**Table S10:** Pairwise analysis of yearly OTU richness & assemblage, t statistics included for significant results (t)—PERMANOVA+[7].

| Assay | OTU diversity test | 2010 2011 | 2010 2012 | 2010 2013 | 2010 2014 | 2011 2012 | 2011 2013 | 2011 2014 | 2012 2013 | 2012 2014 | 2013 2014 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cnidaria | Richness | - | - | - | - | - | - | - | - | - | - |
| | Assemblage | - | *** HB t=1.63 | *** HB t=1.81 | *** HB t=2.01 | * t=1.33 | ** HB t=1.49 | ** HB t=1.51 | - | - | - |
| Copepod 1 | Richness | - | * t=2.89 | - | * t=2.99 | ** HB t=3.81 | * t=2.67 | *** HB t=4.10 | - | - | - |
| | Assemblage | * t=1.38 | *** HB t=1.96 | *** HB t=1.85 | *** HB t=2.33 | ** HB t=1.73 | ** HB t=1.57 | *** HB t=2.07 | - | * t=1.28 | * t =1.32 |
| Copepod 2 | Richness | - | * t=2.73 | - | - | - | - | - | - | - | - |
| | Assemblage | * t=1.37 | ** t=1.51 | - | - | * t=1.45 | - | * t=1.37 | - | * t=1.34 | - |
| Copepod 3 | Richness | * t=2.50 | ** HB t= 3.61 | ** t=3.04 | * t=2.29 | * t=2.23 | - | - | - | - | - |
| | Assemblage | * t=1.32 | ** HB t=1.71 | ** HB t=1.48 | * t=1.40 | ** t=1.49 | * t=1.37 | * t=1.47 | - | - | - |
| Crustacea | Richness | * t=2.58 | * t= 2.14 | - | - | - | - | - | - | - | - |
| | Assemblage | - | - | - | - | - | - | - | - | ** t=1.45 | - |
| Fish | Richness | - | - | - | - | - | - | - | - | - | - |
| | Assemblage | - | - | - | - | - | - | - | - | - | - |
| Mollusca | Richness | - | - | - | - | - | - | - | - | - | - |
| | Assemblage | * t=1.30 | *** HB t=1.73 | *** HB t=1.57 | ** HB t=1.65 | ** HB t=1.48 | ** HB t =1.43 | ** HB t =1.56 | - | - | - |
| Universal | Richness | - | - | - | - | - | - | - | - | - | - |
| | Assemblage | - | * t=1.34 | ** HB t=1.46 | *** HB t= 1.67 | - | - | ** t =1.86 | - | - | - |

Where *** is $p \leq .001$, ** is $p \leq .01$, * is $p \leq .05$, HB is significant with Holm-Bonferroni correction & - is no significant changes