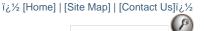


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Distribution and Population Status of the Giant Otter Pteronura brasiliensis in Bolivia

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Abstract: The giant otter (*Pteronura brasiliensis*) is one of the most endangered mammal species in the Neotropical region. In Bolivia, it has been reduced to very low population numbers as a result of poaching in the 40s and 70s. Recently, 14 researchers on the giant otter, who together estimated that around 350 individuals exist in Bolivia, published a preliminary distribution map. In this report, we briefly present the most recent information on the distribution and population status of this species in the Bolivian Del Plata and Amazon river basins. Moreover, we comment on the superposition of giant otter family groups, hydro-ecoregions, and National Parks. Finally, we present a short discussion on the possibilities of interchange between Bolivian giant otter subpopulations.

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INTRODUCTION

The giant otter (*Pteronura brasiliensis*) used to be a common sight in the Bolivian river floodplains. As in all neighbouring countries, the species was decimated to the border of extinction by poaching between the 1940s and 70s. Between 1975 and 1995, the species was only known from very isolated locations in the Mamorič¹/₂, Itič¹/₂nez and Madre de Dič¹/₂os basins (<u>DUNSTONE and STRACHAN, 1988</u>; <u>CAMERON et al., 1989</u>; <u>BARRA et al. 1992</u>). On a continental scale, Bolivia represented one of the black spots on the distribution map of the giant otter (<u>EISENBERG and REDFORD, 1999</u>). This pessimistic view changed with the discovery of relatively healthy populations in the Itič¹/₂nez-Guaporič¹/₂ river basin by <u>PAINTER et al. (1994</u>), <u>GONZič¹/₂LES JIMič¹/₂NEZ (1997</u>), <u>FRASER et al. (1993</u>), <u>van DAMME et al. (2002</u>) and PALMER (pers. comm.). These authors reported a minimum total population of 350 individuals, organized into more than 40 family groups. The present report summarizes the distribution and population status of this species. We also discuss the protection status of the respective giant otter populations and the possibilities of interchange between neighbouring populations. This report is a brief summary of a recently published review (<u>van DAMME et al., 2002</u>).

METHODS

The present report is based on field observations from the period 1993-2002. Some of the observations have been published in scientific articles (<u>TEN et al., 2001</u>), but most were only available in relatively inaccessible reports (<u>FRASER et al., 1993</u>), Management Plans of National Parks (<u>FAN-WCS, 1994</u>; <u>PAINTER et al., 1994</u>), RAP expedition reports (<u>EMMONS, 1998</u>) and student theses (<u>GONZïč½LES JIMïč½NEZ, 1997</u>; SARAVIA, unpubl.). None of the previously mentioned authors used a standardized methodology, though there are some constant patterns in their approach. For example, most observed otters from a boat, which in most cases was equipped with an outboard motor. Some observations were made in the framework of other studies on neotropical mammals.

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FRASER et al. (1993) conducted a study on giant otters in the River Itïč¹/₂nez. <u>GONZïč¹/₂LES JIMENEZ (1997)</u> and <u>van</u> <u>DAMME et al. (2002)</u> focused their attention on the River Paraguïč¹/₂, on the western border of the Noel Kempff Mercado National Park. <u>PAINTER et al. (1994)</u> conducted field surveys in the Blanco, Negro, Negro de Caimanes and San Martin rivers, whereas <u>TEN et al. (2001)</u> focused on more downstream segments of the latter river and other rivers in the Itïč¹/₂nez National Park. In addition, isolated observations were made by REBOLLEDO and QUIROGA (unpublished data) in the Bolivian Pantanal, VARGAS (unpublished data) in the Etanahua river (Madidi River basin), TORRES (unpublished data) in the Ipurupuru River (Itïč¹/₂nez-Guaporïč¹/₂ basin), and WALLACE, PAINTER, TABER and RUMIZ (unpublished data) in the Itïč¹/₂nez-Guaporïč¹/₂, Negro and San Martin rivers (for a summary see <u>van DAMME et al. 2002</u>).

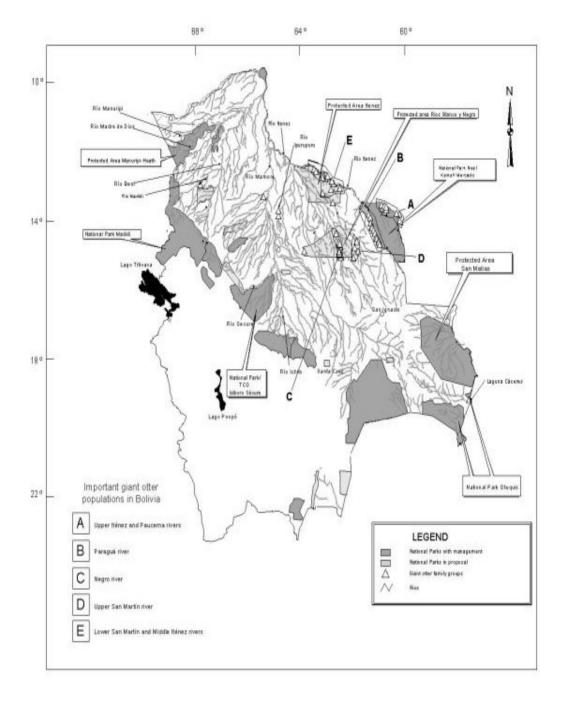
RESULTS

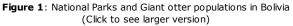
Distribution and population status

Distribution data are presented in Fig. 1. More detailed results can be obtained in van DAMME et al. (2002).

In Bolivia the largest populations of giant otter occur in the **Itïż½nez-Guaporïż½** river basin. In this basin, four important populations were reported:

- a rather large population in the Parque Nacional Noel Kempff Mercado and its surroundings, in the upper Itïċ½nez-basin (EMMONS, 1998; FRASER et al., 1993; GONZïċ½LES JIMïċ½NEZ, 1997, WALLACE and PAINTER, unpublished data; van DAMME et al., 2002; PALMER, pers. comm.). Most of the giant otters were found in the rivers (Itïċ½nez, Paraguïċ½, Tarvo) and dead river arms that border the National Park. This population probably consists of more than 100 individuals.
- a subpopulation in the middle It�nez basin and in the lower parts of some tributaries, e.g. San Martin, in the It�nez Reserva and its surroundings (<u>TEN et al., 2001</u>; TEN, unpublished data). This population consists of more than 120 individuals.
- a smaller population in the upper parts of the same tributaries, i.e. the R�os Blanco y Negro Wildlife Reserve and surroundings (<u>PAINTER et al., 1994;GONZ�LES JIM�NEZ, 1997</u>; RUMIZ, unpublished data). This population consists of around 44 individuals.
- a very small isolated population was recorded in the Upurupuru and Negro Caimanes rivers, in the lower It�nez river basin. In contrast with the above-mentioned rivers, these do not drain the Precambrian Shield, but the Beni alluvial lowlands.





AUTHOR	SURVEY YEAR	STUDY AREA	RIVERS	HABITAT	POPULATION ESTIMATES
PALMER (unpubl. data)	2001			River channels and old river arms that are permanently connected with rivers	
van DAMME et al (2002)		National Park Noel Kempff Mercado / Indigenous Territory Bajo Paraguïć ½	5	, s	Paraguïċ½: 21 groups / 76 ind.
T <u>EN et al</u> (2001) TEN	2001		ltič ½nez, Negro de Itič ½nez, San Martin, San Simïč ½n, San Antonio		San Martin: 89 ind. Itïä ½nez: 6 groups / 40 ind.

(unpubl. data)					
<u>GONZALES</u> JIMïċ¹⁄2NEZ		National Park Noel Kempff Mercado / Indigenous Territory	-	River channels and old river arms that are permanently connected with rivers	-
<u>(1997)</u>		Bajo Paraguïċ½			
PAINTER et al	1992	Wildlife Reserve Rïċ½os Blanco	, , , ,		Negro:
<u>(1994)</u>		y Negro	Caimanes		12 groups / 44 ind.
WALLACE					
(unpubl. data)					
FRASER et al	1992	National Park Noel Kempff		River channels and old river arms that	
(1993)		Mercado		are permanently connected with rivers	5 17
					Paucerna:
					2 groups / 9 ind.
					Itïċ¹⁄₂nez:
					6 groups / 26 ind.

In the **Mamori***i*¹/₂ river basin, very few giant otters have been recently observed. In the upper Mamori*i*¹/₂ basin, some historical records exist. The last known group in the Ichilo river basin (in an oxbow lake of the Sajta river) was extinguished a few years ago. The last giant otters in this river basin may occur in the Isiboro-Sï*i*¹/₂cure National Park, where indigenous people have observed them.

Finally, in the most western parts of the Amazon basin, in the **Madre de Dïč½cos** and **Beni** river basins, individual otters or isolated family groups were recently recorded in the Heath, Madidi, Etanahua, Tuichi, Hondo, Quiquibey, Emero and Tequeje rivers (WALLACE et al., unpublished data; <u>MONTAMBAULT, 2002</u>; VARGAS, unpublished data). CARBAJAL (pers.comm.) recently observed a group of 8 giant otters in the Manuripi-Heath National Park (not indicated in Fig. 1). A systematic survey of these rivers has not been carried out so far.

In the basin of the **Paraguay river**, the giant otter has not been studied very well, though it may be expected to occur given its proximity to the Brazilian pantanal, where a relatively large population of giant otters occurs (<u>SCHWEIZER, 1992</u>). Recently, a family group was observed in the Cïć ½ceres lake, within the Otuquis National Park (REBOLLEDO Y QUIROGA, pers. comm.).

Habitat selection

Recently, <u>NAVARRO and MALDONADO (2002)</u> proposed a classification of Bolivia in hydro-ecoregions. Within the distribution range of the giant otter in the Amazon and De Plata basins, they distinguished three hydro-regions: the alluvial lowlands, the Precambrian Shield and the Oriental Mountain Ridge (<u>Table 2</u>).

	HYDRO-ECOREGIONS AND	PAST OR PRESENT	TOTAL NUMBER OF INDIVIDUALS	% OF	
No	SECTORS	OBSERVATIONS 1	REPORTED ²	INDIVIDUALS ²	
ΗY	DRO-ECOREGION: ALLUVIAL LOW	LANDS			
1	Holocene deposites	+	0	0	
2	Fluvial seasonal alluvial lowlands	+	19	5.1	
3	Fluvial alluvial lowlands	+	0	0	
4	Dry alluvial lowlands	-	0	0	
5	Chaco Piedemonte	-	0	0	
6	Hills, Ridges and Mesetas	-	0	0	
HY	HYDRO-ECOREGION: PRECAMBRIAN SHIELD				
7	Alluvial lowlands of the Precambrian Shield		340	90.4	
8	Penillanura laterïċ½tica	+	17	4.5	
9	Chiquitano mountain ridge and mesetas	-	0	0	
10	Mesetas from the Precambrian Shield	-	0	0	
ΗY	HYDRO-ECOREGION: ORIENTAL MOUNTAIN RIDGE				
	Fluvial seasonal mountain ridge and hills	+?	0	0	
12	Fluvial mountain ridge and hills	+?	0	0	
13	Fluvial seasonal sub-Andean valleys	+?	0	0	
14	Fluvial seasonal Piedemonte	+	0	0	

Table 2 : Number and percentage of individual <i>Pteronura brasiliensis</i> reported in different hydro-
ecoregions (division in hydro-ecoregions based on NAVARRO and MALDONADO, 2002)

1 + Present

- Absent

+? Probably present (based on anecdotal / historical reports)

2 Anecdotal and historical reports were not included

Among the sectors that can be distinguished in these hydro-regions, the giant otter was most often reported in the alluvial lowlands of the Precambrian Shield (88.5% of all individuals), overlapping with the floodplain of the Itïċ½nez-river and some of its tributaries (Paraguïċ½ and San Martin rivers). Fewer individuals were recorded in the Fluvial alluvial lowlands of the white-water floodplains of the Mamorïċ½ and Madre de Dïċ½os rivers, whereas in other sectors only anecdotal and historical reports were available. Overall, more than 85% of the observations so far were made in small rivers, most of them draining the Precambrian Shield. So far, very few giant otters have been reported in white-water oxbow lakes, though they are expected to occur.

Protection status of the giant otter

Current data (Table 3) suggest that only 7% of giant otters can be found in protected areas with a management plan. Twenty four percent were observed in rivers that are borders between National Parks and indigenous territories. Eight percent were found in international rivers that represent the border of Bolivian National Parks and 61% were found in areas without adequate official protection status.

Table 3: Number and Percentage of *Pteronura brasiliensis* reported from National Parks, Indigenous Territories, areas in the process of titulation, areas without protection, in rivers that represent limits between different types of areas and in international rivers

CATEGORY	NUMBER OF INDIVIDUALS REPORTED	% OF INDIVIDUALS REPORTED
Within protected areas	27	7.0
Immovilized parks (with management plan) partly superposed with indigenous territories	134	34.7
Within National Parks with uncertain conservation status	45	11.7
Within Indigenous Territories (TCO) $ frac{1}{2}$	0	0
In rivers that are borders of National Parks and Indigenous Territories	86	22.3
In international rivers (Brazil, Peru) that are at the same time borders of National Parks	68	17.6
Areas without official protection status	26	6.7

¹ The giant otters observed in the TCO Tacana were not included

DISCUSSION

The giant otter is a rare species in Bolivia and is found only in National Parks and in remote areas. According to preliminary estimates, the minimum population size is 350 individuals. However, the effective population size is much smaller, considering that each family group consists of only two adults. The population status is particularly alarming in the white-water floodplains of the Amazon (Mamorïä¹/₂, Beni and Madre de Dïä¹/₂os river basins), though low estimates may partly reflect low research effort in this area. In the Itïä¹/₂nez-Guaporïä¹/₂ river basin, however, relatively healthy populations can be found in the black-water floodplains of the rivers San Martin, Paraguïä¹/₂, Paucerna, Itïä¹/₂nez and Negro.

One of the central issues in conservation science is the degree of isolation of animal populations. <u>EISENBERG</u> (1989) and <u>EISENBERG and REDFORD (1999)</u> indicated that the actual giant otter populations have a patchy distribution in the Amazon, with little possibilities of gene interchange. Connection of Peruvian and Bolivian populations in Peru is highly probable considering the conservation status of the border area (Bahuaja-Sonene and Madidi National Parks in Peru and Bolivia, respectively). The nearby populations in Brazil (> 500 ind.) can be found in the Bolivian Pantanal (<u>SCHWEIZER, 1992; CARTER and ROSAS, 1997</u>), but connection between the Amazon and Pantanal populations is less probable given the fact that the Pantanal belongs to the La Plata river basin and that interchange can only be realized over land, which is heavily affected by deforestation. In the Brazilian states of Rondonia and Mato Grosso, some conservation units neighbouring the Noel Kempff Mercado and Itič1/2nez National Parks might also harbour giant otters, though so far there are no otter reports from these areas.

Within Bolivia, connection between the upper Itiż ¹/₂nez and middle Itiż ¹/₂nez populations is highly probable (subpopulations A and E in Fig. 1). The major human impact on this river is commercial navigation and commercial fisheries, but it is thought that these activities do not disrupt the function of the River Itiż ¹/₂nez as a corridor for giant otters. The population in the upper San Martin and Negro rivers (subpopulations C and D in Fig. 1) may be relatively more isolated as they are separated from the lower river populations by a colonized area, characterized by increased deforestation and habitat destruction. Interconnections of the populations of the Blanco y Negro protected area (subpopulations C and D in Fig. 1) and the Noel Kempff Mercado National Park (subpopulation B) might be realized by individuals that cross terra firma forest. According to some authors (WALLACE, pers. obs.) giant otters may cross high forest stretches, but the relative importance of this terrestrial route is not known. In Surinam and Guyana, the giant otter seems to prefer slow-moving rivers with transparent water (<u>DUPLAIX</u>, <u>1980</u>; <u>LAIDLER</u>, <u>1984</u>). This also seems to be the case in Bolivia, where giant otters are predominantly found in the so-called black- or clear-water rivers that drain the Precambrian Shield. These rivers are characterized by a high water transparency, abundance of submerged and emergent macrophytes (<u>KILLEEN and SCHULENBERG</u>, <u>1998</u>) and the occurrence of steep riverbanks. The giant otters prefer the downstream segments of these rivers, upstream parts probably not providing enough food to sustain viable populations.

In the past, giant otters probably inhabited white-water oxbow lakes, an otter habitat similar to the one described for this species in the Man� and Bahuaja-Sonene National Parks in Peru (<u>SCHENK and STAIB, 1998;</u> <u>GROENENDIJK et al., 2001</u>), and in lakes of tectonic origin. This is indicated by their relict presence in these habitats in the white water floodplains of the rivers Mamorïč½, Beni and Madre de Dïč½os. There are also indications that they occurred historically in the clear water tributaries of these white water rivers. The white water river channels themselves were possibly used as corridors for colonization of new river stretches or lakes.

There are strong indications that general habitat characteristics determined the original distribution patterns of giant otters in Bolivia. Other factors, such as food availability, and carrying capacity may become important in smaller river basins where the carrying capacity for giant otters is reached, such as on the rivers Paraguïż½, San Pedro and San Martin in the Itïż½nez river basin. In some of these rivers, competition for fish with fishermen may already occur (van DAMME et al., in prep.). The spatial distribution and the abundance of the fish resource may also determine giant otter group size. For example, in the lower San Martin river, large groups of up to 20 individuals (possibly 2 or 3 family groups that temporally feed together) are sometimes formed around fish-rich river stretches that dry up in summer (TEN, pers. obs.).

Nevertheless, current distribution pattern of giant otters in Bolivia may reflect the ease of human access to areas where giant otters originally occurred. The giant otter is extremely susceptible to hunting pressure. Its large size, diurnal activity and social behaviour make it an easy prey for fishermen who assert that giant otters compete with them for fish, and to occasional hunters in search of a trophy (OJASTI, 1996; GROENENDIJK et al., 2001). The negative correlation between human population density and otter occurrence suggests that human presence represents a major threat to the species and is probably related to the booming skin trade of the last century, In Bolivia, occasional kills, habitat loss and disturbance caused by river traffic seem to be important causes of current population stagnation or decrease (van DAMME et al., 2002). Mercury contamination (MAURICE-BOURGOIN et al., 1999) and demographic isolation of populations may represent additional threats that will need to be seriously considered in the future. This situation makes the development of national research and conservation strategies for the species a pressing priority, particularly given the flagship nature of the species, the globally threatened situation for giant otters, the probable ecological importance of the species, and the potential economic importance in terms of ecotourism opportunities.

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Rïč¹/2sumïč¹/2 : Rïč¹/2partition et Statut des Populations de Loutres Gïč¹/2antes *Pteronura brasiliensis* en Bolivie

La loutre g�ante (*Pteronura brasiliensis*) est l'une des esp�ces de mammifere les plus menac�es de la ceinture n�otropicale. En Bolivie, les effectifs des populations se sont effondr�s du fait du braconnage durant les ann�es 50 et 60. R�cemment, 14 lutrologues ont produit une premi�re carte de r�partition, estimant � environ 350 l'effectif total de loutres g�antes subsistant dans le pays. Le pr�sent article rapporte bri�vement les connaissances les plus r�centes concernant la r�partition et le statut des populations de l'esp�ce sur les bassins boliviens de 1'Amazone et du Rio del Plata. Est ensuite �tudi�e la correspondance entre groupes familiaux de loutres, hydro-ecor�gions et Parcs Nationaux. Les possibilit�s de brassage entre differ�ntes sous-populations boliviennes de loutres sont enfin discut�es.

Resumen: Distribuciïċ1/2n y Estado Poblacional de la Nutria Gigante Pteronura brasiliensis en Bolivia

La nutria gigante (*Pteronura brasiliensis*) es uno de los mamiferos mïä½s amenazados de la regiïä½n Neotropical. En Bolivia ha sido reducida a muy poco nïä½meros como resultado de la caza durante los 50s y 60s. Recientemente 14 especialistas en nutrias han publicado un mapa preliminar de distribuciïä½n en el que se estima que aproximadamente unos 350 individuos existen en Bolivia. En esta nota presentamos brevemente informaciïä½n mas reciente sobre la distribuciïä½n y el estado poblacional de esta especie en la cuenca boliviana de los rïä½cos Amazona y del Plata. Ademïä½s comentamos la superposiciïä½n de grupos familiares de nutria gigante con hidroregiones y parques nacionales. Por ultimo, presentamos una breve discusi�n sobre las posibilidades de intercambio entre las subpoblaciones bolivianas de la especie. Vuelva a la tapa

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