





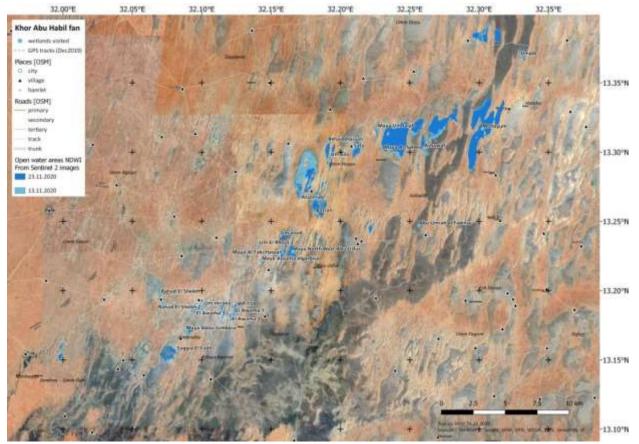
WATERBIRD CENSUS IN KHOR ABU HABIL INNER DELTA, BRIEF REPORT SUDAN (DECEMBER 2020)

International Waterbird Counts (IWC) were carried out from December 3 to 7/12/2020 in the Khor Abou Habil Inner Delta together by WCGA, SWS, WRC, TDV & OFB¹ staff and partners, in the framework of the RESSOURCE Project coordinated by FAO. As in other parts of the Sahel, heavy and concentrated rains in Summer 2020 were the source of flash floods causing considerable damage not only in cities (as in Khartoum for instance) but in some villages in the Inner Delta area.

As for the missions carried out in previous years, the open water areas were mapped by remote sensing in the inner Delta of Khor Abou Habil shortly before the mission by Mrs Deschamps (Tour du Valat Research Institute).

For software maintenance reasons, Landsat 8 satellite images were not available at the beginning of November, so Sentinel-2 images were used to discriminate areas in water. The NDWI index made it possible to locate areas still in water 1 week before the field mission. We were thus able to optimize the mission and verify the accuracy of the data used.

¹ WCGA: Wildlife Conservation General Administration. SWS: Sudanese Wildlife Society WRI: Wildlife Research Centre. TDV: Tour du Valat Research Institute, OFB (ex ONCFS) French Biodiversity Agency



Location map of open water areas, villages and tracks in Khor Abou Habil area, Sudan, November 2020

The mission being multi-objective (census, training and support for the designation of the site within the framework of the Ramsar convention), the training of the agents focused as much on the identification and the census of the different waterbird species as on the processes of management / wetland conservation. Strong emphasis was also placed on the functioning of the Ramsar Convention as a tool for wetlands conservation and management.

Fourteen Sudanese agents were able to benefit from this training: 9 WCGA agents including 8 from Khartoum and 2 local ones, 1 member of the Sudanese Wildlife Society, 1 agent of the Sudanese Survey Authority, the Director of Wildlife Research Center (also recruited as a consultant in the framework of the socioeconomic FAO consultancy), 1 agent of the Civil Register renamed shortly after to the WCGA, and 1 person of the Higher Council for Environment and Natural Resources (Ramsar Focal Point for Sudan).

WATERBIRD CENSUS PRELIMINARY RESULTS (DECEMBER 2020)

Waterbirds have been counted on eight mayas only (see Table 2).

Table 1: Numbers of waterbirds and raptors counted in the KAH inner delta in December 2020. Species whose numbers exceed international importance thresholds are highlighted in yellow, see also table 3.

English name	Latin	Numbers
Abdim's Stork	Ciconia abdimii	8
African Comb Duck	Sarkidiornis melanotos	20
African Darter	Anhinga rufa	2

African Jacana	Actophilornis africanus	27
African Openbill	Anastomus lamelligerus	743
African Pygmy-goose	Nettapus auritus	4
African Sacred Ibis	Threskiornis aethiopicus	64
African Spoonbill	Platalea alba	9
Black-headed Heron	Ardea melanocephala	6
Black-tailed Godwit	Limosa limosa	1 095
Black-winged Stilt	Himantopus himantopus	1 196
Caspian Plover	Charadrius asiaticus	3
Cattle Egret	Bubulcus ibis	323
Collared Pratincole	Glareola pratincola	912
Common Greenshank	Tringa nebularia	63
Common Gull-billed Tern	Gelochelidon nilotica	242
Common Pochard	Aythya ferina	6
Common Ringed Plover	Charadrius hiaticula	10
Common Snipe	Gallinago gallinago	6
Common Teal	Anas crecca	1
Eurasian Bittern	Botaurus stellaris	1
Eurasian Spoonbill	Platalea leucorodia	341
Eurasian Wigeon	Mareca penelope	480
European Turtle-dove	Streptopelia turtur	6
Ferruginous Duck	Aythya nyroca	16
Garganey	Spatula querquedula	16 820
Glossy Ibis	Plegadis falcinellus	830
Great White Egret	Ardea alba	48
Green Sandpiper	Tringa ochropus	10
Grey Heron	Ardea cinerea	200
Kentish Plover	Charadrius alexandrinus	1 205
Kittlitz's Plover	Charadrius pecuarius	10
Lesser Black-backed Gull	Larus fuscus	1
Little Egret	Egretta garzetta	78
Little Grebe	Tachybaptus ruficollis	6
Little Ringed Plover	Charadrius dubius	23
Little Stint	Calidris minuta	491
Long-tailed Cormorant	Microcarbo africanus	95
Marabou	Leptoptilos crumenifer	2
Marsh Sandpiper	Tringa stagnatilis	11
Northern Pintail	Anas acuta	34 161
Northern Shoveler	Spatula clypeata	2 741
Pelican spp.	Pelecanus spp.	2
Purple Heron	Ardea purpurea	5
Ruff	Calidris pugnax	1666
Southern Pochard	Netta erythrophthalma	1
Spotted Redshank	Tringa erythropus	11
Spur-winged Lapwing	Vanellus spinosus	90

Temminck's Stint	Calidris temminckii	11
White-faced Whistling-duck	Dendrocygna viduata	1 070
White-winged Tern	Chlidonias leucopterus	3
Wood Sandpiper	Tringa glareola	255
Yellow-billed Egret	Ardea brachyrhyncha	22
Yellow-billed Stork	Mycteria ibis	6
TOTAL WATERBIRD		65 568
Harrier spp.	Circus spp.	19
Montagu's Harrier	Circus pygargus	4
Osprey	Pandion haliaetus	1
Pallid Harrier	Circus macrourus	2
Peregrine Falcon	Falso peregrinus	2
Western Marsh-harrier	Circus aeruginosus	31

Numbers of waterbirds and raptors counted in the Inner Delta in December 2020

The results of this count confirm once again the international importance of the inner Delta of Khor Abu Habil for waterbirds. The threshold of criterion 5 of the Ramsar Convention (20,000 waterbirds) is largely exceeded with only 8 Mayas counted (out of several hundred existing). The thresholds of 1% of the population (criterion 6) are also exceeded for several species again (Collared Pratincole, Garganey, Kentish Plover, Northern Pintail and Eurasian Spoonbill).

Table 2 : Species diversity and total birds counted per Maya in December 2019 (sites with more than 10 000 waterbirds are highlighted in Yellow).

Maya Name	Number of different species	Total counted
Ashawaf	29	5468
Assonta	1	1
Fawa Wad Naouai	19	1713
Maya As Seleea	23	44992
Mohoyum	8	1012
Obeïd Daar	15	421
Shir Kala	28	718
Tendelti Dam	34	11302