Supplementary Material



Supp. Fig 1: Workflow of our method and the k-fold dataset creation

Supp. Table 1: Detailed representation of recall, precision, and F-measure for our 5 models

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dataset | Species | Recall | Precision | F-measure |
| A | *Carcharhinus amblyrhynchos* | 0.90 | 0.88 | 0.89 |
| *Triaenodon obesus* | 0.84 | 0.85 | 0.84 |
| *Carcharhinus melanopterus* | 0.22 | 0.56 | 0.31 |
| B | *Carcharhinus amblyrhynchos* | 0.93 | 0.78 | 0.85 |
| *Triaenodon obesus* | 0.62 | 0.87 | 0.72 |
| *Carcharhinus melanopterus* | 0.47 | 0.32 | 0.38 |
| C | *Carcharhinus amblyrhynchos* | 0.93 | 0.76 | 0.83 |
| *Triaenodon obesus* | 0.59 | 0.84 | 0.69 |
| *Carcharhinus melanopterus* | 0.57 | 0.57 | 0.57 |
| D | *Carcharhinus amblyrhynchos* | 0.93 | 0.82 | 0.87 |
| *Triaenodon obesus* | 0.86 | 0.76 | 0.81 |
| *Carcharhinus melanopterus* | 0.31 | 0.24 | 0.27 |
| E | *Carcharhinus amblyrhynchos* | 0.88 | 0.81 | 0.85 |
| *Carcharhinus melanopterus* | 0.53 | 0.44 | 0.50 |
| *Triaenodon obesus* | 0.50 | 0.67 | 0.57 |

Supp. Table 2 Automated classification confusion matrix for our testing dataset #5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model Prediction | *Carcharhinus amblyrhynchos* | *Triaenodon obesus* | *Carcharhinus melanopterus* | Other |
| *Carcharhinus amblyrhynchos* | 1586 | 48 | 5 | 118 |
| *Triaenodon obesus* | 102 | 162 | 0 | 85 |
| *Carcharhinus melanopterus* | 3 | 2 | 15 | 9 |
| *Other* | 271 | 33 | 14 |   |

Supp. Table 3 Semi-automated classification confusion matrix for our testing dataset #5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model Prediction | *Carcharhinus amblyrhynchos* | *Triaenodon obesus* | *Carcharhinus melanopterus* | Other |
| *Carcharhinus amblyrhynchos* | 1639 | 0 | 0 | 118 |
| *Triaenodon obesus* | 0 | 264 | 0 | 85 |
| *Carcharhinus melanopterus* | 0 | 0 | 20 | 9 |
| *Other* | 0 | 0 | 0 |   |