Seawater acidification affects beta-diversity of benthic communities at a shallow hydrothermal vent in a Mediterranean Marine Protected Area (Underwater Archaeological Park of Baia, Naples, Italy).

L.Appolloni1,2, D.Zeppilli3, L.Donnarumma1,2*, E.Baldrighi3,4, E. Chianese1, G.F.Russo1,2, R. Sandulli1,2

Supp. A

| Mollusca |
|-----------------|-----------------|-----------------|
| Alvania cancellata (da Costa, 1778) | Philine sp. | Dosinia exoleta (Linnaeus, 1758) |
| Alvania lineata Risso, 1826 | Rissia splendida Eichwald, 1830 | Flexopecten hyalinus (Poli, 1795) |
| Alvania discors (Allan, 1818) | Tectura virginea (O. F. Müller, 1776) | Gari costulata (W. Turton, 1822) |
| Alvania pogodula (Bucquoy, Dautzenberg & Dollfus, 1884) | Tritia cuyerii (Payraudeau, 1826) | Gari tellinella (Lamarck, 1818) |
| Aplysia parvula Mörch, 1863 | Tritia incrassata (Strom, 1768) | Glans trapezia (Linnaeus, 1767) |
| Ascotholoe fragilis (Jeffreys, 1856) | Psia savigyi (Payraudeau, 1826) | Gregariella semigranata (Reeve, 1858) |
| Bela nebula (Montagu, 1803) | Psia tricolor (Gmelin, 1791) | Gouldia minus (Montagu, 1803) |
| Bittium latreilli (Payraudeau, 1826) | Vitreolina sp. | Hiatella arctica (Linnaeus, 1767) |
| Bolma rugosa (Linnaeus, 1767) | Weinkauffia turgridula (Forbes, 1844) | Kuriella bidentata (Montagu, 1803) |
| Bulla striata Bruguière, 1792 | Williamia gussoni (Costa O. G., 1829) | Laevicardium crassum (Gmelin, 1791) |
| Caecum auriculatum de Folin, 1688 | Arca noae Linnaeus, 1758 | Limaria tuberculata (Oliv, 1792) |
| Caecum sp. | Ashbornsenia pygmaea (Lovén, 1846) | Loripinus fragilis (Philippi, 1836) |
| Cacum glabrum (Montagu, 1803) | Centrocardita akabana (Sturany, 1899) | Lucinella diversicata (Linnaeus, 1758) |
| Caecum trachea (Montagu, 1803) | Centrocardita aculeata (Poli, 1795) | Modiolus phaseolus (Philippi, 1844) |
| Calyptraea chinensis (Linnaeus, 1758) | Ctena decussata (O. G. Costa, 1829) | Moerella donacina (Linnaeus, 1758) |
| Cerithium vulgarum Bruguière, 1792 | Gibbula sp. | Musculus costolatus (Risso, 1826) |
| Chrysallida indistincta (Henn & Brazier, 1894) | Haminoea cf. hydatis (Linnaeus, 1758) | Musculus subpictus (Cantrenne, 1835) |
| Eulimella sp. | Hexaplex trunculus (Linnaeus, 1758) | Mytilidae indet. J. |
| Euspira nitida (Donovan, 1804) | Mangelia costulata Risso, 1826 | Peronidia albicans (Gmelin, 1791) |
| Fusinus sp. | Mangelia scabra Monterosato, 1890 | Politapes aureus (Gmelin, 1791) |
| Gibbula ardens (Salis Marschlini, 1793) | Manzonia crass (Kunmacher, 1798) | Papillocardium papillosum (Poli, 1791) |
| Gibbula funulium (Gmelin, 1791) | Odostomia sp. | Roccellaria dubia (Pennant, 1777) |
| Gibbula guttata (Philippi, 1836) | Ondina vitrea (Brusina, 1866) | Stiriaria lactea (Linnaeus, 1758) |
| Thracia villosiscula (MacGillivray, 1827) |
| Cardites antiquatus (Linnaeus, 1758) |
| Veneridae indet. |
| Venus verrucosa Linnaeus, 1758 |
| Acanthochitona crinita (Pennant, 1777) |
| Acanthochitona fuscus (Linnaeus, 1767) |
| Callochiton septemvalvis (Montagu, 1803) |
| Lepidochiton sp. |
| Leptochiton scabridus (Jeffreys, 1880) |
| Chitonidae indet. J. |
### Polyochaeta

| Genus and Species                                                                 | Author and Year |
|-----------------------------------------------------------------------------------|-----------------|
| Amphitrite auricoma (O.F. Müller, 1776)                                             |                 |
| Aphonochaeta marioni (Saint-Joseph, 1894)                                           |                 |
| Aphonochaeta multibranchis (Grube, 1863)                                           |                 |
| Aphrodita aculeata Linneaus, 1758                                                   |                 |
| Aphonupsis bilineata (Baird, 1870)                                                 |                 |
| Chrysoptila cautica Claparède, 1870                                                |                 |
| Diplocirrus glaucus (Malmgren, 1867)                                               |                 |
| Drilonereis filum (Claparède, 1868)                                                |                 |
| Eteone longa (Fabricius, 1780)                                                     |                 |
| Euclymene oerstedi (Claparède, 1863)                                               |                 |
| Eulalia sp.                                                                         |                 |
| Eunice vittata (Delle Chiaje, 1828)                                                |                 |
| Exogone sp.                                                                         |                 |
| Glycerina unicornis Lamarck, 1818                                                   |                 |
| Harmothoe longiseta (Grube, 1863)                                                  |                 |
| Hesionidae indet.                                                                   |                 |
| Hydrocides diatus (Verrill, 1873)                                                   |                 |
| Hydrocides uncinata (Phillipi, 1844)                                               |                 |
| Laonice cirata (M. Sars, 1851)                                                     |                 |
| Lepidonotus clava (Montagu, 1808)                                                   |                 |
| Levinsenia gracilis (Tauber, 1879)                                                 |                 |
| Lumbrineris lateriili Audouin & Milne-Edwards, 1834                                |                 |
| Lysidice unicornis (Grube, 1840)                                                   |                 |
| Malangrenia andreapolis McIntosh, 1874                                             |                 |
| Mystia pica (Quatrefales, 1866)                                                     |                 |
| Nereis rava Ehlers, 1868                                                           |                 |
| Notomastus latericeps Sars, 1851                                                   |                 |
| Owenia fusiformis Delle Chiaje, 1844                                                |                 |
| Crustacea                                                                 |
|--------------------------------------------------------------------------|
| *Alpheus glaber* (Olivi, 1792)                                           |
| *Anapagurus bicorniger* (A. Milne-Edwards & Bouvier, 1892)               |
| *Athanas nitescens* (Leach, 1813)                                        |
| *Clibanarius erythropus* (Latreille, 1818)                               |
| *Ebalia deshayesi* Lucas, 1846                                           |
| *Eriphia verrucosa* (Forskål, 1775)                                      |
| *Galathea sp.*                                                           |
| *Lysmata seticaudata* (Risso, 1816)                                      |
| *Necallianassa truncata* (Giard & Bonnier, 1890)                         |
| *Paguristes eremita* (Linnaeus, 1767)                                    |
| *Pagurus cuanensis* Bell, 1844                                           |
| *Pisa armata* (Latreille, 1803)                                          |
| *Processa macrophthalma* Nouvel & Holthuis, 1957                         |
| *Sirpus zariqueyi* Gordon, 1953                                          |
| *Synalpheus gambareloides* (Nardo, 1847)                                 |
| *Upogebia stellata* (Montagu, 1808)                                      |
| *Xantho pilipes* A. Milne-Edwards, 1867                                  |
| **Anthuridae**                                                           |
| *Cymodoce truncata* Leach, 1814                                          |
| *Kupellonura mediterranea* Barnard, 1925                                 |
| *Chondrochelia savignyi* (Kroyer, 1842)                                  |
| *Ampithoe ramondi* Audouin, 1826                                          |
| *Apherusa chiereghinii* Giordani-Soika, 1949                             |
| **Caprellidae**                                                          |
| *Dexamine spinosa* (Montagu, 1813)                                       |
| *Gammarus sp.*                                                           |
| *Microdeutopus anomalus* (Rathke, 1843)                                  |
| *Microdeutopus* spp.                                                     |
| *Pereionotus testudo* (Montagu, 1808)                                    |
| *Pseudolirius kroyeri* (Haller, 1897)                                    |
| Nematoda taxa                        | Acantholaimus sp1 | Cyartonema sp1 | Graphonema sp2 | Neotrichonchus sp1 | Prochaetosoma sp1 | Syringolaimus sp1 |
|-------------------------------------|-------------------|----------------|----------------|-------------------|------------------|------------------|
| Acanthonechus sp1                   | Cyartonematidae   | Halalaimus sp1 | Odantantica sp1 | Prochromadora sp1 | Terschellingia sp1 |
| Acanthopharyngoides sp1             | Cyatholaimidae    | Halichoanoaimus sp1 | Odontophora sp1 | Prochromadorella sp1 | Thalassiosoma sp1 |
| Acanthopharynx sp1                  | Cyatholaimus sp1  | Innoucenoma sp2 | Oncholaimidae   | Promonhystera sp1 | Thalassomonhystera sp1 |
| Actionema sp1                       | Daptonema sp1     | Innoucenoma sp2 | Oncholaimus sp1 | Psiloneema sp1    | Theristus sp1    |
| Actionema sp2                       | Desmodora sp1     | Laimella sp1   | Oncholaimus/Metperoncholaimus sp1 | Pseudochromadora sp1 | Thoracostoma sp1 |
| Aegialolaimidae                     | Desmodora sp2     | Latronema/Chironchus | Onyx sp1 | Pseudodesmodora sp1 | Tricoma sp1    |
| Akantheoponcholaimus sp1            | Desmodora sp3     | Leptepisonema sp1 | Paracanthonchus sp1 | Pterygonema sp1 | Viscosia sp1 |
| Ammonitrus sp1                      | Desmodorella sp1  | Leptolaimus sp1 | Parachromadora sp1 | Quadricona sp1 | Wieseria sp1 |
| Antica sp1                          | Desmosoridiae     | Leptonemella sp1 | Paracromosa sp1 | Retrochistus sp1 | Xyalidae |
| Antinominum sp1                     | Desmoscolex sp1   | Linhomoidea sp1 | Paracymathalaimoides sp1 | Rhadinematidae |   |
| Apenoanconema sp1                    | Dichromadora sp1  | Linhomoeus sp1 | Paracymatholaimus sp1 | Rhinema sp1 |   |
| Aaeolomimus sp1                     | Diplopeteloides sp1 | Linhystera sp2 | Paradesmodora sp1 | Rhips sp1 |   |
| Acantholaimus sp1                   | Diploeluta sp1    | Linhystera sp1 | Paradacromona sp1 | Rhynchosoma sp1 |   |
| Bathyeurotyominia sp1               | Dolicholaimus sp1 | Longicyatholaimus sp1 | Parallelhomoeus sp1 | Richtersia sp1 |   |
| Cammonolaimus sp1                   | Dracomena sp1     | Marylania sp1 | Parahlongicyatholaimus sp1 | Sabatieria sp1 |   |
| Cephalantiscia sp1                  | Dracomena/Paradacromona sp1 | Megadesolaimus sp1 | Paramesacanthion sp1 | Scaptelea sp1   |   |
| Cheironchus sp1                      | Dracomenatidae    | Metachromadora sp1 | Paramesonchion sp1 | Southernilla sp1 |   |
| Chromadora sp1                      | Dracograllus sp1  | Metachromadoraoides sp1 | Paramicrolaimus sp1 | Sphaerolaimus sp1 |   |
| Chromodorella sp1                   | Elsazia sp1       | Metacomesoma sp1 | Parahmonhystera sp1 | Spiliphera sp1 |   |
| Chromodoridae                       | Endeciphlos sp2    | Metacyatholaimus sp1 | Parastomonema sp1 | Spilophorella sp1 |   |
| Chromodorina sp1                    | Endecophos sp1    | Metalinhomeus sp1 | Persipolaimonema sp1 | Spiritina sp2 |   |
| Chromodorita sp1                    | Enoploides sp1    | Metepisonema sp1 | Perspira sp1    | Spiritina sp1 |   |
| Chromodorita/Innocouenoma sp1       | Enoploaimus sp1   | Metenololaimus sp1 | Phanoderma sp1 | Squanema sp1 (stilbonematinae) |   |
| Chromospirina sp1                   | Epilolaimus sp1   | Micrololaimus sp1 | Phanodermopsis sp1 | Stephanolaimus sp1 |   |
| Coenia sp1                          | Epilolaimus/Persipolaimonema sp1 | Minololaimus sp1 | Pierickia sp1 | Stilbonematinae |   |
| Cormesma sp1                        | Epilolaimatidae   | Molololaimus sp1 | Polygastrophera sp1 | Sygyadesmodora sp1 |   |
| Comosoma sp1                        | Eubotrichus sp1   | Monhysteridae   | Polysigma sp1   | Subsphaerolaimus sp1 |   |
| Comosamidae                         | Euchromadora sp1  | Monoposthia sp1 | Pomponema sp1   | Syngmophoranema sp1 |   |
| Craspedosema sp1                    | Gammanema sp1     | Nanololaimoides sp1 | Praeacanthonchus sp1 | Synodontum sp1 |   |
| Crenopharynx sp1                    | Graphonema sp1    | Neochromadora sp1 | Procaramolaimus sp1 | Synonchium sp1 |   |