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<th>The Process of Creation of a New Protected Area in the Democratic Republic of Congo: The Case of the Iyondji Community Bonobo Reserve</th>
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</tr>
<tr>
<td>Citation</td>
<td>Pan Africa News (2013), 20(1): 10-13</td>
</tr>
<tr>
<td>Issue Date</td>
<td>2013-06</td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://hdl.handle.net/2433/177623">http://hdl.handle.net/2433/177623</a></td>
</tr>
<tr>
<td>Copyright</td>
<td>© Pan Africa News.</td>
</tr>
<tr>
<td>Type</td>
<td>Article</td>
</tr>
<tr>
<td>Textversion</td>
<td>publisher</td>
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INTRODUCTION
Great ape populations across Africa are in crisis. Their original habitat is decreasing rapidly, and only an estimated 10% will be left undisturbed by 2030 if current trends continue (Stiles et al. 2013). The rate of suitable habitat loss for bonobos is particularly high, estimated at 29% between the 1990’s and 2000’s (Junker et al. 2012). The total bonobo range area is about 418,803 km², but only 97,975 km² is considered as suitable habitat (IUCN/SSC A.P.E.S. Portal http://apesportal.eva.mpg.de/). An estimated 42% of this suitable habitat is gazetted in protected areas (Campbell et al. 2012), with most of this within...
the one Salonga National Park. In order to maximize the conservation of the cultural, genetic and ecological diversity of the bonobo, and to address the loss of critical habitat, it is imperative to establish a network of protected areas (PAs) that can sustain viable bonobo populations.

In 2012, as a next step towards such a network, the African Wildlife Foundation helped gazette a new bonobo protected area (PA), the about 1,100 km² Iyondji Community Bonobo Reserve (Figure 1). The establishment of this bonobo PA and detailed information about bonobos living there were reported elsewhere (Sakamaki et al. 2012). This article describes the significance of this PA as a case study of the application of the Heartland Conservation Process (HCP) (Henson et al. 2009) in one macro zone in this landscape, and as a potential model for collaboration between local communities, researchers and a conservation NGO.

IDENTIFICATION OF THE PROPOSED PROTECTED AREA

The African Wildlife Foundation (AWF) has worked in the 74,000 km² Maringa-Lopori-Wamba Landscape (MLW, CARPE, USAID) within the bonobo distribution range since 2004 (Dupain et al. 2009). As a desired outcome in the MLW, AWF aims at the creation of a network of interconnected protected areas covering 15% of the landscape. To achieve this conservation goal, AWF utilizes an approach that was developed and implemented as part of the overall Heartland Conservation Process. The HCP balances science-based landscape scale conservation planning with the sustainable aspirations and needs of local people. Thus informed by a combination of habitat suitability analysis, assessment of human threats and vulnerability to deforestation (Nackoney & Williams 2012), consideration of future population-driven demand for land (Nackoney & Williams 2013) and the outcomes of a defined public participation strategy, a conceptual model for a land use plan was developed (Dupain et al. 2008, 2010). The plan created a sustainable vision for the landscape featuring various management zones including a network of community conservation and PAs.

One PA zone targeted a forest block abutting the Luo Scientific Reserve (Furuuchi et al. 1998). Local communities were invited to a series of meetings as part of the public participation strategy for advancing the land use planning process (Sidle et al. 2012). These local communities expressed their wish to realize this vision through the Japanese research team (Wamba Committee for Bonobo Research-WCBR) and requested help from the WCBR and AWF for the establishment of a bonobo community reserve (Sakamaki et al. 2012).

Initial qualitative surveys were conducted and the feasibility of the creation of a PA was evaluated (Likondo et al. 2007; Likondo 2008). Evaluation focused both on the biodiversity value and on the social context and the attitude and expectations of the local communities. Throughout the process, open consultation was organized with the local communities (the villages Yokali and Yohala of the Groupement Iyondji). Land use and land tenure was looked at in more detail (Kasalevo & Lingomo 2010). Subsequently, a Land Use Planning Strategy Document was developed and implemented (Kasalevo & Dupain 2010). The research team from Kyoto University's WCBR provided technical expertise for implementation of large mammal surveys with a focus on bonobos.

THE PROCESS OF GAZETTEMENT

Once the surveys confirmed the biological value and the local communities had reached agreement on objectives, AWF initiated and facilitated the creation of the Iyondji Community Bonobo Reserve (ICBR) by following the procedures as outlined in the Ministerial Decree of April 2008: Décret n° 08/08 du 08 avril 2008 fixant la procédure de classement et de déclassement des forêts, Journal Officiel de la République Démocratique du Congo, 49ième année, nr spécial, lière partie 10 mai 2008, 7pp.

Local politico-administrative authorities (Groupement, Secteur, Territoire) consulted with the local communities and validated the draft management plan (see Kasalevo 2010). Following the government statutes, a Provincial Consultative Council is expected to give its opinion on management plans. However, in absence of this council, the Provincial Governor gave his approval. A document for creation of the PA was developed and presented to the Ministry of the Environment and Nature Conservation. This document featured results of biological and socio-economic surveys, the formal consent of the communities, and the proposed geo-referenced limits of the future PA, and was evaluated by a committee of experts assigned by the legal advisor of the Ministry. Upon validation of this document by the aforementioned committee, the protected area was officially gazetted through the Ministerial Decree, signed on April 12th 2012 (Arrêté Ministériel N° 020/CAB/MIN/ECN-T/15/ JEB/012 du portant classement de la Forêt de l’Iyondji).

DISCUSSION

The official gazettement of the ICBR in April 2012 brings the total area of bonobo habitat in formal protected areas within the 74,000 km² MLW landscape to 9,247 km² or 12.5%. With the Luo Scientific Reserve and Kokolopori Bonobo Reserve, ICBR contributes to a contiguous 5,627 m² bonobo conservation stronghold (see Figure 1). The process of creation of the ICBR is well documented and represents the first PA created following the Ministerial Decree of 2008. The process proved straightforward, feasible to replicate, and thus provides a model for gazettement of other suitable PAs.

The identification and subsequent establishment of the new PA in the MLW landscape combined science driven spatial modeling with the aspirations expressed by local communities. The latter is only possible if those communities are well informed on the processes to be applied. For this, the public participation strategy was of utmost importance. The transparent, collaborative effort between local communities, researchers and conservation NGO greatly improved the efficiency of this endeavor. For example, having researchers on the ground allowed for day to day monitoring of survey related activities, but also of the attitude of the local communities. For its part, AWF had the conservation expertise and network to facilitate...
the official procedures and contacts with local, provincial and national authorities.

This new PA contributes to improved conservation of genetic diversity within the overall bonobo population (Kawamoto et al. 2013). The development of a network of PAs throughout the bonobo suitable habitat will maximize the conservation of cultural, genetic, and ecological diversity of the species. The ICBR, while not large in size, advances these desired outcomes.

Going forward in the MLW landscape, AWF will focus on two directions:

- Assure continuous connectivity between the anchor PAs to provide genetic linkages between the region’s wildlife populations. Connectivity zones will protect habitat between PAs from uncontrolled land use and land cover change. AWF, in partnership with the University of Maryland, continues its support of participative micro zoning in community managed forest between the current PAs in the MLW landscape.

- Bring total surface of bonobo-habitat in PAs in the landscape to 15%. At the time of writing, an area has been identified through spatial modeling and consultations with the local communities has commenced.

Additionally, it is critical to support the management of the new PAs and assure their future sustainability/ viability. The WCBR continues to provide technical support for the habitation of bonobos at two field camps within the PA (Sakamaki et al. 2012). AWF continues to support the local NGO “Forêt des bonobos” and the DRC wildlife authority, the Congolese Wildlife Authority (ICCN) in the development and implementation of a management plan for the Iyondji Community Bonobo Reserve. Initiatives with other organizations and donors, e.g. IUCN small grants program, are also taking shape. Through the process outlined herein, AWF hopes to mitigate the steady loss of habitat and habitat suitability in the MLW landscape and create a network of protected areas that can sustain bonobo populations.

ACKNOWLEDGEMENTS

This project would not have been possible without the partnership with the Wamba Committee for Bonobo Research. The same is true for the local NGO, Forêt des Bonobos, the local Iyondji communities of Yokala and Yofala, and the Centre de Recherche en Ecologie et Forêsterie (CREF) of the Democratic Republic of Congo. Support is given by the Ministry of Environment and Nature Conservation and the Ministry of Scientific Research of the Democratic Republic of Congo. The present project was financially supported by the US Fish and Wildlife Service Service Award (96200-0-G017 to AWF), Grants-in-Aid for Scientific Research of the Japanese Ministry of Education, Culture, Sports, Science and Technology, and the JSPS Primate Origins of Human Evolution (HOPE) project (AS-22-027, ITP-23-006 to T. Sakamaki), the Regina B. Frankenberg Foundation, and Disney Worldwide Conservation Fund.

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