

Supplementary Material

Table S1: Documented active and inactive cases of human-wildlife cooperation, either from published literature or through personal observation by authors on this paper.

Human-wildlife cooperation	Non-human animal species	Human cultural group	Location	Prey species	Status and period	References
Human-dolphin	Lahille's bottlenose dolphin (<i>Tursiops truncatus gephyreus</i> or <i>Tursiops gephyreus</i>)*	Artisanal Brazilian net-casting fishers	Araranguá, Santa Catarina, southern Brazil	Mainly Mugilidae	Inactive, ~ 1900–1991	(Simões-Lopes, 1991)
Human-dolphin	Lahille's bottlenose dolphin (<i>Tursiops truncatus gephyreus</i> or <i>Tursiops gephyreus</i>)*	Artisanal Brazilian net-casting fishers	Laguna, Santa Catarina, southern Brazil	Mainly Mugilidae	Active (ca. 16 cooperative dolphins), ca. 1890–current day	(Bezamat et al., 2018, 2019; da Rosa et al., 2020; Daura-Jorge et al., 2012, 2013; Machado et al., 2019a; b; Pellegrini et al., 2021; Peterson et al., 2008; Pryor & Lindbergh, 1990; Romeu et al., 2017; Simões-Lopes, 1991; Simões-Lopes et al., 1998, 2016)
Human-dolphin	Lahille's bottlenose dolphin (<i>Tursiops truncatus gephyreus</i> or <i>Tursiops gephyreus</i>)*	Artisanal Brazilian net-casting fishers	Rio Grande, Rio Grande do Sul, Southern Brazil	Mainly Mugilidae	Inactive ~ 1900–1991	(Simões-Lopes, 1991)
Human-dolphin	Lahille's bottlenose dolphin (<i>Tursiops truncatus gephyreus</i> or <i>Tursiops gephyreus</i>)*	Artisanal Brazilian net-casting fishers	Torres river, Rio Grande do Sul, southern Brazil	Mainly Mugilidae	Active (1–2 cooperative dolphins), much reduced, ca. 1900–current day	(Gonçalves, 2018; Simões-Lopes, 1991)
Human-dolphin	Lahille's bottlenose dolphin (<i>Tursiops truncatus gephyreus</i> or <i>Tursiops gephyreus</i>)*	Artisanal Brazilian net-casting fishers	Tramandaí Inlet, Rio Grande do Sul, southern Brazil	Mainly Mugilidae	Active (ca. 12 cooperative dolphins), ca. 1900–current day.	(Afonso, 2015; Camargo et al., 2020; Ilha et al., 2018, 2020; Santos et al., 2018; Serpa, 2019; Silva et al., 2021; Simões-Lopes, 1991; Zappes et al., 2011, I.B.M., unpubl. data)
Human-dolphin	Irrawaddy dolphin (<i>Orcaella brevirostris</i>)	Artisanal Brazilian net-casting fishers	Ayeyarwady river, Sagaing and Mandalay Regions, Myanmar	Mainly Cyprinidae	Active (ca. 8 cooperative dolphins), at least 1878–current day	(Anderson, 1878; Busnel, 1973; Smith et al., 2009; Thein, 1977; Tun, 2004, 2005, 2014)

Human-wildlife cooperation	Non-human animal species	Human cultural group	Location	Prey species	Status and period	References
Human-dolphin	Indo-Pacific bottlenose dolphin (<i>Tursiops aduncus</i>)	Bunjalung Aboriginal Australians using spears and hand nets	Eastern Australia	Mugilidae and Pomatomidae	Inactive	(Clode, 2002; Fairholme, 1856; Neil, 2002; Robinson, 1965)
Human-orca	Orca (<i>Orcinus orca</i>)	Yuin Aboriginal Australians, together with European settlers	Eastern Australia	Baleen whales	Inactive	(Clode, 2002; Dakin, 1938; Mead, 1961; Neil, 2002)
Human-orca	Orca (<i>Orcinus orca</i>)	Chukchi, Siberian Yupik	Chukotka, Russia	Walrus (<i>Odobenus rosmarus</i>), true seal species (Phocidae), grey whales (<i>Eschrichtius robustus</i>)	Inactive	(Bogoras, 1907; Holzlehner, 2015)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Diverse backgrounds	Central Cameroon	Honeybee (<i>Apis mellifera</i>)	Inactive	(Gruber, 2018; Gruber & Sanda, 2019)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Unknown	Central Mozambique	Honeybee (<i>Apis mellifera</i>)	Active	(dos Santos, 1609)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Unknown	Congo Basin	Honeybee (<i>Apis mellifera</i>)	Likely inactive	(Chapin, 1939; Friedmann, 1955; Merolla da Sorrento, 1744)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Xhosa	Eastern Cape, South Africa	Honeybee (<i>Apis mellifera</i>)	Inactive	(Friedmann, 1955; Skead, 1951)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Swazi	Kingdom of Eswatini	Honeybee (<i>Apis mellifera</i>)	Active	(G.S.D, unpubl. data)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Awer	Lamu County, Kenya	Honeybee (<i>Apis mellifera</i>)	Active	(van der Wal <i>et al.</i> , 2022)

Human-wildlife cooperation	Non-human animal species	Human cultural group	Location	Prey species	Status and period	References
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Yao	Niassa Special Reserve, Northern Mozambique	Honeybee (<i>Apis mellifera</i>), meliponine stingless bee species	Active	(Spottiswoode et al., 2016)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Boran	Northern Kenya	Honeybee (<i>Apis mellifera</i>)	Active,	(Isack, 1987, 1999; Isack & Reyer, 1989)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Hadzabe	Northern Tanzania	Honeybee (<i>Apis mellifera</i>), rarely meliponine stingless bee species	Active	(Laltaika, 2021; Marlowe et al., 2014; Wood et al., 2014)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Ndorobo	Northern Tanzania	Honeybee (<i>Apis mellifera</i>)	Active	(Laltaika, 2021; Queeny, 1952)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Sonjo	Northern Tanzania	Honeybee (<i>Apis mellifera</i>)	Active	(Laltaika, 2021)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Maasai	Northern Tanzania	Honeybee (<i>Apis mellifera</i>)	Active	(Laltaika, 2021)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Unknown	Present-day Ethiopia	Honeybee (<i>Apis mellifera</i>)	Unknown	(Friedmann, 1955; Lobo, 1789)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Unknown	Present-day Guinea	Honeybee (<i>Apis mellifera</i>)	Likely inactive	(Friedmann, 1955; Ludolphus, 1682)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Waata	Tsavo, southern Kenya	Honeybee (<i>Apis mellifera</i>)	Unknown	(Ville, 1995)
Human-honeyguide	Greater honeyguide (<i>Indicator indicator</i>)	Khoe-Sān	Western Cape, South Africa	Honeybee (<i>Apis mellifera</i>)	Inactive	(Sparrman, 1777)
Human-wolf	Wolf (<i>Canis lupus</i>)	Indigenous Americans	North America	Various ungulates, including bison (<i>Bison bison</i>) and elk (<i>Cervus Canadensis</i>)	Inactive, possibly active in limited areas	(Barsh & Marlor, 2003; Fogg et al., 2015; Marshall, 1995; Pierotti & Fogg, 2017; Shipman, 2015)

* There is an ongoing taxonomic debate on Lahille's bottlenose dolphin should be considered a species (*Tursiops gephyreus*) or a subspecies (*Tursiops truncatus gephyreus*) (e.g., Wang et al., 2021; Wickert et al., 2016)

Table S2 Documented active and inactive cases of human-wildlife interactions that are potential mutualistic and/or cooperative, or that are mutualistic but not cooperative. Based on published literature or through personal observation by authors on this paper.

Assessment	Human-wildlife interaction	Wild animal species	Human cultural group	Location	Prey species	Status and period	Notes	References
Mutualism; no cooperation	Human-dolphin	Guiana dolphin (<i>Sotalia guianensis</i>)	Artisanal Brazilian fishers using unsupervised stake nets	Cananéia, south-eastern Brazil	Mainly Mugilidae	Active, 1982–current day	The use of stake-nets indicates no real-time coordination	(Louzada, 2013; Monteiro-Filho, 1995; Monteiro-Filho et al., 2018)
Potential mutualism/parasitism	Human-dolphin	Guiana dolphin (<i>Sotalia guianensis</i>)	Brazilian net-casting fishers	Guaratuba southern Brazil	Unknown	Inactive, unknown start date	Not enough details to indicate dolphins benefit	(Monteiro-Filho et al., 1999)
Potential mutualism/parasitism	Human-dolphin	Amazon river dolphin (<i>Inia geoffrensis</i>)	Artisanal Brazilian fishers	Manaus	Unknown	Inactive, unknown start date—ca. 1954	Not enough details to indicate dolphins benefit	(Busnel, 1973; Lamb, 1954)
Potential mutualism/parasitism	Human-dolphin	Indo-Pacific humpback dolphin (<i>Sousa chinensis</i>)	Ashtamudi artisanal fishers	Ashtamudi, south-western India	Mainly Mugilidae	Active, unknown start date	Not enough details to indicate dolphins benefit	(Kumar et al., 2012)
Mutualism; no cooperation	Human-dolphin	Irrawaddy dolphin (<i>Orcaella brevirostris</i>)	Chilika artisanal fishers using unsupervised stake nets	Chilika, eastern India	Mainly Mugilidae	Active, unknown start date	The use of stake-nets indicates no real-time coordination	(D’Lima et al., 2014)
Potential mutualism/parasitism	Human-dolphin	South Asian river dolphin (<i>Platanista gangetica gangetica</i>)	Artisanal fishers	Sundarbans, Bangladesh	Mugilidae and other small fish and shrimp species	Active, unknown start date	It seems unlikely that dolphins benefit, probably not mutualistic	(Deb, 2015)
Mutualism; potential cooperation	Human-dolphin	Common bottlenose dolphin (<i>Tursiops truncatus</i>)	Imragen fishers using spears and hand nets	El-Memghar, Mauritania	Mainly Mugilidae	Potential active	Not enough details to indicate there is coordination	(Busnel, 1973; Campredon & Cuq, 2001)

Assessment	Human-wildlife interaction	Wild animal species	Human cultural group	Location	Prey species	Status and period	Notes	References
Mutualism; potential cooperation	Human-dolphin	Atlantic humpback dolphin (<i>Sousa teuszii</i>)	Imragen fishers using spears and hand nets	El-Memghar, Mauritania	Mainly Mugilidae	Unknown	Not enough details to indicate there is coordination	(Busnel, 1973)
Mutualism; potential cooperation	Human-dolphin	Unknown dolphin species	Unknown	Iasos gulf, present-day Turkey	Unknown	Inactive, unknown start and end dates	Not enough details to indicate there is coordination	(Orams, 1997; Ridgway, 1970; Stebbins, 1929; Turgut, 2010)
Mutualism; potential cooperation	Human-dolphin	Unknown dolphin species	Artisanal fishers	Montpellier, present-day France	Mainly Mugilidae	Inactive, unknown start and end dates	Not enough details to indicate there is coordination	(Pliny the Elder. A.D. 23-79, 1940)
Mutualism; potential cooperation	Human-dolphin	Unknown dolphin species	Unknown	Palomos gulf, present-day Spain	Unknown	Inactive, unknown start and end dates	Not enough details to indicate there is coordination	(Orams, 1997; Ridgway, 1970; Stebbins, 1929; Turgut, 2010)
Potential mutualism	Human-orca	Orca (<i>Orcinus orca</i>)	Gilyak, Nivkhy	Kamchatka, Russia	Walruses (<i>Obobenus rosmarus</i>), seal species (Phocidae), grey whales (<i>Eschrichtius robustus</i>)	Inactive	Not enough details to indicate orcas benefit	(Jochelson, 1908; Shternberg, 1933)
Potential mutualism	Human-orca	Orca (<i>Orcinus orca</i>)	Yamana, Selknam	Cape Horn, Patagonia	Baleen whales (Mysticeti)	Inactive	Not enough details to indicate orcas benefit	(Bogoras, 1907; Chapman, 1997, 2010)
Mutualism; potential cooperation	Human-orca	Orca (<i>Orcinus orca</i>)	Nunavut Inuit	Western Hudson Bay (Kangiqsualuk ilua), central Canada	Narwhal, Beluga, Bowhead (<i>Balaena mysticetus</i>), seals	Inactive	Not enough details to indicate there is coordination	(Westdal et al., 2017)
Potential mutualism	Human-honeyguide	Lesser honeyguide (<i>Indicator minor</i>)	Baka	Congo Basin	Honeybee (<i>Apis mellifera</i>)	Unknown	Not enough details available to confirm mutualism	(Brisson, 2010; Dounias, 2018)

Assessment	Human-wildlife interaction	Wild animal species	Human cultural group	Location	Prey species	Status and period	Notes	References
Potential mutualism	Human-honeyguide	Dwarf honeyguide (<i>Indicator pumilio</i>)	Batwa	South-western Uganda	Stingless bee species (probably meliponine)	Unknown	Not enough details available to confirm mutualism	(Kajobe & Roubik, 2007)
Potential mutualism	Human-honeyguide	Scaly-throated honeyguide (<i>Indicator variegatus</i>)	Unknown	Several places in South and East Africa	Honeybee (<i>Apis mellifera</i>)	Unknown	Not enough details available to confirm mutualism	(Friedmann, 1955; Ivy, 1901)
Potential mutualism	Human-wolf	Wolf (<i>Canis lupus</i>)	Diverse backgrounds	Several places in Europe	Ungulates	Inactive, c.a. 32,000 years ago (late Pleistocene)	Not enough details available to confirm mutualism	(Crockford & Kuzmin, 2012; Germonpré et al., 2009; Ovodov et al., 2011)
Potential mutualism	Human-wolf	Wolf (<i>Canis lupus</i>)	Ainu	Hokkaido, Japan	Sika deer (<i>Cervus nippon</i>)	Inactive, 18 th century	Not enough details available to confirm mutualism	(Walker, 2005)
Mutualism; no cooperation	Human-wolf	Wolf (<i>Canis lupus</i>)	Koyukon	Alaska	Ungulates	Potentially active	Possibly a mutualism, but not a cooperative one	(Nelson, 1983)
Potential mutualism	Human-corvid	Common ravens (<i>Corvus corax</i>)	Diverse backgrounds	North America, Europe and Arctic	Ungulates	Potentially active	Not enough details available to confirm mutualism	(Freuchen & Solomonsen, 1958; Heinrich, 1999)
Potential mutualism	Human-corvid	New Caledonian crows (<i>Corvus moneduloides</i>)	Kanak	New Caledonia	Longhorn beetle larvae (<i>Agrianome fairmairei</i>)	Potentially active	Not enough details available to confirm mutualism	(N.T.U., unpubl. data)

Table S3: Causes of decline and loss for active and inactive forms of human-wildlife cooperation, respectively. Text is reproduced from Fig. 2 in main text, here with associated references.

	Human-dolphin cooperation	Human-honeyguide cooperation	Human-orca cooperation	Human-wolf cooperation
Human partner	Alternative fisheries or sources of income, urban encroachment <i>(Campredon & Cuq, 2001; D’Lima et al., 2014; Ilha et al., 2020; Machado et al., 2019b; Peterson et al., 2008; Santos-Silva et al., 2022; Smith et al., 2009; Tun, 2004, 2014; Zappes et al., 2011)</i>	Changing livelihoods (incl. beekeeping), other sugar sources, displacement from national parks <i>(Dean et al., 1990; Gruber, 2018; Isack, 1999; Laltaika, 2021; van der Wal et al., 2022)</i>	Displacement by settlers, changing livelihoods <i>(Clode, 2002; Neil, 2002)</i>	Displacement and extermination by settlers <i>(Barsh & Marlor, 2003; Fogg et al., 2015; Marshall, 1995; Pierotti & Fogg, 2017; Standing Bear, 1978)</i>
Wildlife partner	Human-induced risk and mortality (bycatch, habitat degradation or loss, noise, pollution) <i>(Agrelo et al., 2019; Bezamat et al., 2021; Camargo et al., 2020; Campredon & Cuq, 2001; Daura-Jorge et al., 2013; Pellegrini et al., 2021; Righetti et al., 2019; Smith et al., 2009; Tun, 2004, 2014; Zappes et al., 2011)</i>	Potentially deforestation affecting certain host species <i>(C.N.S., unpubl. data)</i>	Injury or killing of orcas by humans <i>(Clode, 2002; Neil, 2002)</i>	Hunting of wolves by settlers <i>(Fogg et al., 2015; Standing Bear, 1978)</i>
Suitable environment	Industrial overfishing, pollution <i>(Agrelo et al., 2019; Camargo et al., 2020; de Abreu-Mota et al., 2018; Pellegrini et al., 2021; Righetti et al., 2019; Santos et al., 2018; Tun, 2004, 2014; Zappes et al., 2011)</i>	Droughts affecting bees, deforestation near urban areas <i>(Gruber, 2018; Gruber & Sanda, 2019; Laltaika, 2021; van der Wal et al., 2022)</i>	Hunting of whales and other prey <i>(Clode, 2002)</i>	Extermination of ungulates by settlers <i>(Fogg et al., 2015; Standing Bear, 1978)</i>
Compatible inter-species knowledge	Fewer interested youth, loss of skilled demonstrators in both species <i>(Catão & Barbosa, 2018; da Rosa et al., 2020)</i>	Fewer interested youth, loss of skilled demonstrators in both species <i>(Isack, 1999; Laltaika, 2021; van der Wal et al., 2022)</i>	Potential skilled demonstrators killed by outsiders <i>(Clode, 2002)</i>	Fear of humans in wolves, loss of opportunity for humans to learn skills <i>(Pierotti & Fogg, 2017)</i>

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