

Supplement: Details on Diet Studies Used in the Meta-Analysis

Supplementary Table S.1. Complete list of references accessed during the meta-analysis, presented for each functional group (groups are defined in Table 2; N = number of references consulted).

Group	References
Dolphins ($N = 19$)	Gunter 1942; Leatherwood 1975; Leatherwood et al. 1978; Barros and Odell 1990; Mead and Potter 1990; Barros 1992, 1993; González et al. 1994; Barros and Wells 1998; Blanco et al. 2001; Di Benedetto et al. 2001; Santos et al. 2001, 2007; Gannon and Waples 2004; Spitz et al. 2006; McCabe et al. 2010; Melo et al. 2010; Bowen 2011; Pate and McFee 2012
Seabirds ($N = 42$)	Baldwin 1946; Palmer 1962; Retfalvi 1970; Robertson 1974; Ofelt 1975; Schreiber and Hensley 1976; Blus et al. 1979; McEwan and Hirth 1980; Fogarty et al. 1981; Dugoni et al. 1986; King 1989; McLean and Byrd 1991; Berruti et al. 1993; Campo et al. 1993; Ewins et al. 1994; Findholt and Anderson 1995; Barr 1996; Pedrocchi et al. 1996; Blackwell et al. 1997; Granadeiro et al. 1998; Rail and Chapdelaine 1998; Shealer 1998; Calixto-Albarrán and Osorno 2000; Thompson et al. 2002; Kubetzki and Garthe 2003; Mariano-Jelicich et al. 2003; Anderson et al. 2004; Bugoni and Vooren 2004; Withers and Brooks 2004; Dies et al. 2005; Lyons et al. 2005; Aygen and Emslie 2006; Liordos and Goutner 2007; Mariano-Jelicich et al. 2007; Spear et al. 2007; Bur et al. 2008; Markham and Watts 2008; Seefelt and Gillingham 2008; Catry et al. 2009; Glass and Watts 2009; Moseley 2010; Xavier et al. 2011
Sea turtles ($N = 10$)	Shaver 1991; Burke et al. 1993; Plotkin et al. 1993; Tomas et al. 2001; León and Bjørndal 2002; Seney 2003; Parker et al. 2005; Witzell and Schmid 2005; Makowski et al. 2006; Seney and Musick 2007
Blacktip Shark ($N = 12$)	Dudley and Cliff 1993a; Hueter 1994; Castro 1996; de Silva et al. 2001; Heupel and Hueter 2002; Hoffmayer and Parsons 2003; Bethea et al. 2004; Patokina and Litvinov 2005; Gurshin 2007; Barry et al. 2008; Tavares 2008; Wrast 2008
Dusky Shark ($N = 7$)	Smale 1991; Gelsleichter et al. 1999; Bowman et al. 2000; de Silva et al. 2001; Simpfendorfer et al. 2001; Hussey et al. 2011; Rogers et al. 2012
Sandbar Shark ($N = 9$)	Medved et al. 1985; Stevens and McLoughlin 1991; Dudley and Cliff 1993b; Stillwell and Kohler 1993; Bowman et al. 2000; de Silva et al. 2001; McElroy et al. 2006; Ellis and Musick 2007; McElroy 2009
Other large coastal sharks ($N = 28$)	Randall 1967; Tuma 1976; Snelson et al. 1984; Schmidt 1986; Stevens and Lyle 1989; Cortés and Gruber 1990; Cliff and Dudley 1991; Stevens and McLoughlin 1991; Hueter 1994; Cliff 1995; Lowe et al. 1996; Gelsleichter et al. 1999; Allen and Cliff 2000; Bowman et al. 2000; de Silva et al. 2001; Simpfendorfer et al. 2001; Bush 2003; Bethea et al. 2004; Patokina and Litvinov 2005; Smale 2005;

Large oceanic sharks (<i>N</i> = 19)	Cabrera-Chávez-Costa et al. 2010; Davis 2010; Newman et al. 2010; Torres-Rojas et al. 2010; Bethea et al. 2011; Hussey et al. 2011; Avendaño-Alvarez et al. 2013; Galván-Magaña et al. 2013 Stevens 1973; Stillwell and Kohler 1982; Cliff et al. 1990; Clarke et al. 1996; Bowman et al. 2000; Henderson et al. 2001; Preti et al. 2001, 2008, 2012; Maia et al. 2006; Kubodera et al. 2007; Vaske et al. 2009; Wood et al. 2009; Lopez et al. 2010; Markaida and Sosa-Nishizaki 2010; Young et al. 2010; Rogers et al. 2012; Galván-Magaña et al. 2013; Gorni et al. 2013
Atlantic Sharpnose Shark (<i>N</i> = 12)	Divita et al. 1983; Hueter 1994; Gelsleichter et al. 1999; Bowman et al. 2000; Barry 2002; Hoffmayer and Parsons 2003; Bethea et al. 2004, 2006; Gurshin 2007; Davis 2010; McCallister 2012; Avendaño-Alvarez et al. 2013
Small coastal sharks (<i>N</i> = 20)	Divita et al. 1983; Castro 1993; Hueter 1994; Cortes et al. 1996; Rountree and Able 1996; Lessa and Almeida 1998; Gelsleichter et al. 1999; Bowman et al. 2000; Steimle et al. 2000; de Silva et al. 2001; López-Peralta and Arcila 2002; Hoffmayer and Parsons 2003; Bethea et al. 2004, 2007; Gómez-Canchong et al. 2004; Gurshin 2007; Wrast 2008; Fischer et al. 2009; McElroy 2009; Ford 2012
Yellowfin Tuna (<i>N</i> = 18)	Lewis and Axelsen 1967; Dragovich and Potthoff 1972; Manooch and Mason 1983; Olson and Boggs 1986; Kim et al. 1997; Pimenta et al. 2001; Young et al. 2001; Vaske et al. 2003; Satoh et al. 2004; Potier et al. 2007a; Rawlins et al. 2007; Dissanayake et al. 2008; Rohit et al. 2010; Rudershausen et al. 2010; Young et al. 2010; Gorni et al. 2013; Logan et al. 2013; Olson et al. 2014
Bluefin Tuna (<i>N</i> = 10)	Pinkas 1971; Eggleston and Bochenek 1990; Orsi Relini et al. 1995; Chase 2002; Sinopoli et al. 2004; Butler 2007; Karakulak et al. 2009; Logan et al. 2011; Pleizier et al. 2012; Battaglia et al. 2013
Other tunas (<i>N</i> = 14)	Batts 1972; Dragovich and Potthoff 1972; Manooch and Mason 1983; Ankenbrandt 1985; Bernard et al. 1985; Kim et al. 1997; Potier et al. 2004; Satoh et al. 2004; Headley et al. 2009; Young et al. 2010; Vaske et al. 2012; Gorni et al. 2013; Logan et al. 2013; Mendizabal 2013
Billfishes (<i>N</i> = 22)	Knapp 1950; Voss 1953; Ovchinnikov 1971; Mather et al. 1975; Davies and Bortone 1976; Jolley 1977; Brock 1984; Abitia-Cárdenas et al. 1997, 1999, 2010; Rosas-Alayola et al. 2002; Bachok et al. 2004; Satoh et al. 2004; Vaske et al. 2004, 2011; Arizmendi-Rodríguez et al. 2006; Shimose et al. 2006; Rawlins et al. 2007; Casazza 2008; Pinheiro et al. 2010; Rudershausen et al. 2010; Varghese et al. 2013
Swordfish (<i>N</i> = 16)	Scott and Tibbo 1968; Ovchinnikov 1971; Stillwell and Kohler 1985; Moreira 1990; Clarke et al. 1995; Orsi Relini et al. 1995; Bowman et al. 2000; Satoh et al. 2004; Markaida and Hochberg 2005; Chancollon et al. 2006; Potier et al. 2007a; Romeo et al. 2009; Watanabe et al. 2009; Young et al. 2010; Gorni et al. 2013; Logan et al. 2013
Pelagic coastal piscivores (<i>N</i> = 35)	Knapp 1950; Gibbs and Collette 1959; Lewis and Axelsen 1967; Randall 1967; Cressey and Lachner 1970; Austin and Austin 1971; Carr and Adams 1973; Rose and Hassler 1974; Gallaway 1981; Divita et al. 1983; Manooch and Haimovici 1983; Manooch and

	Hogarth 1983; Manooch et al. 1983, 1985; Naughton and Saloman 1984; Saloman and Naughton 1984; Massuti et al. 1998; Buckel et al. 1999; Oxenford and Hunte 1999; Bowman et al. 2000; Keenan 2002; Barreiros et al. 2003; Vaske et al. 2003; Gómez-Canchong et al. 2004; Satoh et al. 2004; Campo et al. 2006; Gartland et al. 2006; Bahou et al. 2007; Franks et al. 2007; Casazza 2008; Wrast 2008; Sley et al. 2009; Rudershausen et al. 2010; Logan et al. 2013; García and Posada 2014
Amberjacks ($N = 8$)	Randall 1967; Humphreys 1980; Manooch and Haimovici 1983; Badalamenti et al. 1995; Matallanas et al. 1995; Andaloro and Pipitone 1997; Bowman et al. 2000; Patterson et al. 2012
Cobia ($N = 11$)	Knapp 1951; Randall 1967; Salini et al. 1994; Smith 1995; Franks et al. 1996; Meyer and Franks 1996; Bowman et al. 2000; Arendt et al. 2001; Bachok et al. 2004; Gómez-Canchong et al. 2004; Rohit and Bhat 2012
Juvenile King Mackerel ($N = 3$)	Naughton and Saloman 1981; Finucane et al. 1990; Peláez-Rodríguez et al. 2005
Adult King Mackerel ($N = 12$)	Miles 1949; Kemp 1950; Knapp 1950; Boschung 1957; Randall 1967; Menezes 1969; Beaumariage 1973; Devane 1978; McMichael 1981; Saloman and Naughton 1983a; Bowman et al. 2000; Gómez-Canchong et al. 2004
Juvenile Spanish Mackerel ($N = 2$)	Naughton and Saloman 1981; Finucane et al. 1990
Adult Spanish Mackerel ($N = 6$)	Kemp 1950; Knapp 1950; Klima 1959; Saloman and Naughton 1983b; Bowman et al. 2000; Wrast 2008
Skates and rays ($N = 21$)	Hess 1961; Randall 1967; Struhsaker 1969; Divita et al. 1983; Smith and Merriner 1985; Gilliam and Sullivan 1993; Bowman et al. 2000; Castro 2000; Gómez-Canchong et al. 2004; Patokina and Litvinov 2005; Collins et al. 2007; Ismen et al. 2007; Wrast 2008; Jacobsen et al. 2009; Schluessel et al. 2010; Barbini et al. 2011; Sagarese et al. 2011; Woodland et al. 2011; Ajemian and Powers 2012; Szczepanski 2013; Yokota et al. 2013
Age-0 Gag ($N = 7$)	Reid 1954; Bullock and Smith 1991; Mullaney 1994; Ross and Moser 1995; Weaver 1996; Stallings et al. 2010; Brulé et al. 2011
Juvenile Gag ($N = 5$)	Adams 1976; Naughton and Saloman 1985; Weaver 1996; Lindberg et al. 2002; Brulé et al. 2011
Adult Gag ($N = 3$)	Naughton and Saloman 1985; Patterson et al. 2012; Tremain and Adams 2012
Age-0 Red Grouper ($N = 2$)	Brulé and Canché 1993; Weaver 1996
Juvenile Red Grouper ($N = 5$)	Randall 1967; Bullock and Smith 1991; Brulé and Canché 1993; Brulé et al. 1994; Weaver 1996
Adult Red Grouper ($N = 5$)	Gudger 1929; Weaver 1996; Gómez-Canchong et al. 2004; Patterson et al. 2012; Tremain and Adams 2012
Age-0 Black Grouper ($N = 2$)	Bullock and Smith 1991; Brulé et al. 2005
Juvenile Black Grouper ($N = 1$)	Brulé et al. 2005
Adult Black Grouper ($N = 2$)	Randall 1967; Gómez-Canchong et al. 2004

Age-0 Yellowedge Grouper ($N = 0$)	–
Juvenile Yellowedge Grouper ($N = 0$)	–
Adult Yellowedge Grouper ($N = 2$)	Nelson 1988; Bullock and Smith 1991
Atlantic Goliath Grouper ($N = 7$)	Beebe and Tee Van 1928; Randall 1967; Smith 1971; Odum and Heald 1972; Bullock and Smith 1991; Gómez-Canchong et al. 2004; Koenig and Coleman 2009
Other deepwater groupers ($N = 4$)	Thompson and Munro 1978; Bielsa and Labisky 1987; Bullock and Smith 1991; Dodrill and Manooch 1993
Other shallow-water groupers ($N = 13$)	Burnett-Herkes 1941; Randall 1967; Matheson et al. 1986; Nelson 1988; Bullock and Smith 1991; Grover 1993; Bullock and Murphy 1994; Carter et al. 1994; Eggleston et al. 1998; Grover et al. 1998; Bowman et al. 2000; Gómez-Canchong et al. 2004; Tremain and Adams 2012
Juvenile Red Snapper ($N = 15$)	Camber 1955; Moseley 1966; Bradley and Bryan 1975; Gallaway 1981; Divita et al. 1983; Bailey 1995; McCawley et al. 2003, 2006; Szedlmayer and Lee 2004; Newton 2007; Pérez-Díaz et al. 2007; Sheridan 2008; Wells et al. 2008; Patterson et al. 2012; Schwartzkopf 2014
Adult Red Snapper ($N = 10$)	Knapp 1950; Camber 1955; Bradley and Bryan 1975; Futch and Bruger 1976; Bailey 1995; McCawley and Cowan 2007; Pérez-Díaz et al. 2007; Patterson et al. 2012; Simonsen 2013; Schwartzkopf 2014
Vermilion Snapper ($N = 8$)	Dixon 1975; Grimes 1979; Darnell 1991; Sedberry and Cuellar 1993; Bowman et al. 2000; Gómez-Canchong et al. 2004; Johnson et al. 2010; Patterson et al. 2012
Mutton Snapper ($N = 7$)	Randall 1967; Heck and Weinstein 1989; Duarte and García 1999; Gómez-Canchong et al. 2004; Clark et al. 2009; Pimentel and Joyeux 2010; Freitas et al. 2011
Other snappers ($N = 19$)	Randall 1967; Austin and Austin 1971; Odum and Heald 1972; Harrigan et al. 1989; Sámora-Zapata and Vega-Cendejas 1998; Franks and VanderKooy 2000; Nagelkerken et al. 2000; Layman and Silliman 2002; Cocheret de la Morinière et al. 2003; Gómez-Canchong et al. 2004; Gobert et al. 2005; Guevara et al. 2007; Clark et al. 2009; Monteiro et al. 2009; Hammerschlag et al. 2010; Pimentel and Joyeux 2010; Yeager and Layman 2011; Hammerschlag-Peyer and Layman 2012; Patterson et al. 2012
Coastal piscivores ($N = 23$)	Knapp 1950; Darnell 1958; Harrington and Harrington 1961; Warmke and Erdman 1963; Randall 1967; Rickards 1968; Austin and Austin 1971; Odum and Heald 1972; Fore and Schmidt 1973; Sekavec 1974; Colton and Alevizon 1983; Teixeira 1997; Crabtree et al. 1998; Layman and Silliman 2002; Vega-Cendejas and Hernández 2002; Gómez-Canchong et al. 2004; Weinberger and Posada 2004; Blewett et al. 2006; Snodgrass et al. 2008; Adams et al. 2009; Rock 2009; Stevens et al. 2010; Jud et al. 2011
Seatrout ($N = 22$)	Gunter 1945; Knapp 1950; Reid 1954; Darnell 1958; Klima and Tabb 1959; Day 1960; Tabb 1961; Seagle 1969; Rogillio 1975; Moffett et al. 1979; Sheridan and Livingston 1979; Overstreet and Heard 1982; Rutherford et al. 1982; Divita et al. 1983; Sheridan and Trimm 1983;

	Kasprzak and Guillory 1984; Hettler 1989; Minello et al. 1989; Peebles and Hopkins 1993; Russell 2005; Wrast 2008; Simonsen and Cowan 2013
Oceanic piscivores ($N = 21$)	Kubota and Uyeno 1970; Rohr and Gutherz 1977; Langton and Bowman 1980; Portsev 1980; Mericas 1981; Divita et al. 1983; Sheridan and Trimm 1983; Blaber and Bulman 1987; Bowman et al. 2000; Satoh et al. 2004; Martins et al. 2005; Peláez-Rodríguez et al. 2005; Chiou et al. 2006; Pethiyagoda 2006; Bakhoun 2007; Potier et al. 2007b; Vaske et al. 2008; Bittar and Di Benedetto 2009; Young et al. 2010; Yan et al. 2011; Choy et al. 2013
Benthic piscivores ($N = 29$)	Gunter 1945; Knapp 1950; Reid 1954; Darnell 1958; Day 1960; Springer and Woodburn 1960; Randall 1967; Topp and Hoff 1972; Carr and Adams 1973; Powell and Schwartz 1979; Overstreet and Heard 1982; Divita et al. 1983; Minello et al. 1989; Darnell 1991; Peebles and Hopkins 1993; Fitzhugh et al. 1996; Bowman et al. 2000; Kagiwara and Abilhôa 2000; Francis 2002; Grabowski 2002; Luczkovich et al. 2002; Gómez-Canchong et al. 2004; Cruz-Escalona et al. 2005; Peláez-Rodríguez et al. 2005; Ellis 2007; Jeffers 2007; Sheridan 2008; Baremore et al. 2010; Sommerville et al. 2011
Reef- or rubble-associated piscivores ($N = 14$)	Randall 1967; Austin and Austin 1971; Felder and Chaney 1979; Divita et al. 1983; Gladfelter and Johnson 1983; Schmidt 1989; De Troch et al. 1998; Morato et al. 1999; Bowman et al. 2000; Young et al. 2003; Gómez-Canchong et al. 2004; Kulbicki et al. 2005; Lugendo et al. 2006; Hammerschlag et al. 2010
Reef-associated invertebrate feeders ($N = 35$)	Reid 1954; Robins and Starck 1961; Rodriguez-Pino 1962; Cummings et al. 1966; Randall 1967; Odum and Heald 1972; Birkeland and Neudecker 1981; Overstreet and Heard 1982; Divita et al. 1983; Wainwright 1987; Nelson 1988; Sedberry 1988, 1989; Ross et al. 1989; Horvath et al. 1990; Bullock and Smith 1991; Darnell 1991; Pitts 1991; Rivera-Arriaga et al. 1995; Clifton and Motta 1998; Sámora-Zapata and Vega-Cendejas 1998; Bowman et al. 2000; Franks and VanderKooy 2000; Nagelkerken et al. 2000; Layman and Silliman 2002; Cocheret de la Morinière et al. 2003; Gómez-Canchong et al. 2004; Castriota et al. 2005; Castillo-Rivera et al. 2007; Sheridan 2008; Wrast 2008; Rincón-Sandoval et al. 2009; Doncel and Paramo 2010; Pimentel and Joyeux 2010; Patterson et al. 2012
Demersal coastal invertebrate feeders ($N = 40$)	Knapp 1950; Reid 1954; Simmons and Breuer 1962; Randall 1967; Hansen 1969; Austin and Austin 1971; Odum and Heald 1972; Carr and Adams 1973; Weaver and Holloway 1974; Adams 1976; Armitage and Alevizon 1978; Overstreet and Heard 1978a, 1982; Sheridan and Livingston 1979; Hodson et al. 1981; Alexander 1983; Divita et al. 1983; Sheridan and Trimm 1983; Chavance et al. 1984; Yáñez-Arancibia and Lara-Domínguez 1988; Minello et al. 1989; Papaconstantinou and Caragitsou 1989; Peters and McMichael 1990; Darnell 1991; Peebles and Hopkins 1993; Schmidt 1993; Ley et al. 1994; Vega-Cendejas et al. 1994; Kobelkowsky and Castillo-Rivera 1995; Motta et al. 1995; Labropoulou et al. 1999; Bowman et al. 2000; Rudershausen and Locascio 2001; Layman and Silliman 2002; Wheeler et al. 2002; Mendoza-Carranza 2003; Gómez-Canchong et

	al. 2004; Aguirre-León and Díaz-Ruiz 2006; Gibran 2007; Wrast 2008
Red Drum ($N = 6$)	Knapp 1950; Simmons and Breuer 1962; Boothby and Avault 1971; Bass and Avault 1975; Overstreet and Heard 1978b; Scharf and Schlicht 2000
Benthic coastal invertebrate feeders ($N = 23$)	Randall 1967; Bortone 1971; Topp and Hoff 1972; Stickney 1976; Ross 1977, 1978; Darcy 1981; Divita et al. 1983; Bullock and Smith 1991; Darnell 1991; Peebles and Hopkins 1993; Rivera-Arriaga et al. 1995; Toepfer and Fleeger 1995; Bowman et al. 2000; Castillo-Rivera et al. 2000; Steimle et al. 2000; Reichert 2003; Gómez-Canchong et al. 2004; Gibran 2007; Guedes and Araújo 2008; Sheridan 2008; Kramer et al. 2009; Emmanuel and Ajibola 2010; Bouchereau et al. 2012
Tilefishes ($N = 5$)	Randall 1967; Ross 1982; Bielsa and Labisky 1987; Bowman et al. 2000; Gómez-Canchong et al. 2004
Gray Triggerfish ($N = 7$)	Felder and Chaney 1979; Vose and Nelson 1994; Durie and Turingan 2001; Gómez-Canchong et al. 2004; Aggrey-Fynn 2007; Casazza 2008; Patterson et al. 2012
Coastal omnivores ($N = 35$)	Gunter 1945; Darnell 1958; Randall 1967; Hansen 1969; Austin and Austin 1971; Carr and Adams 1972, 1973; Adams 1976; Brook 1977; Targett 1978; Alexander 1983; Clements and Livingston 1983; Divita et al. 1983; Stoner and Livingston 1984; Hayse 1987; Minello et al. 1989; Schmidt 1993; Pike and Lindquist 1994; Turingan 1994; Vega-Cendejas et al. 1994; Motta et al. 1995; Bowman et al. 2000; Grabowski 2002; López-Peralta and Arcila 2002; Luczkovich et al. 2002; Gómez-Canchong et al. 2004; Russell 2005; Winemiller et al. 2007; Canto-Maza and Vega-Cendejas 2008; Casazza 2008; Dubiaski-Silva and Masunari 2008; Prado and Heck 2011; de Alcântara-Santos and de Carvalho-Rodriguez 2012; Denadai et al. 2012; Chi-Espínola and Vega-Cendejas 2013
Reef omnivores ($N = 12$)	Randall 1967; Feddern 1968; Neudecker 1982; Gómez-Canchong et al. 2004; Ferreira and Gonçalves 2006; Nagelkerken et al. 2006; Silvano and Güth 2006; Prado and Heck 2011; Batista et al. 2012; Feitosa et al. 2012; Patterson et al. 2012; Dromard et al. 2013
Surface pelagics ($N = 7$)	Lewis et al. 1962; Randall 1967; Carr and Adams 1973; Berkeley and Houde 1978; Lipskaya 1980; Casazza 2008; Van Noord et al. 2013
Large oceanic planktivores ($N = 0$)	–
Oceanic planktivores ($N = 1$)	Bowman et al. 2000
Sardine–herring–scad complex ($N = 16$)	Randall 1967; Odum and Heald 1972; Carr and Adams 1973; McMichael 1981; Divita et al. 1983; Creed 1985; Hales 1987; Darnell 1991; Donaldson and Clavijo 1994; Vega-Cendejas et al. 1994; Motta et al. 1995; Bowman et al. 2000; Gómez-Canchong et al. 2004; Tsikliras et al. 2005; Nagelkerken et al. 2006; Winemiller et al. 2007
Menhaden ($N = 7$)	Weaver and Holloway 1974; Divita et al. 1983; Govoni et al. 1983; Matlock and Garcia 1983; Deegan et al. 1990; Castillo-Rivera et al. 1996; Winemiller et al. 2007

Anchovies–silversides–killifishes ($N = 16$)	Darnell 1958; Harrington and Harrington 1961; Randall 1967; Odum and Heald 1972; Bennett 1973; Carr and Adams 1973; Weaver and Holloway 1974; Sheridan 1978; Alexander 1983; Perschbacher and Strawn 1986; Minello et al. 1989; Rozas and LaSalle 1990; Peebles and Hopkins 1993; Ley et al. 1994; Motta et al. 1995; Bowman et al. 2000
Mulletts ($N = 17$)	Harrington and Harrington 1961; Randall 1967; Odum 1970; Austin and Austin 1971; Collins 1981; Alexander 1983; Eggold and Motta 1992; Larson and Shanks 1996; Sánchez 2002; Blanco et al. 2003; Gómez-Canchong et al. 2004; Kanou et al. 2004; Platell et al. 2006; Hadwen et al. 2007; Winemiller et al. 2007; Ramírez-Luna et al. 2008; Modou et al. 2014
Butterfishes ($N = 4$)	Mansueti 1963; Divita et al. 1983; Darnell 1991; Bowman et al. 2000

Supplementary Table S.2. List of references that were excluded from the meta-analysis. Reasons for exclusion include a lack of quantitative data, unspecified results, or the repeated use of data.

Excluded references
Longley and Hildebrand 1941; Menzel 1960; Childress 1962; Clark and Von Schmidt 1965; Randall 1965a, 1965b; Moe 1969; Horn 1970; Odum 1971; Diener et al. 1974; Kjelson et al. 1975; Beaumariage and Bullock 1976; Freeman and Turner 1977; Oviatt and Kremer 1977; Kobylinski and Sheridan 1979; Bannerot 1984; Huh and Kitting 1985; Heck and Weinstein 1989; Hourigan et al. 1989; Shaffer and Nakamura 1989; Browder et al. 1990; Mersmann et al. 1992; Brulé and Deniel 1993; Burke et al. 1994; Lindquist et al. 1994; Roger 1994; Allen et al. 1995; Hensley and Hensley 1995; Hernández-García 1995; Maldeniya 1996; Mullaney and Gale 1996; Hassani et al. 1997; Vega-Cendejas et al. 1997; Erwin et al. 1998; Barichivich et al. 1999; Garrison and Link 2000; Weaver and Sulak 2000; Moteki et al. 2001; Tilghman et al. 2001; Ouzts and Szedlmayer 2003; Sabatié et al. 2003; Potier et al. 2004; Collins 2005; De Bruyn et al. 2005; Papastamatiou et al. 2006; Young et al. 2006; Baremore 2007; Cherel et al. 2007; Lansdell and Young 2007; Mena-Loria et al. 2007; Waggy et al. 2007; Gorni et al. 2011; Malone et al. 2011; Bittar et al. 2012; Cowan et al. 2012; Mickle et al. 2013

Supplementary Table S.3. Estimates of relative biomass (metric tons/km²) from the current northern Gulf of Mexico (GOM) Ecopath model as compared with other regional ecosystem models. Regions include the northern GOM (nGOM), the GOM Large Marine Ecosystem (LME), the West Florida Shelf (WFS), and the north-central GOM (ncGOM). Note that the biomasses from other studies differ from the biomass values presented in the original references and have been summed across the functional groups (defined in Table 2) used in the present study (dash = no data).

Functional group	This study	Vidal and Pauly 2004	Walters et al. 2008	Geers et al. 2014	Okey and Mahmoudi 2004	Chagaris et al. 2015	Gray 2014	Robinson 2015
Region	nGOM	LME	nGOM	nGOM	WFS	WFS	WFS	ncGOM
Area (× 10 ³ km ²)	310	1,623	310	145	213	213	213	42
Dolphins	0.013	0.03	–	0.031	0.038	0.066	0.038	0.042
Seabirds	0.006	0.003	–	0.009	0.001	0.017	0.001	0.001
Sea turtles	0.009	0.01	–	–	0.007	–	0.002	0.003
Blacktip Shark	0.035	0.045	12.000	0.084	0.090	0.028	0.112	0.146
Dusky Shark	0.017							
Sandbar Shark	0.018							
Large coastal sharks	0.025							
Large oceanic sharks	0.006	0.11						0.001
Atlantic Sharpnose Shark	0.044	0.045	–	0.076		0.084		1.354
Small coastal sharks	0.082							
Yellowfin Tuna	0.010	0.46	–	0.024	0.070	0.018	0.144	–
Bluefin Tuna	0.008		–					–
Tropical tunas	0.015		–					–
Billfishes	0.001		–					–
Swordfish	0.027	–	–	–				–
Pelagic coastal piscivores	0.188	0.56	0.151	0.100	0.230	0.064	0.458	28.145
Amberjacks	0.038	–				0.008		
Cobia	0.030	–	–	–	–	0.021	–	
Juvenile King Mackerel	0.055	–	0.000	0.000	0.063	0.003	–	
Adult King Mackerel	0.036	–	0.125	0.030	0.092	0.054	0.081	
Juvenile Spanish Mackerel	0.325	–	0.000	0.000	0.063	0.011	0.016	

Adult Spanish Mackerel	0.081	—	0.125	0.030	0.092	0.098	0.077	
Skates and rays	0.148	—	4.000	0.238	0.238	0.195	0.154	0.362
Age-0 Gag	0.002	0.27	0.549	0.289	0.119	0.001	—	0.051
Juvenile Gag	0.024					0.017	0.002	
Adult Gag	0.035					0.039	0.034	
Age-0 Red Grouper	0.002					0.001	—	
Juvenile Red Grouper	0.021					0.013	0.020	
Adult Red Grouper	0.062					0.103	0.167	
Age-0 Black Grouper	0.000					0.000	—	
Juvenile Black Grouper	0.002					0.007	0.028	
Adult Black Grouper	0.005					0.046		
Age-0 Yellowedge Grouper	0.002					0.000		
Juvenile Yellowedge Grouper	0.007					0.002		
Adult Yellowedge Grouper	0.022					0.014		
Atlantic Goliath Grouper	0.003					0.003		
Other deepwater groupers	0.007					0.012		
Other shallow-water groupers	0.010					0.009		
Juvenile Red Snapper	0.002	—	0.009	—	—	0.001	—	
Adult Red Snapper	0.078	—	0.743	0.400	—	0.051	—	
Vermilion Snapper	0.038	—	—	—	—	0.021	—	
Mutton Snapper	0.022	—	—	—	—	0.211	—	
Other snappers	0.187	—	—	—	—		0.222	
Coastal piscivores	0.081	—	0.099	0.486	0.133	0.071	0.234	—
Seatrout	0.242	—	0.246	—				—
Oceanic piscivores	0.139	—	—	—	0.151	—	0.574	—
Benthic piscivores	0.344	—	—	0.207	0.290	—	0.243	1.372

Reef- or rubble-associated piscivores	0.099	0.5	–	–	0.220	–	0.265	0.547
Reef-associated invertebrate feeders	0.585	3.04	–	–	1.200	1.629	5.051	0.922
Demersal coastal invertebrate feeders	1.105	1.54	2.539	2.607	5.265	0.585	4.405	90.818
Red Drum	0.050	–	2.166	0.181			0.019	0.237
Benthic coastal invertebrate feeders	1.022	0.2	–	2.200	0.800	1.372	1.419	3.360
Tilefishes	0.036	0.01	–	–	0.190	0.010	0.023	–
Gray Triggerfish	0.014	–	–	–		0.019	2.767	–
Coastal omnivores	0.700	–	3.000	1.440	0.700	1.785		
Reef omnivores	0.625	0.26	–	–	0.310	0.538	0.600	–
Surface pelagics	0.128	–	–	–	0.099	0.564	0.110	0.373
Large oceanic planktivores	0.134	0.01	–	–	0.043	–	0.073	–
Oceanic planktivores	0.042	1.64	–	–	1.500	–	1.944	–
Sardine–herring–scad complex	1.257	5.22	11.000	7.241	2.450	1.700	1.970	10.844
Menhaden	1.065		4.646	9.091				8.722
Anchovies–silversides–killifishes	1.342	10.7	4.295	3.032	2.205	0.954	3.008	9.177
Mulletts	0.270	2.04	3.357	0.690	0.329	0.269	0.332	0.322
Butterfishes	0.095	–	–	0.200	2.200	–	0.299	17.267
Cephalopods	1.538	3.22	–	0.267	1.174	0.718	1.663	8.273
Shrimp	2.600	4.5	9.360	5.497	0.480	0.910	0.516	1.519
Crabs	2.110	8.84	0.381	2.012	0.642	0.645	0.713	1.929
Sessile epifauna	32.0	101.6	34.0	25.0	219.0	18.7	219.0	16.9
Mobile epifauna	25.0				32.1	30.9	33.9	38.5
Zooplankton	18.0	11.8	16.7	12.9	36.9	26.6	37.2	230.2
Infauna	28.0	41.9	20.0	20.0	80.6	83.0	80.6	51.2
Algae	29.8	21.1	29.8	29.8	65.8	64.3	65.8	205.4

Seagrass	175.6		175.6	175.6	175.6	170.1	175.6	
Phytoplankton	25.0	10.4	25.0	25.0	25.0	27.2	20.0	24.2
Detritus	100.0	82.9	100.0	100.0	518.7	541.6	520.7	20.1

Supplementary Table S.4. References documenting predation events on menhaden or unidentified clupeids by predator groups and by individual predator species. The general study region is provided (GOM = Gulf of Mexico).

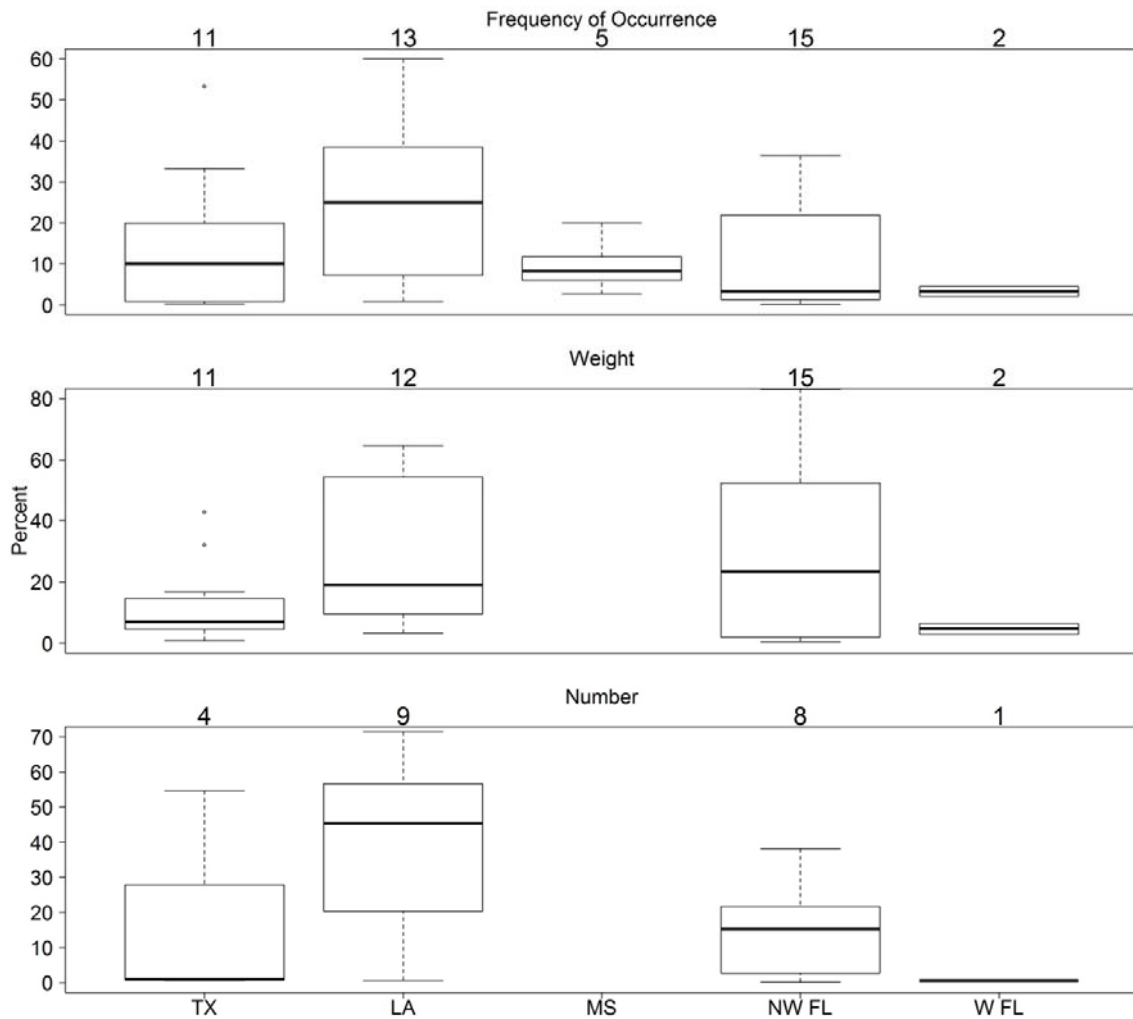
Predator group or species	Menhaden references	Clupeid references
Dolphins		
Common bottlenose dolphin	<u>GOM</u> : Leatherwood 1975; Barros and Odell 1990; Barros 1992; Barros and Wells 1998 <u>Atlantic</u> : Leatherwood et al. 1978; Mead and Potter 1990; Barros 1993; Gannon and Waples 2004; Bowen 2011; Pate and McFee 2012	<u>GOM</u> : Barros 1992; Barros and Wells 1998 <u>Atlantic</u> : Mead and Potter 1990; Barros 1993; Santos et al. 2007
Seabirds		
Osprey	<u>Atlantic</u> : McLean and Byrd 1991; Glass and Watts 2009	<u>Atlantic</u> : Glass and Watts 2009
Bald eagle	–	<u>Atlantic</u> : Markham and Watts 2008
Black skimmer	<u>Atlantic</u> : Mariano-Jelicich et al. 2007	–
Brown pelican	<u>GOM</u> : Fogarty et al. 1981	–
Magnificent frigatebird	–	<u>Pacific</u> : Calixto-Albarrán and Osorno 2000
Double-crested cormorant	<u>GOM</u> : Withers and Brooks 2004	<u>Pacific</u> : Anderson et al. 2004
Neotropic cormorant	<u>GOM</u> : King 1989	–
Common tern	<u>Atlantic</u> : Bugoni and Vooren 2004	–
Royal tern	–	<u>Atlantic</u> : Aygen and Emslie 2006
Caspian tern	–	<u>Pacific</u> : Lyons et al. 2005
Audouin's gull	–	<u>Mediterranean</u> : Pedrocchi et al. 1996
European herring gull	–	<u>Great Lakes</u> : Ewins et al. 1994
Lesser black-backed gull	–	<u>Atlantic</u> : Kubetzki and Garthe 2003
Audubon's shearwater	–	<u>Indian Ocean</u> : Catry et al. 2009
Wedge-tailed shearwater	–	<u>Indian Ocean</u> : Catry et al. 2009
Sea turtles		
Loggerhead sea turtle	<u>Atlantic</u> : Seney and Musick 2007	–
Sharks		
Blacktip Shark	<u>GOM</u> : Hueter 1994; de Silva et al. 2001; Hoffmayer and Parsons 2003; Bethea et al. 2004; Barry et al. 2008; Wrast 2008 <u>Atlantic</u> : Castro 1996; Gurshin 2007	<u>GOM</u> : Heupel and Hueter 2002
Sandbar Shark	<u>GOM</u> : Clark and Von Schmidt 1965; de Silva et al. 2001;	<u>Atlantic</u> : Stillwell and Kohler 1993; Ellis and Musick 2007; McElroy 2009

Dusky Shark	<u>Atlantic</u> : Medved et al. 1985; McElroy 2009 <u>GOM</u> : Clark and Von Schmidt 1965; de Silva et al. 2001	<u>Atlantic</u> : Smale 1991; Bowman et al. 2000; Hussey et al. 2011
Bull Shark	<u>GOM</u> : Darnell 1958; de Silva et al. 2001	–
Spinner Shark	<u>Atlantic</u> : Snelson et al. 1984 <u>GOM</u> : de Silva et al. 2001; Bethea et al. 2004; Avendaño-Alvarez et al. 2013	<u>Pacific</u> : Stevens and McLoughlin 1991
Silky Shark	<u>GOM</u> : de Silva et al. 2001 <u>Atlantic</u> : Bowman et al. 2000	–
Requiem shark <i>Carcharhinus</i> sp.	<u>GOM</u> : Knapp 1950	–
Sand Tiger	<u>GOM</u> : Clark and Von Schmidt 1965 <u>Atlantic</u> : Gelsleichter et al. 1999	–
Scalloped Hammerhead	<u>GOM</u> : Bethea et al. 2011	<u>Pacific</u> : Stevens and Lyle 1989 <u>Atlantic</u> : Hussey et al. 2011
Great Hammerhead	<u>GOM</u> : Hueter 1994	–
Shortfin Mako	<u>Atlantic</u> : Stillwell and Kohler 1982; Bowman et al. 2000; Wood et al. 2009	<u>Atlantic</u> : Maia et al. 2006
Blue Shark	–	<u>Atlantic</u> : Stevens 1973; Bowman et al. 2000
Atlantic Sharpnose Shark	<u>GOM</u> : Clark and Von Schmidt 1965; Barry 2002; Hoffmayer and Parsons 2003; Bethea et al. 2004, 2006 <u>Atlantic</u> : McCallister 2012	<u>GOM</u> : Clark and Von Schmidt 1965; Davis 2010; <u>Atlantic</u> : Gelsleichter et al. 1999; Bowman et al. 2000
Blacknose Shark	<u>Atlantic</u> : Ford 2012	–
Finetooth Shark	<u>GOM</u> : de Silva et al. 2001; Hoffmayer and Parsons 2003; Bethea et al. 2004 <u>Atlantic</u> : Castro 1993; Gurshin 2007; McElroy 2009	–
Smooth Dogfish Dogfishes (Squalidae)	– <u>GOM</u> : Baughman and Springer 1950	<u>Atlantic</u> : Bowman et al. 2000 –
Australian Angel Shark	–	<u>Pacific</u> : Sommerville et al. 2011
Tunas		
Yellowfin Tuna	<u>Atlantic</u> : Rudershausen et al. 2010	<u>GOM</u> : Manooch and Mason 1983 <u>Pacific</u> : Olson et al. 2014
Bluefin Tuna	<u>Atlantic</u> : Chase 2002; Butler 2007	<u>Atlantic</u> : Orsi Relini et al. 1995; Sinopoli et al. 2004; Karakulak et al. 2009
Blackfin Tuna	–	<u>GOM</u> : Manooch and Mason 1983
Skipjack Tuna	–	<u>Atlantic</u> : Dragovich and Potthoff 1972

Little Tunny	<u>GOM</u> : Manooch et al. 1985	<u>GOM</u> : Manooch et al. 1985
Billfishes		
Sailfish	<u>GOM</u> : Knapp 1950	<u>Atlantic</u> : Jolley 1977
Blue Marlin	–	<u>Pacific</u> : Abitia-Cárdenas et al. 1999
Striped Marlin	–	<u>Pacific</u> : Abitia-Cárdenas et al. 1997
White Marlin	–	<u>Atlantic</u> : Mather et al. 1975
Swordfish	<u>Atlantic</u> : Stillwell and Kohler 1985; Bowman et al. 2000	–
Pelagic piscivores		
King Mackerel	<u>GOM</u> : Miles 1949; Kemp 1950; Knapp 1950; Saloman and Naughton 1983a <u>Atlantic</u> : Devane 1978	<u>GOM</u> : Beaumariage 1973; Finucane et al. 1990; Adams et al. 2003 <u>Atlantic</u> : Menezes 1969; Naughton and Saloman 1981
Spanish Mackerel	<u>GOM</u> : Kemp 1950; Knapp 1950; Naughton and Saloman 1981; Saloman and Naughton 1983b	<u>GOM</u> : Naughton and Saloman 1981; Finucane et al. 1990 <u>Atlantic</u> : Klima 1959
Crevalle Jack	<u>GOM</u> : Saloman and Naughton 1984	<u>GOM</u> : Saloman and Naughton 1984
Greater Amberjack	–	<u>Atlantic</u> : Manooch and Haimovici 1983; Badalamenti et al. 1995; Matallanas et al. 1995
Almaco Jack	–	<u>Atlantic</u> : Manooch and Haimovici 1983
Bluefish	<u>GOM</u> : Naughton and Saloman 1984 <u>Atlantic</u> : Bowman et al. 2000; Gartland et al. 2006	<u>Atlantic</u> : Buckel et al. 1999
Cobia	<u>GOM</u> : Meyer and Franks 1996 <u>Atlantic</u> : Arendt et al. 2001	<u>GOM</u> : Meyer and Franks 1996 <u>Atlantic</u> : Arendt et al. 2001
Dolphinfish	–	<u>GOM</u> : Manooch et al. 1983 <u>Caribbean</u> : Oxenford and Hunte 1999 <u>Atlantic</u> : Massutí et al. 1998; Casazza 2008
Pompano Dolphinfish	–	<u>Atlantic</u> : Casazza 2008
Coastal piscivores		
Sand Seatrout	<u>GOM</u> : Reid 1954; Moffett et al. 1979; Kasprzak and Guillory 1984; Wrast 2008	<u>GOM</u> : Darnell 1958
Spotted Seatrout	<u>GOM</u> : Gunter 1945; Knapp 1950; Day 1960; Seagle 1969; Rogillio 1975; Overstreet and Heard 1982; Russell 2005; Wrast 2008; Simonsen and Cowan 2013	–

Ladyfish	<u>Atlantic</u> : Tabb 1961	–
Common Snook	<u>GOM</u> : Sekavec 1974	–
	<u>GOM</u> : Blewett et al. 2006	<u>GOM</u> : Blewett et al. 2006; Adams et al. 2009; Rock 2009
Tarpon	<u>GOM</u> : Knapp 1950	–
Oceanic piscivores		
Atlantic Cutlassfish	–	<u>Indian Ocean</u> : Portsev 1980
Offshore Hake	–	<u>GOM</u> : Rohr and Gutherz 1977
Benthic piscivores		
Southern Flounder	<u>GOM</u> : Knapp 1950	–
Inshore Lizardfish	–	<u>GOM</u> : Sheridan 2008
Reef piscivores		
Great Barracuda	–	<u>Caribbean</u> : Randall 1967
Groupers		
Gag	<u>GOM</u> : Naughton and Saloman 1985; Bullock and Smith 1991; Weaver 1996	<u>GOM</u> : Naughton and Saloman 1985; Weaver 1996
Atlantic Goliath Grouper	–	<u>GOM</u> : Koenig and Coleman 2009
Red Grouper	–	<u>GOM</u> : Weaver 1996
Snowy Grouper	–	<u>Atlantic</u> : Bielsa and Labisky 1987
Tilefishes		
Tilefish	<u>Atlantic</u> : Freeman and Turner 1977	–
Blueline Tilefish	–	<u>Atlantic</u> : Bielsa and Labisky 1987
Snappers		
Cubera Snapper	–	<u>Caribbean</u> : Randall 1967
Yellowtail Snapper	–	<u>GOM</u> : Rincón-Sandoval et al. 2009
Red Snapper	–	<u>GOM</u> : Futch and Bruger 1976; Sheridan 2008
Invertebrate feeders		
Gafftopsail Catfish	<u>GOM</u> : Knapp 1950; Wrast 2008	<u>GOM</u> : Rudershausen and Locascio 2001
Hardhead Catfish	<u>GOM</u> : Knapp 1950; Wrast 2008	–
Kingfish <i>Menticirrhus</i> sp.	<u>GOM</u> : Knapp 1950	–
Red Drum	<u>GOM</u> : Knapp 1950; Simmons and Breuer 1962; Boothby and Avault 1971; Scharf and Schlicht 2000	–
Silver Perch	<u>GOM</u> : Wrast 2008	–
Forage fish		
Gulf Killifish	<u>GOM</u> : Rozas and LaSalle 1990	

Supplementary Figure S.1. Percent contribution (percent frequency of occurrence, percent weight, or percent number) of Gulf Menhaden to predator diets in five regions of the Gulf of Mexico (from west to east: TX = Texas; LA = Louisiana; MS = Mississippi; NW FL = northwestern Florida; W FL = western Florida). The numbers above each panel reflect the number of diet observations (i.e., predation events by a given life history stage or species in a given region). The thick horizontal line within each box represents the median, the ends of the box represent the interquartile range (25th and 75th percentiles), and the ends of the whiskers represent either the maximum value or 1.5 times the interquartile range.



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