**Supplementary Material**

Effects of the Saemangeum Reclamation Project on migratory shorebird staging in the Saemangeum and Geum Estuaries, South Korea

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Appendix S1. List of shorebirds recorded in the Saemangeum area during observation periods before and after the Saemangeum Reclamation Project.

Appendix S1. List of shorebirds recorded in the Saemangeum area during observation periods before and after the Saemangeum Reclamation Project. Numbers are mean peak number of species observed per year; “IUCN” represents the IUCN (2015) conservation status of each species.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Common name | Scientific name | IUCN | Before | After |
| Spring | Fall | Spring | Fall |
| Eurasian Oystercatcher | *Haematopus ostralegus* | Near Threatened | 168.5 | 1189 | 552 | 2084 |
| Black-winged Stilt | *Himantopus himantopus* | Least Concern | 0.5 | 3.5 | 8.7 | 7.7 |
| Pied Avocet | *Recurvirostra avosetta* | Least Concern | 0 | 0 | 0 | 1 |
| Northern Lapwing | *Vanellus vanellus* | Near Threatened | 0 | 0 | 4.3 | 0 |
| Grey-headed Lapwing | *Vanellus cinereus* | Least Concern | 0 | 0 | 0.67 | 0.67 |
| Pacific Golden Plover | *Pluvialis fulva* | Least Concern | 3.5 | 4 | 3 | 8.3 |
| Grey Plover | *Pluvialis squatarola* | Least Concern | 6127 | 10361 | 6079 | 4365 |
| Common Ringed Plover | *Charadrius hiaticula* | Least Concern | 0 | 0 | 0 | 0.33 |
| Long-billed Plover | *Charadrius placidus* | Least Concern | 0 | 0 | 0 | 1 |
| Little Ringed Plover | *Charadrius dubius* | Least Concern | 2 | 0 | 0 | 0 |
| Kentish Plover | *Charadrius alexandrinus* | Least Concern | 255 | 10265 | 599 | 2922 |
| Lesser Sand Plover | *Charadrius mongolus* | Least Concern | 4785 | 6473 | 1759 | 2641 |
| Greater Sand Plover | *Charadrius leschenaultii* | Least Concern | 1 | 0 | 1.7 | 2.3 |
| Common Snipe | *Gallinago gallinago* | Least Concern | 0 | 0 | 1.33 | 10 |
| Asian Dowitcher | *Limnodromus semipalmatus* | Near Threatened | 0 | 0 | 0.3 | 5.7 |
| Black-tailed Godwit | *Limosa limosa* | Near Threatened | 1682 | 4454 | 393 | 2636 |
| Bar-tailed Godwit | *Limosa lapponica* | Near Threatened | 7431 | 3460 | 11206 | 3922 |
| Whimbrel | *Numenius phaeopus* | Least Concern | 877 | 389 | 376 | 329 |
| Eurasian Curlew | *Numenius arquata* | Near Threatened | 170 | 2017 | 189 | 4057 |
| Far Eastern Curlew | *Numenius madagascariensis* | Endangered | 864 | 1657 | 2354 | 5099 |
| Spotted Redshank | *Tringa erythropus* | Least Concern | 74 | 12.5 | 16.7 | 6.33 |
| Common Redshank | *Tringa totanus* | Least Concern | 20 | 4.5 | 14.3 | 23 |
| Marsh Sandpiper | *Tringa stagnatilis* | Least Concern | 1 | 5 | 13 | 86 |
| Common Greenshank | *Tringa nebularia* | Least Concern | 660 | 2842 | 339 | 1415 |
| Nordmann’s Greenshank | *Tringa guttifer* | Endangered | 0.5 | 5 | 6.3 | 7 |
| Green Sandpiper | *Tringa ochropus* | Least Concern | 0 | 1 | 0 | 3 |
| Wood Sandpiper | *Tringa glareola* | Least Concern | 181 | 3.5 | 9 | 23 |
| Terek Sandpiper | *Xenus cinereus* | Least Concern | 1281 | 3014 | 2217 | 4505 |
| Common Sandpiper | *Actitis hypoleucos* | Least Concern | 7 | 76 | 8 | 23 |
| Grey-tailed Tattler | *Heteroscelus brevipes* | Near Threatened | 3.5 | 57.5 | 91 | 42 |
| Ruddy Turnstone | *Arenaria interpres* | Least Concern | 619 | 582 | 19 | 15 |
| Great Knot | *Calidris tenuirostris* | Endangered | 104733 | 58292 | 5793 | 4595 |
| Red Knot | *Calidris canutus* | Near Threatened | 1897 | 437 | 39 | 28.7 |
| Sanderling | *Calidris alba* | Least Concern | 73 | 425 | 156 | 613 |
| Red-neck Stint | *Calidris ruficollis* | Near Threatened | 6832 | 4280 | 1565 | 3906 |
| Temminck’s Stint | *Calidris temminckii* | Least Concern | 0 | 0 | 0 | 1.3 |
| Long-toed Stint | *Calidris subminuta* | Least Concern | 0 | 0 | 0.7 | 1 |
| Sharp-tailed Sandpiper | *Calidris acuminata* | Least Concern | 308 | 15 | 385 | 4.3 |
| Curlew Sandpiper | *Calidris ferruginea* | Near Threatened | 4.5 | 0 | 3.6 | 1.3 |
| Dunlin | *Calidris alpina* | Least Concern | 76733 | 28863 | 42402 | 8607 |
| Spoon-billed Sandpiper | *Eurynorhynchus pygmeus* | Critically Endangered | 1 | 11.5 | 0.33 | 0 |
| Broad-billed Sandpiper | *Limicola falcinellus* | Least Concern | 41 | 125 | 138 | 277 |
| Buff-breasted Sandpiper | *Tryngites subruficollis* | Near Threatened | 0 | 0 | 0.3 | 0 |