

## Supplementary Material

## Supplementary Results

### Supplementary Results 1: Comparison of bivalves to gastropods

Of the 196 taxa recovered, most were gastropods (107, 54.6%) or bivalves (84, 42.9%). More bivalves (78/84 taxa, 92.9%) than gastropods (63/107 taxa, 58.9%) could be identified to the species level (two-sample test for equality of proportions:  $\chi^2_1=26.4$ ,  $P<0.0001$ ).

Despite similar numbers of gastropod and bivalve taxa, bivalves constituted the vast majority of individuals (80.9%), distantly followed by gastropods (18.9%). Similarly, more bivalve than gastropod individuals were found alive (8.2% vs. 2.3%, two-sample test for equality of proportions:  $\chi^2_1=344.3$ ,  $P<0.0001$ ). Accordingly, the proportion of bivalve taxa that were found alive (26/84, 31.0%) was higher than that detected for gastropods (14/107, 13.1%, two-sample test for equality of proportions:  $\chi^2_1=8.0$ ,  $P=0.0046$ ).

The relative proportion of allochthonous taxa was higher for gastropods (54.7%) than for bivalves (36.9%, two-sample test for equality of proportions with continuity correction:  $\chi^2_1=5.3$ ,  $P=0.022$ ). An analysis of the living community indicates that four taxa classified as allochthonous based on habitat data were recovered alive, three bivalves (*Ctena decussata*, *Musculus costulatus*, *Mytilaster solidus*) and one gastropod (*Jujubinus exasperatus*). These taxa were classified as indigenous in subsequent analyses, resulting in 53.8% allochthonous taxa among gastropods and 33.3% among bivalves (two-sample test for equality of proportions with continuity correction:  $\chi^2_1=7.1$ ,  $P=0.008$ ).

## **Supplementary Results 2: Interannual variability**

Both taxa richness and abundance were higher in 2009 than in 2008 at all four sites sampled in consecutive years (PC, Fe, CS and So). In 2008,  $52 \pm 12$  taxa (mean  $\pm$  SE) were found per census, while in 2009 taxa richness had almost doubled to  $95 \pm 12$  taxa per census ( $b=42.8$ ,  $P=0.005$ ). This increase was significant both within living ( $b=10.3$ ,  $P=0.021$ ) and dead taxa ( $b=43.0$ ,  $P=0.006$ ). At the same time, total abundances had tripled between the two years, from  $825 \pm 283$  individuals per census in 2008 to  $2708 \pm 448$  individuals per census in 2009 ( $b=1883.0$ ,  $P=0.026$ ). This is mostly due to an increase in the number of dead individuals ( $b=1716.0$ ,  $P=0.030$ ), as the number of living individuals did not change significantly over time ( $b=167.0$ ,  $P=0.106$ ). As the identity of all 2008 specimens from the dead record was reconfirmed after the completion of the 2009 survey (see methods), identification bias cannot explain this difference. Despite substantial differences in taxa richness and abundance, almost all measures analyzing live-dead agreement in terms of preservation potential, rank abundance, and taxa richness were consistent across the two sampling years (see Supplementary Table 7), the only exception being a slight tendency for higher values of Spearman's rho after excluding allochthonous taxa in 2009 compared to 2008 ( $b=0.12$ ,  $P=0.047$ , Supplementary Table 7).

## **Supplementary Results 3: Short-term within-season variability**

Study sites showed considerable variability across years (see Supplementary Results 2), and short-term fluctuations might be expected to influence inferences on live-dead fauna agreement. We therefore compared replicate censuses to random census pairs, and found that replicate censuses were not significantly more similar to each other than expected by chance (Supplementary Table 8). Taxa richness, abundance, and measures of live-dead agreement all

43 showed significant short-term variability. Even though we cannot exclude that divergence  
44 between replicate censuses was in part caused by fine-scale spatial differences (replicate censuses  
45 were collected at a distance of about 200 m), these results demonstrate that variability in living  
46 and dead communities can be substantial even across very short timespans.

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## Supplementary Tables

### Supplementary Table 1

Ratio of the number of dead to living taxa using rarefied data standardized for the number of living individuals present in a census, and difference in the logarithm of rarefied taxa number ( $\Delta S$ ), computed using the minimum, corrected, and maximum number of bivalve individuals (Gilinsky & Bennington, 1994). The ratio of the number of dead to living taxa using raw data is insensitive to assumptions concerning bivalve sampling.  $\Delta S = \log(\text{rarefied number of dead taxa}) - \log(\text{number of living taxa})$  (Olszewski & Kidwell, 2007). Mean values of 2009 censuses only include GPS coordinates already sampled in 2008 (marked with an asterisk), while mean values across all censuses (n=12) are shown for comparison.

| Census   | Ratio of dead to living taxa number<br>(rarefied data) |           |         | Difference in log of rarefied taxa number<br>( $\Delta S$ ) |           |         |
|----------|--------------------------------------------------------|-----------|---------|-------------------------------------------------------------|-----------|---------|
|          | minimum                                                | corrected | maximum | minimum                                                     | corrected | maximum |
| CS08     | 3.2                                                    | 3.1       | 3.0     | 1.16                                                        | 1.13      | 1.11    |
| CS09*    | 2.7                                                    | 2.6       | 2.6     | 0.99                                                        | 0.96      | 0.94    |
| Fe08     | 2.9                                                    | 2.8       | 2.8     | 1.07                                                        | 1.04      | 1.02    |
| Fe09a*   | 2.0                                                    | 1.9       | 1.9     | 0.68                                                        | 0.64      | 0.62    |
| Fe09b    | 1.7                                                    | 1.7       | 1.7     | 0.55                                                        | 0.53      | 0.52    |
| Ge09     | 3.6                                                    | 3.5       | 3.4     | 1.29                                                        | 1.26      | 1.24    |
| PC08     | 2.9                                                    | 2.8       | 2.7     | 1.06                                                        | 1.02      | 1.00    |
| PC09a*   | 1.8                                                    | 1.7       | 1.7     | 0.57                                                        | 0.55      | 0.53    |
| PC09b    | 2.5                                                    | 2.4       | 2.4     | 0.91                                                        | 0.89      | 0.88    |
| So08     | 2.3                                                    | 2.2       | 2.1     | 0.82                                                        | 0.79      | 0.76    |
| So09*    | 2.8                                                    | 2.6       | 2.5     | 1.01                                                        | 0.96      | 0.93    |
| To09     | 1.6                                                    | 1.5       | 1.5     | 0.47                                                        | 0.43      | 0.41    |
| Mean 08  | 2.8                                                    | 2.7       | 2.7     | 1.03                                                        | 1.00      | 0.97    |
| Mean 09  | 2.3                                                    | 2.2       | 2.2     | 0.81                                                        | 0.78      | 0.76    |
| Mean all | 2.5                                                    | 2.4       | 2.4     | 0.88                                                        | 0.85      | 0.83    |

## Supplementary Table 2

Proportion of dead individuals belonging to taxa sampled alive, computed separately for datasets including all taxa and only indigenous taxa, and using the minimum, corrected, and maximum number of bivalve individuals (Gilinsky & Bennington, 1994). The proportion of dead taxa found alive and the proportion of living taxa found dead are insensitive to assumptions concerning bivalve sampling. Mean values of 2009 censuses only include GPS coordinates already sampled in 2008 (marked with an asterisk), while mean values across all censuses (n=12) are shown for comparison.

| Census   | Proportion of dead individuals belonging to taxa found alive (all taxa) |           |         | Proportion of dead individuals belonging to taxa found alive (only indigenous taxa) |           |         |
|----------|-------------------------------------------------------------------------|-----------|---------|-------------------------------------------------------------------------------------|-----------|---------|
|          | minimum                                                                 | corrected | maximum | minimum                                                                             | corrected | maximum |
| CS08     | 49.0%                                                                   | 51.3%     | 52.3%   | 55.2%                                                                               | 57.2%     | 58.0%   |
| CS09*    | 44.0%                                                                   | 46.5%     | 47.5%   | 48.9%                                                                               | 51.2%     | 52.2%   |
| Fe08     | 55.2%                                                                   | 56.9%     | 57.6%   | 57.7%                                                                               | 59.3%     | 59.9%   |
| Fe09a*   | 56.6%                                                                   | 59.3%     | 60.5%   | 62.5%                                                                               | 64.7%     | 65.7%   |
| Fe09b    | 59.0%                                                                   | 62.0%     | 63.2%   | 64.6%                                                                               | 67.3%     | 68.4%   |
| Ge09     | 74.5%                                                                   | 76.5%     | 77.5%   | 83.1%                                                                               | 84.4%     | 85.0%   |
| PC08     | 48.4%                                                                   | 48.9%     | 49.7%   | 51.5%                                                                               | 51.7%     | 52.6%   |
| PC09a*   | 49.6%                                                                   | 52.5%     | 53.8%   | 68.4%                                                                               | 69.4%     | 69.8%   |
| PC09b    | 44.2%                                                                   | 46.8%     | 47.9%   | 60.7%                                                                               | 61.6%     | 61.9%   |
| So08     | 62.8%                                                                   | 63.7%     | 64.6%   | 67.9%                                                                               | 68.3%     | 68.9%   |
| So09*    | 84.1%                                                                   | 85.0%     | 85.4%   | 89.1%                                                                               | 89.5%     | 89.7%   |
| To09     | 67.0%                                                                   | 67.9%     | 68.3%   | 69.4%                                                                               | 70.1%     | 70.4%   |
| Mean 08  | 53.9%                                                                   | 55.2%     | 56.0%   | 58.1%                                                                               | 59.1%     | 59.9%   |
| Mean 09  | 58.6%                                                                   | 60.8%     | 61.8%   | 67.2%                                                                               | 68.7%     | 69.3%   |
| Mean all | 57.9%                                                                   | 59.8%     | 60.7%   | 64.9%                                                                               | 66.2%     | 66.9%   |

69 **Supplementary Table 3**

70 Rank-order agreement between a taxon's living and dead abundance (Spearman's rho), computed separately for datasets including all  
 71 taxa, indigenous taxa only, and for those taxa recovered alive, using the minimum, corrected, and maximum number of bivalve  
 72 individuals (Gilinsky & Bennington, 1994). Significant rho values ( $P < 0.05$ ) are shown in bold. Mean values of 2009 censuses only  
 73 include GPS coordinates already sampled in 2008 (marked with an asterisk). Mean values across all censuses (n=12) are shown for  
 74 comparison.

| Census   | Spearman's rho<br>(all taxa) |             |             | Spearman's rho<br>(only indigenous taxa) |             |             | Spearman's rho<br>(only taxa found alive) |             |             |
|----------|------------------------------|-------------|-------------|------------------------------------------|-------------|-------------|-------------------------------------------|-------------|-------------|
|          | minimum                      | corrected   | maximum     | minimum                                  | corrected   | maximum     | minimum                                   | corrected   | maximum     |
| CS08     | <b>0.28</b>                  | <b>0.28</b> | <b>0.28</b> | <b>0.36</b>                              | <b>0.36</b> | <b>0.36</b> | <b>0.82</b>                               | <b>0.74</b> | <b>0.72</b> |
| CS09*    | <b>0.36</b>                  | <b>0.35</b> | <b>0.35</b> | <b>0.44</b>                              | <b>0.44</b> | <b>0.44</b> | <b>0.73</b>                               | <b>0.74</b> | <b>0.74</b> |
| Fe08     | <b>0.36</b>                  | <b>0.36</b> | <b>0.36</b> | <b>0.41</b>                              | <b>0.40</b> | <b>0.40</b> | <b>0.89</b>                               | <b>0.89</b> | <b>0.89</b> |
| Fe09a*   | <b>0.47</b>                  | <b>0.47</b> | <b>0.47</b> | <b>0.53</b>                              | <b>0.53</b> | <b>0.53</b> | <b>0.75</b>                               | <b>0.74</b> | <b>0.75</b> |
| Fe09b    | <b>0.39</b>                  | <b>0.39</b> | <b>0.39</b> | <b>0.45</b>                              | <b>0.45</b> | <b>0.45</b> | <b>0.53</b>                               | <b>0.53</b> | <b>0.53</b> |
| Ge09     | <b>0.36</b>                  | <b>0.36</b> | <b>0.36</b> | <b>0.47</b>                              | <b>0.46</b> | <b>0.46</b> | <b>0.83</b>                               | <b>0.83</b> | <b>0.83</b> |
| PC08     | <b>0.36</b>                  | <b>0.36</b> | <b>0.36</b> | <b>0.39</b>                              | <b>0.39</b> | <b>0.39</b> | 0.37                                      | 0.40        | 0.40        |
| PC09a*   | <b>0.52</b>                  | <b>0.53</b> | <b>0.53</b> | <b>0.61</b>                              | <b>0.61</b> | <b>0.61</b> | <b>0.74</b>                               | <b>0.74</b> | <b>0.74</b> |
| PC09b    | <b>0.45</b>                  | <b>0.45</b> | <b>0.45</b> | <b>0.52</b>                              | <b>0.52</b> | <b>0.52</b> | <b>0.56</b>                               | <b>0.56</b> | <b>0.56</b> |
| So08     | <b>0.43</b>                  | <b>0.43</b> | <b>0.43</b> | <b>0.51</b>                              | <b>0.51</b> | <b>0.51</b> | <b>1.00</b>                               | <b>0.97</b> | <b>0.97</b> |
| So09*    | <b>0.45</b>                  | <b>0.45</b> | <b>0.45</b> | <b>0.56</b>                              | <b>0.56</b> | <b>0.56</b> | <b>0.61</b>                               | <b>0.61</b> | <b>0.61</b> |
| To09     | <b>0.48</b>                  | <b>0.48</b> | <b>0.48</b> | <b>0.56</b>                              | <b>0.56</b> | <b>0.56</b> | <b>0.70</b>                               | <b>0.70</b> | <b>0.71</b> |
| Mean 08  | 0.36                         | 0.36        | 0.36        | 0.42                                     | 0.42        | 0.42        | 0.77                                      | 0.75        | 0.75        |
| Mean 09  | 0.45                         | 0.45        | 0.45        | 0.54                                     | 0.54        | 0.54        | 0.71                                      | 0.71        | 0.71        |
| Mean all | 0.41                         | 0.41        | 0.41        | 0.48                                     | 0.48        | 0.48        | 0.71                                      | 0.71        | 0.70        |

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76 **Supplementary Table 4**

77 Estimated asymptotic minimum taxa richness ( $S_{est}$ ), estimated number of undetected taxa ( $f_0$ ), and the ratio between observed ( $S_{obs}$ ) and  
 78 estimated ( $S_{est}$ ) taxa richness (Chao et al., 2009) computed for all dead censuses using the minimum, corrected, and maximum number of  
 79 bivalve individuals (Gilinsky & Bennington, 1994). The corresponding values for living censuses are insensitive to assumptions  
 80 concerning bivalve sampling. Mean values of 2009 censuses only include GPS coordinates already sampled in 2008 (marked with an  
 81 asterisk). Mean values across all censuses (n=12) are shown for comparison.

| Census   | Dead community<br>$S_{est}$ |           |         | Dead community<br>$f_0$ |           |         | Dead community<br>$S_{obs}/S_{est}$ |           |         |
|----------|-----------------------------|-----------|---------|-------------------------|-----------|---------|-------------------------------------|-----------|---------|
|          | minimum                     | corrected | maximum | minimum                 | corrected | maximum | minimum                             | corrected | maximum |
| CS08     | 86.8                        | 90.0      | 90.0    | 13.8                    | 17.0      | 17.0    | 0.84                                | 0.81      | 0.81    |
| CS09*    | 137.7                       | 140.7     | 140.7   | 10.7                    | 13.7      | 13.7    | 0.92                                | 0.90      | 0.90    |
| Fe08     | 90.1                        | 95.6      | 95.6    | 22.1                    | 27.6      | 27.6    | 0.76                                | 0.71      | 0.71    |
| Fe09a*   | 106.8                       | 109.0     | 109.0   | 9.8                     | 12.0      | 12.0    | 0.91                                | 0.89      | 0.89    |
| Fe09b    | 147.6                       | 162.6     | 162.6   | 20.6                    | 35.6      | 35.6    | 0.86                                | 0.78      | 0.78    |
| Ge09     | 102.4                       | 109.2     | 109.2   | 13.4                    | 20.2      | 20.2    | 0.87                                | 0.82      | 0.82    |
| PC08     | 46.1                        | 56.2      | 56.2    | 10.1                    | 20.2      | 20.2    | 0.78                                | 0.64      | 0.64    |
| PC09a*   | 101.8                       | 121.0     | 121.0   | 28.8                    | 48.0      | 48.0    | 0.72                                | 0.60      | 0.60    |
| PC09b    | 95.1                        | 96.0      | 96.0    | 7.1                     | 8.0       | 8.0     | 0.93                                | 0.92      | 0.92    |
| So08     | 28.3                        | 28.8      | 28.8    | 1.3                     | 1.8       | 1.8     | 0.96                                | 0.94      | 0.94    |
| So09*    | 107.2                       | 112.8     | 112.8   | 28.2                    | 33.8      | 33.8    | 0.74                                | 0.70      | 0.70    |
| To09     | 131.9                       | 151.0     | 151.0   | 16.9                    | 36.0      | 36.0    | 0.87                                | 0.76      | 0.76    |
| Mean 08  | 62.8                        | 67.6      | 67.6    | 11.8                    | 16.6      | 16.6    | 0.83                                | 0.78      | 0.78    |
| Mean 09  | 113.4                       | 120.9     | 120.9   | 19.4                    | 26.9      | 26.9    | 0.82                                | 0.77      | 0.77    |
| Mean all | 98.5                        | 106.1     | 106.1   | 15.2                    | 22.8      | 22.8    | 0.85                                | 0.79      | 0.79    |

82 **Supplementary Table 5**

83 Literature used to compile habitat information for all taxa. For each reference the number of taxa  
84 is provided for which species- and genus-specific habitat information was present. Reference  
85 numbers correspond to those used in Supplementary Table 6.

| Reference number | Number of taxa with species-specific habitat information | Number of taxa with genus-specific habitat information | Reference                    |
|------------------|----------------------------------------------------------|--------------------------------------------------------|------------------------------|
| 1                | 28                                                       | 42                                                     | Albano & Sabelli (2011)      |
| 2                | 7                                                        | 21                                                     | Albayrak et al. (2007)       |
| 3                | 8                                                        | 34                                                     | Almeida et al. (2008)        |
| 4                | 21                                                       | 46                                                     | Arroyo et al. (2006)         |
| 5                | 0                                                        | 24                                                     | Avila (2003)                 |
| 6                | 3                                                        | 39                                                     | Avila et al. (2007)          |
| 7                | 0                                                        | 3                                                      | Avila et al. (2008)          |
| 8                | 5                                                        | 19                                                     | Bachelet et al. (2000)       |
| 9                | 6                                                        | 20                                                     | Badalamenti et al. (2002)    |
| 10               | 8                                                        | 13                                                     | Bertasi et al. (2007)        |
| 11               | 5                                                        | 4                                                      | Cinar et al. (1998)          |
| 12               | 7                                                        | 13                                                     | Colosio et al. (2007)        |
| 13               | 7                                                        | 5                                                      | Como et al. (2008)           |
| 14               | 0                                                        | 1                                                      | Como & Magni (2009)          |
| 15               | 13                                                       | 18                                                     | Cosentino & Giacobbe (2006)  |
| 16               | 19                                                       | 24                                                     | Cosentino & Giacobbe (2008)  |
| 17               | 5                                                        | 10                                                     | Crocetta & Spanu (2008)      |
| 18               | 23                                                       | 27                                                     | De Biasi et al. (2003)       |
| 19               | 0                                                        | 1                                                      | De Montaudouin et al. (1999) |
| 20               | 0                                                        | 1                                                      | Dolbeth et al. (2007)        |
| 21               | 3                                                        | 5                                                      | Duineveld et al. (2007)      |
| 22               | 3                                                        | 1                                                      | Fabi et al. (2009)           |
| 23               | 0                                                        | 3                                                      | Frost et al. (1999)          |
| 24               | 46                                                       | 2                                                      | Goto & Poppe (1991)          |
| 25               | 79                                                       | 0                                                      | Goto & Poppe (1993)          |
| 26               | 60                                                       | 0                                                      | Huber (2010)                 |
| 27               | 1                                                        | 7                                                      | Kazanci et al. (2003)        |

|    |    |    |                                 |
|----|----|----|---------------------------------|
| 28 | 1  | 0  | Kidwell (2002)                  |
| 29 | 0  | 43 | Kilias (1997)                   |
| 30 | 1  | 0  | Koukouras & Russo (1991)        |
| 31 | 7  | 35 | Koutsoubas et al. (2000)        |
| 32 | 25 | 0  | Mastrototaro et al. (2008)      |
| 33 | 1  | 33 | Melone & Taviani (1982)         |
| 34 | 33 | 67 | Milazzo et al. (2000)           |
| 35 | 12 | 24 | Mutlu & Ergev (2008)            |
| 36 | 6  | 23 | Nicolaidou et al. (2006)        |
| 37 | 2  | 1  | Peharda et al. (2002)           |
| 38 | 3  | 14 | Ponti et al. (2007)             |
| 39 | 4  | 5  | Reizopoulou & Nicolaidou (2004) |
| 40 | 1  | 0  | Rossi et al. (2001)             |
| 41 | 19 | 44 | Rueda et al. (2001)             |
| 42 | 12 | 31 | Rueda et al. (2008)             |
| 43 | 28 | 54 | Rueda et al. (2009)             |
| 44 | 7  | 27 | Rueda & Salas (2003)            |
| 45 | 17 | 37 | Rueda & Salas (2008)            |
| 46 | 3  | 5  | Sawyer & Zuschin (2010)         |
| 47 | 15 | 44 | Schiroso et al. (2010)          |
| 48 | 4  | 4  | Semprucci et al. (2010)         |
| 49 | 31 | 29 | Siletic (2006)                  |
| 50 | 28 | 60 | Terlizzi et al. (2003)          |
| 51 | 44 | 66 | Terlizzi et al. (2005)          |
| 52 | 1  | 0  | Terlizzi et al. (2008)          |
| 53 | 13 | 26 | Weber & Zuschin (2013)          |
| 54 | 1  | 0  | Yonow (1996)                    |

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88 **Supplementary Table 6**

89 Habitat assignments of all taxa. For each taxon, the classification as either indigenous or  
 90 allochthonous and the number of references with species- and genus-specific habitat information  
 91 are provided. Reference numbers in the last two columns refer to references given in  
 92 Supplementary Table 5. In addition, columns three and four provide the habitat type(s) from  
 93 which a taxon has been reported alive (S=soft substrates, R=rocky substrates, V=vegetation,  
 94 P=pelagic zone, E=attached to echinoderms, W=wood-boring). If a taxon has been reported alive  
 95 from more than one habitat type, habitat types are ordered according to the number of references  
 96 for each of them, with the first being the habitat most often reported, and with equal signs (=)  
 97 designating habitat types with identical numbers of references. Four taxa (*Ctena decussata*,  
 98 *Jujubinus exasperatus*, *Musculus costulatus*, *Mytilaster solidus*) classified as allochthonous based  
 99 on literature data were recovered in the living community – these four taxa were classified as  
 100 indigenous in all analyses.

| Taxon                             | Classification | Number of species-specific references (habitat types) | Number of genus-specific references (habitat types) | Species-specific references            | Genus-specific references                                                          |
|-----------------------------------|----------------|-------------------------------------------------------|-----------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------|
| <i>Abra segmentum</i>             | indigenous     | 5 (S)                                                 | 22 (S, V, R)                                        | 18, 25, 26, 38, 40                     | 1, 2, 4, 8, 10, 13, 15, 18, 21, 27, 31, 33, 35, 36, 39, 41, 43, 44, 45, 47, 48, 49 |
| <i>Acanthocardia paucicostata</i> | indigenous     | 7 (S)                                                 | 10 (S, V)                                           | 2, 25, 26, 32, 41, 43, 49              | 4, 11, 15, 16, 18, 21, 22, 35, 43, 47                                              |
| <i>Acanthocardia tuberculata</i>  | indigenous     | 10 (S, V)                                             | 8 (S, V)                                            | 11, 15, 16, 18, 22, 25, 26, 35, 43, 47 | 2, 4, 21, 33, 35, 41, 43, 49                                                       |
| <i>Acteon tornatilis</i>          | indigenous     | 4 (S, V)                                              | 0                                                   | 4, 24, 41, 54                          | -                                                                                  |

|                               |               |                         |                         |                                              |                                                                                 |
|-------------------------------|---------------|-------------------------|-------------------------|----------------------------------------------|---------------------------------------------------------------------------------|
| <i>Alvania cimex</i>          | allochthonous | 5 (R)                   | 8 (R, S)                | 1, 9, 24, 50, 51                             | 5, 6, 7, 31, 34, 50, 51, 53                                                     |
| <i>Alvania</i> sp. 1          | allochthonous | 0                       | 10 (R, S, V)            | -                                            | 1, 5, 6, 7, 9, 31, 34, 50, 51, 53                                               |
| <i>Alvania</i> sp. 2          | allochthonous | 0                       | 10 (R, S, V)            | -                                            | 1, 5, 6, 7, 9, 31, 34, 50, 51, 53                                               |
| <i>Anomia ephippium</i>       | indigenous    | 12 (S, V, R)            | 1 (R)                   | 3, 4, 18, 25, 26, 41, 42, 43, 45, 49, 51, 53 | 49                                                                              |
| <i>Anomiidae</i> sp.          | indigenous    | 0                       | 11 (S, V, R)            | -                                            | 3, 4, 17, 18, 41, 42, 43, 45, 49, 51, 53                                        |
| <i>Antalis dentalis</i>       | indigenous    | 1 (S)                   | 2 (S)                   | 25                                           | 15, 33                                                                          |
| <i>Antalis inaequicostata</i> | indigenous    | 4 (S)                   | 1 (S)                   | 15, 25, 32, 41                               | 33                                                                              |
| <i>Antalis vulgaris</i>       | indigenous    | 3 (S, V)                | 2 (S)                   | 1, 25, 32                                    | 15, 33                                                                          |
| <i>Arca noae</i>              | allochthonous | 6 (R)                   | 2 (R)                   | 25, 26, 34, 49, 50, 51                       | 6, 49                                                                           |
| <i>Atlanta peronii</i>        | allochthonous | 1 (P)                   | 0                       | 24                                           | -                                                                               |
| <i>Atys jeffreysi</i>         | allochthonous | 1 (R)                   | 0                       | 34                                           | -                                                                               |
| <i>Barbatia barbata</i>       | allochthonous | 8 (R, S=V)              | 2 (R, S)                | 1, 25, 26, 34, 35, 49, 50, 51                | 9, 49                                                                           |
| <i>Barleeia</i> sp.           | allochthonous | 0                       | 3 (R)                   | -                                            | 29, 34, 51                                                                      |
| <i>Barleeia unifasciata</i>   | allochthonous | 3 (R)                   | 1 (only depth reported) | 24, 34, 51                                   | 29                                                                              |
| <i>Bittium</i> sp.            | indigenous    | 0                       | 22 (S, V, R)            | -                                            | 1, 3, 4, 5, 6, 8, 9, 18, 27, 31, 33, 34, 35, 36, 41, 42, 43, 44, 45, 47, 51, 53 |
| <i>Bolinus brandaris</i>      | indigenous    | 3 (S)                   | 0                       | 24, 32, 35                                   | -                                                                               |
| <i>Bolma rugosa</i>           | allochthonous | 4 (V, R=S)              | 0                       | 1, 4, 34, 42                                 | -                                                                               |
| <i>Bornia sebetia</i>         | allochthonous | 1 (only depth reported) | 0                       | 25                                           | -                                                                               |
| <i>Bulla striata</i>          | indigenous    | 7 (S, V, R)             | 0                       | 3, 18, 24, 32, 41, 44, 51                    | -                                                                               |
| <i>Calliostoma conulus</i>    | allochthonous | 4 (R, V)                | 13 (S, R=V)             | 1, 17, 24, 34                                | 4, 6, 16, 17, 29, 34, 41, 42, 43, 44, 45, 50, 51                                |
| <i>Calliostoma</i> sp. 1      | indigenous    | 0                       | 14 (R=S=V)              | -                                            | 1, 4, 6, 16, 17, 29, 34, 41, 42, 43, 44, 45, 50, 51                             |
| <i>Calliostoma</i> sp. 2      | indigenous    | 0                       | 14 (R=S=V)              | -                                            | 1, 4, 6, 16, 17, 29, 34, 41, 42, 43, 44, 45, 50, 51                             |
| <i>Callista chione</i>        | indigenous    | 4 (S, V)                | 0                       | 4, 16, 25, 26                                | -                                                                               |
| <i>Calyptrea chinensis</i>    | indigenous    | 9 (S, V, R)             | 0                       | 3, 4, 16, 24, 32,                            | -                                                                               |

|                               |               |                         |             |                                                                      |                               |
|-------------------------------|---------------|-------------------------|-------------|----------------------------------------------------------------------|-------------------------------|
|                               |               |                         |             | 41, 42, 43, 45                                                       |                               |
| <i>Cardita calyculata</i>     | allochthonous | 7 (R, S)                | 0           | 6, 25, 26, 34, 41, 50, 51                                            | -                             |
| <i>Cerastoderma glaucum</i>   | indigenous    | 12 (S, V)               | 3 (S, V)    | 8, 12, 13, 15, 18, 25, 26, 31, 36, 38, 39, 53                        | 3, 41, 47                     |
| <i>Cerithiidae</i> sp. 1      | indigenous    | 0                       | 8 (S, R, V) | -                                                                    | 3, 29, 31, 33, 34, 47, 50, 51 |
| <i>Cerithiidae</i> sp. 2      | indigenous    | 0                       | 8 (S, R, V) | -                                                                    | 3, 29, 31, 33, 34, 47, 50, 51 |
| <i>Cerithiidae</i> sp. 3      | indigenous    | 0                       | 8 (S, R, V) | -                                                                    | 3, 29, 31, 33, 34, 47, 50, 51 |
| <i>Cerithiidae</i> sp. 4      | indigenous    | 0                       | 8 (S, R, V) | -                                                                    | 3, 29, 31, 33, 34, 47, 50, 51 |
| <i>Cerithiidae</i> sp. 5      | indigenous    | 0                       | 8 (S, R, V) | -                                                                    | 3, 29, 31, 33, 34, 47, 50, 51 |
| <i>Cerithiidae</i> sp. 6      | indigenous    | 0                       | 8 (S, R, V) | -                                                                    | 3, 29, 31, 33, 34, 47, 50, 51 |
| <i>Cerithiopsis</i> sp.       | allochthonous | 0                       | 8 (R, S=V)  | -                                                                    | 1, 6, 29, 34, 41, 44, 50, 51  |
| <i>Cerithium vulgatum</i>     | indigenous    | 8 (S, R, V)             | 5 (R, S)    | 3, 24, 31, 32, 34, 47, 50, 51                                        | 31, 34, 35, 50, 51            |
| <i>Chama gryphoides</i>       | allochthonous | 6 (R)                   | 0           | 25, 26, 34, 49, 50, 51                                               | -                             |
| <i>Chamelea gallina</i>       | indigenous    | 18 (S, V)               | 0           | 2, 4, 10, 12, 15, 16, 18, 21, 22, 25, 26, 35, 41, 43, 45, 47, 48, 53 | -                             |
| <i>Chauvetia</i> sp.          | allochthonous | 0                       | 3 (R, V)    | -                                                                    | 1, 34, 51                     |
| <i>Chrysallida</i> sp.        | allochthonous | 0                       | 6 (R, S, V) | -                                                                    | 1, 34, 43, 44, 50, 51         |
| <i>Clanculus cruciatus</i>    | allochthonous | 6 (R, S)                | 3 (R, S)    | 1, 24, 34, 47, 50, 51                                                | 34, 47, 50                    |
| <i>Columbella rustica</i>     | allochthonous | 5 (R)                   | 1 (R=S)     | 1, 24, 34, 50, 51                                                    | 6                             |
| <i>Conus mediterraneus</i>    | allochthonous | 4 (R, V)                | 0           | 3, 24, 34, 51                                                        | -                             |
| <i>Copulabyssia corrugata</i> | unknown       | 0                       | 0           | -                                                                    | -                             |
| <i>Corbula gibba</i>          | indigenous    | 17 (S, V)               | 0           | 2, 4, 10, 15, 16, 18, 21, 22, 25, 26, 32, 35, 41, 43, 44, 48, 52     | -                             |
| <i>Crepidula unguiformis</i>  | indigenous    | 1 (only depth reported) | 2 (R=S=V)   | 24                                                                   | 1, 19                         |
| <i>Ctena decussata</i>        | allochthonous | 5 (R, S, V)             | 0           | 25, 34, 49, 50, 51                                                   | -                             |
| <i>Cyclope neritea</i>        | indigenous    | 11 (S, V)               | 2 (S)       | 10, 12, 13, 24,                                                      | 16, 47                        |

|                               |               |                            |             |                                          |                                                 |
|-------------------------------|---------------|----------------------------|-------------|------------------------------------------|-------------------------------------------------|
|                               |               |                            |             | 31, 36, 38, 39,<br>46, 47, 53            |                                                 |
| <i>Cyclope pellucida</i>      | indigenous    | 3 (S)                      | 10 (S, V)   | 16, 24, 47                               | 10, 12, 13, 31,<br>36, 38, 39, 46,<br>47, 53    |
| <i>Diodora gibberula</i>      | allochthonous | 4 (R)                      | 2 (R, V)    | 24, 34, 50, 51                           | 1, 29                                           |
| <i>Diodora graeca</i>         | allochthonous | 3 (R, V)                   | 3 (R)       | 1, 24, 34                                | 29, 50, 51                                      |
| <i>Diplodonta trigona</i>     | indigenous    | 0                          | 2 (S)       | -                                        | 16, 29                                          |
| <i>Donacilla cornea</i>       | indigenous    | 3 (S)                      | 0           | 25, 26, 30                               | -                                               |
| <i>Donax semistriatus</i>     | indigenous    | 7 (S)                      | 8 (S, V)    | 10, 12, 18, 25,<br>26, 35, 48            | 8, 15, 16, 18,<br>35, 43, 45, 53                |
| <i>Donax trunculus</i>        | indigenous    | 5 (S)                      | 10 (S, V)   | 8, 16, 25, 26,<br>53                     | 8, 10, 12, 15,<br>16, 18, 35, 43,<br>45, 48     |
| <i>Donax variegatus</i>       | indigenous    | 3 (S)                      | 11 (S, V)   | 18, 25, 26                               | 8, 10, 12, 15,<br>16, 18, 35, 43,<br>45, 48, 53 |
| <i>Donax venustus</i>         | indigenous    | 6 (S, V)                   | 8 (S)       | 15, 16, 25, 26,<br>43, 45                | 8, 10, 12, 16,<br>18, 35, 48, 53                |
| <i>Dosinia lupinus</i>        | indigenous    | 9 (S, V)                   | 0           | 16, 18, 21, 25,<br>26, 41, 43, 45,<br>53 | -                                               |
| <i>Emarginula adriatica</i>   | allochthonous | 1 (R)                      | 5 (R, V)    | 17                                       | 1, 29, 34, 50, 51                               |
| <i>Ennucula aegeensis</i>     | allochthonous | 1 (S)                      | 0           | 49                                       | -                                               |
| <i>Ensis ensis</i>            | indigenous    | 4 (S)                      | 0           | 15, 16, 25, 26                           | -                                               |
| <i>Ensis minor</i>            | indigenous    | 2 (S)                      | 2 (S)       | 25, 26                                   | 15, 16                                          |
| <i>Epitonium</i> sp. 1        | indigenous    | 0                          | 3 (S=V)     | -                                        | 4, 35, 43                                       |
| <i>Epitonium</i> sp. 2        | indigenous    | 0                          | 3 (S=V)     | -                                        | 4, 35, 43                                       |
| <i>Epitonium</i> sp. 3        | indigenous    | 0                          | 3 (S=V)     | -                                        | 4, 35, 43                                       |
| <i>Eulima glabra</i>          | allochthonous | 1 (only depth<br>reported) | 1 (E)       | 24                                       | 29                                              |
| <i>Eulima</i> sp.             | allochthonous | 0                          | 2 (E)       | -                                        | 24, 29                                          |
| <i>Euthria cornea</i>         | allochthonous | 2 (R)                      | 0           | 1, 24                                    | -                                               |
| <i>Flexopecten coarctatus</i> | allochthonous | 8 (V, S, R)                | 2 (S, R=V)  | 1, 4, 25, 26,<br>42, 43, 45, 49          | 33, 49                                          |
| <i>Flexopecten glaber</i>     | allochthonous | 5 (R, S)                   | 4 (V, S, R) | 1, 25, 26, 32,<br>49                     | 4, 43, 45, 49                                   |
| <i>Fossarus ambiguus</i>      | allochthonous | 1 (R)                      | 0           | 51                                       | -                                               |
| <i>Fusinus syracusanus</i>    | allochthonous | 1 (R)                      | 7 (R, S, V) | 24                                       | 1, 4, 17, 34, 35,<br>42, 50                     |
| <i>Fustiaria rubescens</i>    | indigenous    | 2 (S)                      | 0           | 25, 32                                   | -                                               |
| <i>Galeomma turtoni</i>       | allochthonous | 5 (R, S=V)                 | 1 (R)       | 1, 25, 49, 50,<br>51                     | 29                                              |
| <i>Gari fervensis</i>         | indigenous    | 6 (S, R=V)                 | 3 (S, R=V)  | 16, 25, 26, 32,<br>37, 43                | 1, 43, 49                                       |
| <i>Gibberula miliaria</i>     | allochthonous | 6 (R, S=V)                 | 2 (R)       | 4, 13, 24, 34,<br>50, 51                 | 34, 51                                          |
| <i>Gibberula philippii</i>    | allochthonous | 2 (R)                      | 5 (R, S=V)  | 34, 51                                   | 4, 13, 34, 50, 51                               |

|                                            |               |                         |                         |                                          |                                                                  |
|--------------------------------------------|---------------|-------------------------|-------------------------|------------------------------------------|------------------------------------------------------------------|
| <i>Gibberula</i> sp.                       | allochthonous | 0                       | 5 (R, S=V)              | -                                        | 4, 13, 34, 50, 51                                                |
| <i>Gibbomodiola adriatica</i>              | allochthonous | 2 (V)                   | 0                       | 25, 43                                   | -                                                                |
| <i>Gibbula ardens</i>                      | indigenous    | 3 (R=S=V)               | 15 (S, R, V)            | 24, 32, 34                               | 3, 4, 5, 6, 8, 9, 18, 31, 33, 34, 35, 36, 41, 47, 51             |
| <i>Gibbula rarilineata</i>                 | allochthonous | 1 (R)                   | 15 (S, R, V)            | 24                                       | 3, 4, 5, 6, 8, 9, 18, 31, 33, 34, 35, 36, 41, 47, 51             |
| <i>Gibbula</i> sp.                         | indigenous    | 0                       | 15 (S, R, V)            | -                                        | 3, 4, 5, 6, 8, 9, 18, 31, 33, 34, 35, 36, 41, 47, 51             |
| <i>Gibbula turbinoides</i>                 | allochthonous | 4 (R)                   | 14 (S, R, V)            | 24, 34, 50, 51                           | 3, 4, 5, 8, 9, 18, 31, 33, 34, 35, 36, 41, 47, 51                |
| <i>Glans trapezia</i>                      | indigenous    | 4 (S, R)                | 1 (R=S)                 | 25, 32, 49, 51                           | 49                                                               |
| <i>Glycymeris bimaculata</i>               | indigenous    | 2 (S)                   | 1 (S=V)                 | 25, 26                                   | 43                                                               |
| <i>Glycymeris nummaria</i>                 | indigenous    | 3 (S, V)                | 0                       | 25, 26, 43                               | -                                                                |
| <i>Granulina marginata</i>                 | allochthonous | 2 (R=V)                 | 1 (R)                   | 24, 34                                   | 34                                                               |
| <i>Haliotis tuberculata lamellosa</i>      | allochthonous | 4 (R)                   | 1 (R)                   | 1, 24, 50, 51                            | 29                                                               |
| <i>Heliacus contextus</i>                  | allochthonous | 1 (only depth reported) | 0                       | 33                                       | -                                                                |
| <i>Hexaplex trunculus</i>                  | indigenous    | 7 (S, R, V)             | 0                       | 4, 24, 34, 35, 50, 51, 53                | -                                                                |
| <i>Hiatella arctica</i>                    | indigenous    | 11 (R=S, V)             | 4 (R, S=V)              | 1, 4, 17, 18, 25, 26, 34, 41, 42, 43, 49 | 29, 49, 50, 51                                                   |
| <i>Homalopoma sanguineum</i>               | allochthonous | 4 (R, S=V)              | 0                       | 1, 24, 47, 50                            | -                                                                |
| <i>Hydrobia</i> sp. / <i>Odostomia</i> sp. | indigenous    | 0                       | 17 (S, V, R)            | -                                        | 3, 8, 14, 18, 20, 27, 31, 34, 36, 38, 39, 41, 42, 44, 50, 51, 53 |
| <i>Irus irus</i>                           | allochthonous | 4 (R)                   | 0                       | 25, 26, 50, 51                           | -                                                                |
| <i>Jujubinus exasperatus</i>               | allochthonous | 6 (R, V, S)             | 15 (V, S, R)            | 1, 17, 24, 34, 50, 51                    | 3, 4, 5, 6, 23, 31, 33, 34, 41, 42, 43, 44, 45, 50, 51           |
| <i>Karnekipia sulcata</i>                  | allochthonous | 1 (R)                   | 1 (only depth reported) | 17                                       | 29                                                               |
| <i>Lajonkairia substriata</i>              | indigenous    | 1 (only depth reported) | 1(R=S)                  | 26                                       | 29                                                               |
| <i>Lentidium mediterraneum</i>             | indigenous    | 8 (S)                   | 0                       | 10, 12, 18, 25, 26, 28, 48, 53           | -                                                                |
| <i>Lima lima</i>                           | allochthonous | 6 (R, S=V)              | 3 (R)                   | 1, 25, 26, 34, 49, 50                    | 34, 50, 51                                                       |

|                                  |               |              |              |                                                |                                       |
|----------------------------------|---------------|--------------|--------------|------------------------------------------------|---------------------------------------|
| <i>Limaria tuberculata</i>       | allochthonous | 5 (R, S=V)   | 2 (R, S)     | 1, 25, 26, 49, 51                              | 6, 49                                 |
| <i>Limidae</i> sp.               | allochthonous | 0            | 1 (R=V)      | -                                              | 1                                     |
| <i>Littorina obtusata</i>        | allochthonous | 1 (V)        | 2 (R=S)      | 24                                             | 3, 29                                 |
| <i>Littorina</i> sp.             | allochthonous | 1 (V)        | 2 (R=S)      | -                                              | 3, 29                                 |
| <i>Loripes lucinalis</i>         | indigenous    | 12 (S, V)    | 0            | 11, 13, 25, 31, 32, 36, 39, 44, 46, 47, 49, 53 | -                                     |
| <i>Lucinella divaricata</i>      | indigenous    | 6 (S, V, R)  | 0            | 25, 43, 45, 49, 51, 53                         | -                                     |
| <i>Mactra stultorum</i>          | indigenous    | 7 (S)        | 0            | 10, 12, 18, 25, 26, 35, 41                     | -                                     |
| <i>Mangelia</i> sp.              | indigenous    | 0            | 7 (S=V, R)   | -                                              | 1, 4, 15, 42, 43, 50, 51              |
| <i>Melarhaphe neritoides</i>     | allochthonous | 2 (R=S)      | 1 (R)        | 3, 24                                          | 29                                    |
| <i>Mimachlamys varia</i>         | allochthonous | 6 (R, S=V)   | 0            | 18, 25, 26, 32, 34, 49                         | -                                     |
| <i>Mitromorpha</i> sp.           | allochthonous | 0            | 1 (R=V)      | -                                              | 6                                     |
| <i>Modiolus barbatus</i>         | allochthonous | 8 (R, S, V)  | 1 (V)        | 9, 13, 25, 32, 49, 50, 51, 53                  | 43                                    |
| <i>Muricidae</i> sp. 1           | allochthonous | 0            | 7 (R, S, V)  | -                                              | 4, 17, 29, 34, 47, 50, 51             |
| <i>Muricidae</i> sp. 2           | allochthonous | 0            | 7 (R, S, V)  | -                                              | 4, 17, 29, 34, 47, 50, 51             |
| <i>Muricidae</i> sp. 3           | allochthonous | 0            | 7 (R, S, V)  | -                                              | 4, 17, 29, 34, 47, 50, 51             |
| <i>Muricidae</i> sp. 4           | allochthonous | 0            | 7 (R, S, V)  | -                                              | 4, 17, 29, 34, 47, 50, 51             |
| <i>Muricopsis</i> sp.            | allochthonous | 0            | 5 (R, V)     | -                                              | 1, 17, 34, 50, 51                     |
| <i>Musculus costulatus</i>       | allochthonous | 11 (V, R, S) | 2 (S, V)     | 4, 25, 26, 34, 42, 43, 44, 45, 49, 50, 51      | 41, 42                                |
| <i>Musculus discors</i>          | allochthonous | 2 (V)        | 10 (V, S, R) | 25, 26                                         | 4, 29, 41, 42, 43, 44, 45, 49, 50, 51 |
| <i>Myrtea spinifera</i>          | indigenous    | 2 (S)        | 0            | 2, 25                                          | -                                     |
| <i>Mytilaster marioni</i>        | allochthonous | 2 (R)        | 9 (S, R=V)   | 25, 26                                         | 4, 27, 34, 36, 39, 42, 43, 49, 51     |
| <i>Mytilaster minimus</i>        | indigenous    | 10 (S, R=V)  | 2 (R)        | 4, 25, 26, 27, 36, 39, 42, 43, 49, 51          | 34, 49                                |
| <i>Mytilaster solidus</i>        | allochthonous | 2 (R)        | 9 (S, R=V)   | 25, 26                                         | 4, 27, 34, 36, 39, 42, 43, 49, 51     |
| <i>Mytilus galloprovincialis</i> | indigenous    | 9 (R=S)      | 0            | 18, 25, 26, 32, 47, 49, 50, 51, 53             | -                                     |

|                               |               |             |                         |                                                  |                                                                                        |
|-------------------------------|---------------|-------------|-------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------|
| <i>Nassarius cuvierii</i>     | indigenous    | 5 (V, S, R) | 20 (S, V, R)            | 4, 24, 42, 45, 51                                | 3, 6, 12, 15, 16, 18, 31, 33, 34, 35, 41, 42, 43, 44, 45, 46, 47, 50, 51, 53           |
| <i>Nassarius mutabilis</i>    | indigenous    | 6 (S)       | 20 (S, V, R)            | 15, 16, 18, 24, 35, 41                           | 3, 4, 6, 12, 16, 18, 31, 33, 34, 35, 41, 42, 43, 44, 45, 46, 47, 50, 51, 53            |
| <i>Nassarius</i> sp.          | indigenous    | 0           | 23 (S, V, R)            | -                                                | 1, 3, 4, 6, 12, 15, 16, 18, 29, 31, 33, 34, 35, 41, 42, 43, 44, 45, 46, 47, 50, 51, 53 |
| <i>Natica hebraea</i>         | indigenous    | 3 (S)       | 4 (S, R)                | 16, 24, 35                                       | 33, 35, 41, 50                                                                         |
| <i>Neolepton</i> sp.          | allochthonous | 0           | 1 (R)                   | -                                                | 34                                                                                     |
| <i>Nerita sanguinolenta</i>   | allochthonous | 0           | 1 (only depth reported) | -                                                | 29                                                                                     |
| <i>Neverita josephina</i>     | indigenous    | 4 (S)       | 0                       | 15, 16, 24, 35                                   | -                                                                                      |
| <i>Nuculana pella</i>         | indigenous    | 3 (S, V)    | 0                       | 25, 26, 43                                       | -                                                                                      |
| <i>Obesotoma laevigata</i>    | indigenous    | 3 (S, V)    | 3 (S, V)                | 4, 41, 43                                        | 16, 42, 43                                                                             |
| <i>Omalogyridae</i> sp. 1     | allochthonous | 0           | 4 (R)                   | -                                                | 6, 34, 50, 51                                                                          |
| <i>Omalogyridae</i> sp. 2     | allochthonous | 0           | 4 (R)                   | -                                                | 6, 34, 50, 51                                                                          |
| <i>Pandora inaequalis</i>     | indigenous    | 5 (S, V)    | 0                       | 18, 25, 26, 41, 44                               | -                                                                                      |
| <i>Parvicardium scabrum</i>   | indigenous    | 3 (S, V)    | 15 (S, V, R)            | 4, 25, 26                                        | 1, 5, 6, 11, 18, 27, 33, 34, 41, 42, 43, 44, 45, 49, 51                                |
| <i>Parvicardium scriptum</i>  | allochthonous | 8 (V, R=S)  | 10 (S, R=V)             | 1, 4, 25, 26, 42, 43, 45, 51                     | 5, 6, 11, 18, 27, 33, 34, 41, 44, 49                                                   |
| <i>Patella caerulea</i>       | allochthonous | 1 (R)       | 3 (R)                   | 24                                               | 6, 29, 51                                                                              |
| <i>Patella rustica</i>        | allochthonous | 1 (R)       | 2 (R)                   | 24                                               | 6, 51                                                                                  |
| <i>Patella ulyssiponensis</i> | allochthonous | 2 (R)       | 1 (R)                   | 24, 51                                           | 6                                                                                      |
| <i>Pecten jacobaeus</i>       | indigenous    | 3 (S, R=V)  | 1 (S=V)                 | 25, 26, 49                                       | 4                                                                                      |
| <i>Philine</i> sp.            | indigenous    | 0           | 6 (S, R)                | -                                                | 18, 24, 34, 36, 41, 51                                                                 |
| <i>Phorcus turbinatus</i>     | allochthonous | 1 (R)       | 0                       | 24                                               | -                                                                                      |
| <i>Pinna nobilis</i>          | indigenous    | 3 (S=V)     | 0                       | 25, 26, 49                                       | -                                                                                      |
| <i>Pitar rudis</i>            | indigenous    | 9 (S, V)    | 0                       | 2, 4, 15, 25, 26, 32, 43, 45, 49                 | -                                                                                      |
| <i>Polititapes aureus</i>     | indigenous    | 14 (S, V)   | 1 (S)                   | 3, 4, 8, 10, 11, 18, 25, 26, 32, 36, 41, 43, 44, | 35                                                                                     |

|                             |               |       |              |                          |                                                                             |
|-----------------------------|---------------|-------|--------------|--------------------------|-----------------------------------------------------------------------------|
|                             |               |       |              | 45                       |                                                                             |
| <i>Polyplacophora</i> sp.   | allochthonous | 0     | 8 (R, S=V)   | -                        | 1, 3, 4, 18, 33, 34, 50, 51                                                 |
| <i>Pseudochama gryphina</i> | allochthonous | 7 (R) | 0            | 6, 9, 25, 26, 34, 49, 50 | -                                                                           |
| <i>Puncturella noachina</i> | allochthonous | 1 (R) | 1 (R)        | 24                       | 29                                                                          |
| <i>Retusa</i> sp.           | indigenous    | 0     | 2 (R=S=V)    | -                        | 34, 43                                                                      |
| <i>Retusa truncatula</i>    | indigenous    | 2 (S) | 2 (R=S=V)    | 24, 36                   | 34, 43                                                                      |
| <i>Rissoa auriscalpium</i>  | allochthonous | 1 (R) | 21 (S, V, R) | 34                       | 1, 2, 3, 4, 5, 6, 9, 29, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53 |
| <i>Rissoa</i> sp. 1         | indigenous    | 0     | 20 (S, V, R) | -                        | 1, 2, 3, 4, 5, 6, 9, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53     |
| <i>Rissoa</i> sp. 2         | indigenous    | 0     | 20 (S, V, R) | -                        | 1, 2, 3, 4, 5, 6, 9, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53     |
| <i>Rissoa</i> sp. 3         | indigenous    | 0     | 20 (S, V, R) | -                        | 1, 2, 3, 4, 5, 6, 9, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53     |
| <i>Rissoa</i> sp. 4         | indigenous    | 0     | 20 (S, V, R) | -                        | 1, 2, 3, 4, 5, 6, 9, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53     |
| <i>Rissoa</i> sp. 5         | indigenous    | 0     | 20 (S, V, R) | -                        | 1, 2, 3, 4, 5, 6, 9, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53     |
| <i>Rissoa</i> sp. 6         | indigenous    | 0     | 20 (S, V, R) | -                        | 1, 2, 3, 4, 5, 6, 9, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53     |
| <i>Rissoa</i> sp. 7         | indigenous    | 0     | 20 (S, V, R) | -                        | 1, 2, 3, 4, 5, 6, 9, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53     |
| <i>Rissoa</i> sp. 8         | indigenous    | 0     | 20 (S, V, R) | -                        | 1, 2, 3, 4, 5, 6,                                                           |

|                               |               |              |              |                                              |                                                                             |
|-------------------------------|---------------|--------------|--------------|----------------------------------------------|-----------------------------------------------------------------------------|
|                               |               |              |              |                                              | 9, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53                       |
| <i>Rissoa variabilis</i>      | indigenous    | 4 (R=S)      | 21 (S, V, R) | 31, 34, 47, 51                               | 1, 2, 3, 4, 5, 6, 9, 29, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53 |
| <i>Rissoa ventricosa</i>      | indigenous    | 2 (R=S)      | 21 (S, V, R) | 9, 47                                        | 1, 2, 3, 4, 5, 6, 9, 29, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53 |
| <i>Rissoa violacea</i>        | indigenous    | 4 (S=V, R)   | 19 (S, R=V)  | 1, 31, 42, 51                                | 2, 3, 4, 5, 6, 9, 31, 34, 36, 38, 41, 42, 43, 44, 45, 47, 50, 51, 53        |
| <i>Rissoina bruguieri</i>     | allochthonous | 5 (R)        | 0            | 1, 24, 34, 50, 51                            | -                                                                           |
| <i>Rocellaria dubia</i>       | allochthonous | 6 (R)        | 0            | 9, 25, 26, 49, 50, 51                        | -                                                                           |
| <i>Smaragdia viridis</i>      | allochthonous | 7 (V, S, R)  | 0            | 1, 4, 15, 42, 43, 45, 51                     | -                                                                           |
| <i>Solecurtus strigilatus</i> | indigenous    | 2 (S)        | 0            | 25, 26                                       | -                                                                           |
| <i>Solemya togata</i>         | allochthonous | 6 (V, S)     | 0            | 13, 25, 26, 32, 43, 45                       | -                                                                           |
| <i>Spisula subtruncata</i>    | indigenous    | 12 (S, V, R) | 0            | 2, 4, 11, 16, 18, 25, 26, 32, 41, 43, 45, 50 | -                                                                           |
| <i>Spondylus gaederopus</i>   | allochthonous | 4 (R)        | 0            | 25, 26, 49, 51                               | -                                                                           |
| <i>Striarca lactea</i>        | allochthonous | 8 (R, S=V)   | 0            | 1, 25, 26, 34, 35, 49, 50, 51                | -                                                                           |
| <i>Styliola subula</i>        | allochthonous | 1 (P)        | 1 (P)        | 24                                           | 29                                                                          |
| <i>Tellimya ferruginosa</i>   | indigenous    | 4 (S, V)     | 0            | 16, 18, 25, 43                               | -                                                                           |
| <i>Tellina albicans</i>       | indigenous    | 4 (S)        | 12 (S, V, R) | 15, 18, 25, 47                               | 1, 2, 8, 10, 12, 15, 16, 33, 41, 43, 45, 49                                 |
| <i>Tellina distorta</i>       | indigenous    | 7 (S, V)     | 14 (S, V, R) | 2, 15, 16, 25, 32, 43, 45                    | 1, 2, 8, 10, 12, 15, 16, 18, 33, 41, 43, 45, 47, 49                         |
| <i>Tellina incarnata</i>      | indigenous    | 1 (S)        | 14 (S, V, R) | 25                                           | 1, 2, 8, 10, 12, 15, 16, 18, 33, 41, 43, 45, 47, 49                         |
| <i>Tellina planata</i>        | allochthonous | 3 (V, S)     | 14 (S, V, R) | 25, 43, 45                                   | 1, 2, 8, 10, 12, 15, 16, 18, 33,                                            |

|                                  |               |              |                         |                                                  |                                                         |
|----------------------------------|---------------|--------------|-------------------------|--------------------------------------------------|---------------------------------------------------------|
|                                  |               |              |                         |                                                  | 41, 43, 45, 47, 49                                      |
| <i>Tellina pulchella</i>         | indigenous    | 3 (S, V)     | 14 (S, V, R)            | 16, 25, 43                                       | 1, 2, 8, 10, 12, 15, 16, 18, 33, 41, 43, 45, 47, 49     |
| <i>Tellina tenuis</i>            | indigenous    | 7 (S, R)     | 10 (S, V)               | 1, 8, 10, 12, 16, 25, 41                         | 2, 8, 15, 16, 18, 33, 43, 45, 47, 49                    |
| <i>Tellinidae</i> sp.            | indigenous    | 0            | 14 (S, V, R)            | -                                                | 1, 2, 8, 10, 12, 15, 16, 18, 33, 41, 43, 45, 47, 49     |
| <i>Thracia pubescens</i>         | indigenous    | 2 (S)        | 8 (S, V, R)             | 25, 26                                           | 1, 21, 23, 29, 43, 45, 49, 50                           |
| <i>Thracia</i> sp.               | indigenous    | 0            | 8 (S=V, R)              | -                                                | 1, 21, 23, 29, 43, 45, 49, 50                           |
| <i>Tricolia tenuis</i>           | indigenous    | 9 (S, V, R)  | 4 (R, S=V)              | 1, 6, 24, 32, 34, 41, 42, 44, 51                 | 5, 34, 42, 50                                           |
| <i>Truncatella subcylindrica</i> | allochthonous | 2 (R=S)      | 1 (only depth reported) | 24, 47                                           | 29                                                      |
| <i>Turbonilla formosa</i>        | indigenous    | 0            | 5 (S, R)                | -                                                | 1, 35, 41, 43, 50                                       |
| <i>Turbonilla hamata</i>         | indigenous    | 0            | 5 (S, R)                | -                                                | 1, 35, 41, 43, 50                                       |
| <i>Venerupis corrugata</i>       | indigenous    | 3 (S, R)     | 15 (S, V, R)            | 25, 26, 47                                       | 3, 4, 8, 10, 11, 13, 16, 18, 31, 37, 46, 47, 50, 51, 53 |
| <i>Venerupis decussata</i>       | indigenous    | 13 (S, V, R) | 5 (S, R=V)              | 3, 8, 11, 13, 18, 25, 26, 31, 37, 46, 47, 51, 53 | 4, 10, 16, 47, 50                                       |
| <i>Venus casina</i>              | indigenous    | 2 (S)        | 3 (S, R=V)              | 25, 26                                           | 1, 33, 49                                               |
| <i>Venus verrucosa</i>           | indigenous    | 6 (S, R, V)  | 0                       | 1, 18, 25, 26, 32, 49                            | -                                                       |
| <i>Vermetidae</i> sp.            | allochthonous | 0            | 5 (R)                   | -                                                | 6, 29, 34, 50, 51                                       |
| <i>Vexillum savignyi</i>         | allochthonous | 5 (R, V)     | 3 (R)                   | 1, 9, 24, 34, 51                                 | 34, 50, 51                                              |
| <i>Weinkauffia turgidula</i>     | allochthonous | 1 (R)        | 0                       | 1                                                | -                                                       |
| <i>Xylophaga</i> sp.             | allochthonous | 1 (W)        | 0                       | 49                                               | -                                                       |

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## Supplementary Table 7

Interannual comparison of live-dead agreement for the four sites sampled in both 2008 and 2009 (PC, Fe, CS and So). Of sites sampled twice in 2009 (PC, Fe), only the first 2009 censuses are included.  $\Delta S = \log(\text{rarefied number of dead taxa}) - \log(\text{number of living taxa})$  (Olszewski & Kidwell, 2007).  $S_{\text{obs}}/S_{\text{est}}$  denotes the ratio between observed ( $S_{\text{obs}}$ ) and estimated asymptotic minimum ( $S_{\text{est}}$ ) taxa richness (Chao et al., 2009). All comparisons were conducted using linear models in which site and year were included as predictors.

| Parameter                                                                      | Slope, test statistic and <i>P</i> -value |
|--------------------------------------------------------------------------------|-------------------------------------------|
| Proportion of living taxa found dead                                           | $b=0.09, t=1.4, P=0.26$                   |
| Spearman's rho (all taxa)                                                      | $b=0.09, t=2.8, P=0.07$                   |
| Spearman's rho (indigenous taxa)                                               | $b=0.12, t=3.3, P=0.047$                  |
| Spearman's rho (taxa found alive)                                              | $b=-0.04, t=-0.4, P=0.79$                 |
| Ratio of dead to living taxa number (raw data)                                 | $b=-0.51, t=-0.7, P=0.51$                 |
| Ratio of dead to living taxa number (rarefied data)                            | $b=-0.51, t=-1.5, P=0.22$                 |
| Difference in log of rarefied taxa number ( $\Delta S$ )                       | $b=-0.22, t=-1.5, P=0.23$                 |
| Proportion of dead taxa found alive (all taxa)                                 | $b=0.05, t=1.5, P=0.23$                   |
| Proportion of dead taxa found alive (indigenous taxa)                          | $b=0.09, t=1.9, P=0.16$                   |
| Proportion of dead individuals belonging to taxa found alive (all taxa)        | $b=0.06, t=1.0, P=0.39$                   |
| Proportion of dead individuals belonging to taxa found alive (indigenous taxa) | $b=0.10, t=1.5, P=0.22$                   |
| $S_{\text{obs}}/S_{\text{est}}$ (living community)                             | $b=-0.02, t=-0.2, P=0.87$                 |
| $S_{\text{obs}}/S_{\text{est}}$ (dead community)                               | $b=-0.00, t=-0.0, P=0.98$                 |

## Supplementary Table 8

Comparison of differences between replicate samples of the same sites (Fe09a with Fe09b, and PC09a with PC09b) to differences among sites sampled in 2009 in terms of taxa richness, abundance, and live-dead agreement. Differences between replicates (n=2) were compared to differences between any two sites sampled in 2009 (n=26) using non-parametric Wilcoxon rank sum tests following sequential Bonferroni correction (Holm, 1979).  $\Delta S = \log(\text{rarefied number of dead taxa}) - \log(\text{number of living taxa})$  (Olszewski & Kidwell, 2007).  $S_{\text{obs}}/S_{\text{est}}$  denotes the ratio between observed ( $S_{\text{obs}}$ ) and estimated asymptotic minimum ( $S_{\text{est}}$ ) taxa richness (Chao et al., 2009).

| Parameter                            | Mean difference $\pm$ SE, median difference |                            | Test statistic and <i>P</i> -value |
|--------------------------------------|---------------------------------------------|----------------------------|------------------------------------|
|                                      | between replicates (n=2)                    | between sites (n=26)       |                                    |
| Total taxa richness                  | 22.0 $\pm$ 9.0, 22.0                        | 25.4 $\pm$ 3.2, 24.5       | W=25, <i>P</i> =1.00               |
| Living taxa richness                 | 4.0 $\pm$ 4.0, 4.0                          | 5.4 $\pm$ 0.7, 4.5         | W=21, <i>P</i> =1.00               |
| Dead taxa richness                   | 22.5 $\pm$ 7.5, 22.5                        | 25.5 $\pm$ 3.3, 25.0       | W=25, <i>P</i> =1.00               |
| Total abundance                      | 3871.0 $\pm$ 1069.0, 3871.0                 | 2425.2 $\pm$ 319.0, 1944.5 | W=39, <i>P</i> =1.00               |
| Living abundance                     | 5.5 $\pm$ 4.5, 5.5                          | 157.4 $\pm$ 18.2, 155.0    | W=0, <i>P</i> =0.41                |
| Dead abundance                       | 3865.5 $\pm$ 1064.5, 3865.5                 | 2459.0 $\pm$ 328.9, 1984.5 | W=39, <i>P</i> =1.00               |
| Proportion of living taxa found dead | 0.06 $\pm$ 0.02, 0.06                       | 0.04 $\pm$ 0.01, 0.03      | W=40, <i>P</i> =1.00               |
| Spearman's rho (all taxa)            | 0.08 $\pm$ 0.00, 0.08                       | 0.07 $\pm$ 0.01, 0.07      | W=26, <i>P</i> =1.00               |
| Spearman's rho (indigenous taxa)     | 0.08 $\pm$ 0.01, 0.08                       | 0.07 $\pm$ 0.01, 0.07      | W=31, <i>P</i> =1.00               |
| Spearman's rho (taxa found alive)    | 0.20 $\pm$ 0.02, 0.20                       | 0.12 $\pm$ 0.02, 0.11      | W=43, <i>P</i> =1.00               |

|                                                                                |                        |                        |                   |
|--------------------------------------------------------------------------------|------------------------|------------------------|-------------------|
| Ratio of dead to living taxa (raw data)                                        | $1.84 \pm 0.41$ , 1.84 | $2.06 \pm 0.30$ , 1.68 | $W=27$ , $P=1.00$ |
| Ratio of dead to living taxa (rarefied data)                                   | $0.45 \pm 0.25$ , 0.45 | $0.80 \pm 0.11$ , 0.88 | $W=16$ , $P=1.00$ |
| Difference in log of rarefied taxa number ( $\Delta S$ )                       | $0.23 \pm 0.11$ , 0.23 | $0.35 \pm 0.04$ , 0.34 | $W=19$ , $P=1.00$ |
| Proportion of dead taxa found alive (all taxa)                                 | $0.09 \pm 0.03$ , 0.09 | $0.07 \pm 0.01$ , 0.05 | $W=36$ , $P=1.00$ |
| Proportion of dead taxa found alive (indigenous taxa)                          | $0.13 \pm 0.05$ , 0.13 | $0.08 \pm 0.01$ , 0.05 | $W=38$ , $P=1.00$ |
| Proportion of dead individuals belonging to taxa found alive (all taxa)        | $0.04 \pm 0.02$ , 0.04 | $0.18 \pm 0.02$ , 0.15 | $W=2$ , $P=0.40$  |
| Proportion of dead individuals belonging to taxa found alive (indigenous taxa) | $0.05 \pm 0.03$ , 0.05 | $0.15 \pm 0.02$ , 0.16 | $W=10$ , $P=1.00$ |
| $S_{\text{obs}}/S_{\text{est}}$ (living community)                             | $0.14 \pm 0.03$ , 0.14 | $0.20 \pm 0.03$ , 0.16 | $W=23$ , $P=1.00$ |
| $S_{\text{obs}}/S_{\text{est}}$ (dead community)                               | $0.22 \pm 0.11$ , 0.22 | $0.12 \pm 0.02$ , 0.12 | $W=38$ , $P=1.00$ |

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