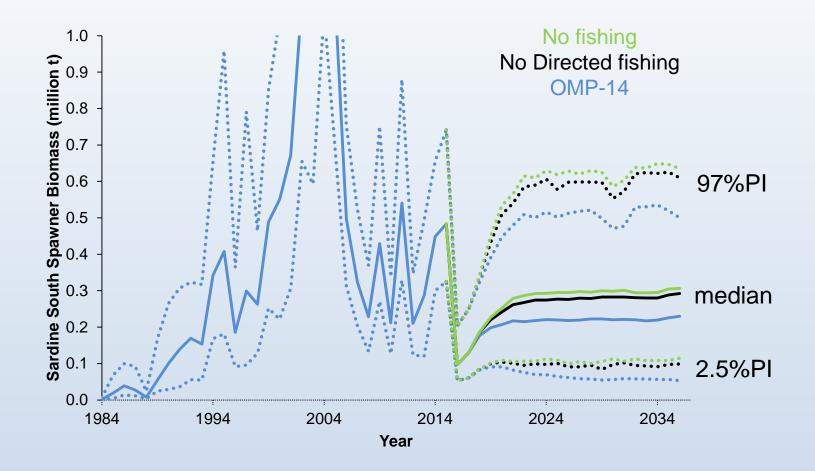


2007 Spawner biomass threshold

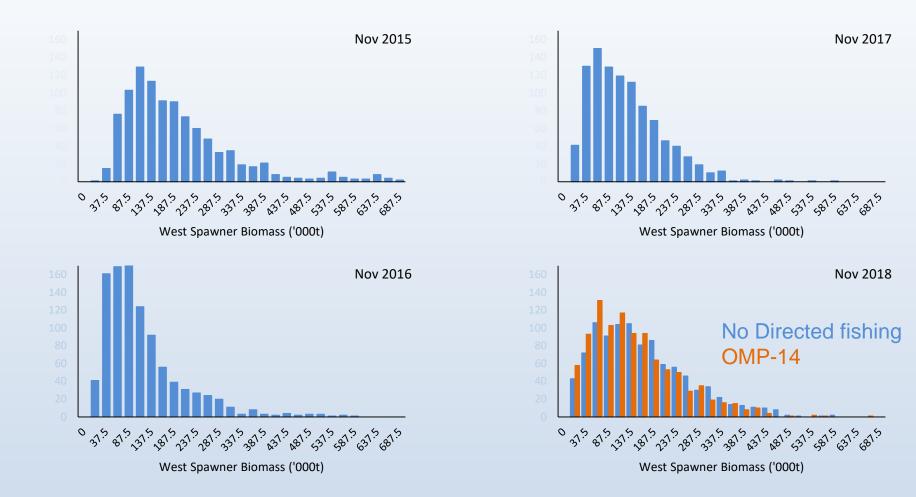
West Component Spawner Biomass



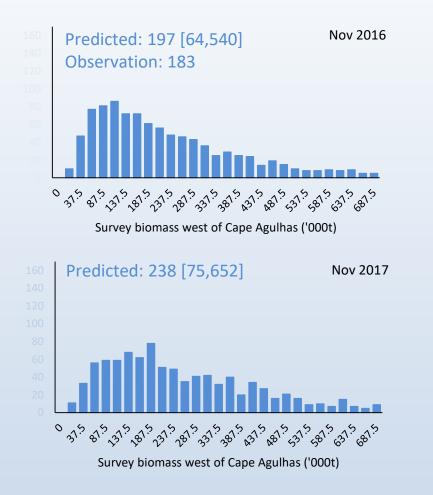
South Component Spawner Biomass

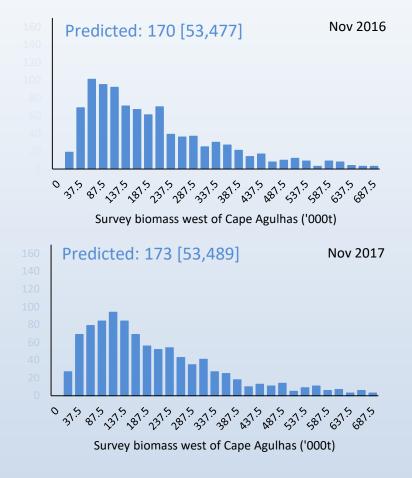


West Component Spawner Biomass



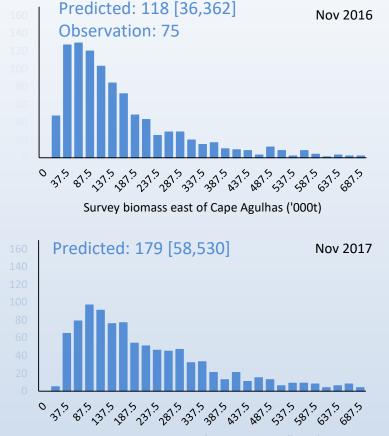
Survey Biomass West of Cape Agulhas



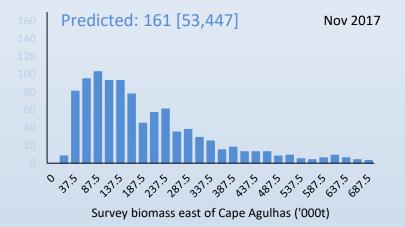


May 2017 survey estimate : 1.156 billion

Survey Biomass East of Cape Agulhas

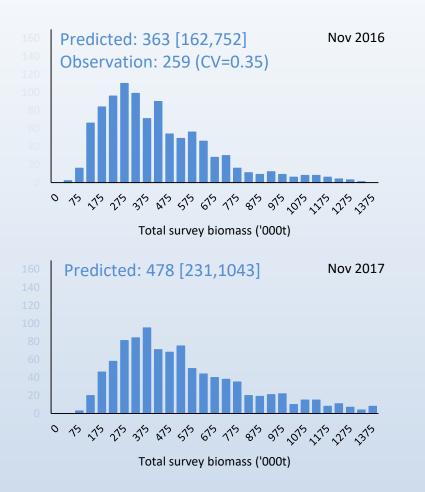


Survey biomass east of Cape Agulhas ('000t)



May 2017 survey estimate : 1.156 billion

Total Survey Biomass



Simulated short term impact of directed sardine catches during 2018

	2015	2016	2017	2018 (F=0)	2018 (OMP-14)	OMP-14 : F=0
10%ile	0.31	0.16	0.18	0.20	0.17	0.85
20%ile	0.49	0.25	0.27	0.35	0.29	0.83
30%ile	0.60	0.33	0.37	0.49	0.42	0.86
40%ile	0.78	0.42	0.47	0.63	0.54	0.86
median	0.96	0.54	0.60	0.80	0.69	0.87

Probability $(B^{Sp}_{west}(y) < B^{Sp}_{west}(2007))$						
2016	0.25					
2017	0.22					
2018 (F=0)	0.14					
2018 (OMP-14)	0.19					

2018 Total Directed Sardine Catches

