SUPPORTING INFORMATION TABLE 1

Overview of dietary preferences for the species used in the present study based on a literature survey. Each species is assigned to a prey category which reflects the main prey in the diet.

|  |  |  |
| --- | --- | --- |
| **Species** | **Prey category** | **Feeding reference** |
| *Alopias superciliosus* | fish & Cephalopoda | (Cortes, 1999; Polo-silva *et al.*, 2007; Preti *et al.*, 2008) |
| *Alopias vulpinus* | fish & Cephalopoda | (Cortes, 1999; Preti, Smith, & Ramon, 2001) |
| *Apristurus laurussonii* | generalist | (Ebert, Fowler, & Compagno, 2013) |
| *Atelomycterus macleayi* | NA |  |
| *Atelomycterus marmoratus* | generalist | (Ebert *et al.*, 2013) |
| *Brachaelurus waddi* | generalist | (Compagno, 2001) |
| *Carcharhinus acronotus* | fish & Cephalopoda | (Cortes, 1999) |
| *Carcharhinus amboinensis* | fish & Cephalopoda | (Cortes, 1999) |
| *Carcharhinus brachyurus* | Fish & Cephalopoda | (Cortes, 1999; Lucifora *et al.*, 2009) |
| *Carcharhinus dussumieri* | fish & Cephalopoda | (Cortes, 1999) |
| *Carcharhinus falciformis* | fish & Cephalopoda | (Cortes, 1999; Cabrera-Chávez-Costa, Galván-Magaña, & Escobar-Sánchez, 2010; Duffy *et al.*, 2015; Filmalter *et al.*, 2016) |
| *Carcharhinus galapagensis* | Fish & Cephalopoda | (Cortes, 1999; Papastamatiou *et al.*, 2006) |
| *Carcharhinus hemiodon* | generalist | (Carpenter & Niem, 1998) |
| *Carcharhinus leucas* | fish & Cephalopoda | (Cortes, 1999) |
| *Carcharhinus macloti* | fish & Cephalopoda | (Cortes, 1999) |
| *Carcharhinus melanopterus* | fish & Cephalopoda | (Cortes, 1999) |
| *Carcharias taurus* | fish & Cephalopoda | (Cortes, 1999) |
| *Carcharodon carcharias* | fish & Cephalopoda | (Cortes, 1999) |
| *Centrophorus seychellorum* | NA |  |
| *Centrophorus uyato* | fish & Cephalopoda | (Compagno, 1984a) |
| *Centroscymnus coelolepis* | fish & Cephalopoda | (Cortes, 1999) |
| *Centroscymnus crepidater* | fish & Cephalopoda | (Cortes, 1999; Dunn *et al.*, 2010, 2013) |
| *Cephaloscyllium ventriosum* | fish & Cephalopoda | (Compagno, 1984a; Ebert *et al.*, 2013) |
| *Cetorhinus maximus* | zooplankton | (Cortes, 1999) |
| *Chaenogaleus macrostoma* | generalist | (Compagno, 1984b) |
| *Chiloscyllium arabicum* | generalist | (Compagno, 2001) |
| *Chiloscyllium griseum* | generalist | (Cortes, 1999) |
| *Chiloscyllium hasseltii* | invertebrates | (Carpenter & Niem, 1998) |
| *Chiloscyllium indicum* | fish & cephalopods | (Rao, 1964) |
| *Chiloscyllium punctatum* | invertebrates | (Compagno, 2001) |
| *Chlamydoselachus anguineus* | fish & Cephalopoda | (Cortes, 1999) |
| *Dalatias licha* | fish & Cephalopoda | (Saldanha & Almeida, 1995; Cortes, 1999; Dunn *et al.*, 2010) |
| *Deania calcea* | fish & Cephalopoda | (Saldanha & Almeida, 1995; Cortes, 1999; Dunn *et al.*, 2013) |
| *Echinorhinus brucus* | Decapoda & Mollusca | (Cortes, 1999; Akhilesh *et al.*, 2013) |
| *Etmopterus spinax* | generalist | (Saldanha & Almeida, 1995; Cortes, 1999; Neiva, Coelho, & Erzini, 2006; Fanelli *et al.*, 2009; Valls *et al.*, 2011) |
| *Eucrossorhinus dasypogon* | fish & Cephalopoda | (Ebert *et al.*, 2013) |
| *Euprotomicrus bispinatus* | fish & Cephalopoda | (Cortes, 1999) |
| *Eusphyra blochii* | fish & Cephalopoda | (Cortes, 1999) |
| *Galeocerdo cuvier* | generalist | (Cortes, 1999; Bornatowski *et al.*, 2014) |
| *Galeorhinus galeus* | fish & Cephalopoda | (Cortes, 1999; Lucifora *et al.*, 2006; Dunn *et al.*, 2010) |
| *Galeus melastomus* | generalist | (Saldanha & Almeida, 1995; Cortes, 1999; Olaso *et al.*, 2005; Valls *et al.*, 2011; Anastasopoulou *et al.*, 2013) |
| *Ginglymostoma cirratum* | generalist | (Cortes, 1999; Castro, 2000) |
| *Halaelurus boesemani* | NA |  |
| *Halaelurus buergeri* | fish & Cephalopoda | personal observation (n=1, fish found in stomach content) |
| *Hemigaleus microstoma* | fish & Cephalopoda | (Cortes, 1999) |
| *Hemiscyllium strahani* | NA |  |
| *Hemiscyllium trispeculare* | invertebrates | (Ebert *et al.*, 2013) |
| *Heptranchias perlo* | Fish & Cephalopoda | (Cortes, 1999; Braccini, 2008) |
| *Heterodontus francisci* | Decapoda & Mollusca | (Cortes, 1999) |
| *Heterodontus japonicus* | Decapoda & Mollusca | (Compagno, 2001) |
| *Hexanchus griseus* | fish & Cephalopoda | (Cortes, 1999; Kabasakal, 2004; Celona, De Maddalena, & Romeo, 2005) |
| *Isistius brasiliensis* | fish & Cephalopoda | (Cortes, 1999) |
| *Isogomphodon oxyrhynchus* | fish & Cephalopoda | (Compagno, 1984a) |
| *Isurus oxyrinchus* | fish & Cephalopoda | (Cortes, 1999; Lopez, Melendez, & Barria, 2009) |
| *Isurus paucus* | fish & Cephalopoda | (Compagno, 1984a) |
| *Lamna ditropis* | fish & Cephalopoda | (Compagno, 1984a; Hulbert *et al.*, 2005) |
| *Lamna nasus* | fish & Cephalopoda | (Cortes, 1999; Joyce, 2002) |
| *Mitsukurina owstoni* | fish & Cephalopoda | (Yano *et al.*, 2007) |
| *Mustelus asterias* | Decapoda & Mollusca | (Cortes, 1999) |
| *Mustelus henlei* | generalist | (Cortes, 1999; Espinoza *et al.*, 2012) |
| *Mustelus higmani* | Decapoda & Mollusca | (Cortes, 1999) |
| *Mustelus mustelus* | Decapoda & Mollusca | (Cortes, 1999; Filiz, 2009; Saidi *et al.*, 2009) |
| *Nebrius ferrugineus* | fish & Cephalopoda | (Cortes, 1999) |
| *Negaprion acutidens* | fish & Cephalopoda | (Cortes, 1999; White, Platell, & Potter, 2004) |
| *Orectolobus japonicus* | fish & Cephalopoda | (Compagno, 2001) |
| *Orectolobus maculatus* | fish & Cephalopoda | (Huveneers *et al.*, 2007) |
| *Orectolobus ornatus* | fish & Cephalopoda | (Huveneers *et al.*, 2007) |
| *Oxynotus centrina* | invertebrates | (Capape, 2008) |
| *Prionace glauca* | fish & Cephalopoda | (Cortes, 1999; Markaida & Sosa-Nishizaki, 2010) |
| *Pristiophorus japonicus* | generalist | (Ebert *et al.*, 2013) |
| *Proscyllium habereri* | Fish & Cephalopoda | (Compagno, 1984a) |
| *Pseudocarcharias kamoharai* | generalist | (Compagno, 2001) |
| *Rhizoprionodon terraenovae* | fish & Cephalopoda | (Cortes, 1999; Hoffmayer & Parsons, 2003; Bethea, Bucker, & Carlson, 2004; Bethea & Carlson, 2006; Delorenzo, Bethea, & Carlson, 2015) |
| *Scoliodon laticaudus* | Decapoda & Mollusca | (Cortes, 1999; Fofandi, Zala, & Koya, 2013) |
| *Scyliorhinus boa* | NA |  |
| *Scyliorhinus canicula* | Decapoda & Mollusca | (Saldanha & Almeida, 1995; Cortes, 1999; Olaso *et al.*, 2005; Valls *et al.*, 2011; Martinho *et al.*, 2012; Šantić, Rađa, & Pallaoro, 2012) |
| *Scyliorhinus stellaris* | fish & Cephalopoda | (Saldanha & Almeida, 1995; Cortes, 1999) |
| *Scymnodalatias cf. albicauda* | fish & Cephalopoda | personal observation (n=1, fish in stomach content) |
| *Sphyrna corona* | NA |  |
| *Sphyrna lewini* | fish & Cephalopoda | (Cortes, 1999; Bush, 2003; Júnior, Vooren, & Lessa, 2009; Bornatowski *et al.*, 2014) |
| *Sphyrna mokarran* | fish & Cephalopoda | (Strong, Snelson, & Gruber, 1990; Cortes, 1999) |
| *Sphyrna tiburo* | Decapoda & Mollusca | (Lessa & Almeida, 1998; Cortes, 1999; Bethea *et al.*, 2007) |
| *Sphyrna tudes* | fish & Cephalopoda | (Castro, 1989) |
| *Sphyrna zygaena* | fish & Cephalopoda | (Cortes, 1999; Bornatowski *et al.*, 2014) |
| *Squalus acanthias* | fish & Cephalopoda | (Cortes, 1999; Laptikhovsky, Arkhipkin, & Henderson, 2001; Alonso *et al.*, 2002; Dunn *et al.*, 2013) |
| *Squalus cubensis* | fish & Cephalopoda | (Cortes, 1999) |
| *Squalus megalops* | fish & Cephalopoda | (Cortes, 1999) |
| *Squalus suckleyi* | NA |  |
| *Squatina africana* | fish & Cephalopoda | (Cortes, 1999) |
| *Squatina japonica* | NA |  |
| *Squatina squatina* | fish & Cephalopoda | (Cortes, 1999) |
| *Stegostoma fasciatum* | Decapoda & Mollusca | (Cortes, 1999) |
| *Triaenodon obesus* | fish & Cephalopoda | (Cortes, 1999) |
| *Triakis semifasciata* | generalist | (Cortes, 1999; Ebert & Ebert, 2005) |

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