Table 1. perMANOVA of all data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Factor | Df | SumofSqs | R2 | F | p-value |
| Polygon | 5 | 90195 | 0.08196 | 1.1808 | 0.001 \*\*\* |
| Season | 1 | 162707 | 0.01479 | 1.0651 | 0.002 \*\*\* |
| Polygon:Season | 5 | 773657 | 0.07031 | 1.0129 | 0.073 . |
| Residual | 60 | 9165835 | 0.83294 |  |  |
| Total | 71 | 11004155 | 1.0000 |  |  |

Permdisp by Polygon: p-value=0.17

Table 2. perMANOVA of data filtered and rarefied

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Factor | Df | SumofSqs | R2 | F | p-value |
| Polygon | 5 | 247162 | 0.08590 | 1.2423 | 0.001 \*\*\* |
| Season | 1 | 41786 | 0.01452 | 1.0501 | 0.038 \* |
| Polygon:Season | 5 | 200967 | 0.06984 | 1.0101 | 0.212 |
| Residual | 60 | 2387514 | 0.82974 |  |  |
| Total | 71 | 2877429 | 1.0000 |  |  |

Permdisp by Polygon: p-value=0.339

Table 3. perMANOVA of robust PCA of all data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Factor | Df | SumofSqs | R2 | p-value |
| Polygon | 5 | 81.356 | 0.50931 | 0.001 \*\*\* |
| Season | 1 | 1.281 | 0.00802 | 0.365 |
| Polygon:Season | 5 | 6.349 | 0.03975 | 0.373 |
| Residual | 60 | 70.571 | 0.44292 |  |
| Total | 71 | 159.737 |  |  |

Permdisp by Polygon: p-value=0.051

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Factor | Df | SumofSqs | R2 | p-value |
| Polygon | 5 | 75.839 | 0.45466 | 0.001 \*\*\* |
| Season | 1 | 0.716 | 0.0431 | 0.624 |
| Polygon:Season | 5 | 2.696 | 0.1623 | 0.960 |
| Residual | 60 | 86.903 | 0.5302 |  |
| Total | 71 | 166.155 | 1.0000 |  |

Table 4. perMANOVA of robust PCA of filtered and rarefied data

Permdisp by Polygon: p-value=0.213