

Spatial Analysis of Ecological Risks for WACA Projects along the Mauritania Coast

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Acronyms Used and their Descriptions

| | | | |
|------|---|----------|---|
| AoA | Area of Analysis (for CHA) | KBA | Key Biodiversity Area |
| AMP | <i>Aire Marine Protégée</i> (Marine Protected Area) | LC | Least Concern |
| AZE | Alliance for Zero Extinction | LoO | Likelihood of Occurrence |
| CHA | Critical Habitat Assessment | MPA | Marine Protected Area |
| CR | Critically Endangered | NE | Not Evaluated (for threatened status) |
| DD | Data Deficient | NG | Net Gain (of biodiversity) |
| EN | Endangered | NGO | Non-Governmental Organization |
| EPBR | <i>Établissement Portuaire de la Baie de Repos</i> (Nouadhibou Port Authority) | NNL | No Net Loss of Biodiversity |
| EoO | Extent of Occurrence | NT | Near Threatened (IUCN Red List Category) |
| ESIA | Environmental & Social Impact Assessment | SALN | <i>Société d'Aménagement du Littoral de Nouakchott</i> (Nouakchott Coastal Development Company) |
| ESIS | Environmental & Social Impact Statement | UNESCO | United Nations Educational, Scientific and Cultural Organization |
| ESS6 | Environmental and Social Standard 6: Biodiversity Conservation and Sustainable Management of Living Natural Resources | VU | Vulnerable |
| IBA | Important Bird Area | WACA | West Africa Coastal Areas Program |
| IBAT | Integrated Biodiversity Assessment Tool | WB / WBG | World Bank / World Bank Group |
| IUCN | International Union for Conservation of Nature | WPE | Waterbird Population Estimates |

1 EXECUTIVE SUMMARY

This report presents an Ecological Spatial Analysis for two Mauritania sub-projects funded under the World Bank's West Africa Coastal Areas (WACA) Program:

1. The Nouadhibou Boat Parking Development, to relieve congestion in the port and improve artisanal fisheries operations and safety.
2. The Nouakchott Dune Rehabilitation Project, to restore the integrity of the dune cordon that shields Nouakchott from coastal erosion, marine intrusion, and sea-level rise.

Both sub-projects fall within coastal zones of high ecological importance, warranting an assessment on biodiversity conservation aligned with the World Bank standard ESS6.

A third project involves mapping regeneration of mangroves in the Mauritania side of the lower Senegal River delta. This mapping sub-project will not cause adverse impacts to the biodiversity, so is not the focus of the assessments of this report.

Impacts to Natural Habitat

Both sites are located within the Saharan Atlantic Coastal Desert ecoregion, an extremely arid environment where terrestrial habitats are fragile and highly sensitive to disturbance.

- The Nouadhibou Site is situated in a disturbed intertidal zone devoid of vegetation or fauna, which is not considered natural habitat.
- Affected areas of the Nouakchott Dune Rehabilitation comprise largely disturbed dunes showing anthropogenic vegetation patterns. Borrow areas are mostly associated with the urban edge with many signs of disturbance. While some natural dune elements might persist, the area is predominantly modified, with no significant natural habitat loss anticipated.

Accordingly, ESS6 No Net Loss requirements are not triggered for either sub-project.

Protected Areas

The Mauritania coastline supports several legally protected areas and internationally recognized areas of high biodiversity value, including Ramsar Wetlands, Key Biodiversity Areas and Important Bird Areas, with many areas overlapping. These areas are recognized for exceptional abundance of migratory birds which are a key focus for the assessment of critical habitat

Critical Habitat Assessment

The assessment of critical habitat yielded the following results:

- Migratory Birds: At least 105 bird populations exceed 1% of their regional flyway populations, meeting Criterion (c) of ESS6. Thirteen bird populations exceed 50% of their flyway population totals, confirming global importance of coastal Mauritania for bird conservation.

- Sea Turtles: Green and Hawksbill Turtles nest along the Mauritanian coast, particularly near Aftout es Sâheli and Banc d'Arguin, qualifying these areas as critical habitats.
- African Manatee and Hippopotamus are present in the Senegal River and regionally important but extirpated from Diawling National Park after the Diama Dam construction.
- Marine Mammals: Blue Whale, Sei Whale, and Atlantic Humpback Dolphin occur rarely and are unlikely to represent significant populations (critical habitats) for these species.

Net Gain and Impact Relevance

- The Nouadhibou boat parking sub-project is located in a modified port setting with no significant biodiversity impacts expected.
- The Nouakchott Dune Rehabilitation sub-project could cause minor temporary disturbances to migratory waterbirds and potential risk to sea turtles, both impacts can be mitigated.

Mitigation is proposed within the Nouakchott sub-project ESIA which will minimize impacts, but effectiveness can be enhanced with the following additional measures:

- Local ecologists must conduct early morning patrols along the beaches to search for turtle nesting activity, starting three months prior to the construction. Any sea turtle nests must be translocated to predesignated safe beach habitats where they will receive protection.
- During construction works, ecologists must watch for migratory waterbird behavior. Thresholds for numbers of birds must be established, which if exceeded, construction works in the vicinity should be temporarily delayed.

ESIA mitigation and the above additional measures are easily implemented and are likely to be effective. However there is no certainty that impacts can be fully mitigated, while monitoring the adverse effect of construction impacts will be challenging to assess. The following measures are proposed as net gain actions which need to be scoped and appropriately budgeted:

- Provide support to local conservation organizations to monitor and protect sea turtles along the broader Nouakchott coast.
- The beaches must be cleaned of plastic waste and potential hazards to birds and sea turtles, such as discarded fishing gear.
- Rehabilitation of natural beach habitats, such as Mangroves, in the vicinity of Nouakchott can also be considered.
- Monitoring the presence of migratory birds and evidence of sea turtle nesting behavior can provide data that can demonstrate the effectiveness of the measures proposed in the ESIA, the additional measures and net gain actions.

2 INTRODUCTION

This document describes three WACA-funded sub-projects within Mauritania,

- Development of a boat parking area in the small fishing town of Nouadhibou on the northern coast,
- Dune rehabilitation along the beaches in Nouakchott, the capital city in the central coast, and
- Mapping the regeneration of mangroves in the lower Senegal River delta within the Diawling National Park on the southern coast of Mauritania.

Nouadhibou Boat Parking Development

A new parking area will be constructed for small boats at the Baie de Repos in Nouadhibou. The Nouadhibou Port is severely congested with artisanal fishing boats (Figure 1). The sub-project will improve port functionality, safety, and working conditions for artisanal fishers through relieving congestion in the existing port area by creating dedicated basins for. The severe congestion results in safety risks, inefficiencies and stresses on existing infrastructure. The sub-project is located primarily at Pointe Rey, in the southern zone of the Port Establishment of Baie de Repos (EPBR), and will be led by the EPBR, which manages the artisanal fishing port and its facilities.

Figure 1 Extreme congestion of artisanal fishing boats in the Nouadhibou Port (March 1, 2025)



Nouakchott Dune Rehabilitation Project

The Nouakchott coastline is threatened by accelerated coastal erosion, marine submersion, and climate change. The capital's protection relies on a fragile dune cordon that separates the city from the Atlantic Ocean. This dune belt serves as a natural barrier, but its progressive weakening, marked by numerous breaches, poses growing risks to populations, infrastructure, and economic assets. In response, the Nouakchott Coastal Development Company (SALN), with the support of the Mauritanian government and development partners, has initiated a large-scale program to rehabilitate and strengthen this protective system.

The goal is to improve the resilience of Nouakchott by 2055 through the restoration and long-term stabilization of the dune cordon. The sub-project focuses on sealing 15 priority breaches identified by SALN in consultation with ministerial partners and technical experts. These works are part of a wider coastal protection and urban development strategy, complementing interventions already underway under the West Africa Coastal Areas (WACA) Program, financed by the World Bank. WACA has addressed several other breaches and supported measures such as mangrove planting, community disaster risk reduction, and cross-border shoreline management with Senegal.

The specific objectives of the sub-project are to:

- Restore the dune cordon's integrity along a 14 km stretch by sealing priority breaches.
- Reduce risks of marine intrusion during storms, exceptional tides, and rising sea levels.
- Promote climate resilience by favoring natural, sustainable solutions such as dune reconstitution, vegetation stabilization, and controlled access.
- Safeguard socio-economic activities linked to the coastal zone, including fishing, industry, agriculture, and tourism.
- Support flood management by enhancing infiltration and evacuation of rainwater and wastewater.
- Facilitate future development through integration with planned promenades, soft mobility routes, industrial zones, and photovoltaic parks.

The sub-project builds on a pre-feasibility study (Artelia and Okan, 2022) and a detailed design study (SETEC, 2025), which informed the technical solutions adopted. Field surveys, environmental baseline assessments, and consultations with communities and stakeholders have shaped the design and scope.

Mapping the regeneration of mangroves in the Senegal River Delta

The Mangrove Mapping is conducted on the right bank of the lower Senegal River delta, within the Diawling National Park, which forms part of a Transboundary Biosphere Reserve. The sub-

project is conducted under the WACA initiative, and combines field surveys, community consultations, and satellite image analysis to map about 509 ha of mangroves, dominated by two species, *Avicennia germinans* and *Rhizophora racemosa*. The study has revealed significant regeneration driven by improved hydrological management and restoration programs. It highlighted mangroves' roles in biodiversity, carbon storage, and coastal protection, recommending continued restoration, community engagement, and strengthened water management for sustainable conservation.

No adverse impacts to the biodiversity are anticipated as a result of this sub-project, it is therefore not the focus of the assessments of this report.

2.1 Purpose and Scope of this Report

A brief Environmental and Social Impact Statement (ESIS) has been compiled for the Nouadhibou sub-project and a more comprehensive Environmental and Social Impact Assessment (ESIA) has been compiled for the Nouakchott sub-project. These documents describe baseline conditions, assess environmental and social impacts, and present mitigation. However both sites are located in areas with sensitive biodiversity and alignment to the World Bank Environment and Social Standard 6 on Biodiversity Conservation and Sustainable Management of Living Natural Resources has been identified as gaps. This report is compiled to improve alignment to ESS6 through presentation of an assessment of natural habitats, critical habitats and protected areas.

2.2 Brief Project Descriptions

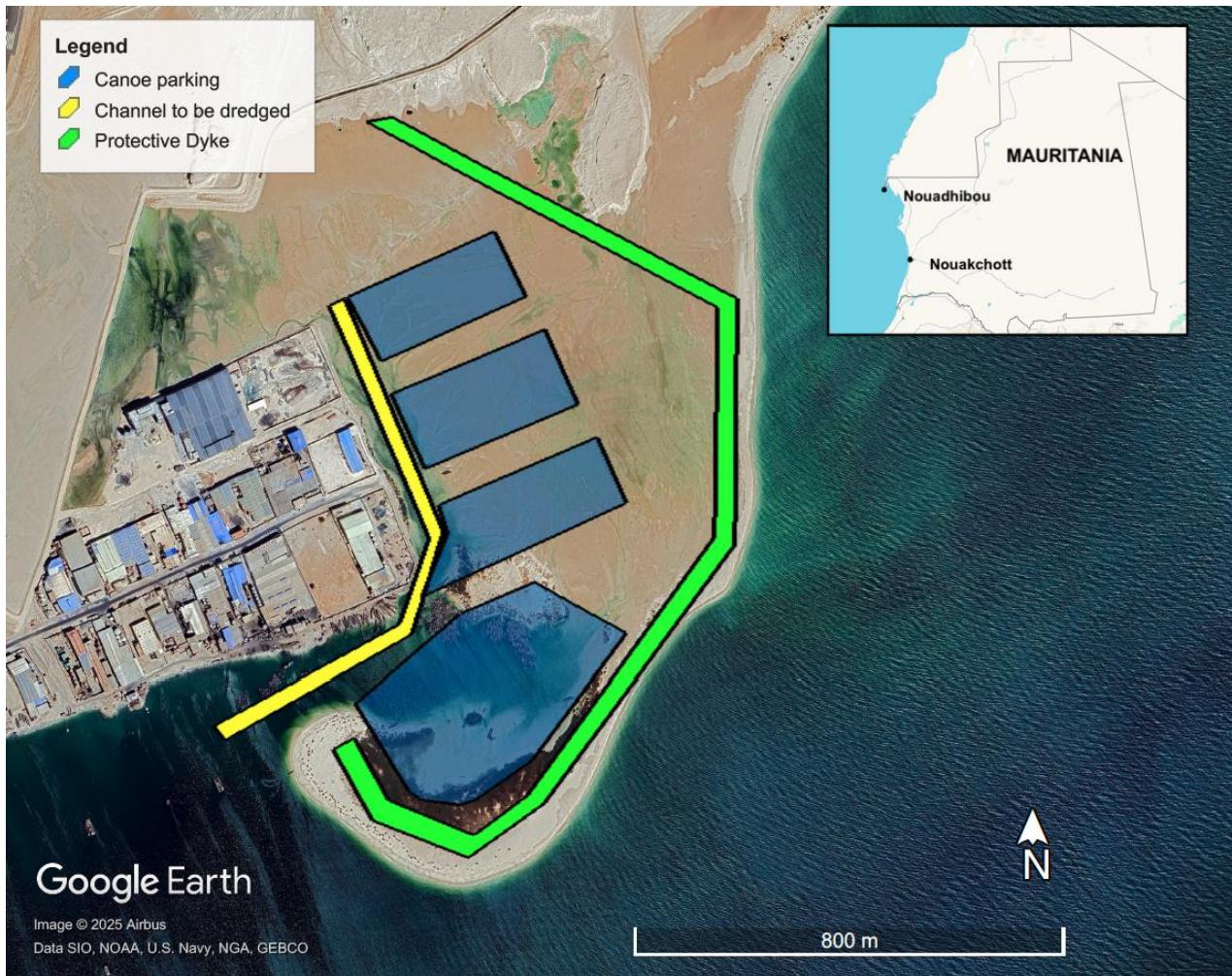
2.2.1 Nouadhibou Boat Parking Development

Development of a new boat parking area and the construction of an access dyke are proposed at the Baie de Repos in Nouadhibou at GPS location Lat. 20.915016°; Long. -17.024294°. Figure 2 presents the proposed layout.

Key development components include:

- Construction of rectangular bays, approx. 30,000 m² each with a depth of 2 m, to serve as dedicated boat parking areas.
- Dredging of parking basins with installation of mooring devices.
- Development of an access dike on the landward side, 2.3 km in length, linking to the road network managed by the Nouadhibou Free Zone.
- Site clean-up, removal of abandoned canoes and accumulated waste.
- Mechanical dredging, allowing recovery and reuse of dredged materials for embankment construction where feasible.

Figure 2 Layout and location of the Nouadhibou Boat Parking Project

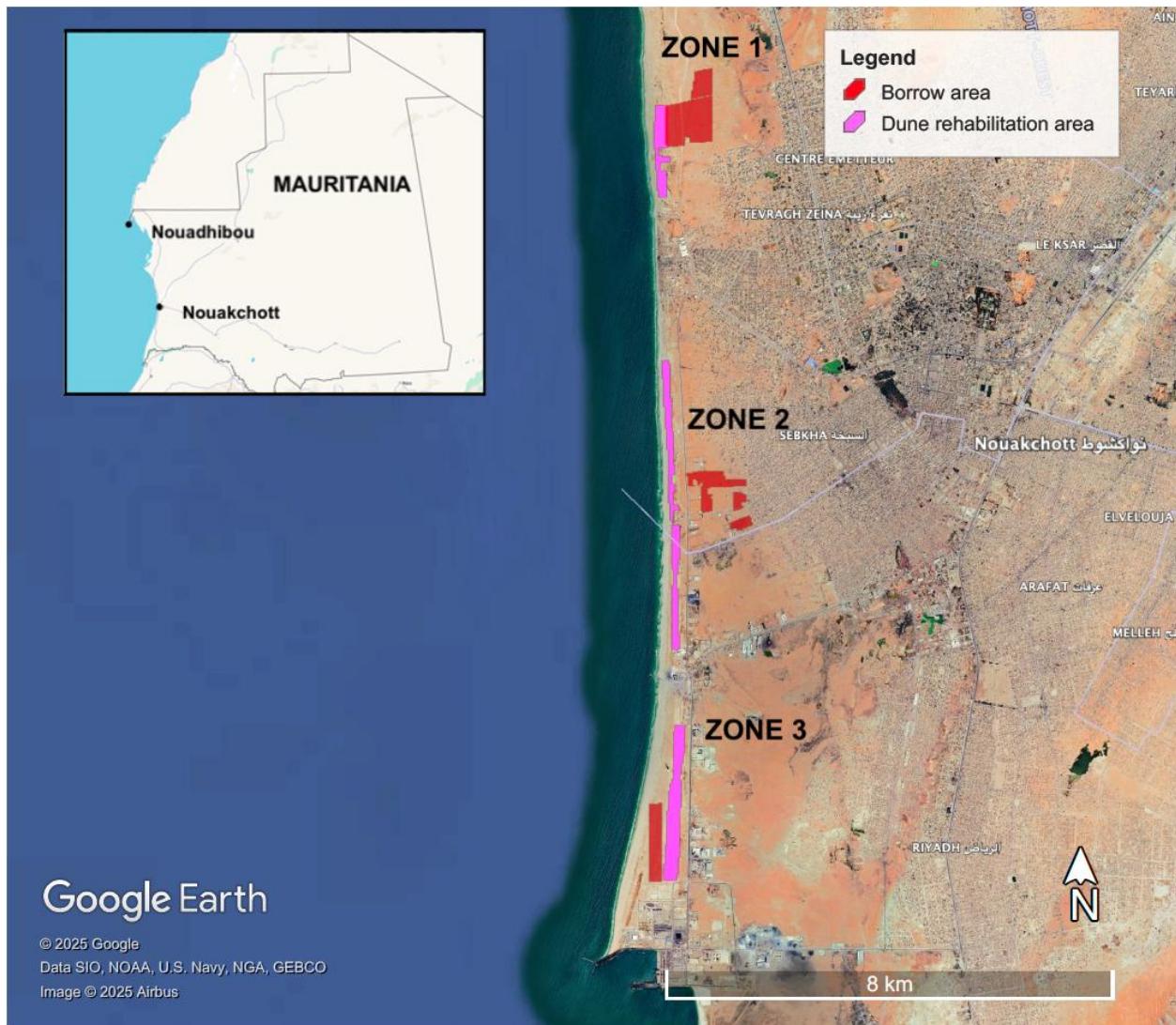


2.2.2 Nouakchott Dune Rehabilitation Project Description

This project will involve dune construction along the coast using sand and aggregate material sourced nearby. A central location for the sub-project is Lat. 18.063224° , Long. -16.023655° .

The works will be implemented in three discrete areas, identified as Zone 1, Zone 2 and Zone 3 (Figure 3). Each zone includes the dune area for rehabilitation and borrow areas for sourcing soils and aggregates.

Figure 3 Layout and location of the Nouakchott Dune Rehabilitation Project



The construction methods exclude hard engineering solutions requiring regular maintenance, instead favoring long-term, environmentally responsible interventions. The works will be phased to address the most vulnerable breaches first, while ensuring continuity of local livelihoods and minimizing disturbance.

The sub-project will consist of the following interrelated components:

1. Sealing of 15 Dune Breaches:
 - Targeted civil works to close gaps in the dune cordon, using sand backfilling and dune reshaping.
 - Reinforcement through vegetation planting to ensure stability and prevent re-erosion.
2. Re-vegetation and Dune Stabilization:

- Establishment of a plant nursery, in collaboration with the Ministry of Environment, to supply native dune plant species.
- Plantation schemes designed to stabilize sand, promote ecological restoration, and enhance biodiversity.

3. Controlled Access Measures:
 - Installation of pedestrian crossings and regulated access points along the dune belt to prevent degradation.
 - Fencing and signage to channel movement and limit disturbance.
4. Supporting Infrastructure and Logistics:
 - Borrow areas identified for sourcing sand and fill material, with transport routes mapped to minimize disruption.
 - Temporary construction facilities, storage sites, and access tracks to be established under environmental guidelines.
5. Nursery and Vegetation Management:
 - Dedicated nursery for propagating and maintaining dune plants.
 - Training and capacity building for local communities in nursery operation and vegetation management.

3 AREAS OF ANALYSIS

This report provides an assessment of habitats, which is dependent on Areas of Analysis (AoAs).

- The assessment of modified and natural habitat are based on site boundaries and no AoAs are specified.
- AoAs are specified for identifying protected areas and species detection is based on a 50 km buffer around the Nouadhibou EPBR (Figure 4), and a similar extent around Nouakchott City (Figure 7). These AoAs follow the IBAT (Integrated Biodiversity Assessment Tool) approach that applies a 50 km buffer due to the inherently low accuracy of most species distribution maps used by the IUCN Red List of Threatened Species, which is a key underlying source for data provided by IBAT.

4 ASSESSMENT OF MODIFIED AND NATURAL HABITATS

A core requirement of ESS6 is the classification of modified and natural habitats, whereby all habitats are categorized as either one or the other. This classification is necessary to establish the ESS6 requirement for No Net Loss of biodiversity (NNL)⁽¹⁾ in response to impacts to natural habitat. ESS6 provides clear definitions of modified and natural habitats (Table 1), which guide the approach to classification of habitats.

Table 1 ESS6 Definitions of Modified and Natural Habitat

| Modified Habitat | Natural Habitat |
|---|---|
| <i>ESS6 paragraph 19:</i> Modified habitats are areas that may contain a large proportion of plant and/or animal species of non-native origin, and/or where human activity has substantially modified an area's primary ecological functions and species composition. | <i>ESS6 paragraph 21:</i> Natural habitats are areas composed of viable assemblages of plant and/or animal species of largely native origin, and/or where human activity has not essentially modified an area's primary ecological functions and species composition. |

Both the Nouakchott Dune Rehabilitation and the Nouadhibou boat parking development are located in the Saharan Atlantic Coastal Desert ecoregion. This ecoregion forms a narrow coastal strip with the southern edge approx. 20 km south of Nouakchott, which stretches northwards along the Atlantic seaboard of Mauritania, Western Sahara almost to Morocco. It represents one of the most arid habitats in the world, shaped by the combined influence of the Sahara Desert and the cool Canary Current offshore. Terrestrial natural habitat is defined by its hyper-arid climate, minimal vegetation cover, and reliance on coastal and wetland features to sustain biodiversity, making it ecologically fragile and highly sensitive to disturbance.

Typical vegetation is extremely sparse and discontinuous, dominated by hardy shrubs adapted to the extreme arid conditions and succulents adapted to drought, high salinity, and shifting sands. Typical plant species include *Zygophyllum*, *Salsola*, *Suaeda*, and *Tamarix*, with scattered stands of *Acacia* and *Balanites* in more favorable microhabitats. Coastal salt flats and sebkhas support halophytes (salt tolerant plants) such as *Salicornia* and *Arthrocnemum*.

Wildlife diversity is low and restricted to a few specialized species. Although the coastline is associated with large temporary wetlands that are globally significant for migratory and

⁽¹⁾ NNL is defined by ESS6 (footnote 8) as the point at which project-related impacts on biodiversity are balanced by measures taken to avoid and minimize the project's impacts, to undertake on-site restoration and finally to offset significant residual impacts, if any, on an appropriate geographic scale (e.g., local, landscape-level, national, regional).

wintering waterbirds, including large concentrations of waders, gulls, and terns that depend on intertidal flats, lagoons, and estuaries.

4.1.1 Nouadhibou Boat Parking Development

The project footprint is on the edge of Nouadhibou town. A review of Google Earth imagery suggests the site is located within the intertidal zone, which is a naturally unstable habitat. The ESIS states the sub-project site is devoid of natural vegetation and fauna due to anthropogenic disturbance and the harsh climate. No natural habitats are therefore expected.

4.1.2 Nouakchott Dune Rehabilitation

The Nouakchott Dune Rehabilitation is located within the close proximity of Nouakchott city. The above description of the Saharan Atlantic Coastal Desert ecoregion states the natural vegetation is fragile and highly sensitive to disturbance. Habitats in the close proximity of the city are therefore expected to be predominantly modified.

The ESIA does not classify the project-affected habitats as either modified or natural, while a review of imagery is reveals many small disturbances. The following observations are possible from Google Earth imagery:

- **Zone 1** - Considerable disturbance is visible within the proposed dune rehabilitation area, while the associated borrow areas show less evidence of disturbance.
- **Zone 2** – The northern part of the dune rehabilitation area shows many large shrubs, but much of the vegetation is arranged in rows, suggesting an anthropogenic influence that has been established for some time. The southern parts of this zone are largely devoid of vegetation with evidence of landscape alteration. The associated borrow areas are on the urban edge with much of evidence of disturbance.
- **Zone 3** - The dune rehabilitation area shows a blend of vegetated land and areas of vegetation, but with many footpaths crossing the area. The associated borrow area supports minimal vegetation and minimal disturbance. This borrow area is close to the beach and could be frequently influenced by extreme tides or weather disturbances creating an unstable vegetation.

Considering the fragile nature of the vegetation, the project footprint for dune rehabilitation appears to be largely modified, although the only means to confirm this status is through onsite assessment.

4.2 Conclusion regarding Natural Habitats

No natural habitats are expected in the vicinity of the Nouadhibou boat parking development. For the Nouakchott Dune Rehabilitation area, it is not possible to determine from a desktop assessment whether habitats are natural or modified, though they are likely to be predominantly modified. Some beach habitats may be unstable due to wave action, and any remaining natural areas are expected to be limited in extent. Given the vast areas of desert and extensive undisturbed coastline surrounding the sub-project, any potential loss of natural habitat would be negligible in the broader landscape context.

Accurate classification of habitats would require on-site verification; however, such assessment is not recommended, and the application of ESS6 No Net Loss requirements is not warranted for this project.

5 ASSESSMENT OF PROTECTED AREAS

ESS6 recognizes both legally protected and internationally recognized areas of high biodiversity value. The CHA approach (Chapter 6) requires an understanding of protected areas and the reasons for which they are designated. These protected areas are defined as:

- **Legally Protected Areas:** “A clearly defined geographical space, recognized, dedicated and managed, through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values.” This includes areas proposed by governments for such designation.
- **Internationally Recognized Areas of High Biodiversity Value:** These areas are recognized by international conservation organizations and include Natural World Heritage Sites, Biosphere Reserves, Ramsar Wetlands of International Importance, Key Biodiversity Areas (KBA), Important Bird Areas (IBA), and Alliance for Zero Extinction (AZE) Sites, among others.

IBAT reports generated for the Nouadhibou, Nouakchott and Diawling National Park sub-projects identify three legally protected areas and multiple internationally recognized areas of biodiversity importance within Mauritania and within a 50 km buffer (Table 2). There is considerable overlap between the different types of protected areas.

Table 2 Summary of protected areas within Mauritania assessed in this report

| Types of Protected Area | Proximity to Project | | |
|--|----------------------|------------------|------------------------|
| | Nouadhibou Jetty | Nouakchott Dunes | Diawling National Park |
| Legally Protected Areas | | | |
| Banc d'Arguin National Park, Ramsar, World Heritage, KBA and IBA | Yes | | |
| Baie de l'Etoile Multiple Use Area | Yes | | |
| Diawling National Park, Ramsar Wetland, KBA and IBA | | | Yes |
| Internationally Recognized Areas of High Biodiversity value | | | |
| Dakhla are KBA and IBA | Yes | | |
| Canary Current Shelf-break (north) KBA | Yes | | |
| Cap Blanc KBA and IBA | Yes | | |
| Aftout es Sâheli KBA and IBA | | | Yes |
| Chott Boul Ramsar Wetland, KBA and IBA | | | Yes |

Figure 4 Layout of legally protected areas identified by IBAT within a 50 km buffer of Nouadhibou town

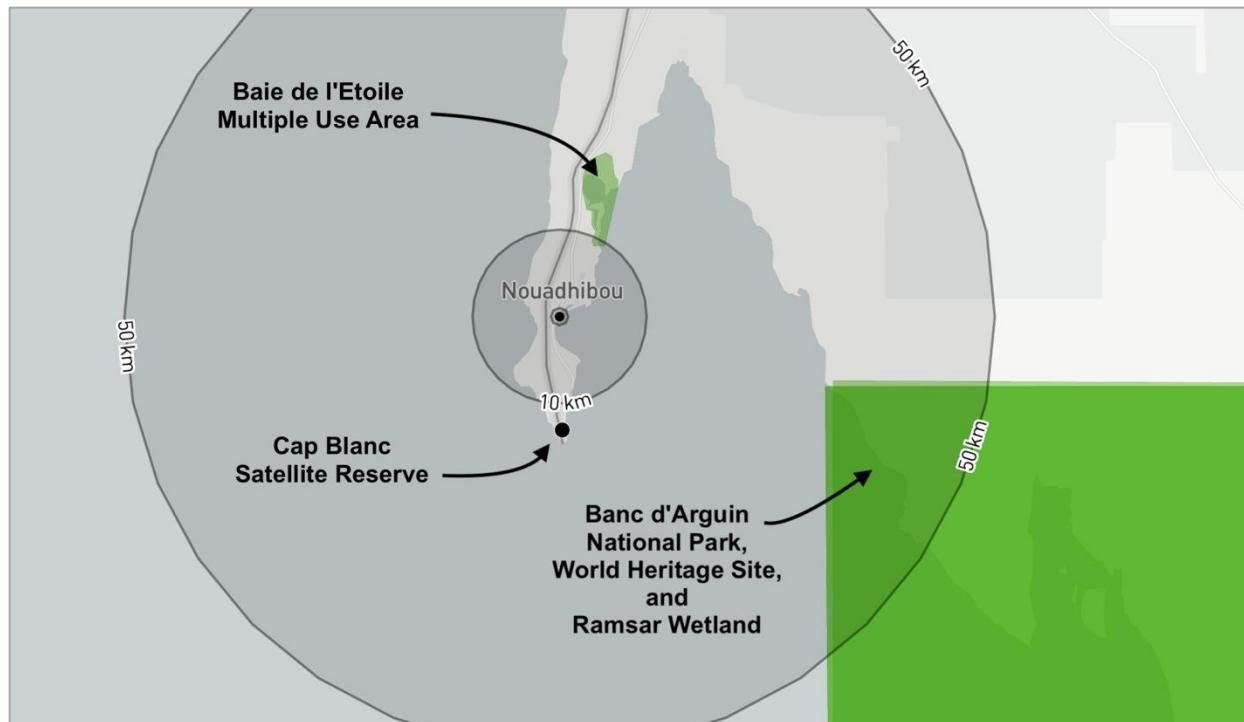


Figure 5 IBAT map illustrating the layout of Protected Areas within a 50 km buffer of the southern edge of Mauritania

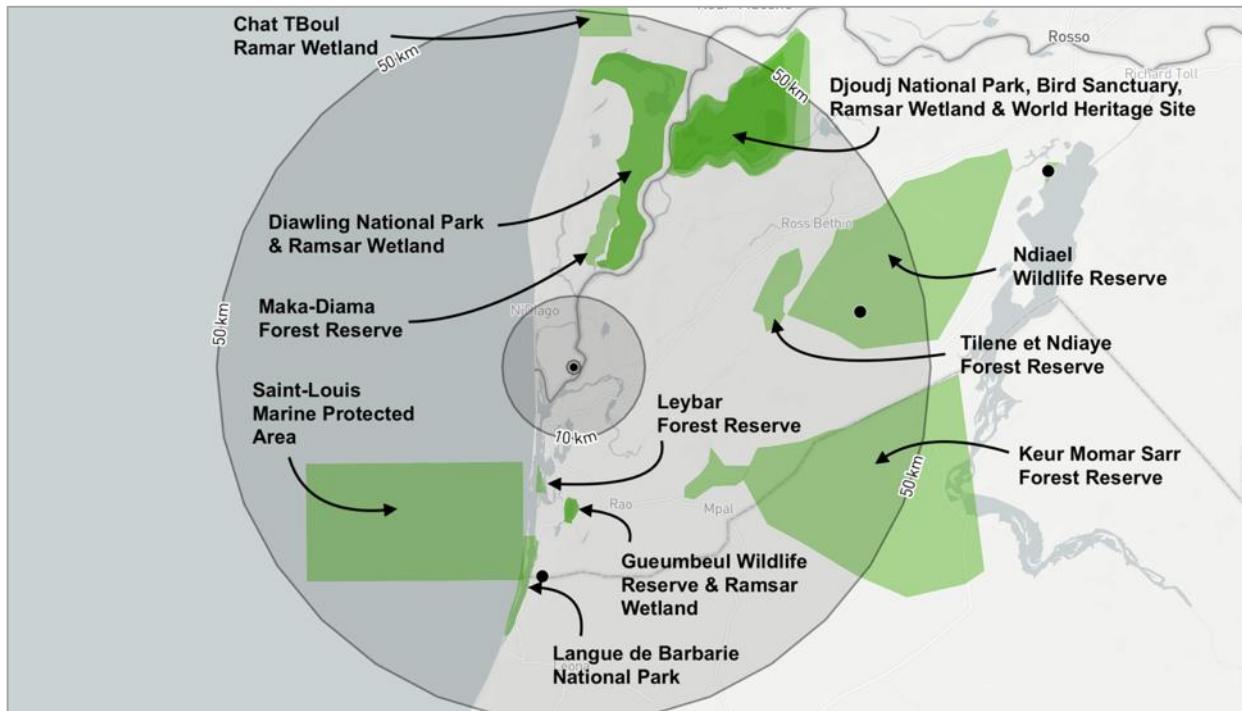


Figure 6 Key Biodiversity Areas within a 50 km buffer of Nouadhibou town

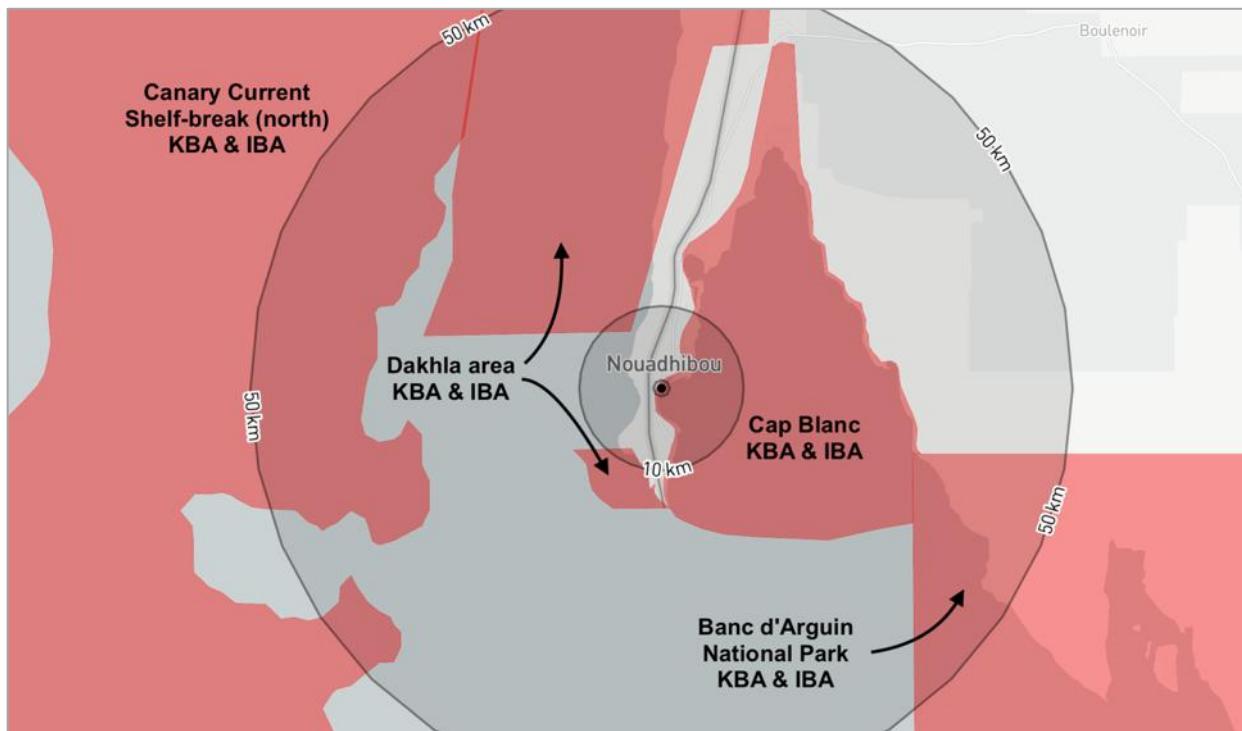


Figure 7 Key Biodiversity Areas within a 50 km buffer of the Dune Rehabilitation around Nouakchott City

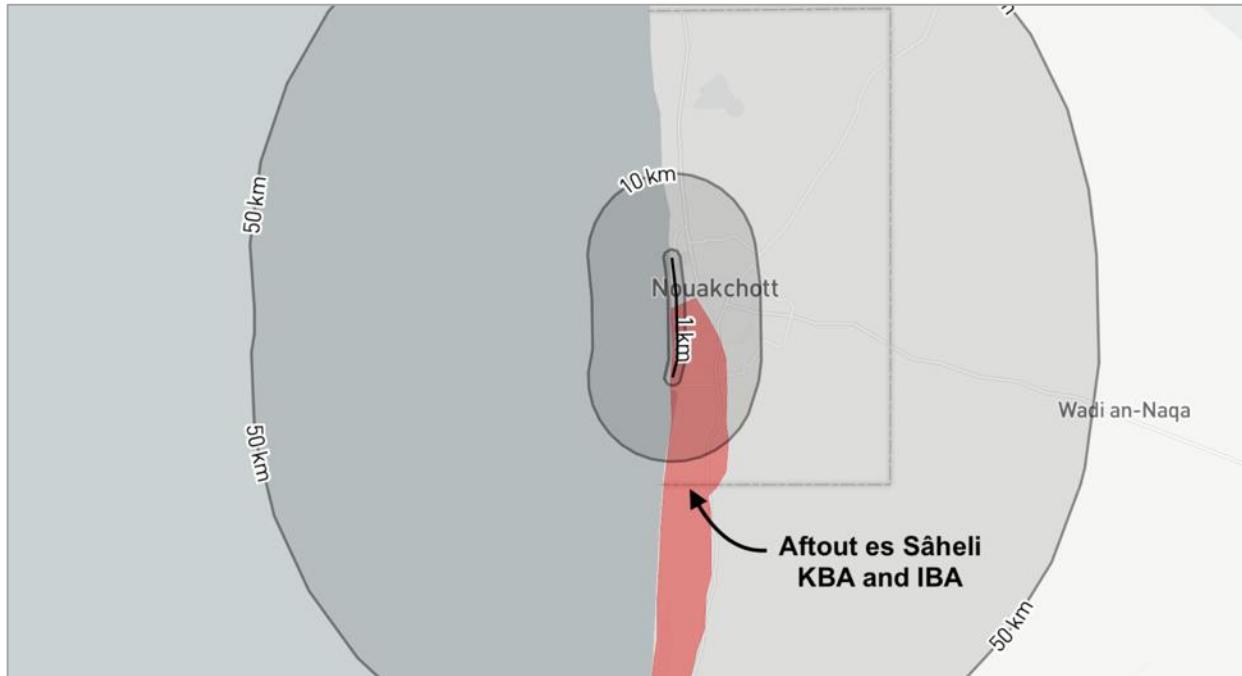
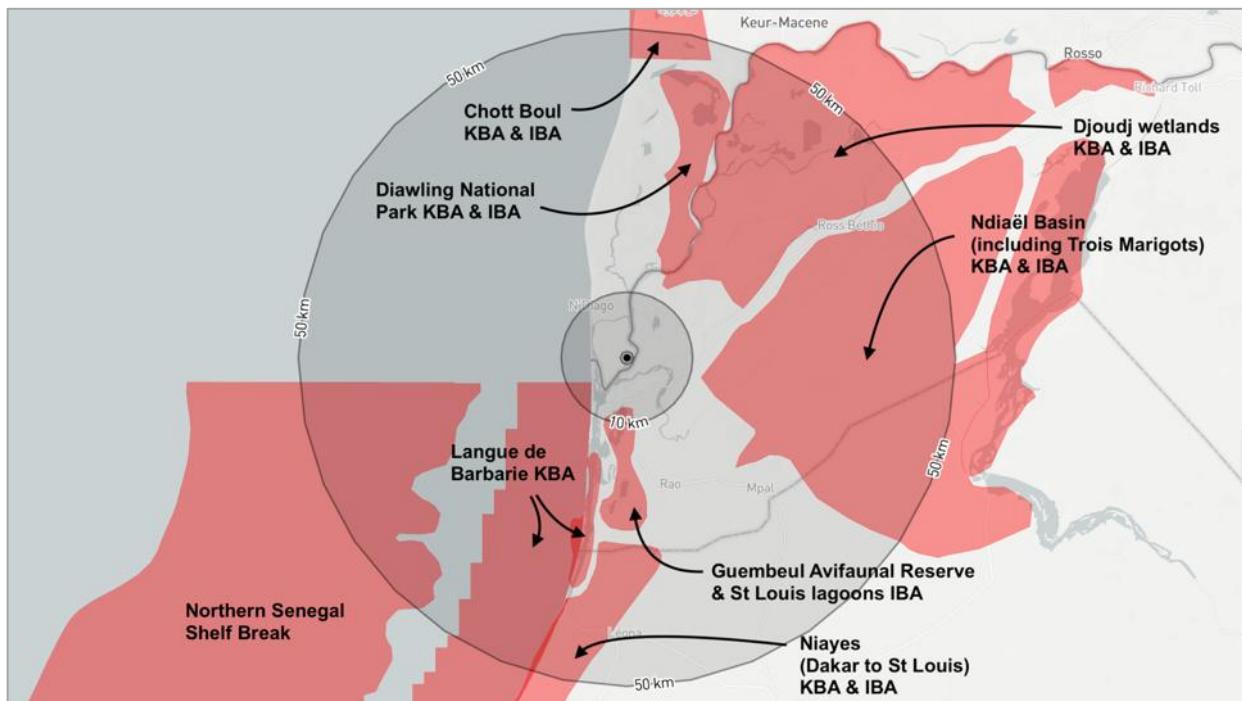


Figure 8 Key Biodiversity Areas within a 50 km buffer of the southern edge of Mauritania



5.1 Legally Protected Areas

Three legally protected areas are listed in Table 2, and described below, in order from north to south.

Baie de l'Étoile AMP

Baie de l'Étoile AMP (Multiple Use Area) lies just north of Nouadhibou on Mauritania's Atlantic coast. It is undergoing designation as one of Mauritania's marine protected areas to regulate coastal development and manage ecological resources sustainably. The bay includes coastal lagoons, tidal flats, submerged marshes, and seagrass beds. Its marine waters host dense benthic communities, especially tanaids and isopods, which dominate faunal abundance, and support diverse fish, crustacean, and mollusk populations. The bay functions as a dynamic interface between ocean and land, influenced by tidal flows, nutrient upwellings, and coastal processes. Ecologically, Baie de l'Étoile is a nascent marine conservation zone aiming to balance multiple uses, including fisheries, aquaculture, navigation, and conservation. It is valued for its potential to support waterbird foraging, nursery habitats, and coastal biodiversity in a region otherwise characterized by arid desert coastlines. The AMP designation reflects Mauritania's commitment to safeguarding coastal ecosystems while maintaining sustainable economic activities.

Banc d'Arguin National Park

This park is recognized as a global hotspot for bird conservation and marine biodiversity and is one of the most important coastal protected areas in West Africa. Established in 1976, it covers over 12,000 km² of shallow waters, mudflats, sandbanks, and islands along the Atlantic coast. The Park is designated as both a World Heritage Site and a Ramsar Wetland of International Importance. The Park provides critical habitat for vast numbers of migratory waterbirds on the East Atlantic Flyway, supporting one of the world's largest concentrations of wintering waders, including Dunlin, Bar-tailed Godwit, Grey Plover, Knot, and Curlew Sandpiper. It also holds significant breeding colonies of spoonbills, flamingos, pelicans, and cormorants. The park is recognized as an IBA based on important populations of 39 bird species, of which 24 are waterbirds (Appendix 2). This park is also recognized as a KBA for 22 bird species. The rich seagrass beds and shallow waters sustain large populations of fish and marine turtles. Banc d'Arguin combines exceptional biodiversity value with traditional human use, as local Imraguen fishers continue to practice sustainable fishing.

Diawling National Park

This park was established in 1991 to restore and conserve the degraded floodplains of the Mauritanian Senegal River delta. It is located in south-west Mauritania on the border with Senegal, covering 16,000 ha of wetlands, and more than 200,000 ha including its buffer and peripheral zones. The Park was designated a Ramsar Site in 1994 and, since 2005, has been part

of the Transboundary Biosphere Reserve of the Senegal River delta, forming a single ecological unit with Djoudj National Park, Langue de Barbarie National Park, and Gueumbeul Reserve in Senegal. Its habitats include lagoons, intertidal zones, mangroves, saline flats, dunes, and alluvial plains, sustained by managed inflows from OMVS hydraulic works. The Park provides critical habitat for migratory waterbirds on the East Atlantic Flyway, including large populations of pelicans, flamingos, storks, herons, and cranes. The park is recognized as an IBA based on important populations of 32 bird species, of which 16 are waterbirds (Appendix 2). This park is also recognized as a KBA for 15 bird species, with many overlapping the IBA criteria. Vegetation ranges from Acacia and Balanites on dunes to halophytes and grasses on floodplains. Diawling is one of West Africa's most important wetland protected areas, safeguarding biodiversity while supporting sustainable local livelihoods.

5.2 Internationally Recognized Areas of High Biodiversity Value

Many internationally recognized areas of high biodiversity value exist within Mauritania (Table 2, Figure 6, Figure 7 and Figure 8), of which several overlap protected areas described above. Four areas do not overlap and are described below, in order from north to south.

Dakhla IBA

Dakhla IBA encompasses the Cintra Bay / Dakhla Peninsula region in coastal Western Sahara. The site includes mudflats, tidal flats, shallow bay waters, and intertidal zones that form critical feeding and roosting habitat along the East Atlantic Flyway. This IBA is recognized for important populations of 16 bird species, and recognized as a KBA for the same bird species. Four of these are waterbirds (Appendix 2). It supports large congregations of migratory waders and shorebirds, such as Greater Flamingo, as well as diverse waterbird species during passage and wintering periods. The bay's productivity is enhanced by nearby upwelling waters and nutrient-rich currents, which sustain abundant marine life and attract birds in high numbers. Onshore, the peninsula is characterized by dunes with sparse arid vegetation and minimal terrestrial cover. The juxtaposition of desert landforms with rich intertidal zones gives Dakhla IBA its ecological importance. Because of its high usage by migrating waterbirds and its position in a largely undeveloped coastal corridor, Dakhla stands as a key site for bird conservation, especially as a vital stopover for species traversing the Atlantic coast of Africa.

Canary Current Shelf-break (North) KBA

Canary Current Shelf-Break (North) IBA extends along the offshore shelf-break waters north of Mauritania and southern Western Sahara, at depths roughly between 50 and 1,000 m. This marine zone lies within the productive waters of the Canary Current, benefiting from upwelling and oceanic nutrient mixing. The site functions as a key pelagic marine habitat, hosting abundant seabirds, of which eight are recognized as being significantly important seabird populations

(Appendix 2), including species such as Sooty Shearwater, Wilson's Storm-petrel, Cape Gannet, and various petrels and shearwaters that forage over deep ocean waters. Large marine predators (dolphins and tuna fish) also frequent the area, enhancing its faunal richness. Because of its offshore position and ecological productivity, the IBA plays a crucial role in supporting marine bird migration and foraging, acting as a pelagic refuge in an ocean of limited habitat. Its conservation importance lies in maintaining open ocean bird populations and marine biodiversity connectivity, especially for highly mobile, deep-sea species along the East Atlantic Flyway.

Cap Blanc IBA

Cap Blanc (Ras Nouadhibou) IBA is located on a 60-km peninsula straddling Mauritania and Western Sahara, forming a prominent headland on the Atlantic coast. The site includes mudflats, rocky shores, dunes, and intertidal zones, which provide essential resting and feeding habitat for migratory seabirds and shorebirds moving along the East Atlantic Flyway. It supports significant populations of waterbirds, including Slender-billed Gull, Lesser Black-backed Gull, Sandwich Tern, and Black-headed Gull, with seasonal congregations of five species that meet IBA thresholds (Appendix 2). Cap Blanc is also globally notable as one of the last refuges of the endangered Mediterranean monk seal, with a breeding colony still persisting in its coastal caves. Vegetation is sparse, reflecting the harsh desert environment, but the peninsula serves as an ecological boundary between warm-temperate and subtropical marine flora. Onshore, habitats are dominated by arid desert features, while tidal flats and rocky exposures provide rich feeding areas for birds and marine life. Cap Blanc IBA thus combines critical value for migratory waterbirds with unique marine biodiversity, making it a priority site for conservation in Mauritania.

Aftout es Sâheli KBA and IBA

Aftout es Saheli IBA lies just south of Nouakchott, encompassing coastal, lagoon and wetland terrains across approximately 58,000 ha. It includes dunes, sebkhas (salt flats), temporary water bodies, and flooded depressions, forming a mosaic of habitats between the ocean and inland zones. This expansive wetland system is a vital stopover and wintering area for migratory waterbirds along the East Atlantic Flyway, hosting significant populations of species such as terns, waders, herons, gulls, and shorebirds. The site meets IBA criteria for significant non-breeding congregations of bird species (Appendix 2). As an unprotected but recognized IBA, Aftout es Saheli underscores the importance of landscapes outside formal reserves in conserving biodiversity. The IBA plays a strategic role in maintaining habitat connectivity between coastal dunes, lagoons, and freshwater depressions, supporting both resident and migratory fauna in a semi-arid environment.

Chat Boul Ramsar Wetland

Chott Boul is a coastal wetland located approximately 175 km south of Nouakchott and 70 km north of the Senegal River mouth, covering around 8,000 ha. This site represents a former estuary of the Senegal River now isolated from direct river flow. Seasonally, Chott Boul may be inundated by Atlantic storm surges, with occasional managed overflow when upstream dams are opened. The landscape is dominated by intertidal flats, mudflats, shallow lagoons, and saline depressions. Vegetation is sparse and halophytic, favoring salt-tolerant shrubs and grasses. Chott Boul is internationally recognized for its importance to waterbird congregations on the East Atlantic Flyway, especially flamingos. In years when water levels are favorable, it supports large nesting colonies of Greater Flamingo. It is also the only known site in West Africa to host breeding attempts of Lesser Flamingo. Due to its strategic position and function as a seasonal wetland in an arid coastal setting, Chott Boul IBA is a critical balance between marine influence and inland ecological dynamics, contributing uniquely to Mauritania's network of wetland refuges. This Ramsar site is recognized as an IBA based on important populations of 4 bird species (Appendix 2). This park is also recognized as a KBA for 15 bird species, with many overlapping the IBA criteria.

5.3 Conclusion regarding Protected Areas

Several nationally designated and internationally recognized protected areas occur along the Mauritanian coast, many of which are of global significance for migratory birds and marine fauna. Terrestrial fauna are generally not referenced, and available descriptions of flora highlight their sparse distribution rather than diversity or endemism. The outstanding importance of this coastline for migratory birds forms a central element in the critical habitat assessment presented in Section 6.

6 CRITICAL HABITAT ASSESSMENT

6.1 Method for Critical Habitat Assessment

ESS6 recognizes areas supporting biodiversity of exceptional value as critical habitat. Critical habitat is defined by any of the following five criteria provided in ESS6 (paragraph 23):

- (a) Habitat of significant importance to Critically Endangered or Endangered species, as listed in the IUCN Red List of Threatened Species or equivalent national approaches;
- (b) Habitat of significant importance to endemic or restricted-range species;
- (c) Habitat supporting globally or nationally significant concentrations of migratory or congregatory species;
- (d) Highly threatened or unique ecosystems;

(e) Ecological functions or characteristics that are needed to maintain the viability of the biodiversity values described above in (a) to (d).

The Critical Habitat Assessment (CHA) approach used for interpretation of the above criteria follows an ESS6-specific method developed in 2022 and has been applied in South Asia, East Asia, the Pacific and various Africa Regions of the World Bank. The CHA is applied to an area, which for this assessment will be the Area of Analysis (AoA) described in Section 3. The CHA approach is presented as the following four steps:

Step 1 - Generate a List of Threatened and Range-restricted Species

Criteria (a) and (c) require at least two key data sources, namely the global IUCN Red List and a national red list, which are supplemented from other sources as appropriate. Lists of species classified as CR or EN has been compiled primarily from the IUCN Red List of Threatened Species (provided by IBAT), with reference to national red list data for land mammals in Mauritania (Brito *et al.* 2022), provided in Appendix 5 for future reference purpose.

Step 2 - Screening based on Likelihood of Occurrence

The list of species generated by Step 1 were screened for Likelihood of Occurrence (LoO) based on primary data quoted in the ESIS and ESIA and the ecological state of habitats within the AoA. Species are classified into LoO categories, namely Present, Possible, Unlikely and Not Present (Appendix 1). Species present or with a possible presence are assessed in Step 3 below.

Step 3 - Determination of Critical Habitat Status

Reliable secondary data on a species' population size, extent of occurrence, other relevant information and expert opinion are used to assess species retained after Step 2. The following six guidelines are used for the interpretation and analysis of critical habitat:

- (i) Recognized areas of high biodiversity value (such as legally protected and internationally recognized areas), and importantly the reasons for which they are designated can provide useful indicators of potential critical habitat. The review of protected areas is therefore included as a preparatory step for the assessment of critical habitat.
- (ii) ESS6 Criterion (a) requires an assessment against both global (IUCN) and national red list ratings. ESS6 footnote 13 states that where the threatened status of a species is listed differently on the (global) IUCN Red List and national/regional lists, assessment of the impact of net reduction should be based on the national/regional population. This is interpreted as a requirement to follow a precautionary approach and to prioritize assessment of species reduction (project impact) to the lesser population of a species (i.e. the national assessment) over the global assessment.

- (iii) By definition, Critically Endangered (CR) species face an extremely high risk of extinction and their continued survival in the wild is in a critical state. Therefore, if a surviving population of a CR species is present in the AoA, the habitat should be considered to have significant importance for the species under ESS6 Criterion (a).
- (iv) Where a significant proportion of the national, regional or global population of a species is present or has a likely presence within the AoA, the habitat is considered to have significant importance for the species under ESS6 Criterion (a), (b) or (c). Each project is encouraged to develop its own measurement of significance. For this CHA, the presence (or likely presence) of $\pm 1\%$ of the global or national population within the AoA is considered an appropriate level of significance considering the extent of the Project AoA.
- (v) ESS6 Criterion (b) can additionally be achieved for range-restricted species where the full extent of the AoA overlaps a significant proportion of a species' distribution range ($\pm 1\%$ is considered an appropriate level of significance for this CHA). For terrestrial species, restricted range status is recognized for an Extent of Occurrence (EoO) of approx. 50,000 km².
- (vi) ESS6 Criteria (d) and (e) must be assessed on a case-by-case basis using reliable data sources with consideration given to the presence of conservation initiatives, legally protected areas and internationally recognized areas of high biodiversity value and the reasons for which they are designated.

Step 4 - Identify Critical Habitat Features of Relevance to the Project

This final step of the CHA assesses the relevance of critical habitat features to the Project. ESS6 requires the project's mitigation strategy to achieve net gains of the biodiversity values for which a critical habitat is designated. Those features that are not impacted by a project do not present a risk that the project will fail to meet ESS6 requirements. For critical habitat features that are potentially impacted, the CHA needs to demonstrate how net gain requirements will be addressed, and feasibility thereof needs to be investigated. ESS6 also requires an appropriately designed, long-term biodiversity monitoring and evaluation program aimed at assessing the status of the critical habitat, and effectiveness of mitigation to conserve those species. The emphasis of CHA should therefore be on Step 4.

6.2 Analysis of Data for Steps 1 & 2 of the CHA Approach

Lists of CR or EN species potentially present within each of the project areas have been extracted from IBAT reports, but no restricted range species are identified. National red list data is available for land mammals in Mauritania (Brito *et al.* 2022), provided in Appendix 5, although no CR or EN species within that list are likely to occur in any of the Project areas. Distribution maps are not

provided by Brito *et al.* (2022) and restricted range species cannot be determined from the national red list data, although none are expected.

Appendix 1 presents an annotated list for 68 CR or EN threatened species based on the IUCN Red List. These comprise three aquatic/marine mammals, seven birds, three reptiles and many marine fish species that are possibly present.

6.3 Analysis of Data for Step 3 of the CHA Approach

A determination of critical habitat is based on desktop assessment and is presented collectively for the project areas along the Mauritania coast. Important species are discussed below.

6.3.1 Criteria (a) - Analysis of CR and EN Species

Mammals

Blue Whale (*Balaenoptera musculus*), Sei Whale (*Balaenoptera borealis*) and Atlantic Humpback Dolphins (*Sousa teuszii*) potentially occur, but available data suggests these Cetaceans are rare off the Mauritania coast. iNaturalist provides maps of the Global Biodiversity Information Forum (GBIF) which reveals isolated records. The species have wide distributions and the Mauritania coastal waters are unlikely provide habitat of significant importance for them.

The African Manatee (*Trichechus senegalensis*) is listed as Vulnerable (VU) on the IUCN Red List but is considered an EN species on many national red lists. Unfortunately Brito *et al.* (2022) only provide assessments for land mammals and Manatees are not included. The Senegal River is the northern limit of the Manatees range, and they are known to occur in the downstream reaches of the river. However, construction of the Diama Dam in 1986 has extirpated Manatees from Diawling National Park although they are expected within the AoA. Hippo (*Hippopotamus amphibius*), listed as CR by Brito *et al* (2022) suffered the same fate.

The Mauritania coast is not an important habitat for large land mammals, and data suggests that African Manatees may be the only mammal with the potential to qualify the recognition of critical habitat there.

Birds

Six vultures and Martial Eagle (*Polemaetus bellicosus*) are listed in Appendix 1 with a Possible LoO. These birds (with the exception of Egyptian Vulture) reach the northern limits of their distribution close to the Mauritania-Senegal border but eBird data suggests a likely occurrence in Diawling National Park. Egyptian Vulture (*Neophron percnopterus*) occur throughout North Africa, but eBird data is sparse for Mauritania which suggests they are scarce. None of these

birds are expected to qualify as critical habitat features. Data suggest the Mauritania coast does not support significantly important habitat for CR and EN bird species.

Reptiles

Hama *et al.* (2017) provide an assessment of sea turtle activity along the Mauritania coast, which reveals that Green Turtle (*Chelonia mydas*) and Loggerhead Turtle (*Caretta caretta*) are the dominant species nesting on the beaches, particularly associated with the Aftout es Sâheli KBA, south of Nouakchott City. Hawksbill Turtle (*Eretmochelys imbricata*), which are critically endangered, forage in significant numbers along the northern coast, particularly associated with Banc d'Arguin National Park. Population data on sea turtles is not available from the IUCN Red List, or other sources to test the significance of local populations, but Green and Hawksbill Turtles should be considered critical habitat qualifying species in areas where breeding activity occurs.

The African Spurred Tortoise potentially occurs in southern Mauritania. This is the World's third largest tortoise with a body mass up to 100 kg. The species occurs along the southern rim of the Sahara extending from Mauritania/Senegal across to Eritrea on the East coast of Africa. Populations have declined rapidly across its range due to agricultural expansion, livestock overgrazing, burning, and exploitation through collection of eggs and consumption of their meat. No population data is available, but the African Chelonian Institute estimates the wild population of African Spurred Tortoises in Senegal is 'at most' 150 individuals (Voice of Africa, 2022). Reintroduction programs for this tortoise are being implemented there which have achieved a survival rates up to 80% (Wikipedia). This tortoise should be considered a critical habitat feature, although it would not be impacted by the proposed projects.

Marine Fish

Appendix 1 lists 16 CR and EN fish species that are likely to occur off the Mauritania coast, however all of these species are wide-ranging, many with continental-wide or greater distributions. It is challenging to test the significance of marine habitats for specific species, however the Mauritanian coastal waters are documented to be important for marine biodiversity. This is due to several interlinked ecological and oceanographic factors, which collectively make Mauritania's coast a vital fisheries resource, not only for national food security and livelihoods but also for sustaining fish stocks across the broader western African marine ecosystem. Some of the important factors are:

- The Canary Current upwelling system brings nutrient-rich waters from the deep ocean to the shelf, supporting high primary productivity and food chains that sustain abundant fish populations.

- The shelf break, coastal lagoons, estuaries, and mangrove habitats provide essential nursery, feeding, and refuge zones for juvenile fish and commercially important species.
- The long coastal gradient from temperate to tropical zones allows both warm-water and more temperate marine species to coexist in Mauritania's waters.
- Finally, the coastline's relatively undeveloped status, compared with other regions, helps maintain habitat continuity and less fragmented ecosystems, allowing fish populations to thrive.

6.3.2 Criterion (b) - Analysis of Range-Restricted Species

No range restricted species are assessed for this study.

6.3.3 Criterion (c) - Analysis of Migratory and Congregatory Species

Birds are the taxonomic group most frequently triggering Criterion (c), and the Mauritanian coast supports an exceptionally rich diversity of migratory species, as evidenced by the numerous IBAs designated there. A review of IBA qualifying data reveals significant populations have been recorded for 96 bird species (see Appendix 2 and Appendix 4).

The Wetlands International WPE (Waterbirds Population Estimates) database identifies the regional flyways used by each species and provides estimates of population sizes within each flyway. Appendix 3 summarizes the relevant WPE data, including regional flyways, total population sizes, and 1% thresholds, while Appendix 2 compares the IBA population counts with those thresholds. The 1% threshold applied by Wetlands International to demonstrate international importance corresponds to the approx. 1% threshold used in this report to identify habitat of significant importance to qualify critical habitat for a species (Step 3(iv) - Section 6.1).

At least 105 bird populations occurring along the Mauritanian coast exceed the 1% thresholds of their regional flyway population, thereby qualifying as critical habitat features (Appendix 2). Of these, 13 populations represent more than 50% of their entire regional flyway populations, and an additional 10 populations exceed 20%. These results are extraordinary and underscore the global significance of the Mauritanian coastline for migratory waterbirds and its vital contribution to international flyway and wetland conservation efforts.

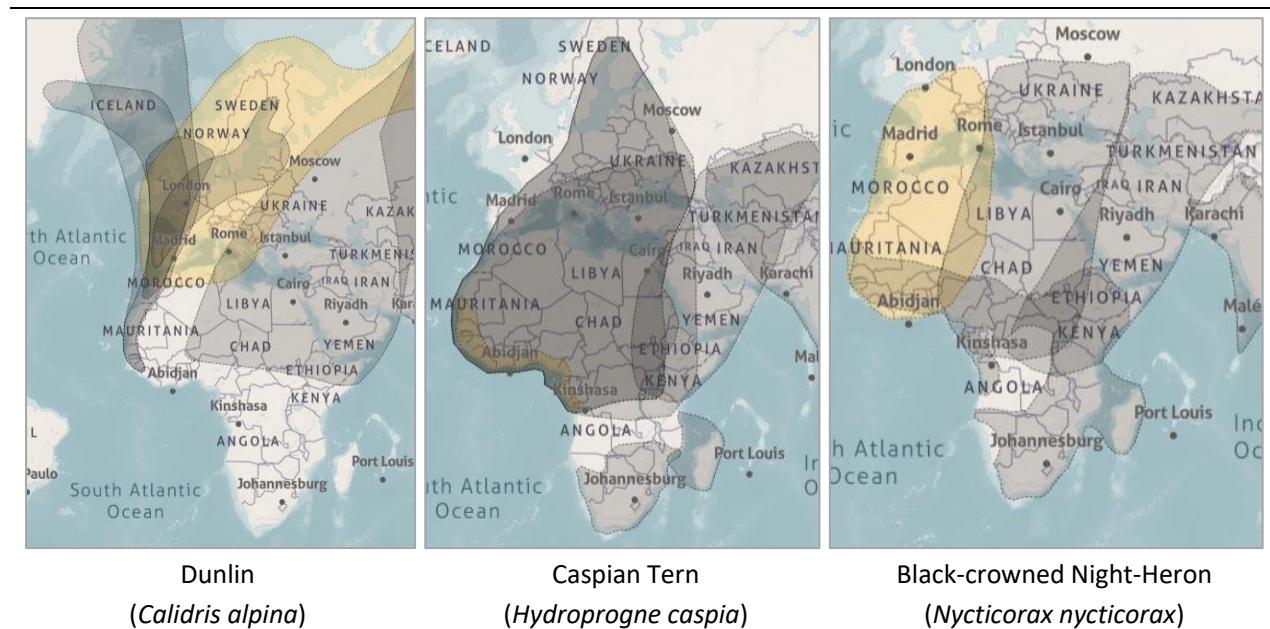
The exceptional importance of this region is attributed to several factors:

- The Mauritanian coast forms a vital link along the East Atlantic Flyway, used by millions of migratory birds.
- Its extensive wetlands, mudflats, lagoons, and shallow coastal waters, notably within Banc d'Arguin National Park, Aftout es Sâheli, and Diawling National Park, provide essential

feeding, resting, and breeding habitats for birds migrating between the Arctic, Europe, and sub-Saharan Africa.

- Its high marine productivity, driven by the Canary Current upwelling, sustains vast populations of invertebrates and fish that in turn support large flocks of waders, gulls, terns, and pelicans.
- The coast lies within a zone of flyway convergence for several species, such as Dunlin, Caspian Tern, and Black-crowned Night-Heron (Figure 9).

Figure 9 Three waterbird species showing their regional flyways that converge on the coast of West Africa



6.3.4 Criteria (d) and (e) - Unique Ecosystems and Supporting Ecological Functions

Bird migrations are an important ecological function and the global significance of the Mauritania coast for supporting the many bird migrations could qualify under both Criteria (d) and (e). The IBA sites listed in Appendix 2 are important, but detailed assessment of congregation sites is needed to highlight the specific sites of importance.

6.4 Step 4 Assessment of Net Gain Requirements

ESS6 requires Net Gain measures to be demonstrated for critical habitat features where projects cause adverse residual impacts. The CHA method requires an analysis of net gain options, and an assurance that implementation of proposed options is feasible. Project impacts to sensitive biodiversity are considered for the Nouadhibou Boat Parking and Nouakchott Dune Rehabilitation sub-projects.

6.4.1 Impacts to Critical Habitat Features

Nouadhibou Boat Parking

The Nouadhibou site is within the small town, which is not expected to serve as a critical migratory bird stopover site, or a beach of importance for sea turtle nesting. The ESIS prepared for this project does not mention the importance of any biodiversity features. No significant impacts to critical habitat features are therefore expected.

Nouakchott Dune Rehabilitation

The Nouakchott Dune Rehabilitation is located on the city edge, and the affected areas are expected to be predominantly modified habitats (Section 4.1.2). The ESIA provides data on the presence of migratory waterbirds onsite (Table 3) but does not provide details on their abundance, which is needed to confirm their qualification as critical habitat. These migratory birds are present during the winter non-breeding season, during which time they are not site-specific and typically display flexible, wide-ranging behavior. Their presence along the beaches is therefore unpredictable. Some disturbance along the coast may occur during extraction of material from the borrow areas and building of dune formations. These birds are highly mobile and they are able to avoid localized disturbances by foraging elsewhere along the coast.

Table 3 Migratory waterbirds recorded within the Nouakchott Dune Rehabilitation site during ESIA baseline studies

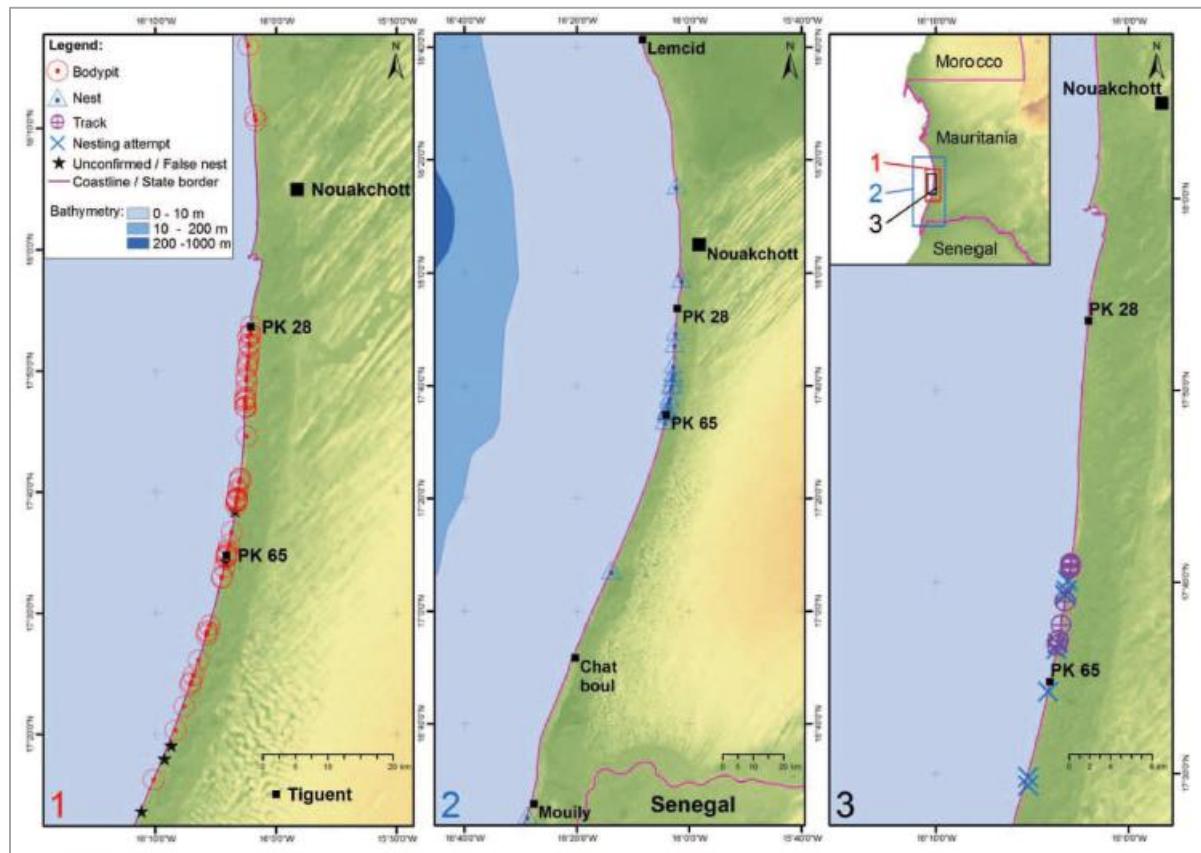
| Migratory Waterbird species | 1% of regional flyway exceeded | Critical Habitat |
|---|---|-------------------------|
| Caspian Tern (<i>Hydroprogne caspia</i>) | Aftout es Sâheli IBA, Banc d'Arguin Nat. Park, Cap Blanc IBA, Diawling National Park | Likely |
| Red Knot (<i>Calidris canutus</i>) | Banc d'Arguin National Park | Potentially |
| Sanderling (<i>Calidris alba</i>) | Banc d'Arguin National Park | Potentially |
| Northern Gannet (<i>Morus bassanus</i>) | Banc d'Arguin National Park | Potentially |

Hama et al. (2018) provide maps of sea turtle nesting activity in the vicinity of Nouakchott (Figure 10) which suggest that they avoid nesting on beaches in the vicinity of the city. However, sea turtles do not have the high mobility enjoyed by birds, and if nesting activity does occur, the potential impact is far greater.

The likelihood of impacts to migratory waterbirds is high but the severity of the impact is low. Whereas for se turtles, the likelihood of impacts is low, but the potential severity could be higher.

Both sea turtles and migratory birds have access to vast undisturbed beaches north and south of Nouakchott and the significance of impacts to populations of these species is considered to be low. Impacts must however be mitigated.

Figure 10 Observed evidence of sea turtle nesting activity along the southern Mauritania coast, source: Hama et al. (2018)



The Nouakchott Dune Rehabilitation ESIA requires the following measures:

- Demarcate the work and access areas to limit these to the minimum required footprint;
- Phase the works to allow wildlife enough opportunity to escape without noise disturbance;
- Monitor the presence of exceptional concentrations of waterbirds linked to the East-Atlantic migration corridor (peaks observed between December and March), in active work areas particularly for Zone 3, which has the borrow area close to the beach habitat;
- Turn off machinery when not in use (including trucks and light vehicles);
- Carry out ecological monitoring during and after the works to study the impact on the birdlife and possibly other species in the area.

The above measures will be effective to reduce the significance of impacts, although the following additional measures can improve their effectiveness:

- Local ecologists must be employed to conduct early morning patrols along the beaches to search for turtle nesting activity. Patrols must begin three months prior to the start of construction and continue until the works are completed.
 - If any turtle nests are detected, the eggs must be translocated to predesignated safe beach habitats where they will receive protection. Protocols are established for translocating turtle nests and Hama et al. (2018) explain this has been successfully achieved in Mauritania.
- During construction works, ecologists must watch for the presence of migratory waterbird behavior along the beaches. Thresholds must be established, and if exceeded by numbers of birds, then construction works in the vicinity should be delayed for a week.
 - A threshold of 1000 waterbirds (collectively regardless of species) per 1 km length of beach is proposed, but should be refined based on prior monitoring of the habitat.

Residual Impact and Need for Additional Net Gain Measures

The presence of migratory waterbirds and sea turtle nesting is unpredictable, although measures to minimize impacts are easily implemented and are likely to be effective. However there is no certainty that impacts can be fully mitigated. Also monitoring the adverse effect of construction impacts will be challenging to assess.

The following measures are proposed as net gain actions:

- Provide support to local conservation organizations to monitor and protect sea turtles along the broader Nouakchott coast.
- The beaches must be cleaned of plastic waste and potential hazards to birds and sea turtles, such as discarded fishing gear.
- Rehabilitation of natural beach habitats, such as Mangroves, in the vicinity of Nouakchott can also be considered.
- Monitoring the presence of migratory birds and evidence of sea turtle nesting behavior can provide data that can demonstrate the effectiveness of the measures proposed in the ESIA, the additional measures and net gain actions.

These net gain measures need to be scoped and appropriate budgets allocated, but can be easily implemented.

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8 APPENDICES

The following Appendix is included:

Appendix 1 Critically Endangered (CR) and Endangered (EN) Species identified by IBAT

Appendix 2 Comparison of Waterbird Populations against Regional Flyway Thresholds for Important Bird Areas along the Mauritanian Coast

Appendix 3 Regional Flyway Data used to assess Population Significance of Waterbirds

Appendix 4 Non-waterbird species that qualify the Key Biodiversity Areas (KBAs) and Important Bird Areas (IBAs) along the Mauritania coast

Appendix 5 Mauritania National Red List for Land Mammals (Brito *et al.* 2022)

Appendix 1 Critically Endangered (CR) and Endangered (EN) Species identified by IBAT

Notes for interpretation of this appendix:

- Results in the following table present the outcome of Step 2 of the Critical Habitat Assessment against ESS6 criteria (a) for CR and EN species.
- Threatened Status acronyms: IUCN refers to the IUCN red List of Threatened Species; CR - Critically Endangered; EN – Endangered; VU - Vulnerable, NT - Near-threatened; DD - Data Deficient; LC - Least Concerned; NE (or blank) - Not Evaluated.
- Other acronyms: AoA – Area of Analysis, OoR – Out of Range.

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|--|----------------|---------------------------------------|---|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| Mammals | | | | | | | |
| Sei Whale (<i>Balaenoptera borealis</i>) | EN | Possible but rare | GBIF shows isolated records off the Mauritania coast | Yes | Yes | Yes | Yes |
| Blue Whale (<i>Balaenoptera musculus</i>) | EN | Possible | Atlantic Ocean offshore of Mauritania classified as Secondary Range (International Whale Commission). GBIF and iNaturalist show isolated records off the Mauritania coast | Yes | Yes | Yes | Yes |
| Atlantic Humpback Dolphin (<i>Sousa teuszii</i>) | CR | Possible but rare | GBIF shows isolated records off the Mauritania coast | Yes | Yes | Yes | Yes |
| African Manatee (<i>Trichechus senegalensis</i>) | VU | Present - Senegal River & Diawling NP | Predominantly estuarine species but does venture along the coast and migrates up large rivers. Senegal River is the northern limit of its distribution. | | | | Yes |
| Birds | | | | | | | |
| Egyptian Vulture (<i>Neophron percnopterus</i>) | EN | Possible | Possible but rare in Nouadhibou, Noukachott and Diawling NP area (eBird, iNaturalist) | Yes | Yes | Yes | Yes |
| Hooded Vulture (<i>Necrosyrtes monachus</i>) | CR | Possible in | Present in Diawling NP area (eBird, iNaturalist) | | | Yes | Yes |
| White-backed Vulture (<i>Gyps africanus</i>) | CR | Possible in Diawling NP | Present in Diawling NP area (eBird, iNaturalist) | | | | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|---|----------------|----------------------------|--|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| Rüppell's Vulture (<i>Gyps rueppelli</i>) | CR | Possible | Marginally present in Diawling NP (eBird) | | | Yes | Yes |
| Lappet-faced Vulture (<i>Torgos tracheliotos</i>) | EN | Possible in Diawling NP | Possible in Diawling NP area (eBird, iNaturalist) | | | Yes | Yes |
| White-headed Vulture (<i>Trigonoceps occipitalis</i>) | CR | Possible in Diawling NP | Possible in Diawling NP area (eBird, iNaturalist) | | | | Yes |
| Bateleur (<i>Terathopius ecaudatus</i>) | EN | Not present | eBird data does not show presence in Mauritania | | | | Yes |
| Martial Eagle (<i>Polemaetus bellicosus</i>) | EN | Possible in Diawling NP | Present, but rare in the southern limits (eBird, iNaturalist) | | | | Yes |
| Saker Falcon (<i>Falco cherrug</i>) | EN | Not present | Possible as a non-breeding migrant, but eBird data not showing presence in Mauritania | Yes | Yes | Yes | |
| Northern Bald Ibis (<i>Geronticus eremita</i>) | EN | Not present | IUCN status listed as 'Presence uncertain'. eBird data not showing presence in Mauritania | Yes | Yes | Yes | |
| Zino's Petrel (<i>Pterodroma madeira</i>) | EN | Not present | Not recorded in West Africa | Yes | Yes | Yes | Yes |
| Reptiles | | | | | | | |
| Green Turtle (<i>Chelonia mydas</i>) | EN | Likely | Nests along the Mauritania Coast, particularly along the Aftout es Sâheli KBA and Chat Boul Ramsar Site coasts (Hama & Dyc. 2018). Nesting activity has increased in recent years. | Yes | Yes | Yes | Yes |
| Hawksbill Turtle (<i>Eretmochelys imbricata</i>) | CR | Likely | Known to forage and nest in Mauritania, with significant numbers foraging along the coast of Banc d' Arguin Nat. Park. | Yes | Yes | Yes | Yes |
| African Spurred Tortoise (<i>Centrochelys sulcata</i>) | EN | Possible in Diawling NP | One of the largest terrestrial tortoises in the world (up to 100 kg). No specific habitat preference but frequently near ephemeral streams. Senegal River at northern limits of its recorded range. | | | | Yes |
| Marine Fish | | | | | | | |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|--|----------------|----------------------------|--|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| Dusky Shark (<i>Carcharhinus obscurus</i>) | EN | Possible | Coastal and pelagic throughout its range, where it occurs from the surf zone to well offshore. GBIF shows records along Banc d'Arguin Nat Park coast. | Yes | Yes | Yes | Yes |
| Sand Tiger Shark (<i>Carcharias taurus</i>) | CR | Unlikely but Widespread | Demersal and pelagic in tropical and temperate seas on the continental shelf from the surf zone to a depth of 232 m, with near global distribution (IUCN Red List). No GBIF records exist off the Mauritania coast. | Yes | Yes | Yes | Yes |
| Basking Shark (<i>Cetorhinus maximus</i>) | EN | Unlikely but Widespread | A very big planktivorous coastal-pelagic species. No GBIF records exist around the bulge of West Africa | Yes | Yes | Yes | Yes |
| Smalltooth Sawfish (<i>Pristis pectinata</i>) | CR | Not present | Restricted to the Atlantic Ocean but potentially viable populations only exist in the southeast United States, Mexico, Bahamas, and Cuba (IUCN Red List). | Yes | Yes | Yes | Yes |
| Whale Shark (<i>Rhincodon typus</i>) | EN | Unlikely but widespread | Found in both coastal and oceanic habitats. Oceanic sightings are strongly correlated with temperature in the Indian and Atlantic oceans, a circumtropical distribution through all tropical and warm temperate seas, apart from the Mediterranean (IUCN Red List). No GBIF records exist around the bulge of West Africa. | Yes | Yes | Yes | Yes |
| Angelshark (<i>Squatina squatina</i>) | CR | Not present | Northern Mauritania coast is marginally within its distribution, with presence indicated as "uncertain". No GBIF records for Mauritania or Western Sahara. | Yes | | | |
| Shortfin Mako (<i>Isurus oxyrinchus</i>) | EN | Possible but rare | Pelagic species with a circumtropical distribution through all tropical and warm temperate seas, apart from the Mediterranean (IUCN Red List). GBIF indicates records off Banc d'Arguin Nat. Park coast. | Yes | Yes | Yes | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|--|----------------|-------------------------------|--|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| Tope/School Shark (<i>Galeorhinus galeus</i>) | CR | Unlikely | A benthopelagic in temperate waters on continental and insular shelves, widely distributed in cold to warm temperate waters of most oceans. No GBIF records off North Africa coast | Yes | Yes | Yes | Yes |
| Common Smoothhound (<i>Mustelus mustelus</i>) | EN | Possible but rare | Occurs on sandy and muddy substrates on the continental shelf and slope at depths of 5–438 m, but is more commonly found in shallow waters from 5–50 m, in the east Atlantic Ocean, including the Mediterranean Sea (IUCN Red List). GBIF indicates isolated records off Mauritania coast | Yes | Yes | Yes | Yes |
| Oceanic Whitetip Shark (<i>Carcharhinus longimanus</i>) | CR | Not present | It is an oceanic-epipelagic shark usually found far offshore in the open sea, that occurs worldwide in tropical and temperate waters (IUCN Red List). No GBIF records off North Afr. Coast. | Yes | Yes | Yes | Yes |
| Scalloped Hammerhead (<i>Sphyrna lewini</i>) | CR | Possible but widespread | A coastal and semi-oceanic pelagic shark, found in continental and insular shelves, and nearby deep water, ranging from the intertidal and surface usually to 275 m depth (IUCN Red List). Occurs worldwide in tropical and temperate waters (IUCN Red List). Few isolated GBIF records off the Mauritania coast | Yes | Yes | Yes | Yes |
| Great Hammerhead (<i>Sphyrna mokarran</i>) | CR | Possible, rare but widespread | A solitary, coastal and semi-oceanic pelagic shark, that occurs close inshore and well offshore at depths ranging from near-surface to 300 m deep. Occurs worldwide in tropical and temperate waters (IUCN Red List). Single and very isolated GBIF record exists from Nouadhibou. | Yes | Yes | Yes | Yes |
| Porcupine Ray (<i>Urogymnus asperimus</i>) | EN | Not present | Demersal on soft substrates and is mainly inshore and coastal to a depth of 130 m, but biology poorly-known due to rarity. Isolated distribution | Yes | Yes | Yes | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|---|----------------|-------------------------|---|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| | | | indicated on IUCN Red List, but not recognized on GBIF. | | | | |
| Little Gulper Shark (<i>Centrophorus uyato</i>) | EN | Possible but widespread | Demersal on continental and insular shelves and slopes at depths of 210–1,400 m, and mostly between 400–800 m, with a widespread, yet patchy, global distribution in the Mediterranean Sea, Atlantic and Indo-Pacific Oceans (IUCN Red List). Few GBIF records indicated on continental shelf off Mauritania. | | | | Yes |
| Bramble Shark (<i>Echinorhinus brucus</i>) | EN | Unlikely | Occurs on or near the bottom of outer continental and insular shelves and slopes at depths of 10–900 m (IUCN Red List). Single GBIF record off Mauritania coast. | Yes | Yes | Yes | Yes |
| Leafscale Gulper Shark (<i>Centrophorus squamosus</i>) | EN | Unlikely but Widespread | Demersal and pelagic on continental and insular shelves and slopes to the abyss to depths of 3,366 m, mostly at depths >200 m (IUCN Red List). Scattered GBIF records off the continental shelf of Mauritania. | Yes | Yes | Yes | Yes |
| Duckbill Eagle Ray (<i>Aetomylaeus bovinus</i>) | CR | Possible but widespread | Demersal and semi-pelagic in estuaries, lagoons, and on the continental shelf to a depth of 150 m. Occurs around southern Europa and most of the West, South and East Africa coast (IUCN Red List). Several records off the northern Mauritania coast. | Yes | Yes | Yes | Yes |
| African Wedgefish (<i>Rhynchobatus luebberti</i>) | CR | Unlikely | Occurs from close inshore to depths of at least 35 m on the continental shelf, in the eastern Atlantic from Senegal to the Democratic Republic of the Congo and Angola (IUCN Red List). | Yes | Yes | Yes | Yes |
| Sicklefin Devil Ray (<i>Mobula tarapacana</i>) | EN | Not Present | Primarily oceanic, but is also found in coastal waters, and appears to be a seasonal visitor along productive coastlines with regular upwelling in oceanic island groups, and near offshore pinnacles | Yes | Yes | Yes | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|--|----------------|-------------------------|---|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| | | | and seamounts. Uncertain distribution off the West African coast (IUCN Red List). No GBIF records off Mauritania. | | | | |
| Bentfin Devil Ray (<i>Mobula thurstoni</i>) | EN | Not Present | Occurs in neritic and oceanic waters from the surface to depths of 100 m. Uncertain distribution off the West African coast (IUCN Red List). No GBIF records off Mauritania. | Yes | Yes | Yes | Yes |
| Night Shark (<i>Carcharhinus signatus</i>) | EN | Unlikely | Pelagic and semi-oceanic on the outer continental shelf to a depth of 600 m but mostly, specimens have been collected from 26–365 m, along coastal Central America with specimens collected in Senegal, Gabon, Ghana, and Ivory Coast (IUCN Red List). No GBIF records along the Mauritania coast. | | | | Yes |
| Longfin Mako (<i>Isurus paucus</i>) | EN | Not present | A poorly-known epi-, meso- and bathypelagic species found in tropical and warm-temperate seas, widespread in tropical and warm temperate waters, and likely occurs in all oceans, although its distribution is poorly recorded (IUCN Red List). No GBIF records off Mauritania. | Yes | Yes | Yes | Yes |
| European Eel (<i>Anguilla anguilla</i>) | CR | Not present | A freshwater eel in Europe that migrates to the ocean, but is seldom detected in the ocean habitat (IUCN Red List). Western Sahara coast is the southern limit of its range, with no GBIF records there. | Yes | Yes | | |
| White Skate (<i>Rostroraja alba</i>) | EN | Possible but widespread | Demersal on the continental shelf and slope at depths of 10–750 m, along the Eastern Atlantic Ocean, from the western and southern coasts of the British Isles south to South Africa it extends to the southwestern parts of the Indian Ocean, including Madagascar and the Seychelles archipelago (IUCN Red List). | Yes | Yes | Yes | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|---|----------------|----------------------------|---|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| Sawback Angelshark (<i>Squatina aculeata</i>) | CR | Not present | Occurs along the southern Mediterranean coastIndicated as Presence Uncertain along the Mauritania coast (IUCN Red List). Isolated GBIF record exists off the Mauritania coast. | Yes | Yes | Yes | Yes |
| Smoothback Angelshark (<i>Squatina oculata</i>) | CR | Not present | A warm-temperate and tropical demersal species that inhabits sandy-muddy habitat on continental shelves and upper slopes from 10 to 500 m, in the Mediterranean from France and Tunisia, and from Mauritania to Senegal. Uncertain occurrence of possibly extinct south/east of Ghana (IUCN Red List). | Yes | Yes | Yes | Yes |
| Common Guitarfish (<i>Rhinobatos rhinobatos</i>) | CR | Possible but widespread | Demersal across sandy, muddy, and shelly habitats, and occurs inshore on the continental shelf to a depth of 180 m, in the eastern Atlantic Ocean and Mediterranean Sea and occurs from the southern Bay of Biscay to Angola (IUCN Red List). Numerous GBIF records off the northern Mauritania coast. | Yes | Yes | Yes | Yes |
| Angular Roughshark (<i>Oxynotus centrina</i>) | EN | Not present | Demersal on the continental shelf and upper slope at depths of 35–805 m, found in the Northeast and Eastern Atlantic Ocean (from Norway to South Africa) and the Mediterranean Sea (IUCN Red List). Mauritania coast is OoR | Yes | Yes | Yes | Yes |
| Spiny Butterfly Ray (<i>Gymnura altavela</i>) | EN | Possible but widespread | Occurs in intertidal zone and shallow coastal waters to a depth of 150 m, but more typically in depths of less than 50 m, throughout the Atlantic Ocean and Mediterranean Sea and Black Sea, with a discontinuous range in the Americas (IUCN Red List). Numerous GBIF records off the northern Mauritania coast. | Yes | Yes | Yes | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|--|----------------|-------------------------|--|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| Whitespotted Guitarfish (<i>Rhinobatos albomaculatus</i>) | CR | Not present | Demersal in shallow coastal waters on the inner continental shelf to a depth of ~132 m, in the Eastern Central Atlantic and Southeast Atlantic and occurs from Mauritania (Parc National du Banc d'Arguin) to Angola (IUCN Red List). No GBIF records along the North Afr. coast. | Yes | Yes | Yes | Yes |
| Spineback Guitarfish (<i>Rhinobatos irvinei</i>) | CR | Not present | Demersal in shallow coastal waters on the inner-continental shelf to a depth of ~49 m, in the Eastern Central Atlantic and Southeast Atlantic and occurs from Morocco to Angola (IUCN Red List). No GBIF records along the North Afr. coast. | Yes | Yes | Yes | Yes |
| West African Torpedo (<i>Torpedo mackayana</i>) | EN | Not present | Demersal on sandy and muddy substrates, and found in the vicinity of estuaries, in shallow coastal waters at depths of 15–50 m, found in the Eastern Central Atlantic and Southeast Atlantic Oceans from Senegal to Angola (IUCN Red List). No GBIF records along the North Afr. coast. | | | | Yes |
| Lusitanian Cownose Ray (<i>Rhinoptera marginata</i>) | CR | Possible but widespread | Occurs inshore over sandy substrates in shallow bays, lagoons and estuaries, from nearshore to a depth of 100 m, in the eastern Atlantic Ocean and Mediterranean Sea and occurs from Portugal to northern Angola (IUCN Red List). Numerous GBIF records off the northern Mauritania coast. | Yes | Yes | Yes | Yes |
| Rosette Torpedo (<i>Torpedo bauchotae</i>) | EN | Not present | Demersal on sandy and muddy substrates in shallow coastal waters from inshore to a depth of 60 m, found in the Eastern Central Atlantic and Southeast Atlantic Oceans from Senegal to Angola (IUCN Red List). No GBIF records along the North Afr. coast. | | | | Yes |
| Common Eagle Ray (<i>Myliobatis aquila</i>) | CR | Unlikely but widespread | Demersal and semi-pelagic in shallow coastal waters on the continental shelf and offshore to a | Yes | Yes | Yes | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|---|----------------|-------------------------|--|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| | | | depth of 537 m and often swims in groups, in the eastern Atlantic, including the Mediterranean Sea, and Western Indian Ocean (IUCN Red List). No GBIF records along the Mauritania coast. | | | | |
| Smalltooth Stingray (<i>Hypanus rufus</i>) | CR | Unlikely | Occurs in estuarine and shallow coastal waters on the continental shelf from the surface to a depth of 30 m, in the Eastern Central Atlantic from Mauritania to Cameroon, including São Tomé and Príncipe. It is known from few fragmented records and is likely to have been historically confused with other dasyatid species occurring in the region (IUCN Red List). Several GBIF records off the northern Mauritania coast. | Yes | Yes | Yes | Yes |
| Atlantic Weasel Shark (<i>Paragaleus pectoralis</i>) | EN | Possible but widespread | Occurs inshore and offshore on the continental shelf to a depth of 100 m, found in the Eastern Central Atlantic and Southeast Atlantic Oceans from Mauritania to Namibia (IUCN Red List). Numerous GBIF records off the northern Mauritania coast. | Yes | Yes | Yes | Yes |
| Norwegian Skate (<i>Dipturus nidarosiensis</i>) | EN | Not present | Demersal on the continental and insular shelves and slopes at depths of 125–1,573 m, and is most common from 200–1,000 m, found in the Eastern Atlantic Ocean, from Iceland and Norway to South Africa, including the Mid-Atlantic Ridge, and the Mediterranean Sea (IUCN Red List). No GBIF records along the Mauritania coast. | | | Yes | Yes |
| Oceanic Manta Ray (<i>Mobula birostris</i>) | EN | Not Present | An oceanic pelagic ray that occurs in places with regular upwelling along coastlines, oceanic islands, and offshore pinnacles and seamounts, with a circum-global in tropical and temperate waters from the surface to 1,000 m depth. Distribution off | Yes | Yes | Yes | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|---|----------------|-------------------------|---|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| | | | the Benin coast is uncertain (IUCN Red List). No GBIF records along the Mauritania coast. | | | | |
| Senegalese Hake (<i>Merluccius senegalensis</i>) | EN | Possible | A demersal species that inhabits the continental shelf and upper slope off Morocco, Mauritania and Senegal from depths of 18 to 500 m (IUCN Red List). Numerous GBIF records off the northern Mauritania coast. | Yes | Yes | Yes | Yes |
| Largetooth Sawfish (<i>Pristis pristis</i>) | CR | Not present | A euryhaline species that occurs at depths of 0–60 m, with juveniles occupying freshwater and estuarine habitats, and adults occurring in both estuarine and coastal waters. Widespread circumtropical distribution across the Western Atlantic, Eastern Pacific, Eastern Atlantic, and the Indo-West Pacific (IUCN Red List). No GBIF records around the bulge of West Africa. | Yes | Yes | Yes | Yes |
| Whitespotted Eagle Ray (<i>Aetobatus narinari</i>) | EN | Unlikely but widespread | Benthopelagic over the continental shelf from the surface to 60 m depth. It frequently enters lagoons and estuaries and is often associated with coral reef ecosystems. Occurs in the Atlantic Ocean. Widespread along the coast of the Americas. In the Eastern Central and Southeast Atlantic this species is thought to range from Mauritania south to Angola, and possibly South Africa (IUCN Red List). Single and very isolated GBIF record off Western Sahara, just north of Mauritania. | | | | Yes |
| Cassava Croaker (<i>Pseudotolithus senegalensis</i>) | EN | Possible but widespread | This demersal species inhabits sandy, muddy and rocky substrates, in the eastern Atlantic from Morocco to Namibia, including Cabo Verde (IUCN Red List). Numerous GBIF records off the northern Mauritania coast. | Yes | Yes | Yes | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|---|----------------|-------------------------|--|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| Blackchin Guitarfish (<i>Glaucostegus cemiculus</i>) | CR | Possible | Occurs from close inshore to depths of at least 80 m on the continental shelf. Widely distributed in the eastern Atlantic Ocean from the northern coast of Portugal to Angola, including the Mediterranean Sea (IUCN Red List). Numerous GBIF records off the northern Mauritania coast. | Yes | Yes | Yes | Yes |
| Spinetail Devil Ray (<i>Mobula mobular</i>) | EN | Unlikely but widespread | A pelagic species that resides in coastal and continental shelf waters. It spends the majority of its time in less than 50 m of water but occasionally dives to depths of 1,112 m, circum-global in temperate and tropical waters throughout all oceans (IUCN Red List). iNaturalist records at Dakar, but no GBIF records associated with Mauritania. | Yes | Yes | Yes | Yes |
| Atlantic Pygmy Devil Ray (<i>Mobula hypostoma</i>) | EN | Not Present | A schooling pelagic species of coastal and oceanic waters from the surface down to depths of 100 m, endemic to the Atlantic Ocean, where it is patchily distributed. Distribution off the Benin coast is uncertain (IUCN Red List). No GBIF records associated with W. or N. Africa. | Yes | Yes | Yes | Yes |
| African Gulper Shark (<i>Centrophorus leslei</i>) | EN | Not present | Demersal on continental and insular slopes at depths of 340–610 m, with a patchy, yet widespread, distribution around Africa, known from the Mozambique Channel (Madagascar and Mozambique) in the Western Indian Ocean and from Morocco to Angola in the Eastern Atlantic Ocean (IUCN Red List). Only 2 GBIF records from Africa, and not associated with Mauritania. | | | | Yes |
| Gulper Shark (<i>Centrophorus granulosus</i>) | EN | Possible but widespread | Demersal and benthopelagic on continental and insular shelves and slopes at depths of 50–1,500 m (possibly down to 2,307 m), and mostly 300–1,100 | Yes | Yes | Yes | Yes |

| English Name (Species Name) | IUCN Status | LoO | Comment | Proximity to Project Component | | | |
|--|----------------|-------------|---|--------------------------------|----------------------|------------|----------------------|
| | | | | Nouadhibou | Banc d' Arguin NP | Noukachott | Diawling Nat Park |
| | | | m, widespread, yet patchy, global distribution in the Atlantic and Indo-Pacific Oceans (IUCN Red List). Numerous GBIF records off the northern Mauritania coast. | | | | |
| Seret's Butterfly Ray (<i>Gymnura sereti</i>) | EN | Unlikely | Occurs on sandy and muddy habitats and also enters estuaries ranging from the surface to a depth of 60 m, throughout the Eastern Central and Southeast Atlantic from Mauritania to Angola (IUCN Red List). Various GBIF records for Senegal, but none for Mauritania. | | | | Yes |
| Pleiodon ovatus | CR | Not present | An inland mussel, but indicated on IUCN Red List as possibly extinct along the Senegal River, which is northern limits of its range. No GBIF records exist for this species. | | | | Yes |

Appendix 2 Comparison of Waterbird Populations against Regional Flyway Thresholds for Important Bird Areas along the Mauritanian Coast

Notes for interpretation of this Appendix:

- Bird species are listed based on qualifying species for the respective IBAs and KBAs
- Threatened Status acronyms - refer to Appendix 1.
- IBA Criteria: GLOBAL CRITERIA - A1: Globally threatened species (site sustains significant numbers of IUCN Red List CR, EN and VU species). A4: Congregations (site regularly sustains congregations of $\geq 1\%$ of the global population). REGIONAL CRITERIA - B1: Species of conservation concern – a. Near threatened species, b. Species with an unfavorable conservation status in the region. B3: Regionally important congregations – a. Biogeographical populations (includes Criteria A4i & A4ii), b. Multi-species aggregations, c. Bottleneck sites.
- KBA Criteria: B1 - Individual geographically restricted species. D1 - Demographic aggregations for sites that predictably hold: a) an

aggregation $\geq 1\%$ of the global population size of a species, over a season, and during one or more key stages of its life cycle; b) a number of mature individuals that ranks the site among the largest 10 aggregations known for the species.

- WPE 1% thresholds refer to regional flyway populations extracted from the Wetlands International Waterbirds Population Estimates (WPE) online database (see Appendix 3).
- Migratory behavior: Yes – species global distribution map shows separate breeding and non-breeding areas.
- Row shading: Brown shading - population exceeds WPE threshold; Blue shading - population exceeds WPE threshold by $>20\%$; Orange shading –population exceeds WPE threshold by $>50\%$.

| Bird Species | IUCN Status | Population Size | Seasonal Presence | IBA criteria | KBA criteria | WPE 1% threshold | Threshold Exceedance | | Migratory behavior |
|--|-------------|--------------------|-------------------|--------------|--------------|------------------|----------------------|-------|--------------------|
| | | | | | | | Lower | Upper | |
| Banc d'Arguin National Park | | | | | | | | | |
| Bar-tailed Godwit (<i>Limosa lapponica</i>) | NT | 172,154 to 247,894 | Winter | A4, B1a, B3a | B1, D1a | 5,000 | 34.4 | 49.6 | Yes |
| Caspian Tern (<i>Hydroprogne caspia</i>) | LC | 2,865 to 4,631 | Non-breeding | A4, B3a | D1a | 210 | 13.6 | 22.1 | Yes |
| Common Greenshank (<i>Tringa nebularia</i>) | LC | 5,581 to 6,063 | Winter | B3a | - | 2,900 | 1.9 | 2.1 | Yes |
| Common Gull-billed Tern (<i>Gelochelidon nilotica</i>) | LC | 331 to 620 | Winter | B3a | - | 330 | 1.0 | 1.9 | Yes |
| Common Redshank (<i>Tringa totanus</i>) | LC | 65,139 to 85,538 | Winter | A4, B3a | D1a | 2,000 | 32.6 | 42.8 | Yes |
| Common Ringed Plover (<i>Charadrius hiaticula</i>) | LC | 48,047 to 75,137 | Winter | A4, B3a | B1, D1a | 2,400 | 20.0 | 31.3 | Yes |
| Common Tern (<i>Sterna hirundo</i>) | LC | | | - | B1 | 10 | Not exceeded | | Yes |

| Bird Species | IUCN Status | Population Size | Seasonal Presence | IBA criteria | KBA criteria | WPE 1% threshold | Threshold Exceedance | | Migratory behavior |
|---|-------------|--------------------|-------------------|--------------|--------------|------------------|----------------------|-------|--------------------|
| | | | | | | | Lower | Upper | |
| Curlew Sandpiper (<i>Calidris ferruginea</i>) | VU | 52,721 to 76,069 | Winter | A4, B1a, B3a | B1, D1a | 4,000 | 13.2 | 19.0 | Yes |
| Dunlin (<i>Calidris alpina</i>) | NT | 567,432 to 852,934 | Winter | A4, B3a | B1, D1a | 8,180 | 69.4 | 104.3 | Yes |
| Eurasian Curlew (<i>Numenius arquata</i>) | NT | 5,170 to 5,723 | Winter | B1a | D1a | 7,600 | Not exceeded | | Yes |
| Eurasian Oystercatcher (<i>Haematopus ostralegus</i>) | NT | 6,334 to 7,507 | Winter | B1a | - | 8,200 | Not exceeded | | Yes |
| Eurasian Spoonbill (<i>Platalea leucorodia</i>) | LC | 6,431 to 8,890 | Winter | A4, B3a | B1, D1a | 20 | 321.6 | 444.5 | Yes |
| Great Cormorant (<i>Phalacrocorax carbo</i>) | LC | 7,879 to 14,589 | Non-breeding | B3a | - | 400 | 19.7 | 36.5 | Yes |
| Great White Pelican (<i>Pelecanus onocrotalus</i>) | LC | 4,327 to 7,775 | Non-breeding | A4, B3a | D1a | 600 | 7.2 | 13.0 | Yes |
| Greater Flamingo (<i>Phoenicopterus roseus</i>) | LC | 35,139 to 95,943 | Non-breeding | A4, B3a | - | 1,100 | 31.9 | 87.2 | No |
| Grey Plover (<i>Pluvialis squatarola</i>) | VU | 26,070 to 30,202 | Winter | A4, B3a | D1a | 2,000 | 13.0 | 15.1 | Yes |
| Kentish Plover (<i>Charadrius alexandrinus</i>) | LC | 4,899 to 8,887 | Winter | A4, B3a | D1a | 510 | 9.6 | 17.4 | Yes |
| Lesser Black-backed Gull (<i>Larus fuscus</i>) | LC | 10,409 to 16,391 | Winter | A4, B3a | - | 4,900 | 2.1 | 3.3 | Yes |
| Lesser Flamingo (<i>Phoeniconaias minor</i>) | NT | 99 | Non-breeding | B1a | - | 270 | Not exceeded | | Yes |
| Little Egret (<i>Egretta garzetta</i>) | LC | 1,344 to 2,152 | Non-breeding | B3a | - | 3,200 | Not exceeded | | Yes |
| Little Stint (<i>Calidris minuta</i>) | LC | 25,042 to 38,808 | Winter | A4, B3a | D1a | 3,000 | 8.3 | 12.9 | Yes |
| Little Tern (<i>Sternula albifrons</i>) | LC | 415 to 999 | Winter | B3a | - | 210 | 2.0 | 4.8 | Yes |
| Long-tailed Cormorant (<i>Microcarbo africanus</i>) | LC | 1,901 to 2,938 | Non-breeding | B3a | D1a | 400 | 4.8 | 7.3 | No |
| Red Knot (<i>Calidris canutus</i>) | NT | 167,320 to 200,565 | Winter | A4, B1a, B3a | B1, D1a | 2,500 | 66.9 | 80.2 | Yes |

| Bird Species | IUCN Status | Population Size | Seasonal Presence | IBA criteria | KBA criteria | WPE 1% threshold | Threshold Exceedance | | Migratory behavior |
|--|-------------|------------------|-------------------|--------------|--------------|------------------|-------------------------------|-------|--------------------|
| | | | | | | | Lower | Upper | |
| Royal Tern (<i>Thalasseus maximus</i>) | LC | | | - | D1a | 2,200 | Population data not available | | Yes |
| Ruddy Turnstone (<i>Arenaria interpres</i>) | NT | 9,563 to 11,074 | Winter | A4, B3a | D1a | 620 | 15.4 | 17.9 | Yes |
| Sanderling (<i>Calidris alba</i>) | LC | 45,820 to 49,437 | Winter | A4, B3a | D1a | 2,000 | 22.9 | 24.7 | Yes |
| Sandwich Tern (<i>Thalasseus sandvicensis</i>) | LC | 9,180 | | - | D1a | 1,700 | Not exceeded | | Yes |
| Slender-billed Gull (<i>Larus genei</i>) | LC | 3,352 to 4,855 | Non-breeding | A4, B3a | D1a | 270 | 12.4 | 18.0 | Yes |
| Western Reef-egret (<i>Egretta gularis</i>) | LC | 1,173 to 1,638 | Non-breeding | A4, B3a | D1a | 220 | 5.3 | 7.4 | Yes |
| Whimbrel (<i>Numenius phaeopus</i>) | LC | 24,248 to 27,337 | Winter | A4, B3a | D1a | 3,100 | 7.8 | 8.8 | Yes |
| Cap Blanc | | | | | | | | | |
| Slender-billed Gull (<i>Larus genei</i>) | LC | 150 | Winter | A4i | - | 270 | Not exceeded | | Yes |
| Caspian Tern (<i>Hydroprogne caspia</i>) | LC | 10,000 | Winter | A4i | D1a | 210 | 0.0 | 47.6 | Yes |
| Lesser Black-backed Gull (<i>Larus fuscus</i>) | LC | 15,000 | Winter | A4i | - | 4,900 | 0.0 | 3.1 | Yes |
| Sandwich Tern (<i>Thalasseus sandvicensis</i>) | LC | 20,000 | Winter | A4i | D1a | 1,700 | 0.0 | 11.8 | Yes |
| Ruddy Turnstone (<i>Arenaria interpres</i>) | NT | 1,000 | Winter | A4i | - | 620 | 0.0 | 1.6 | Yes |
| Dakhla area | | | | | | | | | |
| Sanderling (<i>Calidris alba</i>) | LC | 1,200 | Winter | A4i | Yes | 2,000 | Not exceeded | | Yes |
| Lesser Black-backed Gull (<i>Larus fuscus</i>) | LC | 6,000 | Winter | A4i | Yes | 4,900 | 0.0 | 1.2 | Yes |
| Sandwich Tern (<i>Thalasseus sandvicensis</i>) | LC | 2,800 | Winter | A4i | Yes | 1,700 | 0.0 | 1.6 | Yes |
| Ruddy Turnstone (<i>Arenaria interpres</i>) | NT | 700 | Winter | A4i | Yes | 620 | 0.0 | 1.1 | Yes |
| Canary current shelf-break (north) | | | | | | | | | |

| Bird Species | IUCN Status | Population Size | Seasonal Presence | IBA criteria | KBA criteria | WPE 1% threshold | Threshold Exceedance | | Migratory behavior |
|--|-------------|-----------------|-------------------|--------------|--------------|------------------|--|-------|--------------------|
| | | | | | | | Lower | Upper | |
| Audubon's Shearwater (<i>Puffinus lherminieri</i>) | LC | 1,041 to 4,655 | Resident | A4ii | Yes | - | Marine species - threshold not available | | No |
| Great Skua (<i>Catharacta skua</i>) | LC | 3,000 | Non-breeding | A4ii | Yes | 420 | 0.0 | 7.1 | Yes |
| Northern Gannet (<i>Morus bassanus</i>) | LC | 260,000 | Non-breeding | A4ii | Yes | 16,000 | 0.0 | 16.3 | Yes |
| Pomarine Jaeger (<i>Stercorarius pomarinus</i>) | LC | 26,250 | Non-breeding | A4ii | Yes | - | Marine species - threshold not available | | Yes |
| Red Phalarope (<i>Phalaropus fulicarius</i>) | LC | 12,200 | Non-breeding | A4i | Yes | 15,700 | Not exceeded | | Yes |
| Aftout es Sâheli | | | | | | | | | |
| Eurasian Spoonbill (<i>Platalea leucorodia</i>) | LC | 722 to 1,202 | Winter | A4, B3a | - | 20 | 36.1 | 60.1 | Yes |
| Black-tailed Godwit (<i>Limosa limosa</i>) | NT | 304 to 602 | Winter | B1a | - | 790 | Not exceeded | | Yes |
| Pied Avocet (<i>Recurvirostra avosetta</i>) | LC | 664 to 749 | Winter | B3a | - | 940 | Not exceeded | | Yes |
| Lesser Flamingo (<i>Phoeniconaias minor</i>) | NT | 6,552 to 12,000 | Non-breeding | B1a, B3a | - | 270 | 24.3 | 44.4 | Yes |
| Slender-billed Gull (<i>Larus genei</i>) | LC | 309 to 696 | Non-breeding | B3a | - | 270 | 1.1 | 2.6 | Yes |
| Northern Shoveler (<i>Spatula clypeata</i>) | LC | 10,60 to 15,442 | Winter | B3a | - | 5,200 | 1.9 | 3.0 | Yes |
| Caspian Tern (<i>Hydroprogne caspia</i>) | LC | 420 to 1,269 | Non-breeding | B3a | - | 210 | 2.0 | 6.0 | Yes |
| Red Knot (<i>Calidris canutus</i>) | NT | 246 to 515 | Winter | B1a | - | 2,500 | Not exceeded | | Yes |
| Common Gull-billed Tern (<i>Gelochelidon nilotica</i>) | LC | 221 to 461 | Winter | B3a | - | 330 | 0.7 | 1.4 | Yes |
| Kittlitz's Plover (<i>Charadrius pecuarius</i>) | LC | 152 to 330 | Non-breeding | B3a | - | 320 | 0.5 | 1.0 | No |
| Curlew Sandpiper (<i>Calidris ferruginea</i>) | VU | 212 to 277 | Winter | B1a | - | 4,000 | Not exceeded | | Yes |
| Bar-tailed Godwit (<i>Limosa lapponica</i>) | NT | 55 to 129 | Winter | B1a | - | 5,000 | Not exceeded | | Yes |

| Bird Species | IUCN Status | Population Size | Seasonal Presence | IBA criteria | KBA criteria | WPE 1% threshold | Threshold Exceedance | | Migratory behavior |
|--|-------------|------------------|-------------------|--------------|--------------|------------------|-------------------------------|-------|--------------------|
| | | | | | | | Lower | Upper | |
| Northern Pintail (<i>Anas acuta</i>) | LC | 15,183 to 21,005 | Winter | B3a | - | 5,800 | 2.6 | 3.6 | Yes |
| Great Cormorant (<i>Phalacrocorax carbo</i>) | LC | 1,55 to 2,378 | Non-breeding | B3a | - | 400 | 2.6 | 5.9 | Yes |
| Greater Flamingo (<i>Phoenicopterus roseus</i>) | LC | 20,311 to 37,863 | Non-breeding | A4, B3a | D1a | 1,100 | 18.5 | 34.4 | No |
| Garganey (<i>Spatula querquedula</i>) | LC | | | - | D1a | 13,400 | Population data not available | | Yes |
| Great White Pelican (<i>Pelecanus onocrotalus</i>) | LC | | | - | D1a | 600 | Population data not available | | Yes |
| Eurasian Spoonbill (<i>Platalea leucorodia</i>) | LC | | | - | D1a | 20 | Population data not available | | Yes |
| Kentish Plover (<i>Charadrius alexandrinus</i>) | LC | | | - | D1a | 510 | Population data not available | | Yes |
| Chott Boul | | | | | | | | | |
| Eurasian Spoonbill (<i>Platalea leucorodia</i>) | LC | 197 to 292 | Winter | B3a | - | 20 | 9.9 | 14.6 | Yes |
| Black-tailed Godwit (<i>Limosa limosa</i>) | NT | 20 to 60 | Winter | B1a | D1a | 790 | Not exceeded | | Yes |
| Curlew Sandpiper (<i>Calidris ferruginea</i>) | VU | 187 to 518 | Winter | B1a | - | 4,000 | Not exceeded | | Yes |
| Bar-tailed Godwit (<i>Limosa lapponica</i>) | NT | 37 | Winter | B1a | - | 5,000 | Not exceeded | | Yes |
| Pied Avocet (<i>Recurvirostra avosetta</i>) | LC | | Winter | - | D1a | 940 | Population data not available | | Yes |
| Diawling National Park | | | | | | | | | |
| African Spoonbill (<i>Platalea alba</i>) | LC | | | - | D1a | 440 | Population data not available | | No |
| Bar-tailed Godwit (<i>Limosa lapponica</i>) | NT | 48 to 168 | Winter | B1a | | 5,000 | Not exceeded | | Yes |
| Black Crowned Crane (<i>Balearica pavonina</i>) | VU | 82 to 166 | Non-breeding | A1, B3a | | 85 | 1.0 | 2.0 | No |
| Black Stork (<i>Ciconia nigra</i>) | LC | 12 to 24 | Winter | B3a | | 45 | Not exceeded | | Yes |

| Bird Species | IUCN Status | Population Size | Seasonal Presence | IBA criteria | KBA criteria | WPE 1% threshold | Threshold Exceedance | | Migratory behavior |
|--|-------------|------------------|-------------------|--------------|--------------|------------------|----------------------|-------|--------------------|
| | | | | | | | Lower | Upper | |
| Black-tailed Godwit (<i>Limosa limosa</i>) | NT | 550 to 941 | Winter | B1a | | 790 | 0.7 | 1.2 | Yes |
| Caspian Tern (<i>Hydroprogne caspia</i>) | LC | 707 to 995 | Non-breeding | B3a | Yes | 210 | 3.4 | 4.7 | Yes |
| Collared Pratincole (<i>Glareola pratincola</i>) | LC | 1,064 to 2,439 | Winter | B3a | | 200 | 5.3 | 12.2 | Yes |
| Common Gull-billed Tern (<i>Gelochelidon nilotica</i>) | LC | 248 to 496 | Winter | B3a | | 330 | 0.8 | 1.5 | Yes |
| Curlew Sandpiper (<i>Calidris ferruginea</i>) | VU | 166 to 299 | Winter | B1a | | 4,000 | Not exceeded | | Yes |
| Egyptian Goose (<i>Alopochen aegyptiaca</i>) | LC | 868 to 979 | Non-breeding | B3a | | 70 | 12.4 | 14.0 | No |
| Eurasian Spoonbill (<i>Platalea leucorodia</i>) | LC | 966 to 1,662 | Winter | A4, B3a | Yes | 20 | 48.3 | 83.1 | Yes |
| Fulvous Whistling-duck (<i>Dendrocygna bicolor</i>) | LC | 10,283 to 22,888 | Non-breeding | A4, B3a | | 320 | 32.1 | 71.5 | No |
| Garganey (<i>Spatula querquedula</i>) | LC | 25,672 to 67,527 | Winter | A4, B3a | | 13,400 | 1.9 | 5.0 | Yes |
| Glossy Ibis (<i>Plegadis falcinellus</i>) | LC | 332-619 | Winter | B3a | | 1,000 | Not exceeded | | Yes |
| Great Cormorant (<i>Phalacrocorax carbo</i>) | LC | 4,802 to 7,181 | Non-breeding | B3a | | 400 | 12.0 | 18.0 | Yes |
| Great White Egret (<i>Ardea alba</i>) | LC | 1,130 to 1,526 | Non-breeding | B3a | Yes | 2,200 | Not exceeded | | Yes |
| Great White Pelican (<i>Pelecanus onocrotalus</i>) | LC | 6,18 to 10,122 | Non-breeding | A4, B3a | D1a | 600 | 10.5 | 16.9 | Yes |
| Greater Flamingo (<i>Phoenicopterus roseus</i>) | LC | 2,251 to 3,017 | Non-breeding | B3a | Yes | 1,100 | 2.0 | 2.7 | No |
| Lesser Flamingo (<i>Phoeniconaias minor</i>) | NT | 1,776 to 4,801 | Non-breeding | B1a, B3a | Yes | 270 | 6.6 | 17.8 | Yes |
| Little Stint (<i>Calidris minuta</i>) | LC | 1,271 to 3,398 | Winter | B3a | | 3,000 | 0.4 | 1.1 | Yes |
| Long-tailed Cormorant (<i>Microcarbo africanus</i>) | LC | 962-2,462 | Winter | B3a | | 400 | 2.4 | 6.2 | No |

| Bird Species | IUCN Status | Population Size | Seasonal Presence | IBA criteria | KBA criteria | WPE 1% threshold | Threshold Exceedance | | Migratory behavior |
|---|-------------|------------------|-------------------|--------------|--------------|------------------|-------------------------|-------|--------------------|
| | | | | | | | Lower | Upper | |
| Marbled Duck (<i>Marmaronetta angustirostris</i>) | NT | 55 to 108 | Non-breeding | A1, B3a | | 65 | 0.8 | 1.7 | Yes |
| Northern Pintail (<i>Anas acuta</i>) | LC | | | - | Yes | 5,800 | Not exceeded | | Yes |
| Northern Shoveler (<i>Spatula clypeata</i>) | LC | 9,798 to 18,931 | Winter | B3a | Yes | 5,200 | 1.9 | 3.6 | Yes |
| Pied Avocet (<i>Recurvirostra avosetta</i>) | LC | | | - | Yes | 940 | Not exceeded | | Yes |
| Red Knot (<i>Calidris canutus</i>) | NT | 70 to 129 | Winter | B1a | | 2,500 | Not exceeded | | Yes |
| Slender-billed Gull (<i>Larus genei</i>) | LC | 365 to 729 | Non-breeding | B3a | Yes | 270 | 1.4 | 2.7 | Yes |
| Spur-winged Goose (<i>Plectropterus gambensis</i>) | LC | 1,185 to 1,669 | Non-breeding | B3a | | 710 | 1.7 | 2.4 | No |
| Squacco Heron (<i>Ardeola ralloides</i>) | LC | 176 to 262 | Non-breeding | B3a | | 100 | 1.8 | 2.6 | Yes |
| White-faced Whistling-duck (<i>Dendrocygna viduata</i>) | LC | 20,039 to 36,323 | Non-breeding | A4, B3a | | (1) | Threshold not available | | No |

Appendix 3 Regional Flyway Data used to assess Population Significance of Waterbirds

| Bird Species | IUCN Status | Regional Flyway Population | Regional Flyway Population Size | 1% Threshold (RF population) | Year | Migratory |
|---|-------------|--|---------------------------------|------------------------------|-------------|-----------|
| Family: ANATIDAE (Ducks) | | | | | | |
| Egyptian Goose (<i>Alopochen aegyptiaca</i>) | LC | West Africa | 5000-10000 | 70 | 2006 | No |
| Northern Pintail (<i>Anas acuta</i>) | LC | W Siberia, NE & E Europe/S Europe & West Africa | 450,000 - 750,000 | 5800 | 2000 - 2018 | Yes |
| Ferruginous Duck (<i>Aythya nyroca</i>) | NT | Eastern Europe/E Mediterranean & Sahelian Africa | 24,000 - 61,000 | 380 | 2000 - 2019 | Yes |
| Fulvous Whistling-duck (<i>Dendrocygna bicolor</i>) | LC | West Africa (Senegal to Chad) | 20,000 - 50,000 | 320 | 2006 - 2014 | No |
| White-faced Whistling-duck (<i>Dendrocygna viduata</i>) | LC | Africa | Not available | | 0 | No |
| Marbled Duck (<i>Marmaronetta angustirostris</i>) | NT | West Mediterranean/West Medit. & West Africa | 6,000 - 7,500 | 65 | 2003 - 2018 | Yes |
| African Pygmy-goose (<i>Nettapus auritus</i>) | LC | West Africa | 2,500 - 10,000 | 50 | 2001 | No |
| Spur-winged Goose (<i>Plectropterus gambensis</i>) | LC | gambensis, West Africa | 50,000 - 100,000 | 710 | 2006 | No |
| Knob-billed Duck (<i>Sarkidiornis melanotos</i>) | LC | West Africa | 20,000 - 40,000 | 280 | 2010 - 2019 | No |
| Northern Shoveler (<i>Spatula clypeata</i>) | LC | W Siberia, NE & E Europe/S Europe & West Africa | 450,000 - 600,000 | 5200 | 2000 - 2018 | Yes |
| Garganey (<i>Spatula querquedula</i>) | LC | Western Siberia & Europe/West Africa | 1,000,000 - 1,800,000 | 13400 | 2006 - 2018 | Yes |
| Family: ANHINGIDAE (Darters) | | | | | | |
| African Darter (<i>Anhinga rufa</i>) | LC | rufa, W Africa | 1 - 25,000 | 250 | 2001 | No |
| Family: ARDEIDAE (Herons and Egrets) | | | | | | |
| Great White Egret (<i>Ardea alba</i>) | LC | melanorhynchos, Sub-Saharan Africa & Madagascar | 100,000 - 500,000 | 2200 | 2001 | Yes |
| Yellow-billed Egret (<i>Ardea brachyrhyncha</i>) | LC | Sub-Saharan Africa | 25,000 - 100,000 | 1000 | 2001 | No |
| Purple Heron (<i>Ardea purpurea</i>) | LC | purpurea, West Europe & West Mediterranean/West Africa | 27,000 - 30,000 | 280 | 2003 - 2018 | Yes |

| Bird Species | IUCN Status | Regional Flyway Population | Regional Flyway Population Size | 1% Threshold (RF population) | Year | Migratory |
|--|-------------|--|---------------------------------|------------------------------|-------------|-----------|
| Squacco Heron (<i>Ardeola ralloides</i>) | LC | ralloides, SW Europe, NW Africa (bre) | 9,000 - 11,000 | 100 | 2002 - 2018 | Yes |
| Cattle Egret (<i>Bubulcus ibis</i>) | LC | ibis, Tropical Africa | 1,000,000 - 10,000,000 | 30,000 | 1990 - 2001 | Yes |
| Black Heron (<i>Egretta ardesiaca</i>) | LC | Sub-Saharan Africa | 25,000 - 100,000 | 1000 | 1999 | No |
| Little Egret (<i>Egretta garzetta</i>) | LC | garzetta, Sub-Saharan Africa | 200,000 - 500,000 | 3200 | 2001 | Yes |
| Western Reef-egret (<i>Egretta gularis</i>) | LC | gularis, West Africa | 10,000 - 50,000 | 220 | 1991 - 2018 | Yes |
| Black-crowned Night Heron (<i>Nycticorax nycticorax</i>) | LC | nycticorax, W Europe, NW Africa (bre) | 47,000 - 57,000 | 480 | 2003 - 2018 | Yes |
| Family: CHARADRIIDAE (Plovers) | | | | | | |
| Kentish Plover (<i>Charadrius alexandrinus</i>) | LC | alexandrinus, West Europe & West Mediterranean/West Africa | 40,000 - 65,000 | 510 | 2007 - 2018 | Yes |
| Common Ringed Plover (<i>Charadrius hiaticula</i>) | LC | psammodromus, Canada, Greenland & Iceland/W & S Africa | 240,000 | 2400 | 2010 - 2014 | Yes |
| Kittlitz's Plover (<i>Charadrius pecuarius</i>) | LC | West Africa | 20,000 - 50,000 | 320 | 2001 | No |
| Grey Plover (<i>Pluvialis squatarola</i>) | VU | squatarola, W Siberia/W Europe & W Africa | 200,000 | 2000 | 2010 - 2018 | Yes |
| Family: CICONIIDAE (Storks) | | | | | | |
| Black Stork (<i>Ciconia nigra</i>) | LC | South-west Europe/West Africa | 3,800 - 4,800 | 45 | 2013 - 2018 | Yes |
| Yellow-billed Stork (<i>Mycteria ibis</i>) | LC | Sub-Saharan Africa (excluding Madagascar) | 75,000 - 150,000 | 1100 | 2006 - 2014 | No |
| Family: GLAREOLIDAE (Pratincoles) | | | | | | |
| Collared Pratincole (<i>Glareola pratincola</i>) | LC | pratincola, Western Europe & NW Africa/West Africa | 15,000 - 26,000 | 200 | 2003 - 2018 | Yes |
| Family: GRUIDAE (Cranes) | | | | | | |
| Black Crowned Crane (<i>Balearica pavonina</i>) | VU | pavonina, West Africa (Senegal to Chad) | 5,000 - 15,000 | 85 | 2010 | No |
| Family: HAEMATOPODIDAE (Oystercatchers) | | | | | | |
| Eurasian Oystercatcher (<i>Haematopus ostralegus</i>) | NT | ostralegus, Europe/South & West Europe & NW Africa | 750,000 - 970,000 | 8200 | 2007 - 2018 | Yes |

| Bird Species | IUCN Status | Regional Flyway Population | Regional Flyway Population Size | 1% Threshold (RF population) | Year | Migratory |
|--|-------------|---|---------------------------------|------------------------------|-------------|-----------|
| Family: LARIDAE (Gulls and Terns) | | | | | | |
| White-winged Tern (<i>Chlidonias leucopterus</i>) | LC | Eastern Europe & Western Asia/Africa | 2,500,000 - 3,500,000 | 30,000 | 1999 - 2019 | Yes |
| Common Gull-billed Tern (<i>Gelochelidon nilotica</i>) | LC | nilotica, Western Europe/West Africa | 28,000 - 38,000 | 330 | 1972 - 2018 | Yes |
| Caspian Tern (<i>Hydroprogne caspia</i>) | LC | West Africa (bre) | 21,000 - 22,000 | 210 | 2019 | Yes |
| Grey-headed Gull (<i>Larus cirrocephalus</i>) | LC | poiocephalus, West Africa | 25,000 - 30,000 | 270 | 2010 - 2014 | Yes |
| Lesser Black-backed Gull (<i>Larus fuscus</i>) | LC | graellsii, Western Europe/Mediterranean & West Africa | 480,000 - 500,000 | 4900 | 1981 - 2018 | Yes |
| Slender-billed Gull (<i>Larus genei</i>) | LC | West Africa (bre) | 24,000 - 30,000 | 270 | 2003 - 2019 | Yes |
| Common Tern (<i>Sterna hirundo</i>) | LC | hirundo, W Africa (bre) | 1200 | 10 | 2001 | Yes |
| Little Tern (<i>Sternula albifrons</i>) | LC | albifrons, West Mediterranean/ W Africa (bre) | 16,300 - 26,000 | 210 | 2006 - 2018 | Yes |
| Royal Tern (<i>Thalasseus maximus</i>) | LC | albidorsalis, West Africa (bre) | 220,000 - 230,000 | 2200 | 2019 | Yes |
| Sandwich Tern (<i>Thalasseus sandvicensis</i>) | LC | sandvicensis, Western Europe/West Africa | 170,000 - 200,000 | 1700 | 2006 - 2018 | Yes |
| Family: PELECANIDAE (Pelicans) | | | | | | |
| Great White Pelican (<i>Pelecanus onocrotalus</i>) | LC | West Africa | 60,000 | 600 | 1975 - 2014 | Yes |
| Family: PHALACROCORACIDAE (Cormorants) | | | | | | |
| Long-tailed Cormorant (<i>Microcarbo africanus</i>) | LC | lucidus, Coastal West Africa | 40,000 | 400 | 2010 - 2014 | No |
| Great Cormorant (<i>Phalacrocorax carbo</i>) | LC | lucidus, Coastal West Africa | 40,000 | 400 | 2010 - 2014 | Yes |
| Family: PHOENICOPTERIDAE (Flamingos) | | | | | | |
| Lesser Flamingo (<i>Phoeniconaias minor</i>) | NT | West Africa | 25,000 - 30,000 | 270 | 2010 - 2018 | Yes |
| Greater Flamingo (<i>Phoenicopterus roseus</i>) | LC | West Africa | 100,000 - 130,000 | 1100 | 2014 - 2018 | No |

| Bird Species | IUCN Status | Regional Flyway Population | Regional Flyway Population Size | 1% Threshold (RF population) | Year | Migratory |
|---|-------------|--|---------------------------------|------------------------------|-------------|-----------|
| Family: PODICIPIDAE (Grebes) | | | | | | |
| Little Grebe (<i>Tachybaptus ruficollis</i>) | LC | capensis, Sub-Saharan Africa | 100,000 - 1,000,000 | 10,000 | 2001 | Yes |
| Family: RALLIDAE (Rails and Swamphens) | | | | | | |
| Purple Swamphen (<i>Porphyrio porphyrio</i>) | LC | madagascariensis, W Africa | 10,000 - 25,000 | 250 | 2005 | No |
| Family: RECURVIROSTRIDAE (Avocets) | | | | | | |
| Pied Avocet (<i>Recurvirostra avosetta</i>) | LC | Western Europe & North-west Africa (bre) | 100,000 - 110,000 | 940 | 2007 - 2018 | Yes |
| Family: Sandpipers and allies | | | | | | |
| Ruddy Turnstone (<i>Arenaria interpres</i>) | NT | interpres, Northern Europe/West Africa | 44,000 - 87,000 | 620 | 2008 - 2018 | Yes |
| Sanderling (<i>Calidris alba</i>) | LC | alba, East Atlantic Europe, West & Southern Africa (win) | 200,000 | 2000 | 2010 - 2014 | Yes |
| Dunlin (<i>Calidris alpina</i>) | NT | arctica, NE Greenland/West Africa + schinzii, Iceland & Greenland/NW and West Africa | 761,000-876,000 | 8180 | 2001 - 2018 | Yes |
| Red Knot (<i>Calidris canutus</i>) | NT | canutus, Northern Siberia/West & Southern Africa | 250,000 | 2500 | 2010 - 2014 | Yes |
| Curlew Sandpiper (<i>Calidris ferruginea</i>) | VU | Western Siberia/West Africa | 350,000 - 450,000 | 4000 | 2010 - 2014 | Yes |
| Little Stint (<i>Calidris minuta</i>) | LC | N Europe/S Europe, North & West Africa | 270,000 - 360,000 | 3000 | 2010 - 2018 | Yes |
| Ruff (<i>Calidris pugnax</i>) | LC | Northern Europe & Western Siberia/West Africa | 1,500,000 - 3,100,000 | 22000 | 1980 - 2019 | Yes |
| Bar-tailed Godwit (<i>Limosa lapponica</i>) | NT | taymyrensis, Western Siberia/West & South-west Africa | 500,000 | 5000 | 2010 - 2014 | Yes |
| Black-tailed Godwit (<i>Limosa limosa</i>) | NT | limosa, Western Europe/NW & West Africa | 63,000 - 99,000 | 790 | 2015 | Yes |
| Eurasian Curlew (<i>Numenius arquata</i>) | NT | arquata, Europe/Europe, North & West Africa | 610,000 - 830,000 | 7600 | 1990 - 2019 | Yes |
| Whimbrel (<i>Numenius phaeopus</i>) | LC | phaeopus, Northern Europe/West Africa | 240,000 - 330,000 | 3100 | 2010 - 2018 | Yes |

| Bird Species | IUCN Status | Regional Flyway Population | Regional Flyway Population Size | 1% Threshold (RF population) | Year | Migratory |
|--|-------------|---|---------------------------------|------------------------------|-------------|-----------|
| Red Phalarope (<i>Phalaropus fulicarius</i>) | LC | Canada & Greenland/Atlantic coast of Africa | 1,250,000 - 1,980,000 | 15700 | 2012 | Yes |
| Common Greenshank (<i>Tringa nebularia</i>) | LC | Northern Europe/SW Europe, NW & West Africa | 230,000 - 360,000 | 2900 | 1995 - 2018 | Yes |
| Common Redshank (<i>Tringa totanus</i>) | LC | <i>totanus</i> , Northern Europe (breeding) | 160,000 - 240,000 | 2000 | 2008 - 2018 | Yes |
| Family: STERCORARIIDAE (Skuas and Jaegers) | | | | | | |
| Great Skua (<i>Catharacta skua</i>) | LC | N Europe/N Atlantic | 39,000 - 45,000 | 420 | 1998 - 2019 | Yes |
| Northern Gannet (<i>Morus bassanus</i>) | LC | North Atlantic | 1,600,000 | 16000 | 2008 - 2018 | Yes |
| Family: THRESKIORNITHIDAE (Ibis and Spoonbills) | | | | | | |
| African Spoonbill (<i>Platalea alba</i>) | LC | Sub-Saharan Africa | 30,000 - 65,000 | 440 | 2003 - 2012 | No |
| Eurasian Spoonbill (<i>Platalea leucorodia</i>) | LC | balsaci, Coastal West Africa (Mauritania) | 2250 | 20 | 2012 | Yes |
| Glossy Ibis (<i>Plegadis falcinellus</i>) | LC | Black Sea & Mediterranean/West Africa | 73,000 - 150,000 | 1000 | 2005 - 2019 | Yes |

Appendix 4 Non-waterbird species that qualify the Key Biodiversity Areas (KBAs) and Important Bird Areas (IBAs) along the Mauritania coast

| Bird Species | IUCN Status | Seasonal Presence | IBA criteria | KBA Qualifier | Migratory Behavior |
|---|-------------|-------------------|--------------|---------------|--------------------|
| Banc d'Arguin National Park | | | | | |
| Dunn's Lark (<i>Eremalauda dunni</i>) | LC | Resident | A3 | - | No |
| Desert Sparrow (<i>Passer simplex</i>) | LC | Resident | A3 | - | No |
| Bar-tailed Lark (<i>Ammomanes cinctura</i>) | LC | Resident | A3 | - | No |
| Desert Lark (<i>Ammomanes deserti</i>) | LC | Resident | A3 | - | No |
| Greater Hoopoe-lark (<i>Alaemon alaudipes</i>) | LC | Resident | A3 | - | No |
| Nubian Bustard (<i>Neotis nuba</i>) | NT | Resident | A1, A3 | - | No |
| Pale Rock Martin (<i>Ptyonoprogne obsoleta</i>) | LC | Resident | A3 | - | Yes |
| Pharaoh Eagle-owl (<i>Bubo ascalaphus</i>) | LC | Resident | A3 | - | No |
| Trumpeter Finch (<i>Bucanetes githagineus</i>) | LC | Resident | A3 | - | Yes |
| White-crowned Wheatear (<i>Oenanthe leucopyga</i>) | LC | Resident | A3 | - | No |
| Dakhla area KBA & IBA | | | | | |
| Desert Lark (<i>Ammomanes deserti</i>) | LC | Resident | A3 | KBA | No |
| Pale Rock Martin (<i>Ptyonoprogne obsoleta</i>) | LC | Resident | A3 | KBA | Yes |
| Egyptian Nightjar (<i>Caprimulgus aegyptius</i>) | LC | Breeding | A3 | KBA | Yes |
| Pharaoh Eagle-owl (<i>Bubo ascalaphus</i>) | LC | Resident | A3 | KBA | No |
| Bar-tailed Lark (<i>Ammomanes cinctura</i>) | LC | Resident | A3 | KBA | No |
| Greater Hoopoe-lark (<i>Alaemon alaudipes</i>) | LC | Resident | A3 | KBA | No |
| Crowned Sandgrouse (<i>Pterocles coronatus</i>) | LC | Resident | A3 | KBA | No |
| White-crowned Wheatear (<i>Oenanthe leucopyga</i>) | LC | Resident | A3 | KBA | No |
| Trumpeter Finch (<i>Bucanetes githagineus</i>) | LC | Resident | A3 | KBA | Yes |
| Mourning Wheatear (<i>Oenanthe lugens</i>) | LC | Resident | A3 | KBA | Yes |
| Desert Sparrow (<i>Passer simplex</i>) | LC | Resident | A3 | KBA | No |
| Spotted Sandgrouse (<i>Pterocles senegallus</i>) | LC | Resident | A3 | KBA | No |
| Canary current shelf-break (north) KBA & IBA | | | | | |
| Band-rumped Storm-petrel (<i>Hydrobates castro</i>) | LC | Non-breeding | A4ii | KBA | Yes |
| Cory's Shearwater (<i>Calonectris borealis</i>) | LC | Breeding | A4ii | KBA | Yes |
| European Storm-petrel (<i>Hydrobates pelagicus</i>) | LC | Non-breeding | A4ii | KBA | Yes |
| Sahelian Woodpecker (<i>Dendropicos elachus</i>) | LC | Resident | A3 | - | No |
| Black Scrub-robin (<i>Cercotrichas podobe</i>) | LC | Resident | A3 | - | No |
| Sudan Golden Sparrow (<i>Passer luteus</i>) | LC | Resident | A3 | - | No |
| Cricket Warbler (<i>Spiloptila clamans</i>) | LC | Resident | A3 | - | No |
| Diawling National Park | | | | | |
| Arabian Bustard (<i>Ardeotis arabs</i>) | NT | Resident | A3 | KBA | No |
| Black Scrub-robin (<i>Cercotrichas podobe</i>) | LC | Resident | A3 | KBA | No |
| Chestnut-bellied Starling (<i>Lamprotornis pulcher</i>) | LC | Resident | A3 | KBA | No |
| Sudan Golden Sparrow (<i>Passer luteus</i>) | LC | Resident | A3 | KBA | No |

Appendix 5 Mauritania National Red List for Land Mammals (Brito *et al.* 2022)

| Species Name | Common Name | Threatened Status | |
|---|-------------------------|-------------------|--------------------------|
| | | IUCN Red List | National Red List |
| Artiodactyla (Even-toed animals) | | | |
| <i>Addax nasomaculatus</i> | Addax | CR | CR |
| <i>Ammotragus lervia</i> | Aoudad | VU | VU |
| <i>Damaliscus lunatus</i> | Topi | LC | Regionally Extinct |
| <i>Eudorcas rufifrons</i> | Red-fronted Gazelle | VU | EN |
| <i>Gazella dorcas</i> | Dorcas Gazelle | VU | VU |
| <i>Hippotragus equinus</i> | Roan Antelope | LC | Regionally Extinct |
| <i>Kobus kob</i> | Kob | LC | Regionally Extinct |
| <i>Nanger dama</i> | Dama Gazelle | CR | Regionally Extinct |
| <i>Oryx dammah</i> | Scimitar-horned Oryx | EW | Extinct in the Wild (EW) |
| <i>Redunca redunca</i> | Reedbuck | LC | Regionally Extinct |
| <i>Taurotragus derbianus</i> | Lord Derby's Eland | VU | Regionally Extinct |
| <i>Tragelaphus scriptus</i> | Bushbuck | LC | Regionally Extinct |
| <i>Giraffa camelopardalis</i> | Giraffe | VU | Extinct in the Wild |
| <i>Hippopotamus amphibius</i> | Hippopotamus | VU | CR |
| <i>Phacochoerus africanus</i> | Common Warthog | LC | LC |
| Carnivora (Carnivores) | | | |
| <i>Canis lupaster</i> | African Wolf | LC | LC |
| <i>Lycaon pictus</i> | African Wild Dog | EN | Regionally Extinct |
| <i>Vulpes pallida</i> | Pale Fox | LC | LC |
| <i>Vulpes rueppellii</i> | Ruppel's Fox | LC | LC |
| <i>Vulpes zerda</i> | Fennec Fox | LC | LC |
| <i>Acinonyx jubatus</i> | Cheetah | VU | Regionally Extinct |
| <i>Caracal caracal</i> | Caracal | LC | NT |
| <i>Felis margarita</i> | Sand Cat | LC | LC |
| <i>Felis silvestris</i> | African Wild Cat | LC | LC |
| <i>Leptailurus serval</i> | Serval | LC | VU |
| <i>Panthera leo</i> | Lion | VU | Regionally Extinct |
| <i>Panthera pardus</i> | Leopard | VU | CR |
| <i>Atilax paludinosus</i> | Marsh Mongoose | LC | DD |
| <i>Herpestes ichneumon</i> | Egyptian Mongoose | LC | LC |
| <i>Herpestes sanguineus</i> | Common Slender Mongoose | LC | LC |
| <i>Ichneumia albicauda</i> | White-tailed Mongoose | LC | LC |
| <i>Crocuta crocuta</i> | Spotted Hyaena | LC | VU |
| <i>Hyaena hyaena</i> | Striped Hyaena | NT | NT |
| <i>Aonyx capensis</i> | African Clawless Otter | NT | DD |
| <i>Ictonyx libyca</i> | Libyan Striped Weasel | LC | LC |
| <i>Ictonyx striatus</i> | Zorilla | LC | DD |
| <i>Mellivora capensis</i> | Honey Badger | LC | LC |
| <i>Civettictis civetta</i> | African Civet | LC | LC |
| <i>Genetta genetta</i> | Common Genet | LC | LC |
| Chiroptera (Bats) | | | |
| <i>Taphozous nudiventris</i> | Naked-rumped Tomb Bat | LC | DD |
| <i>Taphozous perforatus</i> | Egyptian Tomb Bat | LC | NT |

| Species Name | Common Name | Threatened Status | |
|--|------------------------------|-------------------|--------------------|
| | | IUCN Red List | National Red List |
| <i>Asellia tridens</i> | Geoffroy's Leaf-nosed Bat | LC | LC |
| <i>Hipposideros tephrus</i> | - | LC | LC |
| <i>Mops condylurus</i> | Angolan Mops Bat | LC | DD |
| <i>Tadarida aegyptiaca</i> | Egyptian Free-tailed Bat | LC | DD |
| <i>Nycteris gambiensis</i> | - | LC | DD |
| <i>Nycteris hispida</i> | - | LC | LC |
| <i>Nycteris macrotis</i> | Large-eared Slit-faced Bat | LC | LC |
| <i>Nycteris thebaica</i> | Cape Long-eared Bat | LC | DD |
| <i>Eidolon helvum</i> | Afr Straw-coloured Fruit-bat | NT | LC |
| <i>Rhinolophus fumigatus</i> | - | LC | DD |
| <i>Rhinolophus landeri</i> | - | LC | DD |
| <i>Rhinopoma cystops</i> | Egyptian Mouse-tailed Bat | LC | LC |
| <i>Rhinopoma hardwickii</i> | Lesser Mouse-tailed Bat | LC | LC |
| <i>Rhinopoma microphyllum</i> | Greater Mouse-tailed Bat | LC | LC |
| <i>Eptesicus floweri</i> | - | LC | DD |
| <i>Nycticeinops schlieffeni</i> | Schlieffen's Bat | LC | LC |
| <i>Pipistrellus rueppellii</i> | Rüppel's Pipistrelle | LC | LC |
| <i>Scotophilus leucogaster</i> | White-bellied Yellow Bat | LC | DD |
| Erinaceomorpha (Hedgehogs) | | | |
| <i>Atelerix albiventris</i> | Four-toed Hedgehog | LC | LC |
| <i>Paraechinus aethiopicus</i> | Desert Hedgehog | LC | LC |
| Hydacoidea & Lagomorpha Rabbits and allies) | | | |
| <i>Procavia capensis</i> | Rock Hyrax | LC | LC |
| <i>Lepus capensis</i> | Cape Hare | LC | - |
| Perissodactyla & Proboscidea (Rhino & Elephant) | | | |
| <i>Ceratotherium simum</i> | Northern White Rhino | NT | Regionally Extinct |
| <i>Loxodonta africana</i> | African Savanna Elephant | EN | Regionally Extinct |
| Primates (Monkeys and Apes) | | | |
| <i>Chlorocebus sabaeus</i> | Green Monkey | LC | NT |
| <i>Erythrocebus patas</i> | Patas Monkey | NT | LC |
| <i>Papio papio</i> | Guinea Baboon | NT | VU |
| <i>Galago senegalensis</i> | Northern Lesser Galago | LC | DD |
| Rodentia (Rodents) | | | |
| <i>Felovia vae</i> | Felou Gundi | LC | LC |
| <i>Jaculus jaculus</i> | Lesser Egyptian Jerboa | LC | LC |
| <i>Hystrix cristata</i> | Crested Porcupine | LC | LC |
| <i>Acomys airenensis</i> | Western Saharan Spiny Mouse | LC | LC |
| <i>Arvicanthis niloticus</i> | African Grass Rat | LC | LC |
| <i>Desmodillus braueri</i> | - | LC | LC |
| <i>Gerbillus amoenus</i> | Pleasant Gerbil | LC | LC |
| <i>Gerbillus campestris</i> | North African Gerbil | LC | LC |
| <i>Gerbillus gerbillus</i> | Lesser Egyptian Gerbil | LC | LC |
| <i>Gerbillus henleyi</i> | Pygmy Gerbil | LC | LO |
| <i>Gerbillus nancillus</i> | - | DD | LC |
| <i>Gerbillus nigeriae</i> | - | LC | LC |
| <i>Gerbillus pyramidum</i> | Greater Egyptian Gerbil | LC | LC |

| Species Name | Common Name | Threatened Status | |
|---------------------------------|---------------------------|-------------------|-------------------|
| | | IUCN Red List | National Red List |
| <i>Gerbillus tarabuli</i> | Tarabul's Gerbil | LC | LC |
| <i>Mastomys erythroleucus</i> | Guinea Multimammate Mouse | LC | LC |
| <i>Mastomys huberti</i> | - | LC | LC |
| <i>Meriones crassus</i> | Sundevall's Jird | LC | LC |
| <i>Meriones libycus</i> | Libyan Jird | LC | DD |
| <i>Mus haussa</i> | - | LC | LC |
| <i>Mus musculus</i> | House Mouse | - | - |
| <i>Pachyuromys duprasi</i> | Fat-tailed Gerbil | LC | LC |
| <i>Psammomys obesus</i> | Fat Sand Rat | LC | LC |
| <i>Rattus rattus</i> | Norwegian House Rat | - | - |
| <i>Taterillus arenarius</i> | - | LC | LC |
| <i>Taterillus gracilis</i> | - | LC | DD |
| <i>Taterillus pygargus</i> | - | LC | DD |
| <i>Taterillus traniieri</i> | - | LC | LC |
| <i>Xerus erythropus</i> | Striped Ground Squirrel | LC | LC |
| Soricomorpha (Shrews) | | | |
| <i>Crocidura cinderella</i> | - | LC | DD |
| <i>Crocidura fuscomurina</i> | - | LC | DD |
| <i>Crocidura lusitania</i> | Mauritanian Shrew | LC | LC |
| <i>Crocidura nanilla</i> | - | LC | DD |
| <i>Crocidura olivieri</i> | Olivier's Shrew | LC | DD |
| <i>Crocidura viaria</i> | - | LC | LC |
| Tubulidentata (Aardvark) | | | |
| <i>Orycteropus afer</i> | Aardvark | LC | DD |