**Supplementary Tables 1**

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| --- | --- | --- | --- |
|  | ***Cad*** | ***Temp*** | ***Spatial*** |
| ***Salt*** | $$\overbar{PC2}, ΔPC2$$ | $$\overbar{PC2}, ΔPC2$$ | $$\overbar{PC2}, ΔPC2$$ |
| ***Cad*** |  | $$\overbar{PC4}$$ | $$ΔPC2, ΔPC5$$ |
| ***Temp*** |  |  | $$\overbar{PC2}, \overbar{PC4},$$ |