Table S5. List of species observed in association with the Azores kelps by phylum and detection method (V - video; S - SCUBA diving; B – longline by-catch)

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| --- | --- | --- | --- | --- |
| TAXA | METHOD | FOR | SMA | GRA |
| Rhodophyta (n=10) |  |  |  |  |
| Non-geniculate Corallinales | V, S, B | X | X | X |
| Delesseriaceae | B | X |  |  |
| *Hildenbrandia rubra* (Sommerfelt) Meneghini, 1841 | V | X | X | X |
| *Hypoglossum hypoglossoides* (Stackhouse) Collins & Hervey 1917 | B | X |  |  |
| *Mesophyllum lichenoides* (J.Ellis) Me.Lemoine, 1928 | V, B | X | X |  |
| *Peyssonelia rubra* (Greville) J.Agardh, 1851 | S | X | X | X |
| *Platoma* sp.(Montagne) F.Schmitz, 1894 | V, S | X |  | X |
| *Sphaerococcus coronopifolius* Stackhouse, 1797 | V, S | X | X | X |
| Ceramiaceae | B | X |  |  |
| *Polysiphonia* sp. Greville, 1823 | B | X |  |  |
| Chlorophyta (n=2) |  |  |  |  |
| Ulvaceae | V | X |  |  |
| *Valonia* sp. C.Agardh, 1823 | S |  |  | X |
| Ochrophyta (n=11) |  |  |  |  |
| *Carpomitra costata* (Stackhouse) Batters, 1902 | V, S | X |  | X |
| *Treptacantha abies-marina* (S.G.Gmelin) Kützing, 1843 | V, S | X |  | X |
| *Sporochnus pedunculatus* (Hudson) C.Agardh, 1817 |  | X |  |  |
| *Cutleria multifida (*Aglaozonia phase) (Turner) Greville, 1830 | V | X |  |  |
| *Dictyota dichotoma* (Hudson) J.V.Lamouroux, 1809 | S |  |  | X |
| *Halopteris filicina* (Grateloup) Kützing, 1843 | V, S, B | X |  | X |
| *Laminaria ochroleuca* Bachelot de la Pylaie, 1824 | V, S, B | X | X | X |
| *Dictyopteris polypodioides* (A.P.De Candolle) J.V.Lamouroux, 1809 | V, S | X | X | X |
| *Phyllariopsis* sp. E.C.Henry & G.R.South, 1987 | V | X | X | X |
| *Sargassum* sp. C.Agardh, 1820 | S |  |  | X |
| *Zonaria tournefortii* (J.V.Lamouroux) Montagne, 1846 | V, S |  | X | X |
| Protista (n=1) |  |  |  |  |
| *Miniacina miniacea* (Pallas, 1766) | B | X |  |  |
| Porifera (n=2) |  |  |  |  |
| Irciniidae | V | X | X |  |
| *Sycon* sp. Risso, 1827 | B | X |  |  |
| Cnidaria (n=7) |  |  |  |  |
| *Aglaophenia* sp. Lamouroux, 1812 | V, S | X |  | X |
| *Diphasia* sp. Agassiz, 1862 | V | X | X |  |
| *Obelia* cf. *geniculata* (Linnaeus, 1758) | V, B | X |  |  |
| *Antipathella wollastoni* (Gray, 1857) | V | X | X |  |
| *Antipathella subpinnata* (Ellis & Solander, 1786) | V | X |  |  |
| *Caryophyllia* sp. Lamarck, 1801 | S |  |  | X |
| *Dendrophyllia* sp. de Blainville, 1830 | V | X |  |  |
| Mollusca (n=4) |  |  |  |  |
| *Berthellina engeli* Gardiner, 1936 |  |  |  | X |
| *Calliostoma lividum* Dautzenberg, 1927 | V | X |  |  |
| *Gregariella semigranata* (Reeve, 1858) | B | X |  |  |
| Gryphaeidae/Chamidae | V | X | X | X |
| Annelida (n=3) |  |  |  |  |
| Hermodice carunculata (Pallas, 1766) | S | X |  | X |
| *Sabella spallanzanii* (Gmelin, 1791) | S |  | X | X |
| Serpulidae | B | X |  |  |
| Bryozoa (n=3) |  |  |  |  |
| Lichenoporidae | B | X |  |  |
| *Membranipora membranacea* (Linnaeus, 1767) | V | X | X |  |
| *Sertella beaniana* (King, 1846) | B | X | X | X |
| Echinodermata (n=4) |  |  |  |  |
| *Centrostephanus longispinus* (Philippi, 1845) | V | X | X | X |
| *Echinus melo* Lamarck, 1816 | V | X |  |  |
| Asteroidea | V | X |  | X |
| *Chaetaster longipes* (Bruzelius, 1805) | V | X | X |  |
| Chordata (Tunicata) (n=2) |  |  |  |  |
| *Clavelina lepadiformis* (Müller, 1776) | S |  |  | X |
| *Synoicum incrustatum* (Sars, 1851) | B | X |  |  |
| Chordata (Pisces) (n=14) |  |  |  |  |
| *Anthias anthias* (Linnaeus, 1758) | V | X |  |  |
| *Bodianus scrofa* (Valenciennes, 1839) | V | X |  |  |
| *Boops boops* (Linnaeus, 1758) | V | X |  |  |
| *Chromis limbata* (Valenciennes, 1833) | V | X |  |  |
| *Coris julis* (Linnaeus, 1758) | V, S | X |  |  |
| *Diplodus vulgaris* (Geoffroy Saint-Hilaire, 1817) | V, S |  |  | X |
| *Kyphosus* sp. Lacepède, 1801 | V | X |  |  |
| *Labrus bergylta* Ascanius, 1767 | V |  |  | X |
| *Scorpaena scrofa* Linnaeus, 1758 | V | X |  |  |
| *Serranus atricauda* Günther, 1874 | V, S | X |  |  |
| *Sphoeroides marmoratus* (Lowe, 1838) | V | X |  |  |
| *Symphodus caeruleus* (Azevedo, 1999) | V | X |  |  |
| *Thalassoma pavo* (Linnaeus, 1758) | V, S |  |  | X |
| *Zeus faber* Linnaeus, 1758 | V | X |  |  |
| **Total:** | **63 species** |  |  |  |