

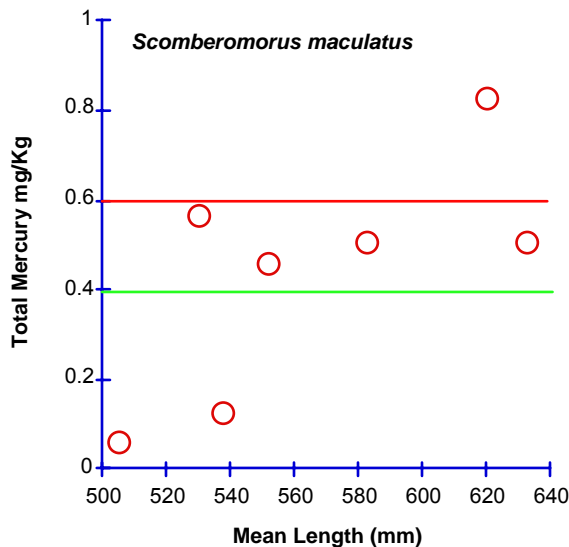


## Spanish Mackerel *Scomberomorus maculatus*

**Sample locations:** Pensacola Pass, offshore

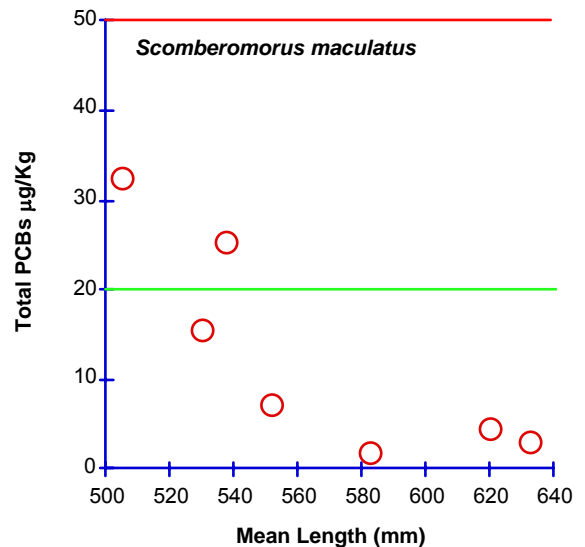
Seven samples of individual fish were collected from Pensacola pass and along the gulf shoreline of Santa Rosa Island. Mercury content increased with size of the fish, with five of seven samples exceeding the US EPA screening value. PCBs however, decreased with increasing size, with the two smallest fish exceeding the US EPA Screening value for total PCBs, consistent with younger fish foraging in the estuary and older fish moving offshore. The highest PCB toxicity as TEQ was for two of the larger specimens, indicating that despite lower total PCB, more toxic congeners were more prevalent with age.

### Mercury Content

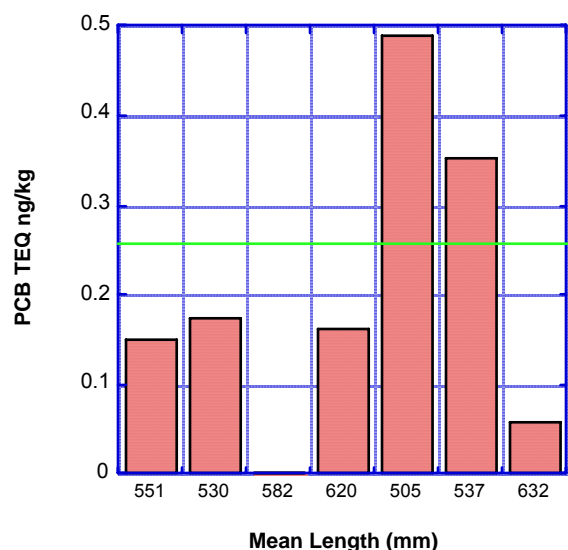


Green line: US EPA recreational consumption action limit at 0.40 mg/kg. Red line: State of Florida threshold for limited consumption at 0.60 mg/kg.

### 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 PCBs (TEQ<sub>P</sub>) in Spanish mackerel from inshore and offshore Pensacola, FL. One sample was close to zero. The US EPA recreational consumption action limit is indicated by the green line at 0.256 ng/kg.

Location	n	Mean Length (mm)	Mean Weight (g)	% Lipids	TEQ <sub>DF</sub> ng/kg ND=0	TEQ <sub>P</sub> ng/kg ND=0	TEQ <sub>DFP</sub> ng/kg ND=0	ΣPCBs ug/kg	Hg mg/kg	LAT	LONG
Nearshore 3 Barges	1	551	960.0	1.60	0.1026	0.1515	0.2541	7.350	<b>0.46</b>	30.288	-
Offshore outer shelf	1	530	900.0	1.00	<b>0.2643</b>	0.1733	<b>0.4376</b>	15.700	<b>0.57</b>		
Offshore outer shelf	1	582	1020.0	0.10	0.0210	0.0008	0.0218	2.010	<b>0.51</b>		
Offshore outer shelf	1	620	13750.0	0.30	0.0930	0.1619	0.2549	4.570	<b>0.83</b>		
Pensacola Bay Pass	1	505	680.0	3.20		<b>0.4892</b>		<b>32.423</b>	0.062	30.326	87.307
Pensacola Bay Pass	1	537	870.0	2.30		<b>0.3539</b>		<b>25.354</b>	0.13	30.326	87.307
Pensacola Bay Pass	1	632	128.0	0.10	0.0012	0.0587	0.0599	3.020	<b>0.51</b>	30.326	87.307