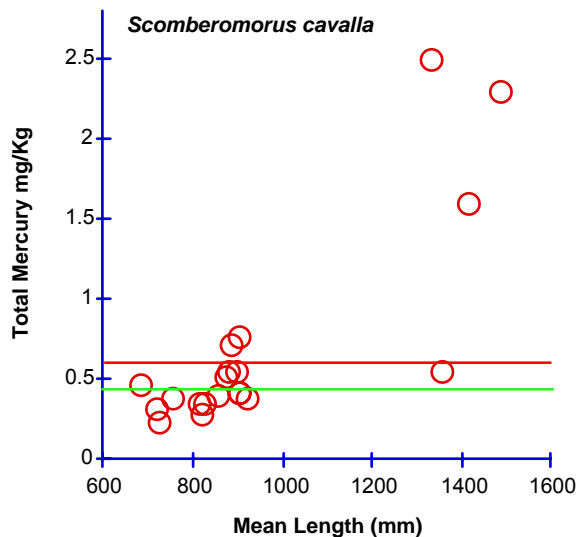


King Mackerel *Scomberomorus cavalla*

Sample locations: Offshore

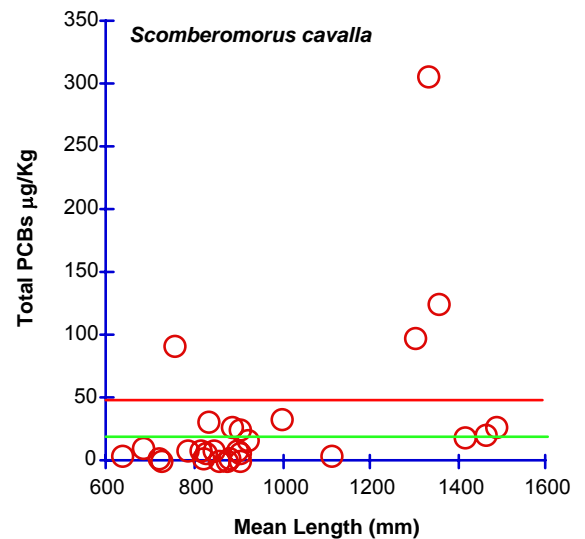
Twenty-eight fish were sampled from offshore Pensacola. Both PCBs and Hg accumulate with age in this species. Mercury content was high in these fish, and an existing consumption advisory exists based on the mercury content of larger specimens (>32"), which agrees with the recorded sizes of those fishes in this study exceeding the US EPA screening value. PCB content also exceeded the US EPA screening value at about the same size. The highest PCB loads of any offshore fish sampled were recorded for this species (92.5 µg/kg). Combined Dioxins/Furans and PCB TEQ values exceeded the US EPA screening value in 11 of 22 fish for which this data was available.

Mercury Content

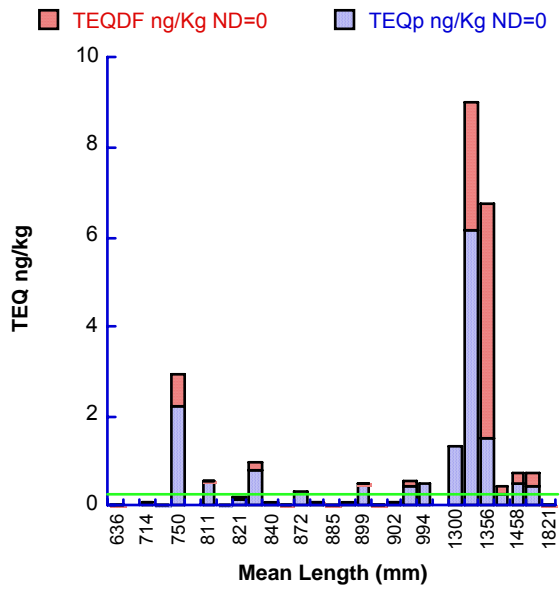


Green line: US EPA recreational consumption action limit at 0.40 mg/kg. Red line: State of Florida threshold for limited consumption at 0.60 mg/kg.

PCB Content



Red line: State of Florida action limit at 50 µg/kg. Green line: US EPA recreational consumption action limit at 20 µg/kg. These fish were taken offshore.



Toxicity of PCB molecules as a Toxic Equivalency Quotient (TEQ). The US EPA recreational consumption action limit for TEQ at 0.256 ng/kg is indicated by the green line.

Location	Mean Length (mm)	Mean Weight (g)	Sex	Mean Age	% Lipid	TEQ _{DF} ng/kg ND=0	TEQ _P ng/kg ND=0	TEQ _{DFP} ng/kg ND=0	ΣPCBs ug/kg	Hg mg/kg	LAT	LONG
Nearshore 3 Barges	714	1740.0	F		0.10	0.0032	0.0610	0.0642	3.030	0.32	30.289	-87.220
Nearshore 3 Barges	721	1700.0	F		0.10		0.0005		1.430	0.24	30.289	-87.220
Nearshore 3 Barges	811	2790.0	F	2.0	0.10	0.0178	0.5429	0.5607	9.610	0.36	30.289	-87.220
Nearshore 3 Barges	817	2860.0	F	3.0	0.80	0.0000	0.0462	0.0462	3.100	0.29	30.289	-87.220
Nearshore 3 Barges	821	2650.0	F		0.60	0.0832	0.1415	0.2247	7.910	0.35	30.289	-87.220
Nearshore 3 Barges	880	3590.0	F		0.30	0.0016	0.1033	0.1049	2.960	0.55	30.289	-87.220
Nearshore 3 Barges	885	3140.0	F	2.0	0.10	0.0090		0.0090	27.700	0.73	30.289	-87.220
Nearshore 3 Barges	893	4180.0	M	2.0	0.20	0.0000	0.0804	0.0804	8.460	0.56	30.289	-87.220
Nearshore 3 Barges	899	3910.0	F	2.0	0.30	0.0141	0.5034	0.5175	25.900	0.42	30.289	-87.220
Nearshore 3 Barges	994	5300.0	M	9.0	0.10		0.4776		34.100		30.289	-87.220
Nearshore Paradise Hole	636	1260.0	M	2.0	0.10	0.0093	0.0018	0.0111	5.120		30.216	-87.446
Nearshore Paradise Hole	681	1450.0	NT		0.50				11.900	0.47	30.216	-87.446
Nearshore Paradise Hole	840	2930.0	F	3.0	0.10		0.1058		8.840		30.216	-87.446
Nearshore Paradise Hole	855	3170.0	F	3.0	0.20	0.0081	0.0008	0.0089	1.860	0.41	30.216	-87.446
Nearshore Paradise Hole	872	2610.0	F	3.0	0.50	0.0000	0.3362	0.3362	1.410	0.52	30.216	-87.446
Offshore outer shelf	750	5090.0	M		6.00	0.7228	2.2172	2.9400	92.459	0.39	29.847	-87.304
Offshore outer shelf	900	3680.0	F		0.20	0.0013	0.0008	0.0021	1.680	0.77		
Offshore outer shelf	902	3480.0	F		0.10	0.0069	0.0639	0.0708	6.630	0.43		
Offshore outer shelf	919	3870.0	F		0.30	0.1255	0.4262		17.700	0.39		
Offshore outer shelf	1109	7440.0	F	11.0	0.80				4.980			
Offshore outer shelf	1300	1255.0	F	13.0	0.50		1.3320		98.300			
Offshore outer shelf	1330	15000.0	F		8.00	2.8670	6.1700	9.0370	307	2.5		
Offshore outer shelf	1356	14840.0	F		5.30	5.2370	1.4995	6.7365	125	0.55		
Offshore outer shelf	1413	17540.0	F		0.40	0.2077	0.2560	0.4637	18.8	1.6		
Offshore outer shelf	1458	23500.0	F		0.30	0.2606	0.4977	0.7583	22.7	3.6		
Offshore outer shelf	1484	18080.0	F		0.50	0.2946	0.4368	0.7314	27.4	2.3		
Offshore outer shelf	1821	28360.0	F		0.10	0.0055	0.0028	0.0083	2.82	4.9		
Pensacola Beach Pier	780	3855.0	F		0.20				8.412		30.330	-87.141
Pensacola Beach Pier	830	4820.0	F		6.40	0.2081	0.7822	0.9903	32.185		30.330	-87.141