

Table S3.1. Balistoid species habitat and feeding ecology classifications and citations.

<b>Species</b>	<b>Family</b>	<b>Habitat</b>	<b>Habitat Citation</b>	<b>Feeding Mode</b>	<b>Feeding Mode Citation</b>
<i>Abalistes stellaris</i>	Balistidae	Coastal Bare Bottom	(K Matsuura 2001)	BG & EP *	(Kulbicki et al. 2005)
<i>Abalistes stellatus</i>	Balistidae	Coastal Bare Bottom	(Lieske & Myers, 2002; Randall et al. 1990)	BG	(Carpenter et al. 1997)
<i>Acanthaluteres spilomelanurus</i>	Monacanthidae	Seagrass/ Weedy	(Scott 1981)	BG *	(Scott 1981)
<i>Acanthaluteres vittiger</i>	Monacanthidae	Seagrass/ Weedy	(Edgar, Barrett, and Morton 2004; Hyndes et al. 2003)	BG *	(Jones 1992; Last 1975)
<i>Acreichthys tomentosus</i>	Monacanthidae	Seagrass/ Weedy	(Nakamura and Sano 2004; Peristiwady and Geistdoerfer 1991)	BG *	(Horinouchi et al. 2012; Nakamura et al. 2003; Peristiwady and Geistdoerfer 1991)
<i>Aluterus heudeloti</i>	Monacanthidae	Open Ocean Demersal	(Wenner 1983)	BG	(K Matsuura 2001)
<i>Aluterus monoceros</i>	Monacanthidae	Open Ocean Rafting	(Kuitert 1992; Lieske and Myers 2002)	BG *	(Ghosh et al. 2011; Lopez-Peralta and Arcila 2002)
<i>Aluterus schoepfii</i>	Monacanthidae	Seagrass/ Weedy	(Lieske and Myers 2002; John E Randall 1967)	BG *	(K Matsuura 2001; John E Randall 1967)
<i>Aluterus scriptus</i>	Monacanthidae	Open Reef	(Dominici-Arosemena and Wolff 2006; Lieske and Myers 2002; John E Randall 1967)	BG *	(John E Randall 1967; John E. Randall, Allen, and Steene 1990; Wulff, 1994)
<i>Amaneses scopas</i>	Monacanthidae	Structured Reef	(Kuitert 1992; Myers 1991)	BG	(Durville, Chabanet, and Quod 2003; Schroeder 1980)

<i>Balistapus undulatus</i>	Balistidae	Structured Reef	(Hiatt and Strasburg 1960; Lieske and Myers 2002; McClanahan and Shafir 1990; John E. Randall, Allen, and Steene 1990)	BG & EP *	(Hiatt and Strasburg 1960; John E. Randall 1955; John E. Randall, Allen, and Steene 1990)
<i>Balistes capriscus</i>	Balistidae	Open Ocean Pelagic	(Longley 1941)	BG & EP *	(Goldman, Glasgow, and Falk 2016; Lieske and Myers 2002; Vose and Nelson 1994)
<i>Balistes polylepis</i>	Balistidae	Open Reef	(Burgess et al. 1984; Dominici-Arosemena and Wolff 2006)	BG & EP *	(Abitia Cárdenas, Rodríguez Romero, and Galván Magaña 1990; Glynn, Stewart, and McCosker 1972)
<i>Balistes punctatus</i>	Balistidae	Open Reef	(Froese and Pauly 2019)	BG & EP *	(Aggrey-Fynn 2007)
<i>Balistes vetula</i>	Balistidae	Open Reef	(Hobson 1965; John E. Randall 1967)	BG & EP *	(Hobson 1965; John E. Randall 1967; Turingan 1994)
<i>Balistoides conspicillum</i>	Balistidae	Open Reef	(Kuitert 1992; John E. Randall, Allen, and Steene 1990)	BG	(Meyer 1985; Schroeder 1980)
<i>Balistoides viridescens</i>	Balistidae	Structured Reef	(Hiatt and Strasburg 1960)	BG	(Hiatt and Strasburg 1960; Myers 1991; J. E. Randall 1980)
<i>Brachaluteres jacksonianus</i>	Monacanthidae	Seagrass/Weedy	(Hyndes et al. 2003; Kawase 2005)	BG *	(Last 1975; Scott 1981)

<i>Cantherhines dumerilii</i>	Monacanthidae	Open Reef	(Hobson 1974; Myers 1991)	BG *	(Disalvo, Randall, and Cea 2007; Hiatt and Strasburg 1960; Hobson 1974)
<i>Cantherhines fronticinctus</i>	Monacanthidae	Structured Reef	(Hutchins and Randall 1982; Lieske and Myers 2002; Taquet et al. 2017)	BG	(Taquet et al. 2017)
<i>Cantherhines macrocerus</i>	Monacanthidae	Structured Reef	(Lieske and Myers 2002; John E. Randall 1964; John E. Randall 1967)	BG *	(J. E. Randall and Hartman 1968; John E. Randall 1967; Turingan, Wainwright, and Hensley 1995; Wulff, 1994)
<i>Cantherhines pardalis</i>	Monacanthidae	Structured Reef	(Schroeder 1980; Taquet et al. 2017)	BG	(Kawase and Nakazono 1994)
<i>Cantherhines pullus</i>	Monacanthidae	Structured Reef	(Lieske and Myers 2002; John E. Randall 1967)	BG *	(J. E. Randall and Hartman 1968; John E. Randall 1967)
<i>Cantherhines sandwichiensis</i>	Monacanthidae	Structured Reef	(Hobson 1974)	BG *	(Hobson 1974; John E. Randall 1985)
<i>Cantherhines vercundus</i>	Monacanthidae	Structured Reef	(John E. Randall 2007)	BG *	(Hutchins and Randall 1982)
<i>Canthidermis maculata</i>	Balistidae	Open Ocean Pelagic	(Berry and Baldwin 1966; Lieske and Myers 2002; Taquet et al. 2007)	PL	(Bacchet, Zysman, and Lefèvre 2016; Lieske and Myers 2002; Sandin and Williams 2010)
<i>Canthidermis sufflamen</i>	Balistidae	Open Ocean Pelagic	(Brito, Falcon, and Herrera 1995; Myers 1991)	PL *	(John E. Randall 1967)

<i>Chaetodermis penicilligerus</i>	Monacanthidae	Seagrass/ Weedy	(Kuitert 1992; Lieske and Myers 2002; Schroeder 1980)	BG	(Schroeder 1980)
<i>Eubalichthys mosaicus</i>	Monacanthidae	Seagrass/ Weedy	(Taquet et al. 2017)	BG	(Taquet et al. 2017)
<i>Melichthys indicus</i>	Balistidae	Open Reef	(John Ernest Randall 1995)	PL & BG	(Patankar et al. 2018; John Ernest Randall 1995)
<i>Melichthys niger</i>	Balistidae	Open Reef	(Hobson 1974; John E. Randall 1955; Sancho, Petersen, and Lobel 2000)	PL & BG *	(Hobson 1974; John E Randall 1967)h
<i>Melichthys vidua</i>	Balistidae	Structured Reef	(Hiatt and Strasburg 1960; Sancho, Petersen, and Lobel 2000)	BG & EP	(Hiatt and Strasburg 1960; Lieske and Myers 2002; John E. Randall, Allen, and Steene 1990)
<i>Meuschenia freycineti</i>	Monacanthidae	Seagrass/ Weedy	(Baker 2011; Edgar, Barrett, and Morton 2004; Valesini, Potter, and Clarke 2004)	BG *	(Bell, Burchmore, and Pollard 1978; Bulman et al. 2001; Burchmore, Pollard, and Bell 1984; Last 1975)
<i>Meuschenia hippocrepis</i>	Monacanthidae	Seagrass/ Weedy	(Harvey et al. 2012; Taquet et al. 2017)	BG *	(Rodgers, Linnane, and Huveneers 2013)
<i>Meuschenia trachylepis</i>	Monacanthidae	Seagrass/ Weedy	(Conacher, Lanzing, and Larkum 1979; Wressnig and Booth 2008)	BG *	(Bell, Burchmore, and Pollard 1978)

<i>Monacanthus chinensis</i>	Monacanthidae	Seagrass/ Weedy	(Bell, Burchmore, and Pollard 1978; Conacher, Lanzing, and Larkum 1979)	BG *	(Bell, Burchmore, and Pollard 1978; Burchmore, Pollard, and Bell 1984; Conacher, Lanzing, and Larkum 1979)
<i>Monacanthus ciliatus</i>	Monacanthidae	Seagrass/ Weedy	(Lieske and Myers 2002; John E Randall 1967; Tabb and Manning 1961)	BG *	(Clements and Livingston 1983; John E Randall 1967; Springer and Woodburn 1960)
<i>Monacanthus tuckeri</i>	Monacanthidae	Seagrass/ Weedy	(Layman and Silliman 2002; Lieske and Myers 2002)	BG *	(Lieske and Myers 2002; John E Randall 1967)
<i>Nelusetta ayraudi</i>	Monacanthidae	Open Ocean Demersal	(Lindholm 1984)	BG & EP *	(Burchmore, Pollard, and Bell 1984; Lindholm 1984)
<i>Odonus niger</i>	Balistidae	Open Reef	(Fricke 1980; Lieske and Myers 2002; John E. Randall, Allen, and Steene 1990)	PL	(Fricke 1980; John E. Randall, Allen, and Steene 1990)
<i>Oxymonacanthus longirostris</i>	Monacanthidae	Structured Reef	(Hiatt and Strasburg 1960; John E. Randall 1955)	BG *	(Hiatt and Strasburg 1960; Myers 1991; Sano, Shimizu, and Nose 1984)
<i>Paraluteres prionurus</i>	Monacanthidae	Structured Reef	(Kuitert 2005; Myers 1991)	BG	(Froese and Pauly 2019; Taquet et al. 2017)
<i>Paramonacanthus choirocephalus</i>	Monacanthidae	Coastal Bare Bottom	(Hutchins 1997; Travers et al. 2010)	BG	(Carpenter et al. 1997)
<i>Paramonacanthus filicauda</i>	Monacanthidae	Coastal Bare Bottom	(Blaber, Brewer, and Harris 1994)	PL *	(Bulman et al. 2001)

<i>Paramonacanthus oblongus</i>	Monacanthidae	Coastal Bare Bottom	(Carpenter et al. 1997)	BG	(Carpenter et al. 1997)
<i>Paramonacanthus sulcatus</i>	Monacanthidae	Coastal Bare Bottom	(Froese and Pauly 2019)	BG	(Hutchins 1997)
<i>Pervagor aspricaudus</i>	Monacanthidae	Structured Reef	(Kuitert 2005; Lieske and Myers 2002; John E. Randall 2007; Taquet et al. 2017)	NA	
<i>Pervagor janthinosoma</i>	Monacanthidae	Structured Reef	(Myers 1991; Taquet et al. 2017)	NA	
<i>Pervagor melanocephalus</i>	Monacanthidae	Structured Reef	(Kuitert 1992; Lieske and Myers 2002)	NA	
<i>Pervagor nigrolineatus</i>	Monacanthidae	Structured Reef	(Lieske and Myers 2002)	NA	
<i>Pervagor spilosoma</i>	Monacanthidae	Structured Reef	(Hobson 1974; Lieske and Myers 2002)	BG *	(Hobson 1974; John E. Randall 1985)
<i>Pseudobalistes flavimarginatus</i>	Balistidae	Open Reef	(Hiatt and Strasburg 1960; John E. Randall, Allen, and Steene 1990)	BG *	(Hiatt and Strasburg 1960; Sano, Shimizu, and Nose 1984)
<i>Pseudobalistes fuscus</i>	Balistidae	Open Reef	(Hiatt and Strasburg 1960; Myers 1991)	BG *	(Hiatt and Strasburg 1960; Kulbicki et al. 2005; Taquet et al. 2017)
<i>Pseudobalistes naufragium</i>	Balistidae	Structured Reef	(Dominici-Arosemena and Wolff 2006; Witman, Smith, and Novak 2017)	BG *	(Guzmán 1988; Witman, Smith, and Novak 2017)
<i>Pseudomonacanthus macrurus</i>	Monacanthidae	Seagrass/ Weedy	(Kuitert 1992; Lieske and Myers 2002)	NA	
<i>Pseudomonacanthus peroni</i>	Monacanthidae	Coastal Bare Bottom	(Blaber, Brewer, and Harris 1994)	NA	

<i>Rhinecanthus abyssus</i>	Balistidae	Open Ocean Demersal	(Keiichi Matsuura and Shiobara 1989)	NA	
<i>Rhinecanthus aculeatus</i>	Balistidae	Open Reef	(Hiatt and Strasburg 1960; Lecchini and Galzin 2005; John E. Randall 1955)	BG & EP *	(Hiatt and Strasburg 1960; Lieske and Myers 2002; Myers 1991; Sano, Shimizu, and Nose 1984)
<i>Rhinecanthus assasi</i>	Balistidae	Open Reef	(Lieske and Myers 2002; Taquet et al. 2017)	BG	(Froese and Pauly 2019)
<i>Rhinecanthus lunula</i>	Balistidae	Structured Reef	(Lieske and Myers 2002; John E. Randall, Allen, and Steene 1990)	BG & EP	(Bacchet, Zysman, and Lefèvre 2016)
<i>Rhinecanthus rectangulus</i>	Balistidae	Structured Reef	(Hiatt and Strasburg 1960; Hobson 1974)	BG *	(Hiatt and Strasburg 1960; Hobson 1974; John E. Randall 1985; Sano, Shimizu, and Nose 1984)
<i>Rhinecanthus verrucosus</i>	Balistidae	Structured Reef	(K Matsuura 2001; John E. Randall, Allen, and Steene 1990)	BG	(Schroeder 1980)
<i>Rudarius ercodes</i>	Monacanthidae	Seagrass/ Weedy	(Horinouchi et al. 2013; Kikuchi 1974)	BG *	(Horinouchi et al. 1998; Kawase and Nakazono 1995; Kwak, Huh, and Choi 2006)
<i>Scobinichthys granulatus</i>	Monacanthidae	Seagrass/ Weedy	(Hyndes et al. 2003; T. Smith, Jenkins, and Hutchinson 2012)	BG *	(Brown, Lewis, and Baker 2008; Burchmore, Pollard, and Bell 1984)
<i>Stephanolepis auratus</i>	Monacanthidae	Open Ocean Demersal	(Froese and Pauly 2019)	NA	

<i>Stephanolepis cirrhifer</i>	Monacanthidae	Seagrass/ Weedy	(Kikuchi 1974)K	BG *	(Kawase and Nakazono 1996; Kikuchi 1974; Kwak, Baeck, and Huh 2003)
<i>Stephanolepis hispidus</i>	Monacanthidae	Open Ocean Demersal	(Longley 1941; Wenner 1983)	BG *	(Livingston 1982; Mancera-Rodríguez and Castro-Hernández 2015)
<i>Stephanolepis setifer</i>	Monacanthidae	Seagrass/ Weedy	(Lieske and Myers 2002; K Matsuura 2001)	BG	(K Matsuura 2001)
<i>Sufflamen albicaudatum</i>	Balistidae	Open Reef	(Lieske and Myers 2002; Taquet et al. 2017)	NA	
<i>Sufflamen bursa</i>	Balistidae	Structured Reef	(Hobson 1974; Lieske and Myers 2002; Myers 1991)	BG *	(Hobson 1974; Lieske and Myers 2002; John E. Randall 1985)
<i>Sufflamen chrysopterum</i>	Balistidae	Structured Reef	(Nakamura and Sano 2004; John E. Randall, Allen, and Steene 1990; Taquet et al. 2017)	BG	(Myers 1991; Patankar et al. 2018)
<i>Sufflamen fraenatum</i>	Balistidae	Open Reef	(Lieske and Myers 2002; Myers 1991; John E. Randall et al. 1993)	BG & EP *	(John E. Randall, Earle, Pyle, Parrish, & Hayes, 1993)
<i>Sufflamen verres</i>	Balistidae	Structured Reef	(Dominici-Arosemena and Wolff 2006; Hobson 1965)	BG *	(Dominici-Arosemena and Wolff 2006; Glynn, Stewart, and McCosker 1972; Hobson 1965)
<i>Thamnaconus arenaceus</i>	Monacanthidae	Open Ocean Demersal	(Froese and Pauly 2019)	NA	

<i>Thamnaconus fajardoi</i>	Monacanthidae	Open Ocean Demersal	(J. L. B. Smith, Smith, and Heemstra 1986)	NA	
<i>Thamnaconus modestoides</i>	Monacanthidae	Open Ocean Demersal	(Carpenter et al. 1997; K Matsuura and Tyler 1997)	NA	
<i>Thamnaconus modestus</i>	Monacanthidae	Seagrass/ Weedy	(Masuda, Yamashita, and Matsuyama 2008)	BG *	(Kim, Choi, and Park 2013)
<i>Thamnaconus tessellatus</i>	Monacanthidae	Open Ocean Demersal	(K Matsuura and Tyler 1997)	NA	
<i>Xanthichthys auromarginatus</i>	Balistidae	Open Reef	(K Matsuura 2001; Myers 1991; Taquet et al. 2017)	PL *	(Myers 1991; J. Randall, Matsuura, and Zama 1978; John E. Randall 2007)
<i>Xanthichthys mento</i>	Balistidae	Open Reef	(Kawase 2003; Lieske and Myers 2002)	PL *	(Disalvo, Randall, and Cea 2007; Kawase 2003; John E. Randall 1985)
<i>Xanthichthys ringens</i>	Balistidae	Open Reef	(Lieske and Myers 2002; J. Randall, Matsuura, and Zama 1978)	PL & BG *	(Turingan, Wainwright, and Hensley 1995)

Key: BG = Benthic Grazer; EP = Elusive Prey; PL = Planktivore; \* = Quantitative data

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