### PhyChem

**Physicochemical parameters**

1. **Turbidity** ($\mu$T)
   - Winter: Set1 < Set2 < Set3 = Set4
   - Summer: Set1 < Set2 < Set3 < Set4

2. **Conductivity** (mS/cm)
   - Winter: Set1 < Set2 < Set3 < Set4
   - Summer: Set1 < Set2 < Set3 = Set4

3. **Organic matter** (mg/L)
   - Winter: Set1 = Set2 < Set3 < Set4
   - Summer: Set1 = Set2 < Set3 < Set4

4. **Aluminum** (mg/L)
   - Winter: Set1 < Set2 = Set3 < Set4
   - Summer: Set1 < Set2 < Set3 < Set4

5. **Alkalinity** ($\text{CaCO}_3$ mg/L)
   - Winter: Set1 < Set2 = Set3 = Set4
   - Summer: Set1 < Set2 > Set3 = Set4

6. **Iron** (mg/L)
   - Winter: Set1 < Set2 < Set3 = Set4
   - Summer: Set1 < Set2 < Set3 = Set4

7. **pH**
   - Winter: Set1 < Set2 < Set3 < Set4
   - Summer: Set1 < Set2 < Set3 < Set4
Alpha-diversity

S4 Fig.
Alpha-diversity

Winter

Summer

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Cour
S6 Fig.

Winter

Summer

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Course

Set1
Set2
Set3
Set4
Upper
Lower
Middle
S7 Fig.

Season

- Winter
- Summer

Course

- Upper
- Middle
- Lower

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- Set 1
- Set 2
- Set 3
- Set 4

Cutoff 2

Cutoff 5

Cutoff 160

Plots showing the relationship between PC1 and PC2 for different cutoffs and seasons.