

Project Update: March 2017

The project had conducted a survey of gharials in the Narayani River within Chitwan National Park with an aim to assess the status of the breeding males and females in different blocks of the riverine stretch. The total count recorded 89 individuals. The size distribution data showed that juveniles, sub-adults and adults comprised 1.1%, 53.9% and 44.9% of the total non-hatchling population respectively. Of the total non-hatchling population, 42 adults were counted of which two are adult breeding males and 40 are adult breeding females. This survey observed a large population of gharials in two locations, namely Khoriya Muhan near the Rapti-Narayani confluence and Velaunji in the downstream water course of Narayani near Nepal-India border. Dispersal of gharials to these areas is due to the availability of sand bars and patch habitat including the sand and rock and deep water. We plan to look into the nesting behaviour and breeding requirements and dispersal of males and females for selection of nesting sites from the last week of March in collaboration with Gharial Conservation and Breeding Centre.

Gharial Survey Datasheet, 2017											
1. Gharial census											
Date	Gharial number	GPS Location		Place	Habitat	Size (A/SA/JV)	Sex (F/M)	River width (m)	River depth (m)	Human disturbance	Remarks
23-Feb	1	227637	3059234	Bhagadi	Sandbank	A	F	70	2.3	Human movement	
23-Feb	1	227296	3059329	Bhagadi	Sandbank	SA		100	1.7	Human movement	
23-Feb	1	225765	3058664	Bhagadi	Sandbank	SA		60	1.25	Human movement	
23-Feb	1	223772	3055829	Dadreni	Sandbank	SA		70	1.5	Human movement	
23-Feb	1	222764	3055719	Dadreni	Sandbank	SA		50	2.75	Human movement	
23-Feb	1	220504	3053920	Sissabans	Sandbank	SA		70	0.75	Thatch collection	
23-Feb	1	216312	3052087	Below Rapti confluence	Sandbank	SA		200	2.7	Overfishing	
23-Feb	1	218313	3051595	Below Rapti confluence	Sandbank	A	F	150	2.5	Overfishing	
23-Feb	4	218313	3051595	Below Rapti confluence	Sandbank	A	F	150	2.5	Overfishing	
23-Feb	5	217527	3050621	Khoriya Muhan	Sandbank	SA		50	1.9	Fishing activities at night	
23-Feb	11	217461	3050582	Khoriya Muhan	Sandbank	A	F	50	1.9	Fishing activities at night	
23-Feb	1	217461	3050582	Khoriya Muhan	Sandbank	A	M	50	1.9	Fishing activities at night	Hermon smell

23-Feb	2	217461	3050582	Khoriya Tundo	Sandbank	A	F	50	1.9	Fishing activities at night	
23-Feb	1	216603	3050396	Khoriya Tundo	Sandbank	A	F	80	1.7	Fishing activities at night	Abnormal body shape
23-Feb	7	216603	3050396	Khoriya Tundo	Sandbank	A	F	80	1.7	Fishing activities at night	
23-Feb	3	216440	3051298	GMC east	Sandbank	SA		100	1.45	Fishermen camping at sandy island	
23-Feb	3	216014	3051264	GMC east	Stone bank	SA		100	2.3	Fishermen camping at sandy island	
23-Feb	2	215290	3051138	GMC south	Sandbank	SA		75	1.9	Fishermen camping at sandy island	
23-Feb	1	214763	3050790	Amaltari	Stone bank	SA		200	2.75	Fishermen camping at sandy island	
23-Feb	2	213399	3050559	Amaltari Ghat	Sandbank	SA		50	2.25	Fishermen camping at sandy island	
23-Feb	1	213399	3050559	Amaltari Ghat	Stone bank	SA		50	2.25	Fishermen camping at sandy island	
23-Feb	2	211961	3051588	Below Amaltari Ghat	Stone bank	SA		300	2.2	Overfishing	
23-Feb	1	210719	3052247	Brahmasthan	Stone bank	A	F	250	2.3	Overfishing	
23-Feb	1	209283	3051563	Ratanpur	Stone bank	SA		75	2.1	Overfishing, livestock grazing	
23-Feb	1	207479	3050277	Nandanpur	Stone bank	SA		100	1.9	Overfishing, livestock grazing	
23-Feb	1	207586	3049886	Gaindakhasa	Stone bank	SA		75	1.6	Overfishing	
23-Feb	3	206936	3049480	Seri	Sandbank	SA		75	4	Human movement	
23-Feb	1	203992	3050421	Badagadi	Sandbank	SA		200	1.3		
24-Feb	1	792106	3050760	Tamaspur	Sandbank	SA		200	2.3	Overfishing	
24-Feb	1	790553	3049725	Nunah	Sandbank	SA		100	3	Overfishing	
24-Feb	2	789508	3050599	Materi	Sandbank	SA		100	3	Overfishing	
24-Feb	1	788309	3019295	Darasing	Sandbank	SA		100	3		
24-Feb	1	788664	3047362	Malebagar	Sandbank	A	F	100	4		
24-Feb	1	791419	3047926	Kathauna Tundo	Sandbank	JV		100	4	Natural recruitment	

24-Feb	2	792199	3018197	Velaunji	Sandbank	SA		150	5		
24-Feb	7	792199	3018197	Velaunji	Sandbank	A	F	150	5		
24-Feb	1	792199	3018197	Velaunji	Sandbank	A	M	150	5		
26-Feb	1	217048	3053044	Jogimara	Sandbank	SA		50	1.3		
26-Feb	1	220961	3058893	Bhosar Ghat	Sandbank	SA		50	3		
26-Feb	3	224408	3060474	Sirki Tappu	Sandbank	SA		75	3		
26-Feb	1	226449	3063103	Chippani	Sandbank	A	F	75	3		
27-Feb	1	230629	3061478	Sisuwar	Sandbank	SA		150	2		
27-Feb	2	230236	3061310	Sisuwar	Sandbank	A	F	150	1.4		
27-Feb	1	228503	3059556	Sisuwar	Sandbank	SA		150	1.85		
27-Feb	1			Bandarjhula	Sandbank	A	F	100	1.9		