

Update of distribution, habitats, population size, and threat factors for *Crocodylus suchus* in Mauritania

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Supplementary material

Table S1. Localities considered for the threat analysis. Analyses were restricted to localities where population status was classified as “present” or “possible” and combined localities listed in Brito et al. (2011a) and this work. Habitat refers to the type of aquatic habitats, coded as dam (D), *guelta* (G), lake (L), *oued* (O), source (S), and *tâmoûrt* (T). Threats refers to the total number of threats identified in each location. Type of threats refers to the list of threats identified in each location (threats are coded according to the IUCN Threat Classification Scheme; see table 1). Status refers to *Crocodylus suchus* population status coded as present (PR) or possible (PO). Reference mentions the publication where the location was presented and is coded as 1 (from Brito et al., 2011a) and * (from this study).

Locality	Habitat	Mountain	Basin	Threats	Type of threats	Status	Reference
Amzouzef	G	Tagant	Gabbou	6	2.3.1, 2.3.2, 7.2.1, 9.1.3(1), 11.2, 11.3	PR	1
Aouinet	G	Tagant	Gabbou	5	2.3.1, 7.2.1, 10.3, 11.2, 11.3	PO	*
Aouînet Nanâga	S	Tagant	Gorgol el Abiod	6	2.3.1, 7.2.1, 9.1.3(2), 10.3, 11.2, 11.3	PR	1
Ayoun el Khechba	O	Tagant	Gorgol el Abiod	2	11.2, 11.3	PO	1
Bâfa	O	Assaba	Gorgol el Akhdar	6	2.3.1, 2.3.2, 7.2.1, 7.2.3, 11.2, 11.3	PR	1
Bajai	G	Tagant	Gabbou	4	2.3.1, 7.2.1, 11.2, 11.3	PR	1
Bargatanni	O	Afollé	Karakoro	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PO	*
Bednam	G	Afollé	Karakoro	6	2.3.1, 2.3.2, 7.2.1, 9.1.3(1), 11.2, 11.3	PR	*
Borie, E of	O	Afollé	Kolimbiné	8	2.1.2, 2.3.1, 7.2.1, 7.2.3, 9.1.3(1), 9.3.3, 11.2, 11.3	PR	*
Bou Blei'îne	L	Afollé	Karakoro	5	2.3.1, 7.2.1, 7.2.3, 11.2, 11.3	PR	1
Bougâri	T	Afollé	Karakoro	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Ch'Bayer	G	Tagant	Gabbou	6	2.3.1, 2.3.2, 7.2.1, 7.2.3, 11.2, 11.3	PR	1
Chegg el Mâleh	S	Afollé	Kolimbiné	5	2.3.1, 7.2.1, 9.1.3(2), 11.2, 11.3	PR	1
Daal	G	Tagant	Gabbou	5	2.3.1, 7.2.1, 9.1.3(1), 11.2, 11.3	PR	1
Djafarat	O	Afollé	Kolimbiné	5	2.3.1, 2.3.2, 7.2.1, 11.2, 11.3	PR	*
Djouk	T	Tagant	Gorgol el Abiod	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PO	1
Ederoum	D	Tagant	Gabbou	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
El Ghâira	S	Tagant	Gorgol el Abiod	8	2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(2), 10.3, 11.2, 11.3	PR	1
El Housseîniya	S	Tagant	Gabbou	7	2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(2), 11.2, 11.3	PR	1
El Khadra	T	Afollé	El Mefga	9	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(1), 9.3.3, 11.2, 11.3	PO	*

El Khedia	G	Tagant	Gabbou	7	2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(1), 11.2, 11.3	PR	1
El Mefga	G	Afollé	El Mefga	7	2.3.1, 2.3.2, 7.2.1, 9.1.3(1), 10.3, 11.2, 11.3	PR	1
El Vouk	T	Afollé	Karakoro	5	2.3.1, 2.3.2, 7.2.1, 11.2, 11.3	PR	*
El'Atchân	O	Afollé	Karakoro	4	2.3.1, 7.2.1, 11.2, 11.3	PR	*
El-Khom Sâniyé	G	Afollé	Kolimbiné	4	2.3.1, 7.2.1, 11.2, 11.3	PR	*
Emreimida	G	Tagant	Gabbou	7	2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(1), 11.2, 11.3	PR	1
En Teska	O	Tagant	Gabbou	5	2.3.1, 7.2.1, 9.1.3(2), 11.2, 11.3	PO	*
E-n-Guinâr, SW of	G	Tagant	Gorgol el Abiod	5	2.3.1, 7.2.1, 9.1.3(1), 11.2, 11.3	PR	1
Foum Goussas	O	Assaba	Gorgol el Akhdar	5	2.3.1, 2.3.2, 7.2.1, 11.2, 11.3	PR	1
Gaât Sawana	T	Afollé	Kolimbiné	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Gabbou	L	Tagant	Gabbou	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Gâdoum	T	Afollé	Karakoro	6	2.3.1, 2.3.2, 7.2.1, 7.2.3, 11.2, 11.3	PR	1
Galoûla	G	Assaba	Gorgol el Akhdar	7	2.3.1, 7.2.1, 7.2.3, 9.1.3(1), 10.3, 11.2, 11.3	PR	*
Garaouel	G	Tagant	Gorgol el Abiod	6	2.3.1, 7.2.1, 9.1.3(1), 10.3, 11.2, 11.3	PR	1
Gharghar	T	Afollé	Kolimbiné	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Gleitât Ej Jmel	G	Tagant	Gabbou	6	2.3.1, 2.3.2, 7.2.1, 9.1.3(1), 11.2, 11.3	PR	*
Goumbel	G	Assaba	Garfa	9	2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(1), 9.1.3(2), 10.3, 11.2, 11.3	PR	1
Goungel	T	Afollé	Kolimbiné	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Guelb Samba	D	Afollé	Kolimbiné	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Guelleït	T	Assaba	Gorgol el Akhdar	4	2.3.1, 7.2.1, 11.2, 11.3	PO	1
Gueltet Thor	G	Tagant	Gorgol el Abiod	6	2.3.1, 2.3.2, 7.2.1, 10.3, 11.2, 11.3	PO	1
Guenétir 1	T	Assaba	Garfa	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PO	1
Guenétir 2	S	Assaba	Garfa	3	10.3, 11.2, 11.3	PR	1
Guidemballa	G	Assaba	Gorgol el Akhdar	4	2.3.1, 7.2.1, 11.2, 11.3	PR	1
Irâd, downstream of guelta	O	Tagant	Gabbou	7	2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(1), 11.2, 11.3	PR	*
Irijil El Gçerba	O	Afollé	Karakoro	6	2.3.1, 2.3.2, 7.2.1, 9.1.3(1), 11.2, 11.3	PO	*
Jabara	G	Tagant	Gabbou	4	2.3.1, 7.2.1, 11.2, 11.3	PR	1
Jaraaziza	T	Afollé	Karakoro	4	2.3.1, 7.2.1, 11.2, 11.3	PR	1

Jreif	O	Tagant	Gorgol el Abiod	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Kabda	G	Tagant	Gabbou	3	10.3, 11.2, 11.3	PR	1
Kaimel	G	Tagant	Gabbou	4	2.3.1, 7.2.1, 11.2, 11.3	PR	1
Kankossa, SW of	L	Assaba	Karakoro	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PO	1
Kour	T	Afollé	El Mefga	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Laout	G	Tagant	Gorgol el Abiod	6	2.3.1, 7.2.1, 9.1.3(1), 10.3, 11.2, 11.3	PO	1
Legleyta	G	Assaba	Karakoro	7	2.3.1, 7.2.1, 7.2.3, 9.1.3(1), 9.1.3(2), 11.2, 11.3	PR	1
Lemcherba	G	Tagant	Gabbou	4	2.3.1, 7.2.1, 11.2, 11.3	PR	1
Lemhara	O	Afollé	Karakoro	4	2.3.1, 7.2.1, 11.2, 11.3	PR	*
Magr'a Safia	O	Afollé	Karakoro	4	2.3.1, 7.2.1, 11.2, 11.3	PR	*
Mahmoudé	L	NA	Nioût	4	2.3.1, 7.2.1, 11.2, 11.3	PO	*
Matmâta	G	Tagant	Gabbou	6	2.3.1, 2.3.2, 7.2.1, 7.2.3, 11.2, 11.3	PR	1
M'bout, 10km N of	D	Assaba	Gorgol el Akhdar	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	*
Mechaouba	G	Afollé	Karakoro	5	2.3.1, 7.2.1, 10.3, 11.2, 11.3	PO	*
Megta es Sfeira	D	Afollé	Karakoro	9	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(2), 9.3.3, 11.2, 11.3	PR	1
Metraoucha	G	Afollé	Karakoro	5	2.3.1, 7.2.1, 10.3, 11.2, 11.3	PR	1
Meyla	G	Assaba	Garfa	3	10.3, 11.2, 11.3	PR	*
Motoboul	G	Tagant	Gabbou	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PO	1
Mreimidet El Bidâne	D	Afollé	Karakoro	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	*
Mzalg	O	Afollé	Kolimbiné	4	2.3.1, 7.2.1, 11.2, 11.3	PR	*
Mzarellit	O	Afollé	Kolimbiné	5	2.3.1, 7.2.1, 9.1.3(1), 11.2, 11.3	PR	*
Na'aj	T	Tagant	Gabbou	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Oumm Lelli	T	Afollé	Kolimbiné	8	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.3.3, 11.2, 11.3	PR	1
Oumm el Mhâr	G	Afollé	Karakoro	7	2.3.1, 2.3.2, 7.2.1, 9.1.3(1), 10.3, 11.2, 11.3	PR	1
Oumm Icheglâne	S	Assaba	Koûrourai	6	2.3.1, 7.2.1, 9.1.3(2), 10.3, 11.2, 11.3	PR	1
Passes de Diégoum, 2km S of	O	Afollé	Karakoro	5	2.3.1, 2.3.2, 7.2.1, 11.2, 11.3	PR	*
Rh' Zembou	G	Tagant	Gabbou	6	2.3.1, 2.3.2, 7.2.1, 9.1.3(1), 11.2, 11.3	PR	1
Suklan	G	Tagant	Gabbou	4	2.3.1, 7.2.1, 11.2, 11.3	PR	1
Taghtâfet	T	Afollé	Karakoro	5	2.3.1, 2.3.2, 7.2.1, 11.2, 11.3	PR	1

Tâmchekket	T	Afollé	Karakoro	9	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(2), 9.3.3, 11.2, 11.3	PR	1
Taorta	G	Tagant	Gabbou	7	2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(1), 11.2, 11.3	PR	1
Tartêga	G	Tagant	Gabbou	2	11.2, 11.3	PR	1
Tartêga, upstream of	O	Tagant	Gabbou	5	2.3.1, 7.2.1, 9.1.3(1), 11.2, 11.3	PR	1
Tidâtene	T	Afollé	Karakoro	9	2.1.2, 2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(1), 9.3.3, 11.2, 11.3	PR	*
Timbâd Ed Dine	S	Afollé	Kolimbiné	5	2.3.1, 7.2.1, 10.3, 11.2, 11.3	PR	*
Tin Waadine	G	Tagant	Gabbou	8	2.3.1, 2.3.2, 7.2.1, 7.2.3, 9.1.3(1), 10.3, 11.2, 11.3	PR	1
Tkhsutin	G	Tagant	Gabbou	4	2.3.1, 7.2.1, 11.2, 11.3	PR	1

Table S2. New localities of *C. suchus* discovered in this study and previously published localities in which the crocodile status was updated (*). The locality codes correspond to the order presented in **Figure 1**. Habitat refers to the type of aquatic habitats, coded as Dam (D), Guelta (G); Lake (L); Oued (O); Source (S); and Tâmoûrt (T); Latitude and Longitude are presented in decimal degrees (WGS84 datum); Date is related with the last observation in this study; Status refers to *C. suchus* population status coded as Present (PR) or Possible (PO); N mentions the maximum number of crocodiles reported.

Code	Locality	Habitat	Latitude	Longitude	Date	Status	N
1	Gleitât Ej Jmel	G	18.400353	-11.814568	2014	PR	-
2	En Teska	O	18.397872	-11.827242	2014	PO	-
3	Niemelane	O	18.343186	-11.671342	2014	PO	-
4	Irâd, downstream of guelta	O	18.258250	-11.513437	2011	PR	5
5	Aouinet	G	17.492952	-12.116253	2016	PO	-
6	El'Atchân	O	16.923777	-10.593842	2016	PR	4
7	El Vouk	T	16.903207	-10.732113	2016	PR	-
8	Bargatanni	O	16.817493	-10.740085	2016	PO	-
9	Mreimidet el Bidâne	D	16.782774	-10.746749	2016	PR	2
10	El Khadra	T	16.577108	-9.983632	2014	PO	-
11	Mahmoudé	L	16.398708	-7.665378	2014	PO	-
12	Timbâd Ed Dine	S	16.412065	-10.849448	2016	PR	-
13	Mechaouba	G	16.301168	-10.853177	2016	PO	-
14	El-Khom Sânyé	G	16.153808	-10.752278	2016	PR	1
15	Djafarat	O	16.051308	-10.544210	2014	PR	-
16	Irijil El Gçerba	O	16.022822	-10.846505	2016	PO	-
17	Tidâtene	T	16.008648	-10.929053	2016	PR	12
18	Passes de Diégoum	O	15.994760	-10.866803	2016	PO	-
19	Passes de Diégoum, 2km S of	O	15.985027	-10.877833	2016	PR	1
20	Bednam	G	15.970850	-10.901560	2016	PR	8
21	Mzalg	O	15.798355	-10.805377	2014	PR	8
22	Mzarellit	O	15.674163	-10.837277	2014	PR	-
23	Lemhara	O	15.694747	-11.237802	2014	PR	11
24	Magr'a Safia	O	15.621197	-11.289797	2014	PR	-
25	Borie, E of	O	15.543132	-11.086700	2014	PR	-
26	Meyla	G	16.002553	-11.871748	2012	PR	2
27	Galoûla*	G	16.338801	-11.978097	2012	PR	2
28	M'bout, 10km N of*	D	16.085597	-12.587687	2010	PO	-

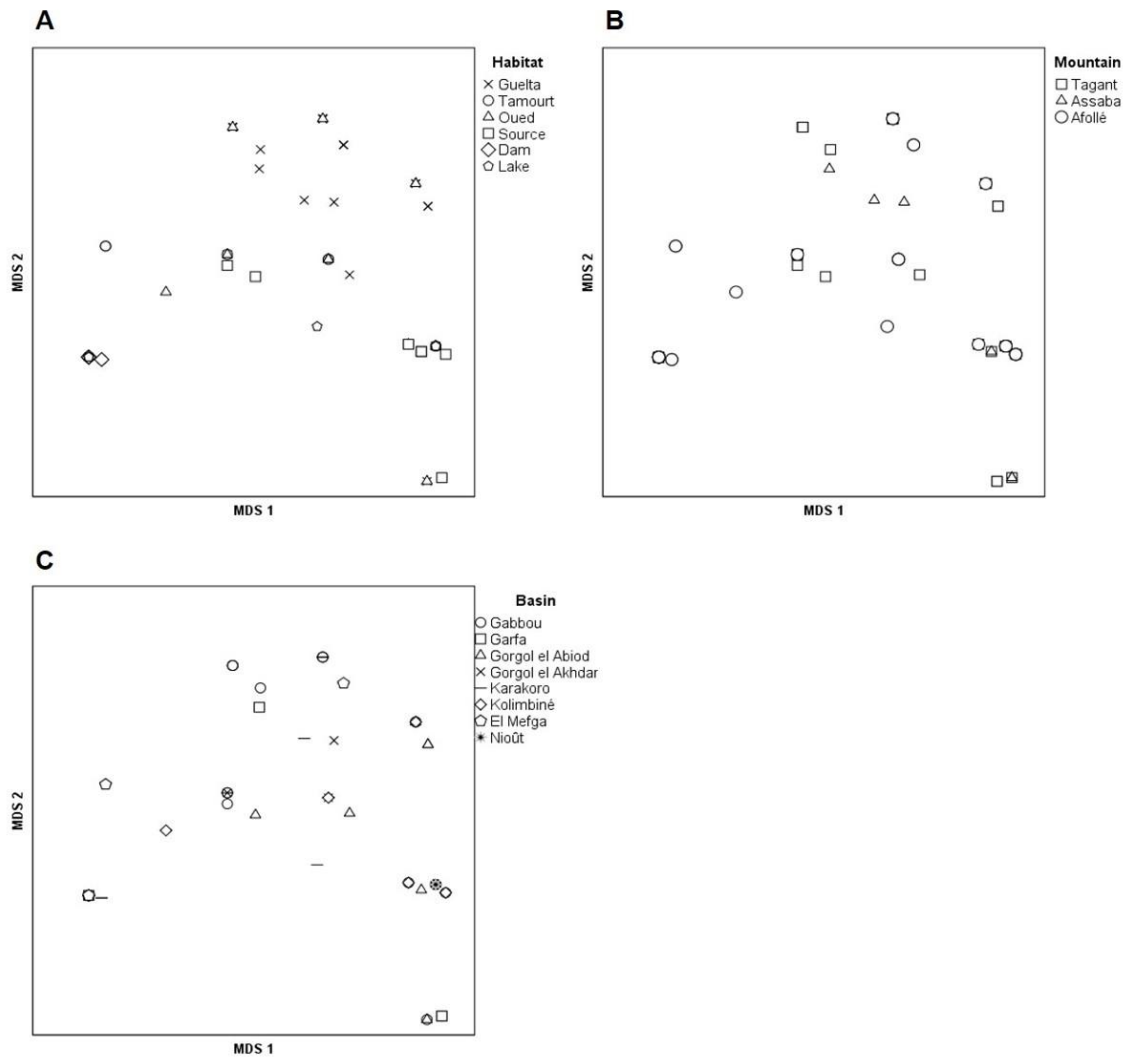


Figure S1. Multidimensional Scaling plots derived from a distance matrix constructed using the presence/absence of the types of threats in each locality. MDS 1 and MDS 2 indicate the two dimensional axes in which the localities were ordinated. The plots represent the factors “type of habitat” (A), “mountain” (B) and hydrographical sub-basins (C).