Supp. 1: BRUV Studies by Topic.

Appendix II: 259 studies found using baited underwater cameras showing the purpose of the study. Papers were included in the analysis if published in peer-reviewed literature, bait was used in one or more replicates and if video footage was used rather than still images. The last search (finding 254 studies) was conducted on the 27/05/2019 using the keywords 'baited' and 'video' or 'BRUVS', on Google Scholar, Scopus, Proquest (Aquatic Sciences and Fisheries Abstracts), Biological Abstracts. Extra studies known to the authors were added. The Other category includes studies focusing on anthropogenic stressors, artificial structures, and diurnal changes. Number below show the total number of studies in that category. Individual studies may be included in more than one category.

Behavioural (63 studies) (Ellis & DeMartini 1995; Willis & Babcock 2000; Willis, Millar & Babcock 2000; Collins *et al.* 2002; Denny, Willis & Babcock 2004; Jamieson *et al.* 2006; Bailey *et al.* 2007; Stoner, Laurel & Hurst 2008; Jamieson *et al.* 2009; Broad *et al.* 2010; Fujii *et al.* 2010; McLean *et al.* 2010; Ryer, Laurel & Stoner 2010; Brooks *et al.* 2011; Dunstan, Ward & Marshall 2011; Gutteridge *et al.* 2011; McLean, Harvey & Meeuwig 2011; Robbins, Peddemors & Kennelly 2011; Zintzen *et al.* 2011; Bond *et al.* 2012; Misa *et al.* 2013; White *et al.* 2013; Barord *et al.* 2014; Dunlop *et al.* 2014; Espinoza *et al.* 2014; Harasti *et al.* 2014; Klages *et al.* 2014; Santana-Garcon *et al.* 2014b; Udyawer *et al.* 2014; Barley *et al.* 2015; Bornt *et al.* 2015; D'Onghia *et al.* 2015b; De Vos *et al.* 2015; Malcolm *et al.* 2015; Ryan *et al.* 2015; Stobart *et al.* 2015; Terres *et al.* 2015; Harasti *et al.* 2016; Kempster *et al.* 2016; Spaet, Malcolm HA 2016; Nanninga & Berumen 2016; Acuña-Marrero *et al.* 2017; Cullen & Stevens 2017; Duffy, Letessier & Irving 2017; Kilfoil *et al.* 2017; Roberson *et al.* 2017; Wellington, Wakefield & White 2017; Alós *et al.* 2018; Benjamins *et al.* 2018; Devine, Wheeland & Fisher 2018; Fetterplace *et al.* 2018; Hammerschlag *et al.* 2018; Harasti *et al.* 2018b; Irigoyen *et al.* 2018; Jabado *et al.* 2018; Mensinger, Putland & Radford 2018; O'Connell *et al.* 2018; O'Driscoll *et al.* 2018; Radford, Putland & Mensinger 2018; Sherman *et al.* 2018; Chapuis *et al.* 2019; Juhel *et al.* 2019; Rolim, Rodrigues & Gadig 2019; Thompson, Bouchet & Meeuwig 2019)
Fishing impacts (80 studies): (Willis & Babcock 2000; Willis, Millar & Babcock 2000; Westera, Lavery & Hyndes 2003; Cappo, Speare & De'ath 2004; Denny & Babcock 2004; Denny, Willis & Babcock 2004; Cappo, De'ath & Speare 2007; Heagney *et al.* 2007; Malcolm *et al.* 2007; Watson *et al.* 2007; Kleczkowski, Babcock & Clapin 2008; Svane & Barnett 2008; Svane, Roberts & Saunders 2008; Watson *et al.* 2009; McLean *et al.* 2010; Goetze *et al.* 2011; McLean, Harvey & Meeuwig 2011; Bernard & Götz 2012; Bloomfield *et al.* 2012; Bond *et al.* 2012; Dorman, Harvey & Newman 2012; Harvey *et al.* 2012b; Langlois, Harvey & Meeuwig 2012; Fitzpatrick, McLean & Harvey 2013; Gardner & Struthers 2013; Goetze & Fullwood 2013; Moore *et al.* 2013; Poulos *et al.* 2013; Rees *et al.* 2013; Sackett *et al.* 2013; White *et al.* 2013; Wraith *et al.* 2013; De Vos *et al.* 2014; Dunlop, Barnes & Bailey 2014; Espinoza *et al.* 2014; Hill *et al.* 2014; Kelaher *et al.* 2014; Lindfield, McIlwain & Harvey 2014; Peters *et al.* 2014; Rizzari, Frisch & Connolly 2014; Santana-Garcon *et al.* 2014c; Stevens *et al.* 2014; Whitmarsh *et al.* 2014; Bornt *et al.* 2015; Bouchet & Meeuwig 2015; Coleman *et al.* 2015; Fitzpatrick *et al.* 2015; Goetze *et al.* 2015; Harasti *et al.* 2015; Howarth *et al.* 2015; Kelaher *et al.* 2015a; Kelaher *et al.* 2015b; Malcolm *et al.* 2015; McLaren *et al.* 2015; Roberson *et al.* 2015; Schultz *et al.* 2015; Stobart *et al.* 2015; Tanner & Williams 2015; Terres *et al.* 2015; Colefax, Haywood & Tibbetts 2016; Gilby, Tibbetts & Stevens 2016; Heyns-Veale *et al.* 2016; Jaiteh *et al.* 2016; Ochwada-Doyle, Johnson & Lowry 2016; Parker *et al.* 2016; Walsh, Barrett & Hill 2016; Barley, Meekan & Meeuwig 2017a; Díaz-Gil *et al.* 2017; Harasti *et al.* 2017; Tickler *et al.* 2017; Goetze *et al.* 2018; Harasti *et al.* 2018b; Hill *et al.* 2018; Juhel *et al.* 2018; Malcolm *et al.* 2018; Mensinger, Putland & Radford 2018; Rees *et al.* 2018; Speed, Cappo & Meekan 2018; Harasti *et al.* 2019; Henderson *et al.* 2019; Juhel *et al.* 2019; Ortodossi *et al.* 2019; Prior *et al.* 2019
Spatial and habitat associations (79 studies): (Cappo, De'ath & Speare 2007; Heagney *et al.* 2007; Malcolm *et al.* 2007; Gomelyuk 2009; Watson & Harvey 2009; Westera *et al.* 2009; Chatfield *et al.* 2010; McLean *et al.* 2010; Moore, Harvey & Van Niel 2010; Ryer, Laurel & Stoner 2010; Cappo *et al.* 2011; Jeffreys *et al.* 2011; Malcolm, Jordan & Smith 2011; McIlwain *et al.* 2011; Merritt *et al.* 2011; Moore, Van Niel & Harvey 2011; Colton & Swearer 2012; Fitzpatrick *et al.* 2012; Harvey *et al.* 2012a; Harvey *et al.* 2012c; Langlois *et al.* 2012b; Schultz *et al.* 2012; Zintzen *et al.* 2012; Harvey *et al.* 2013; Poulos *et al.* 2013; Rees *et al.* 2013; Espinoza *et al.* 2014; Morton & Gladstone 2014; Schultz *et al.* 2014; Bacheler & Shertzer 2015; Pearson & Stevens 2015; Schultz *et al.* 2015; Scott *et al.* 2015; Tanner & Williams 2015; Andradi-Brown *et*

al. 2016; Gilby *et al.* 2016; Hesse, Stanley & Jeffs 2016; Heyns-Veale *et al.* 2016; Lindfield *et al.* 2016; McLean *et al.* 2016; Vargas-Fonseca *et al.* 2016; Vergés *et al.* 2016; Walsh, Barrett & Hill 2016; Yates *et al.* 2016; Asher, Williams & Harvey 2017; Babcock *et al.* 2017; Barley, Meekan & Meeuwig 2017a; Benzeev, Hutchinson & Friess 2017; Borland *et al.* 2017; Ford, Stewart & Roberts 2017; Galaiduk *et al.* 2017a; Galaiduk *et al.* 2017b; Galaiduk *et al.* 2017c; Henderson *et al.* 2017; Lavaleye *et al.* 2017; Linley *et al.* 2017; Logan *et al.* 2017; Oh *et al.* 2017; Schmid *et al.* 2017; Tickler *et al.* 2017; Zintzen *et al.* 2017; Abesamis *et al.* 2018; Alós *et al.* 2018; Esteban *et al.* 2018; Ferrari *et al.* 2018a; Ferrari *et al.* 2018b; Ford & Roberts 2018; Galaiduk, Radford & Harvey 2018; Goetze *et al.* 2018; Hammerschlag *et al.* 2018; Harasti *et al.* 2018a; Irigoyen *et al.* 2018; Kiggins, Knott & Davis 2018; Rees, Knott & Davis 2018; Wellington *et al.* 2018; Bach *et al.* 2019; Clarke *et al.* 2019; Gilby *et al.* 2019; Hale *et al.* 2019; Reis-Filho *et al.* 2019; Schultz *et al.* 2019; Williams *et al.* 2019)
Methods (within BRUVS)(40 studies): (Watson *et al.* 2005; Harvey *et al.* 2007; Stobart *et al.* 2007; Lowry, Folpp & Gregson 2011; Bernard & Götz 2012; Dorman, Harvey & Newman 2012; Gladstone *et al.* 2012; Harvey *et al.* 2012a; Ebner & Morgan 2013; Fitzpatrick, McLean & Harvey 2013; Hardinge *et al.* 2013; Letessier *et al.* 2013; Taylor, Baker & Suthers 2013; Wraith *et al.* 2013; De Vos *et al.* 2014; Hannah & Blume 2014; Santana-Garcon, Newman & Harvey 2014; Unsworth *et al.* 2014; Anderson & Santana-Garcon 2015; Campbell *et al.* 2015; Harasti *et al.* 2015; Letessier *et al.* 2015; Rees *et al.* 2015; Stobart *et al.* 2015; Tanner & Williams 2015; Trobbiani & Venerus 2015; Ghazilou, Shokri & Gladstone 2016b; Ghazilou, Shokri & Gladstone 2016a; Misa *et al.* 2016; Walsh, Barrett & Hill 2016; Watson & Huntington 2016; Cundy *et al.* 2017; Kilfoil *et al.* 2017; Schmid *et al.* 2017; Trave *et al.* 2017; Benjamins *et al.* 2018; Sherman *et al.* 2018; Whitmarsh, Huveneers & Fairweather 2018; Clarke *et al.* 2019; Whitmarsh, Fairweather & Huveneers 2019; Wong *et al.* 2019)
Methods (comparisons to other methods)(45 studies): (Ellis & DeMartini 1995; Willis & Babcock 2000; Willis, Millar & Babcock 2000; Cappo, Speare & De'ath 2004; Watson *et al.* 2005; Stobart *et al.* 2007; Colton & Swearer 2010; Langlois *et al.* 2010; Watson *et al.* 2010; Brooks *et al.* 2011; Lowry *et al.* 2011; Pelletier *et al.* 2011; Colton & Swearer 2012; Harvey *et al.* 2012c; Langlois *et al.* 2012a; Lowry *et al.* 2012; Ebner & Morgan 2013; Gardner & Struthers 2013; Wakefield *et al.* 2013; Rizzari, Frisch & Connolly 2014; Santana-Garcon *et al.* 2014a; Ebner *et al.* 2015; Goetze *et al.* 2015; Langlois *et al.* 2015; McLaren *et al.* 2015; Stobart *et al.* 2015; Andradi-Brown *et al.* 2016; Ochwada-Doyle, Johnson & Lowry 2016; Parker *et al.* 2016; Pejdo *et al.* 2016; Spaet, Nanninga & Berumen 2016; Bacheler *et al.* 2017; Barley, Meekan & Meeuwig 2017b; Bosch *et al.* 2017; Bradley, Papastamatiou & Caselle 2017; Galaiduk *et al.* 2017a; Logan *et al.* 2017; Roberson *et al.* 2017; Boussarie *et al.* 2018; Davis, Larkin & Harasti 2018; Enchelmaier, Babcock & Hammerschlag 2018; Goetze *et al.* 2018; Hale *et al.* 2019; Stat *et al.* 2019; Wong *et al.* 2019)
Other (e.g. diel variation)(41 studies): (Yau *et al.* 2002; Smale *et al.* 2007; Svane & Barnett 2008; Svane, Roberts & Saunders 2008; Bassett & Montgomery 2011; Craig *et al.* 2011; Marouchos *et al.* 2011; McIlwain *et al.* 2011; Aguzzi *et al.* 2012; Birt, Harvey & Langlois 2012; Harvey *et al.* 2012a; Harvey *et al.* 2012b; Fitzpatrick, McLean & Harvey 2013; Folpp *et al.* 2013; Ruppert *et al.* 2013; Anderson & Bell 2014; Lowry *et al.* 2014; Peters *et al.* 2014; Unsworth *et al.* 2014; Anderson & Santana-Garcon 2015; D'Onghia *et al.* 2015a; Kelaher *et al.* 2015a; Kelaher *et al.* 2015b; Scott *et al.* 2015; Ghazilou, Shokri & Gladstone 2016b; Griffin *et al.* 2016; Roberts, Pérez-Domínguez & Elliott 2016; Vargas-Fonseca *et al.* 2016; Benzeev, Hutchinson & Friess 2017; Díaz-Gil *et al.* 2017; Nagelkerken *et al.* 2017; Bond *et al.* 2018; Florisson *et al.* 2018; Irigoyen *et al.* 2018; Mensinger, Putland & Radford 2018; Olds *et al.* 2018; Radford, Putland & Mensinger 2018; Reynolds *et al.* 2018; Chapuis *et al.* 2019; Henderson *et al.* 2019; Whitmarsh, Fairweather & Huveneers 2019)

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