

Table B.1 1999 FMP size ranges for different life stages of sharks.

	Map Neonates/ early juveniles TL (cm) ≤ or range	Text Pup size TL (cm)	Map Late Juveniles/ subadults TL (cm)	Text: M maturity TL (cm) ≥ or range	Text: F maturity TL (cm) ≥ or range	Map Adults TL (cm) ≥ or range
Large Coastal Sharks						
Cetorhinidae Cetorhinus maximus	N/A (text 270)	180	271-810	460-610	810-980	810
Sphyrnidae Sphyrna mokarran	N/A (text 70)	67	71-220	210-258	210-220	221
S. lewini	45	38-45	46-249	140-185	200	250
S. zygaena	N/A		N/A			N/A
Lamnidae Carcharodon carcharias	(text 175)	120-150	175-479	370-340	370-340	(text 480)
Ginglymostomatidae Ginglymostoma cirratum	13-60	30	61-225	225	225	226
Carcharhinidae Carcharhinus altimus	70-155	70	156-220	213	221	N/A (text 221)
C. limbatus	99 (text 100)	55-60	100-155 (text 100-156)	139-145	153-156	156
C. leucas	110	75	111-225	210-220	225	226
C. perezi	N/A (text 105)	70	106-199	170	200	N/A (text 200)
C. obscurus	115	85-100	116-300	290	300	301

	Map Neonates/ early juveniles TL (cm) ≤ or range	Text Pup size TL (cm)	Map Late Juveniles/ subadults TL (cm)	Text: M maturity TL (cm) ≥ or range	Text: F maturity TL (cm) ≥ or range	Map Adults TL (cm) ≥ or range
C. galapagensis	N/A	80	N/A	205-239	215-245	N/A (text 215)
Negaprion brevirostris	90	64	91-228	228	228	229
C. brachyurus	N/A (text 100)	60-70	N/A (text 101-230)	200-220	247 (text 231)	N/A
C. signatus	N/A (text 100)	68-72	101-178	N/A	178	179
C. plumbeus	90	60	90-179	180	180	180
C. falciformis	55-97	75-80	98-231	225	232-245	N/A (text 232)
C. brevipinna	90	60-75	91-154	130	150-155	155
Galeocerdo cuvier	120	68-85	121-289	290	290	290
Odontaspidae Odontaspis noronhai	N/A	N/A	N/A	N/A	N/A	N/A
Carcharias taurus	125	100	N/A (text 126-220)	190-195	220-229	221
Rhincodontidae Rhincodon typus	N/A	N/A	N/A	N/A	N/A	N/A
Small Coastal Sharks						
Squatinae Squatina dumeril	50	28-30	51-105	90-105	90-105	106

	Map Neonates/ early juveniles TL (cm) ≤ or range	Text Pup size TL (cm)	Map Late Juveniles/ subadults TL (cm)	Text: M maturity TL (cm) ≥ or range	Text: F maturity TL (cm) ≥ or range	Map Adults TL (cm) ≥ or range
Sphyrnidae Sphyrna tiburo	50	27-35	51-84	70	85	85
Carcharhinidae Rhizoprionodon terraenovae	17-55	29-32	56-84	65-80	85-90	85
Carcharhinus acronotus	35-75	50	76-99	100	100	100
R. porosus	N/A	N/A	N/A	N/A	N/A	N/A
C. isodon	90	48-58	91-135	130	135	136
C. porosus	N/A	N/A	N/A	N/A	N/A	N/A
Pelagic Sharks						
Hexanchidae Hexanchus vitulus	N/A	N/A	N/A	N/A	N/A	N/A
Heptranchias perlo	N/A	25	N/A	85-90	85-90	N/A
Hexanchus griseus	N/A	60-70	N/A	325	421	N/A
Lamnidae Isurus paucus	no sizes	N/A	no sizes	N/A	N/A	no sizes
Lamna nasus	50-100	76	101-224	150-200	200-250	225-280
I. oxyrinchus	95	N/A	96-279	N/A	N/A	280

	Map Neonates/ early juveniles TL (cm) ≤ or range	Text Pup size TL (cm)	Map Late Juveniles/ subadults TL (cm)	Text: M maturity TL (cm) ≥ or range	Text: F maturity TL (cm) ≥ or range	Map Adults TL (cm) ≥ or range
Carcharhinidae Prionace glauca	75	34-48	76-220	218	166-243	221
Carcharhinus longimanus	115	65-75	116-190	190	190	191
Alopiidae Alopias superciliosus	N/A (text 135)	N/A	136-339	270	340	340
A. vulpinus	200	137-155	200-319	333	315	320

Table B.2 Size ranges used in this Amendment for mapping distribution data for different life stages of sharks.

	Neonates max embryo+10% TL (cm) ≤	Literature embryo size range or max embryo size in term females TL (cm)	Juveniles TL (cm)	Literature M maturity TL (cm) ≥ or range	Literature F maturity TL (cm) ≥ or range	Adults F 1st mat TL (cm) ≥
Large Coastal Sharks						
Cetorhinidae Cetorhinus maximus	182	165** Castro 83	183-809		810 Castro 99	810
Sphyrnidae Sphyrna mokarran	74	67.5 Clarke & von Schmidt 65	75-209		210-220 Steven & Lyle 89	210
S. lewini	50	39-51 Clarke 71, Carlson 2002	51-227		228 Steven & Lyle 89	228
S. zygaena	66	60** NMFS upubl.	67-283		284 Castro & Mejuto 95	284
Lamnidae Carcharodon carcharias	166	151 Uchida <i>et al</i> 96	167-479		480 Uchida <i>et al</i> 96	480
Ginglymostomatidae Ginglymostoma cirratum	N/A*	28-30.5 Castro 00	37-221	214-214.6 Castro 00	222-232 Castro 00	222
Carcharhinidae Carcharhinus altimus	67	61 Springer 60	68-225		226 Springer 60	226
C. limbatus	66	45-70***	67-149	125-140	141-152	156
C. leucas	83	55-85 Clarke & von Schmidt 65	84-225		226 Branstetter & Stiles 87	226
C. perezi	66	60**** Castro 83	67-199		200 Compagno 84	200
C. obscurus	110	85-100 Castro 83	111-299	290 Castro 83	300 Castro 83	300

	Neonates max embryo+10% TL (cm) ≤	Literature embryo size range or max embryo size in term females TL (cm)	Juveniles TL (cm)	Literature M maturity TL (cm) ≥ or range	Literature F maturity TL (cm) ≥ or range	Adults F 1st mat TL (cm) ≥
C. galapagensis - NO DATA (all Atlantic data off Bermuda)	N/A	81 Wetherbee <i>et al</i> 96	N/A		215 Wetherbee <i>et al</i> 96	N/A
Negaprion brevirostris	68	62 Clarke & von Schmidt 65	69-235		236 Clarke & von Schmidt 65	236
C. brachyurus - NO DATA	N/A	N/A	N/A	N/A	N/A	N/A
C. signatus	70	55-75 Raschi <i>et al</i> 82	71-199	185-190	200-205	200
C. plumbeus	70	44.2-64 Castro 93b	71-147	139-153 Merson 98	148-175 Merson 98	148
C. falciformis	85	77 Bonfil <i>et al</i> 93	86-231		232 Branstetter 87 Bonfil <i>et al</i> 93	232
C. brevipinna	71	60-75 Branstetter 81	72-184		185	185
Galeocerdo cuvier	90	82 NMFS upubl.	91-296		297 Clarke & von Schmidt 65	297
Odontaspidae Odontaspis noronhai - NO DATA	N/A	N/A	N/A	N/A	N/A	N/A
Carcharias taurus	117	106 Gilmore <i>et al</i> 83	118-236		236.6 Gilmore <i>et al</i> 83	237
Rhincodontidae Rhincodon typus LITTLE DATA, ONE MAP	N/A		N/A			N/A
Small Coastal Sharks Squatinae Squatina dumeril						
	28	26****	26-82	84	89	89

	Neonates max embryo+10% TL (cm) ≤	Literature embryo size range or max embryo size in term females TL (cm)	Juveniles TL (cm)	Literature M maturity TL (cm) ≥ or range	Literature F maturity TL (cm) ≥ or range	Adults F 1st mat TL (cm) ≥
Sphyrnidae Sphyrna tiburo	38	22-30*****	40-66	66-83	77-94 Parsons 93	77
Carcharhinidae Rhizoprionodon terraenovae	40	36 Parsons 83	41-75	73-75	70-85 Loefer & Sedberry 03 Carlson and Baremore 03	76
Carcharhinus acronotus	48	38-44	95	108	115 Hazin <i>et al</i> 02	115
R. porosus - NO DATA	N/A					N/A
C. isodon	64	43.7-58 Castro 93a & 93b	65-120	119-130	123-132	123
C. porosus LITTLE DATA, ONE MAP	N/A	30	30-70	71-75	70	70
Pelagic Sharks						
Hexanchidae Hexanchus vitulus LITTLE DATA, ONE MAP	N/A		N/A		158 Springer & Waller 69	N/A
Heptranchias perlo LITTLE DATA, ONE MAP	N/A		N/A		89-93 Compagno 84	N/A
Hexanchus griseus LITTLE DATA, ONE MAP	N/A		N/A		421 Ebert 86	N/A
Lamnidae Isurus paucus	149	135.5 NMFS upubl	150-244		245 Guitart-Manday 66	245
Lamna nasus	79	72 Jensen <i>et al</i> 02	80-209		210 Jensen <i>et al</i> 02	210
I. oxyrinchus	85	77	108-262		263	263

	Neonates max embryo+10% TL (cm) ≤	Literature embryo size range or max embryo size in term females TL (cm)	Juveniles TL (cm)	Literature M maturity TL (cm) ≥ or range	Literature F maturity TL (cm) ≥ or range	Adults F 1st mat TL (cm) ≥
		Duffy & Francis 01			Mollet <i>et al</i> 00	
Carcharhinidae						
Prionace glauca	60	54.4 Pratt 1979	61-183		184 Williams 1977	184
C. longimanus	83	75 Seki <i>et al</i> 98	84-136		137 Seki <i>et al</i> 98	137
Alopiidae						
Alopias superciliosus	116	105.5 Gilmore 83	117-340		341 Moreno & Moron 92	341
A. vulpinus	175	159 Moreno <i>et al</i> 89	176-388		389 Moreno <i>et al</i> 89	389

*nurse sharks below 37 cm TL in the 1999 FMP database were actually embryos and not free swimming sharks

**confirmed report of the smallest free swimming individual, not an embryo

***Castro has seen one litter with sizes beyond the above range (70.4-74.2 cmTL). This litter was not included because it was unusually large for this species.

****based on estimated size at birth

*****average of three full term embryos from one female collected in Tampa Bay, FL

Table B.3 Blacktip shark (*Carcharinus limbatus*) Life History and Habitat Characteristics. From Amendment 1 to the FMP.

Life Stage	Species Distributions		Habitat Characteristics				Source*
	Location	Season	Temp (°C)	DO (mg/l)	Sal (ppt)	Depth (m)	
			B = bottom and S = surface				
Neonate and young of the year (YOY)	Off Yaupon and Holden Beaches, NC	summer primary nursery	no data	no data	no data	no data	Jensen et al (2002)
	SC estuarine and nearshore waters	summer primary nursery, pupping late May/early June to early July	no data	no data	no data	no data	Ulrich and Riley, SEAMAP (2002)
	GA estuarine waters	summer primary nursery (June-Sept)	21-30.4	4.35-6.08	22-36.1	0.5-11.6	Belcher and Shierling Gurshin
	Yankeetown to 10,000 Islands on the west coast of Florida, Cape Canaveral on the east coast of FL and the Florida Keys. Also found in the Marquesas Islands west of the Florida Keys	summer primary nursery (June-Oct); FL Keys – found year round; Marquesas Islands – overwintering grounds	19.1-33.6	3.28-9.26	15.8-41.1	0.9-12.5	Hueter and Tyminski, Michel and Steiner
	Northeast Gulf of Mexico (Apalachee Bay, Apalachicola Bay, St. Joseph Bay, Crooked Island Sound and St Andrew Bay)	summer primary nursery	22.5-31.4	3.6-7	19-38	2.1-6	Carlson
	From the mouth of St Louis Bay, MS to the tip of Fort Morgan, AL	summer primary nursery (May-Sept)	B 29.3 S 30.6 22.6-32.4	B 6.6 S 6.6 no data	B 20.3 S 17.8 18-34.7	3.4 1.2-5.2	Parsons (env. parameters are average values Neer et al
	Terrebonne/Timbalier Bay System, LA	summer primary nursery (May-Sept)	16.7-34	no data	0-54	no data	Jones and Grace
	All major bay systems along the Gulf coast of Texas from Sabine Lake to Lower Laguna Madre						

Life Stage	Species Distributions		Habitat Characteristics				Source*
Juvenile	Nearshore and inshore waters from Cape Hatteras and Core Sound to Holden Beach, NC	summer secondary nursery	no data	no data	no data	no data	Jensen et al.
	SC estuarine and nearshore waters	secondary summer and overwintering nursery (May-Dec)	18-24	no data	no data	no data	Ulrich and Riley, SEAMAP, Hueter and Tyminski
	GA estuarine waters	summer secondary nursery (June-Sept)	21-30.4	4.35-6.08	22-36.1	0.5-11.6	Belcher and Shierling, Gurshin
	Yankeetown to 10,000 Islands on the west coast of Florida, Cape Canaveral on the east coast of FL and the Florida Keys	summer secondary nursery (March-Nov); warm water effluents of Tampa Bay and Yankeetown power plants during winter months	20.8-33.6	2-8.3	27-38	0.7-5	Hueter and Tyminski, Michel and Steiner
	Northeast Gulf of Mexico (Apalachee Bay, Apalachicola Bay, St. Joseph Bay, Crooked Island Sound and St Andrew Bay)	summer secondary nursery	16-32.5	1.9-8.3	19-38	0.7-6.4	Carlson
	north central Gulf of Mexico	summer secondary nursery	B 27.3-28.1	B 3.2-6.2	B 34.3-37	5.8-7.6	
	Coastal Alabama off Dauphin Island and Mobile Point	summer secondary nursery	B 28 S 28.8	B 6.3 S 6.9	B 19.4 S 17.7	3.1	
	From the mouth of St Louis Bay, MS to the tip of Fort Morgan, AL	summer secondary nursery (April-Nov)	22.6-32.4	no data	18-34.7	1.2-5.2	Gurshin
	Terrebonne/Timbalier Bay System, LA	summer secondary nursery					Parsons (env. parameters are average values)
All major bay systems along the Gulf coast of Texas from Galveston Bay to Lower Laguna Madre, except Corpus Christi Bay						Neer et al	
						Jones and Grace	
Adult	Outer Banks of NC, St Augustine to Cape Canaveral, FL,		Unk	Unk	Unk	Unk	

* Contributing authors in: McCandless, C.T., H.L. Pratt Jr., and N.E. Kohler. 2002. Shark nursery grounds of the Gulf of Mexico and the East Coast waters of the United States: an overview. Authors and papers are cited separately in References section.

Table B.4 Dusky shark (*Carcharinus obscurus*) Life History and Habitat Characteristics.

Life Stage	Species Distributions		Habitat Characteristics				Source*
	Location	Season	Temp (C)	DO (mg/l)	Sal (ppt)	Depth (m)	
			B = bottom and S = surface				
Neonate and young of the year (YOY)	Nearshore waters from Cape Hatteras to Bogue Banks and off Holden Beach, NC	Oct and Nov; pupping April and May off Holden beach	no data	no data	no data	no data	Jensen et al, SEAMAP
	SC coastal waters	transient or overwintering nursery (Nov)	18	no data	no data	no data	Ulrich and Riley
Juvenile	In the coastal waters of Martha's Vineyard, MA (off East and South Beaches of Chappaquiddick Island)	summer secondary nursery	17-24	no data	no data	4.8-19.2	Skomal
	Exposed nearshore waters in Virginia, rarely enter the estuaries (one juvenile female (79cm PCL) caught in lower Chesapeake Bay in August of 1990	summer secondary nursery	no data	no data	no data	no data	Grubbs and Musick
	Nearshore waters from Cape Hatteras to Holden Beach, NC	summer secondary and overwintering nursery grounds	18.1-22.2	no data	no data	4.3-15.5	Jensen et al, SEAMAP
	SC coastal waters	transient or overwintering nursery (Nov)	18	no data	no data	no data	Ulrich and Riley
Adult	Pelagic waters offshore the Virginia/North Carolina border and south to Fort Lauderdale, FL Nearshore waters beginning at the border of Georgia and Florida south to Fort Lauderdale	Migrations moving north-south with the seasons	Unk	Unk	Unk	Unk	

* Contributing authors in: McCandless, C.T., H.L. Pratt Jr., and N.E. Kohler. 2002. Shark nursery grounds of the Gulf of Mexico and the East Coast waters of the United States: an overview. Authors and papers are cited separately in References section.

Table B.5 Sandbar shark (*Carcharinus plumbeus*) Life History and Habitat Characteristics

Life Stage	Species Distributions		Habitat Characteristics				Source*
	Location	Season	Temp (C)	DO (mg/l)	Sal (ppt)	Depth (m)	
			B = bottom and S = surface				
Neonate and young of the year (YOY)	Great Bay, NJ	summer primary nursery (pupping early July)	23.8	7.01	26.5	2.4	Merson and Pratt
	Delaware Bay (DE & NJ waters)	summer primary nursery (June-Oct with majority of pupping from late June to early July)	18-29.9	no data	18.3-30.4	0.9-16.6	McCandless et al
	Lower Chesapeake Bay, VA and the tidal creeks and lagoons along Virginia's Eastern Shore	summer primary nursery	17-28	no data	no data	no data	Grubbs and Musick
	In coastal waters from Cape Hatteras to Bogue Banks, off Holden Beach and in Pamlico Sound, NC	summer primary nursery (May-July); overwintering grounds off Cape Hatteras, NC (catches increase greatly in Oct and Nov)	no data	no data	no data	no data	Jensen et al, SEAMAP
	SC estuarine and nearshore coastal waters	summer primary nursery (May-Sept), with coastal waters also serving as overwintering grounds	no data	no data	no data	no data	Ulrich and Riley
	GA estuarine waters	summer primary nursery (June-Sept)	26.9-30.1	4-5.9	29.6-30.1	3.7-13.1	
	Off Yankeetown, FL (N=3)	summer primary nursery (June-Sept)	25-29	no data	20.4-25.4	2.4-3.7	Belcher and Shierling
	Northeast Gulf of Mexico (Apalachicola Bay and Crooked Island)	summer primary nursery	26.6-30.8	5-7.3	19-39	3-5.2	Hueter and Tyminski
		summer primary nursery					Carlson

Life Stage	Species Distributions		Habitat Characteristics				Source*
Juvenile	Cape Poge Bay, MA, around Chappaquiddick Island, MA (East and South Beaches), and off the south shore of Cape Cod, MA	summer secondary nursery (June -Oct)	20-24	no data	no data	2.4-6.4	Skomal
	Delaware Bay (DE & NJ waters)	summer secondary nursery (May-Oct)	15.5-30	no data	18.3-31.4	0.8-23	McCandless et al
	Lower Chesapeake Bay, VA and the tidal creeks and lagoons along Virginia's Eastern Shore	summer secondary nursery (May-Oct)	17-28	no data	no data	no data	Grubbs and Musick
	Coastal NC waters	summer secondary nursery; overwintering grounds off Cape Hatteras, NC	22.6-28.1	no data	no data	no data	
	SC estuarine and coastal waters	summer secondary (April - Sept) and overwintering grounds (Dec)	15-28	no data	no data	no data	Jensen et al, SEAMAP
	GA estuarine waters	summer secondary nursery (June-Sept)	26.9-30.1	4-5.9	29.6-30.1	3.7-13.1	
	Northeast Gulf of Mexico (Apalachicola Bay and Crooked Island Sound)	summer secondary nursery	19.8-30.8	5-7.3	19-36	2.1-5.2	Ulrich and Riley, SEAMAP
	North central Gulf of Mexico (just north of Cat and Horn Islands, MS) (N=4)	summer secondary nursery	23.3-24.4	8-8.3	13.4-14.8	2.1	
	Upper Texas coast, LA coast, and Bulls Bay, SC	spring/summer secondary nursery	no data	no data	no data	no data	Belcher and Shierling
							Carlson
						Parsons	
						Hueter and Tyminski	
Adult	Unk	Unk	Unk	Unk	Unk	Unk	

* Contributing authors in: McCandless, C.T., H.L. Pratt Jr., and N.E. Kohler. 2002. Shark nursery grounds of the Gulf of Mexico and the East Coast waters of the United States: an overview. Authors and papers are cited separately in References section.

Table B.6 Nurse shark (*Ginglymostoma cirratum*) Life History and Habitat Characteristics.

Life Stage	Species Distributions		Habitat Characteristics				Source*
	Location	Season	Temp (C)	DO (mg/l)	Sal (ppt)	Depth (m)	
			B = bottom and S = surface				
Neonate and young of the year (YOY)	Charlotte Harbor, FL and the Florida Keys	primary nursery	31.7	7.01	33.9	2.1	Hueter and Tyminski
Juvenile	Tampa Bay, Charlotte Harbor, 10,000 Islands Estuary and the Florida Keys	secondary nursery (April-Nov)	17.5-32.9	3.1-9.7	28-38.5	0.6-2.9	Hueter and Tyminski, Michel and Steiner
	Dry Tortugas, FL	summer secondary nursery	no data	no data	no data	no data	Pratt and Carrier
	Northeast Gulf of Mexico (Apalachee Bay, Apalachicola Bay, and Crooked Island Sound)	summer secondary nursery	22.6-28.1	5-8.3	27-37	3.5-6	Carlson
Adult	From tropical West Africa and the Cape Verde Islands in the east, and from Cape Hatteras to Brazil in the west. Littoral waters of the tropical and subtropical Atlantic, shallow water, often under coral reefs or rocks	Unk	Unk	Unk	Unk	Unk	

* Contributing authors in: McCandless, C.T., H.L. Pratt Jr., and N.E. Kohler. 2002. Shark nursery grounds of the Gulf of Mexico and the East Coast waters of the United States: an overview. Authors and papers are cited separately in References section.

Table B.7 Essential fish habitat maps by species.

<p>TUNAS Figure B.1 to B.3 Atlantic Albacore (<i>Thunnus alalunga</i>) Figure B.4 to B.6 Atlantic Bigeye Tuna (<i>Thunnus obesus</i>) Figure B.7 to B.9 Atlantic Bluefin Tuna (<i>Thunnus thynnus</i>) Figure B.10 to B.12 Atlantic Skipjack (<i>Katsuwonus pelamis</i>) Figure B.13 to B.15 Atlantic Yellowfin Tuna (<i>Thunnus albacares</i>)</p> <p>SWORDFISH Figure B.16 to B.18 Swordfish (<i>Xiphias gladius</i>)</p> <p>BILLFISH Figure B.19 to B.21 blue marlin (<i>Makaira nigricans</i>) Figure B.22 to B.24 white marlin (<i>Tetrapturus albidus</i>) Figure B.25 to B.27 sailfish (<i>Istiophorus platypterus</i>) Figure B.28 to B.30 spearfish (<i>Tetrapturus pfluegeri</i>)</p> <p>LARGE COASTAL SHARKS Basking sharks - Cetorhinidae Figure B.31 to B.33 basking shark (<i>Cetorhinus maximus</i>) Hammerhead sharks - Sphyrnidae Figure B.34 to B.36 great hammerhead (<i>Sphyrna mokarran</i>) Figure B.37 to B.39 scalloped hammerhead (<i>S. lewini</i>) Figure B.40 to B.42 smooth hammerhead (<i>S. zygaena</i>) Mackerel sharks - Lamnidae Figure B.43 to B.45 white shark (<i>Carcharodon carcharias</i>) Nurse sharks - Ginglymostomatidae Figure B.46 to B.48 nurse shark (<i>Ginglymostomatidae cirratum</i>) Requiem sharks - Carcharhinidae Figure B.49 to B.51 bignose shark (<i>Carcharhinus altimus</i>) Figure B.52 to B.54 blacktip shark (<i>C. limbatus</i>) Figure B.55 to B.57 bull shark (<i>C. leucas</i>) Figure B.58 to B.60 Caribbean reef shark (<i>C. perezi</i>) Figure B.61 to B.63 dusky shark (<i>C. obscurus</i>) Figure B.64 to B.66 lemon shark (<i>Negaprion brevirostris</i>) Figure B.67 to B.69 night shark (<i>C. signatus</i>) Figure B.70 to B.73 sandbar shark (<i>C. plumbeus</i>) Figure B.74 to B.76 silky shark (<i>C. falciformis</i>) Figure B.77 to B.79 spinner shark (<i>C. brevipinna</i>) Figure B.80 to B.82 tiger shark (<i>Galeocerdo cuvieri</i>)</p>	<p>Sand tiger sharks - Odontaspidae Figure B.83 to B.85 sand tiger shark (<i>Odontaspis taurus</i>)</p> <p>SMALL COASTAL SHARKS Angel sharks - Squatinidae Figure B.86 to B.88 Atlantic angel sharks (<i>Squatina dumerili</i>) Hammerhead sharks - Sphyrnidae Figure B.89 to B-91 bonnethead (<i>Sphyrna tiburo</i>) Requiem sharks - Carcharhinidae Figure B.92 to B-94 Atlantic sharpnose (<i>R. terraenovae</i>) Figure B.95 to B-97 blacknose shark (<i>C. acronotus</i>) Figure B.98 to B-100 finetooth shark (<i>C. isodon</i>) Figure B.101 smalltail shark (<i>C. porosus</i>)</p> <p>PELAGIC SHARKS Cow sharks - Hexanchidae Figure B.102 bigeye sixgill shark (<i>Hexanchus vitulus</i>) Figure B.103 sevengill shark (<i>Hepranchias perlo</i>) Figure B.104 sixgill shark (<i>Hexanchus griseus</i>) Mackerel sharks - Lamnidae Figure B.105 to B.107 longfin mako (<i>Isurus paucus</i>) Figure B.108 to B.110 porbeagle shark (<i>Lamna nasus</i>) Figure B.111 to B.113 shortfin mako (<i>Isurus oxyrinchus</i>) Requiem sharks - Carcharhinidae Figure B.114 to B.116 blue shark (<i>Prionace glauca</i>) Figure B.117 to B.119 oceanic whitetip shark (<i>C. longimanus</i>) Thresher sharks - Alopiidae Figure B.120 to B.121 bigeye thresher (<i>Alopias superciliosus</i>) Figure B.122 to B.124 thresher shark (<i>A. vulpinus</i>)</p>
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Table B.8 List of abbreviations and acronyms for EFH data sources used in the maps.

Belcher	Belcher and Shierling 2002
Carlson	Carlson 2002
COASTSPAN	Cooperative Atlantic States Shark Pupping and Nursery Area Program
CSTP	Cooperative Shark Tagging Program
CTS	Cooperative Tagging System
Govoni	Govoni <i>et al.</i> , 2003
Gurshin	Gurshin 2002
Jensen	Jensen <i>et al.</i> , 2002
Jones/Grace	Jones and Grace 2002
Michel/ST	Michel and Steiner 2002
Mote	Mote Marine Laboratory
Neer	Neer <i>et al.</i> , 2002
Parsons	Parsons 2002
POP	Pelagic Observer Program
SEAMAP	Southeast Area Monitoring and Assessment Program
SELL	Southeast Longline Survey
SOP	Shark Observer Program
Ulrich	Ulrich and Riley 2002