Supplementary Material

Table S1. List of reef species impacted by marine litter in the Mediterranean Sea. Records are reported for different MSFD subregions. Litter categories, as well as the impact described in the cited papers, are cited. WMS = Western Mediterranean Sea; ISCM = Ionian Sea & Central Mediterranean Sea; AS = Adriatic Sea; ALS = Aegean-Levantine Sea.

| **Species** | **MSFD subregion** | **Litter typology** | **Impact** | **Citation** |
| --- | --- | --- | --- | --- |
| Annelida |
| *Filograna implexa* | WMS | Fishing gear | Substratum | Cau et al., 2017 |
| *Sabella pavonina* | WMS | Fishing gear | Substratum | Lastras et al., 2016 |
| *Vermiliopsis spp.* | WMS | Fishing gear | Substratum | Lastras et al., 2016 |
| Arthropoda |
| *Geryon trispinosus* | WMS | Fishing gear | Ghost-fishing | Ramirez-Llodra et al., 2011 |
| *Maja squinado* | WMS | Fishing gear | Ghost-fishing | Houard et al., 2012 |
| *Munida* | WMS | Fishing gear | Behavioral | Pierdomenico et al., 2018 |
| *Munida rugosa* | WMS | Fishing gear | Ghost-fishing | Angiolillo & Canese, 2017 |
| *Pachylasma giganteum* | ISCM | Fishing gear | Entanglement | Consoli et al., 2020 |
| *Palinurus elephas* | WMS | Fishing gear | Ghost-fishing | Cau et al., 2017; Gili et al., 2014 |
| *Paromola cuvieri* | ISCM | Artificial polymer materials | Behavioral | Pierdomenico et al., 2019 |
| WMS | Artificial polymer materials | Behavioral | Angiolillo, 2019; Mecho et al., 2018; Taviani et al., 2017 |
|  | WMS | Metal | Behavioral | Angiolillo & Pisapia, 2015; Mecho et al., 2018; Taviani et al., 2017 |
| *Plesionika spp.* | ISCM | Undefined | Behavioral | Pierdomenico et al., 2019 |
| Chordata |
| *Anthias anthias* | WMS | Undefined | Behavioral | Angiolillo et al., 2015 |
| *Callanthias ruber* | WMS | Undefined | Behavioral | Angiolillo et al., 2015 |
| *Coelorinchus caelorhincus* | WMS | Artificial polymer materials | Behavioral | Pierdomenico et al., 2019 |
| *Conger conger* | WMS | Fishing gear | Ghost-fishing | Houard et al., 2012 |
| *Epinephelus aeneus* | ALS | Fishing gear | Ghost-fishing | Ayaz et al., 2010 |
| *Helicolenus dactylopterus* | ISCM | Artificial polymer materials | Behavioral | Pierdomenico et al., 2019 |
| WMS | Undefined | Behavioral | Angiolillo & Pisapia, 2015 |
| *Mobula mobular* | WMS | Fishing gear | Ghost-fishing | Houard et al., 2012 |
| *Mola mola* | WMS | Fishing gear | Ghost-fishing | Enrichetti et al., 2020 |
| *Muraena helena* | WMS | Undefined | Behavioral | Angiolillo et al., 2015 |
| *Scorpaena elongata* | WMS | Undefined | Behavioral | Angiolillo et al., 2015 |
| *Scorpaena notata* | WMS | Fishing gear | Ghost-fishing | Houard et al., 2012 |
| *Scorpaena porcus* | WMS | Fishing gear | Ghost-fishing | Houard et al., 2012 |
| *Scorpaena scrofa* | ALS | Fishing gear | Ghost-fishing | Ayaz et al., 2010 |
| WMS  | Fishing gear | Ghost-fishing | Houard et al., 2012 |
| Undefined | Behavioral | Angiolillo et al., 2015 |
| *Scyliorhinus spp.* | AS | Fishing gear | Ghost-fishing | Butterworth et al., 2012 |
| *Serranus scriba* | WMS | Fishing gear | Ghost-fishing | This paper |
| *Symphodus roissali* | AS | Fishing gear | Ghost-fishing | Moschino et al., 2019 |
| *Trachurus mediterraneus* | WMS  | Fishing gear; Undefined | Behavioral | Angiolillo & Pisapia, 2015 |
| Cnidaria |
| *Acanthogorgia hirsuta* | ISCM  | Glass/ceramics | Substratum | Pierdomenico et al., 2019 |
| Undefined | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Consoli et al., 2019 |
| Undefined | Entanglement | Cau et al., 2017 |
| Alcyonacea | WMS | Fishing gear | Entanglement/coverage | Bo et al., 2011 |
| *Alcyonium acaule* | WMS | Fishing gear | Substratum | Angiolillo et al., 2015 |
| *Alcyonium coralloides* | WMS | Fishing gear | Substratum | Angiolillo et al., 2015 |
| *Alcyonium palmatum* | WMS | Fishing gear | Substratum | Angiolillo et al., 2015 |
| *Antipathella subpinnata* | AS | Fishing gear | Entanglement; Incorporation; Substratum | Chimienti et al., 2020 |
| ISCM | Fishing gear | Substratum | Consoli et al., 2020 |
| Undefined | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Angiolillo et al., 2015 |
| Consoli et al., 2019 |
| Giusti et al., 2019 |
| Not defined | Giusti et al., 2019 |
| Undefined | Entanglement | Bo et al., 2014b; Cau et al., 2017 |
| *Antipathes dichotoma* | ISCM | Undefined | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Angiolillo et al., 2015; Bo et al., 2014b; Giusti et al., 2019 |
| Undefined | Entanglement | Cau et al., 2017 |
| *Astroides calycularis* | WMS | Fishing gear | Entanglement | Terrón-Sigler, 2015a |
| *Bebryce mollis* | ISCM | Undefined | Not defined | Consoli et al., 2020 |
| Undefined | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Angiolillo et al., 2015; Bo et al., 2012 |
| *Callogorgia verticillata* | ISCM | Fishing gear | Entanglement/coverage | Consoli et al., 2018 |
| WMS  | Fishing gear | Entanglement | Angiolillo et al., 2015; Bo et al., 2014c; Bo et al., 2015; Fabri et al., 2014 |
| Undefined | Entanglement | Bo et al., 2012; Bo et al., 2014b; Cau et al., 2017 |
| Ceriantharia | WMS | Fishing gear | Entanglement | Angiolillo et al., 2015 |
| *Chironephthya mediterranea* | WMS | Fishing gear | Entanglement | Angiolillo et al., 2015 |
| *Corallium rubrum* | ISCM | Fishing gear | Coverage | Cattaneo-Vietti et al., 2017 |
| Entanglement | Cattaneo-Vietti et al., 2017 |
| Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Coverage | Angiolillo et al., 2015 |
| Entanglement | Angiolillo & Canese, 2017; Angiolillo et al., 2015; Bavestrello et al., 2014; Consoli et al., 2019; Enrichetti et al., 2019; Giusti et al., 2019 |
| Undefined | Entanglement | Cau et al., 2017 |
| *Dendrophyllia cornigera* | WMS | Fishing gear | Entanglement | Angiolillo et al., 2015; Bo et al., 2014b; Giusti et al., 2019 |
| Incorporation | Angiolillo & Canese, 2017 |
| Not defined | Giusti et al., 2019 |
| Undefined | Entanglement | Cau et al., 2017 |
| *Dendrophyllia ramea* | ALS | Fishing gear | Entanglement | Orejas et al., 2019 |
| WMS | Fishing gear | Entanglement | Consoli et al., 2019; Terrón-Sigler, 2015b |
| *Desmophyllum dianthus* | WMS | Fishing gear | Substratum | Taviani et al., 2019 |
| *Desmophyllum pertusum* | ISCM | Undefined | Entanglement | D’Onghia et al., 2017 |
| WMS | Fishing gear | Incorporation | Aymà et al., 2019 |
| Substratum | Fabri et al., 2014 |
| Artificial polymer materials | Entanglement | Fabri et al., 2014 |
| *Ellisella paraplexauroides* | WMS | Fishing gear | Entanglement | Maldonado et al., 2013 |
| *Eunicella cavolini* | AS | Fishing gear | Entanglement | Sini et al., 2015 |
| ALS | Fishing gear | Entanglement | Salomidi et al., 2009; Sini et al., 2015 |
| ISCM | Fishing gear | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Coverage | Angiolillo et al., 2015; Angiolillo, 2019 |
| Entanglement | Angiolillo et al., 2015; Angiolillo, 2019; Betti et al., 2020a; Bo et al., 2012; Bo et al., 2014a; Bo et al., 2014b; Cánovas-Molina et al., 2016; Giusti et al., 2019; Sbrescia et al., 2005 |
| Entanglement/coverage | Consoli et al., 2019 |
| Substratum | Angiolillo et al., 2015 |
| Undefined | Substratum | Angiolillo et al., 2015 |
| Undefined | Entanglement | Cau et al., 2017 |
| *Eunicella singularis* | ISCM | Undefined | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Consoli et al., 2019; Sbrescia et al., 2005 |
| *Eunicella verrucosa* | ISCM | Undefined | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Angiolillo et al., 2015; Chimienti et al., 2020; Consoli et al., 2019; Enrichetti et al., 2020; Giusti et al., 2019 |
| Not defined | Giusti et al., 2019 |
| *Leiopathes glaberrima* | ISCM | Fishing gear | Entanglement | Consoli et al., 2020; Deidun et al., 2015 |
| Artificial polymer materials | Entanglement | Deidun et al., 2015 |
| Undefined | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Angiolillo et al., 2015; Bo et al., 2014b; Bo et al., 2014c; Bo et al., 2015 |
| Not defined | Giusti et al., 2019 |
| Undefined | Entanglement | Cau et al., 2017 |
| *Leptogorgia sarmentosa* | WMS | Fishing gear | Not defined | Giusti et al., 2019 |
| *Madrepora oculata* | AS | Fishing gear | Substratum | Angeletti et al., 2013 |
| ISCM | Fishing gear | Coverage | Savini et al., 2014 |
| Entanglement | Savini et al., 2014 |
| Artificial polymer materials | Coverage | Freiwald et al., 2009; Prampolini et al., 2019; Savini et al., 2014 |
| Incorporation | Savini et al., 2014 |
| Undefined | Entanglement | D’Onghia et al., 2017 |
| WMS | Fishing gear | Entanglement | Fabri et al., 2014; Fanelli et al., 2017; Lastras et al., 2016; Madurell et al., 2012; Moccia et al., 2019; Orejas et al., 2009 |
| Substratum | Lastras et al., 2016; Taviani et al., 2019 |
| Chemicals | Coverage | Fabri et al., 2019 |
| Artificial polymer materials | Coverage | Taviani et al., 2017 |
| Entanglement | Moccia et al., 2019; Taviani et al., 2017 |
| Metal | Substratum | Fanelli et al., 2017 |
| Undefined | Entanglement | Cau et al., 2017 |
| *Paramuricea clavata* | AS | Fishing gear | Entanglement | Chimienti et al., 2020; Kipson et al., 2015 |
| ISCM | Fishing gear | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Coverage | Angiolillo et al., 2015; Enrichetti et al., 2019; Enrichetti et al., 2020 |
| Entanglement | Angiolillo et al., 2015; Bavestrello et al., 1997; Betti et al., 2020b; Bo et al., 2012; Bo et al., 2014b; Consoli et al., 2019; Giusti et al., 2019; Harmelin & Marinopoulos, 1994; Houard et al., 2012 |
| Not defined | Giusti et al., 2019 |
| Substratum | Angiolillo et al., 2015 |
| Metal | Entanglement | Enrichetti et al., 2019 |
| Undefined | Substratum | Angiolillo et al., 2015 |
| Entanglement | Cau et al., 2017 |
| *Paramuricea macrospina* | ISCM | Undefined | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Angiolillo et al., 2015 |
| Substratum | Angiolillo et al., 2015 |
| *Parantipathes spp.* | WMS | Undefined | Entanglement | Bo et al., 2020 |
| *Parantipathes larix* | ISCM | Undefined | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Bo et al., 2014a |
| Undefined | Entanglement | Cau et al., 2017 |
| *Savalia savaglia* | ISCM | Fishing gear | Entanglement/coverage | Consoli et al., 2018 |
| WMS | Fishing gear | Entanglement | Angiolillo et al., 2015 |
| *Swiftia dubia* | ISCM | Artificial polymer materials | Entanglement | Pierdomenico et al., 2019 |
| *Viminella flagellum* | ISCM | Fishing gear | Entanglement/coverage | Consoli et al., 2018 |
| Undefined | Not defined | Consoli et al., 2020 |
| WMS | Fishing gear | Entanglement | Angiolillo et al., 2014; Angiolillo et al., 2015 |
| Undefined | Entanglement | Cau et al., 2017 |
| Echinodermata |
| *Astrospartus mediterraneus* | WMS | Fishing gear | Substratum | Angiolillo et al., 2015 |
| Cidaridae | WMS | Fishing gear | Substratum | Angiolillo et al., 2015; Angiolillo, 2019 |
| *Cidaris cidaris* | ISCM | Artificial polymer materials | Entanglement | Pierdomenico et al., 2019 |
| *Gracilechinus acutus* | WMS | Artificial polymer materials | Substratum | Lastras et al., 2016 |
| *Ophiothrix spp.* | WMS | Fishing gear | Substratum | Lastras et al., 2016 |
| Mollusca |
| *Neopycnodonte cochlear* | WMS | Fishing gear | Substratum | Fabri et al., 2014; Lastras et al., 2016 |
| *Sepia officinalis* | ALS | Fishing gear | Ghost-fishing | Ayaz et al., 2010 |
| Porifera |
| *Aplysina cavernicola* | WMS | Fishing gear | Entanglement | Angiolillo et al., 2015 |
| *Geodia cydonium* | AS | Fishing gear | Coverage | Melli et al., 2017 |
| *Haliclona (Reniera) spp.* | WMS | Fishing gear | Substratum | Lastras et al., 2016 |
| *Leiodermatium pfeifferae* | WMS | Fishing gear | Entanglement | Maldonado et al., 2015 |
| *Pachastrella monilifera* | WMS | Fishing gear | Entanglement | Angiolillo, 2019 |
| *Poecillastra compressa* | WMS | Fishing gear | Entanglement | Angiolillo et al., 2015; Angiolillo, 2019 |
| *Raspailia (Raspailia) viminalis* | ISCM | Undefined | Entanglement | Consoli et al., 2018 |

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