Title
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Linking Local Perceptions of Elephants and Conservation:
Samburu Pastoralists in Northern Kenya

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Abstract:
This paper examines the development and implementation of a grassroots elephant conservation program based upon the Samburu people’s perceptions and knowledge of elephants in the areas surrounding the Samburu and Buffalo Springs National Reserves in Northern Kenya. Ethnographic methods were used to understand these perceptions and demonstrated that strong customs and traditions for conserving wildlife, particularly elephants, exist among the Samburu people. It became evident that these customs are changing given various factors influencing Samburu culture and younger generations. The use of economic incentives is a widely accepted method to foster positive attitudes and behavior towards wildlife. The value of using ethnographic methods to reinforce positive indigenous knowledge about wildlife, however, is underestimated. This case study highlights the significance of using ethnographic methods in community conservation program design. The paper demonstrates that in local contexts where cultural perceptions and traditions towards elephants are largely positive, this is a viable approach for community based wildlife management that is complementary to economic incentives programs.

Introduction:
Community wildlife conservation programs have been based traditionally on the premise that humans and wildlife have conflicting existences and that monetary incentives can ameliorate these relations or modify behavior (Child, 1996; Western, 1994; Metcalfe, 1994; Bromley, 1994; Hulme and Murphee, 1999, Barnes, 1996). One example is the CAMPFIRE program in Zimbabwe that aims to enable grassroots institutions to earn revenue from wildlife in order to provide incentives for conservation (Child, 1996). Other programs assert that that local resource users must view wildlife as having economic values that outweigh the costs that they impose (Hulme and Murphee, 1999, Barnes, 1996, Thouless, 1994).

While the use of monetary incentives in wildlife conservation aims to remedy contentious relations, there is a danger that relying solely on such incentives can create new relationships of economic dependency and unsustainable expectations for compensation to tolerate wildlife. In the process of defining community areas of wildlife conflict, conflict interactions may be routinized and naturalized (Brosius, 1999)1. There is also a risk in defining concepts such as “conflict” or “community” without regard to the local context or political implications (Brosius et al, 1998). Although these concepts are useful in promoting conservation and local empowerment, they are fragile, mutable and highly variable. An awareness of changing contexts within which programs are designed and implemented is essential (Brosius et al, 1998; Kleymeyer, 1994).

In the Samburu District, in northern Kenya, local people have demonstrated a value for wildlife, particularly elephants for reasons not solely based on economics. Ethnographic information was gathered to understand the dynamic relationship between the Samburu pastoralists and elephants. It became evident that strong customs and traditions for conserving elephants exist among the Samburu people. However, these traditions are changing given the various factors influencing the Samburu people and their younger generations. While acknowledging the fragility of indigenous practices and changing behavior towards wildlife, Samburu customs and perceptions of wildlife were utilized in the design of an elephant conservation program.

Traditionally, economics has received more attention as a tool to describe and modify human behavior towards wildlife than ethnography. The program described here uses ethnographic methods in community conservation program design and does not limit local involvement in conservation strictly to economic benefits or compensation. Ethnographic methods are defined hereby as the gathering of information regarding local knowledge pertinent to the cultural perceptions on a particular topic, like elephants. It is based on the principle that cultural

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1 This refers to the premise that discourse is important and constitutive of realities. Brosius emphasizes the importance of the vocabulary used to frame engagements with environmentalism.
mechanisms are resources that can be used to facilitate changes in human perceptions towards the environment. This builds on the idea that customs and patterns maintain a dynamic process of creative invention and reinvention, lending itself to a strategy of reviving cultural forms and traditions to effect and serve change (Kleymeyer, 1994). This program aims to reinforce positive customs and perceptions of wildlife in order to foster tolerant attitudes towards elephants through a two-way system of education, involvement of local people in conservation and research, and small incentive projects.

The Local Context for the Program:

The grassroots program for the organization, Save the Elephants, targeted the Samburu communities in the areas surrounding the Samburu and Buffalo Springs National Reserves. The Samburu District, in the northern half of the rift valley in Kenya, is a semi-arid area comprised of communal lands inhabited by Samburu pastoralists (Republic of Kenya, 1997). The Samburu people, Maa speakers, are found in the areas stretching north from Mt. Kenya to Mt Kulal on the eastern side of Lake Turkana (Spencer, 1965; Wilson, 1989). The Samburu District has two local authorities, the Samburu County Council and the Maralal County Council (Republic of Kenya, 1997).

The Samburu County Council established the Samburu National Reserve in 1962. In 1963, the Isiolo County Council, gazetted the Buffalo Springs National Reserve, an adjoining area south of the river (Wilson, 1989). These two national reserves are approximately 330 square km². There are about 750 elephants that have been identified to use the reserves. However, the numbers of elephants within these protected areas fluctuate constantly, since the elephants are free-ranging and require a greater area than the demarcated reserves (Wittemyer, 2001). Thus the elephants spend a significant amount of time on community lands. Tourism from wildlife viewing creates a source of income and employment for local people and the two district governments. More than 90% of the total revenue of the Samburu County Council comes from the reserve (Republic of Kenya, 1997).

Pastoralism is the main economic activity within the Samburu District with approximately 80% of the population holding livestock (Ibid). The context of pastoralism has been changing with increases in human and livestock populations, expansion of agriculture, political insecurity, market dependence and wealth differentiation. As a result, pastoral groups are increasingly marginalized and impoverished (Western, 1994; Galaty, 1981). These groups have had to adapt their way of life and resource management practices to a new and changing environment (Hogg, 1985; Dyson-Hudson R. 1972; Western, 1994).

Although the pastoralist livelihood has sometimes been regarded as a threat to the conservation of wildlife due to the overgrazing of wildlife lands, studies indicate that pastoralists generally maintain sustainable relationships with their environment (Collett, 1987; Reid and Ellis, 1995). It is critical, however, not to idealize or romanticize the practices of indigenous people as having a higher environmental ethic than that of the industrialized world (Kleymeyer, 1994). Consequently, Samburu relationships with wildlife are dynamic and influenced over time by various factors, such as droughts, decreasing grazing lands, political instability, modernization, and human encroachment on traditional wildlife lands.

Human- Elephant Interactions

Recent human encroachment into elephant habitat throughout the Samburu District and competition over resources has caused periodic conflict between the two species. Conflicts are primarily over access to water during drought years. The Ewaso Ngiro is the primary source of permanently flowing water in the Samburu District. During the dry seasons or when the seasonal rains fail, the Samburu people and elephants must dig wells in the sand rivers and use small dams and springs to access water. In the attempt for humans and elephants to attain water simultaneously, elephants may chase or even kill cattle (Thouless, 1994). The exact numbers of cattle killed per year are difficult to assess because local people have little incentive to report cattle deaths since they do not receive compensation from the Kenya Wildlife Service (Kenya Wildlife Service, 2000).

In some areas of the Samburu District, elephants also present a danger to people who are herding cattle or walking in thick bush with occasional human deaths (Thouless, 1994).
Compensation for the loss of human life by wildlife is a contentious issue since it is difficult to place monetary value onto human life. Local people have commented that the current payment by the Kenya government is inequitable because it is insufficient to pay for funeral expenses, hospital bills or costs for surviving children (Kenya Wildlife Service, 2000).

Although human deaths due to wildlife have devastating implications for low-income families, the risk of being killed by an elephant is low compared to other causes of human deaths in Kenya. Between 1989 and 1994, 230 people were reported to be killed by all wildlife in Kenya (Kenya Wildlife Service, 2000). This compares with 1500 Kenyans reported to be killed each year due to public transportation accidents or 26,000 Kenyan children each year who die from malaria (Van Marsh, 1999; Malaria Foundation, 2000).

There are several human causes that lead to elephant mortality including poaching for ivory or meat, problem animal control, ritual hunting and sport hunting (Kangwana, 1996; Barnes, 1996). Aerial surveys of the Samburu/Laikipia population in 1999 were used to determine the proportion of dead elephants to the total population. The results of the aerial survey indicate that elephant mortality occurred in Samburu, but was relatively low (King et. al 1999).

Application of Local Perceptions in Program Design

Basic ethnographic information about perceptions of elephants was collected in the Samburu District. Information from interviews, such as local strategies, legends and stories, became tools in the program design to reactivate the fading indigenous knowledge about wildlife and to incorporate Samburu beliefs into conservation objectives. Qualitative methods were used such as participant observation, informal interviews and group discussions with various social delineations within Samburu society, specifically elders, men, women, warriors, and youth. This was also a useful channel for education as participants learned from each other. Logical Framework Analysis (LFA) techniques were utilized at the onset of the project and group discussions took approximately 2 hours each. After the participants identified their problems, they proposed strategies they believed would be most effective to alleviate them (Table 1).

The strategies from the LFA, which the Samburu participants prioritized, broadly encompass issues of security and compensation in various forms. Water is a desired resource, since most of the Samburu areas are semi-arid (Republic of Kenya, 1997). Most of the participants indicated that boreholes could relieve their conflicts with wildlife. The Samburu participants, particularly the elders, asserted that the loss of traditions is a problem that will affect the relationship between the Samburu and wildlife. The elders indicated that many of the cultural beliefs and traditional Samburu customs regarding wildlife are changing as a result of the introduction of western education, the influx of weapons into the region, decreasing grazing areas, and economic development programs. They asserted that disparities are forming between more traditional customs and their influence on daily actions, making the dissemination of such values to younger generations difficult. Additionally they expressed the need for more conservation education for youth, as younger generations did not understand the importance of wildlife to the same degree as the older generations.

The LFA discussions with the women’s groups illustrated changing attitudes towards wildlife. They asserted that wildlife has important cultural significance to the Samburu. They indicated, however, that because of tribal clashes, insecurity in the Samburu area, and widespread poverty, the youth have more incentives to kill wildlife for quick economic profits. Also, as more Samburu children begin to attend and walk to schools, the women fear that wildlife will present greater safety problems for their children in the bush. They expressed that since their children largely do not understand the cultural or economic importance of wildlife as they spend more time away from their homes, wildlife education as well as jobs in the wildlife industry become more necessary for the youth.

The proposed local solutions such as education initiatives for youth and support for cultural traditions became priorities for the grassroots program from its inception. Other solutions such as the construction of boreholes were not in accord with the general objectives of the conservation organization under which the program was implemented nor financially feasible.

With the collection of ethnographic information, it became apparent that strong knowledge of elephants exists, which influences behavior towards these animals. The relationship between the Samburu and elephants is influenced by various costs and benefits
elephants bring to people as well as cultural perceptions of the species. As described before, general costs are occasional conflict over water and human or cattle deaths caused by elephants. The Samburu expressed that elephants benefit those who live among them since they create paths to water, dig dams and break branches that people can use for firewood. The Samburu respondents stated that there are many similarities between humans and elephants since elephants have a trunk that acts like a human arm, breasts similar to women, and skin that resembles human skin. Consequently, certain taboos exist which prohibit the killing or eating of elephants.

Other ethnographic information included a Samburu legend that links people to elephants based on the principle that elephants once lived in Samburu homes and worked closely with women². The elders, women, and youth asserted that the legend represents the closeness and familiarity that exists between the Samburu and elephants. It also describes the cause of the current separation between the two species and indicates that the Samburu must use caution when approaching elephants. The legend demonstrates that elephants are considered to be ancient “relatives” of humans, and thus command much respect amongst the Samburu.

Samburu traditions entail various uses of elephant dung, including symbolically burning it during wedding ceremonies in the homes of newlyweds. The smoke from elephant dung acts as a blessing for newly married couples and brings them good luck when they enter their new homes. Another use of elephant dung includes the burning of dung as a form of mosquito repellent.

Further evidence of the closeness between Samburu people and wildlife exist within the structure of their clans. The Samburu people are divided into clans that are structured around different species of wildlife, one of which is elephants. Members of the elephant clan, known as the Lukumai clan, must engage in specific rituals when passing elephants in the bush. For example, when a member of the Lukumai clan meets an elephant while walking in thick bush, custom requires the person to throw dirt in the direction of the elephant to see whether the person is able to pass. Once the elephant responds and throws dirt in the direction of this clan member, the person is safe to pass without fear of the elephant. But if the clan member is not careful, allowing the elephant time to see the person first and throw dirt into the air, then the member of the clan must walk cautiously and in fear.

Finally, practices of blessing dead elephants are conducted in a similar manner to the practices the Samburu use to pay homage to their deceased. In the Samburu culture, people respect the deceased by placing small items such as tobacco, milk, beads, and green branches of trees onto their graves. In a similar manner, when the Samburu see elephant carcasses or remains, they place green branches onto the elephant’s grave. Placing such branches on either a human or an elephant is a symbol of honor and respect.

This ethnographic information served as the foundation for the community conservation program.

Implications for Program Activities

In designing the elephant conservation program, the strategy was to incorporate some traditional beliefs and perceptions of elephants within the more modern Samburu structures and contexts, such as in the western education system. For example, the conservation program described here attempted to incorporate Samburu stories and customs into a wildlife education program focused on schools and local villages, which was disseminated in the form of a teacher’s guide (Kuriyan, 1999). Also, a small booklet distributed to schools and community members illustrates the Samburu beliefs about elephants, their legends, and myths (Kuriyan, 1998). The publication explores Samburu traditions involving elephants and personal experiences of community members that reflect a positive relationship with the species. This allowed stories that were once passed on in oral tradition to be reactivated within the Kenyan education system.

² According to legend, the elephant used to live in the Samburu village and assisted the women as a servant. The elephant shared the duties of the women, including gathering firewood for the home. As a result of an altercation between a woman and the elephant over the size of firewood he was gathering, the elephant became offended and stopped living with the Samburu people. The elephant warned as he left the Samburu village that elephants could no longer live with the Samburu and that they must be careful when passing elephants in the bush. The Samburu woman also warned that the elephant should take care when seeing Samburu people in the future.
Further activities within the school system included the creation of the first ever film in the Samburu language that was based on the Samburu legend linking elephants with Samburu women. The film used local materials and Samburu actors to ignite an intellectual interest in elephants and promote a conservation message. The film provoked much laughter, entertainment and positive responses about passing on old stories to the young.

Another objective of the grassroots program is to involve local people in conservation and research. The organization uses radio collars to track elephants in order to research their movements, and in turn to understand elephant needs (Douglas-Hamilton, 1998). Part of the education program in the Samburu District was to interest local people in elephant research by teaching them about radio collars with explanations about the importance of radio collars to elephant conservation. Based on the interest of the Samburu youth to see these “necklaces” for elephants resemble their own beaded necklaces, a radio collar beading workshop was organized as a one-time event to involve local people in research. Samburu women were employed to decorate a radio collar with their traditional beadwork and patterns.

After the workshop, these 10 Samburu women as well as 20 other community members from various sectors of society were invited to engage in the actual radio collaring process and the monitoring which follows. After much interest in approaching an elephant at such a close proximity, participants assisted researchers in attaching a radio collar to an immobilized elephant. The Samburu participants returned to their respective vehicles and watched the bull elephant successfully stand up wearing the beaded radio collar. Following the radio collaring operation, a debriefing session was held to elucidate the reasons for radio collaring elephants and the significance for conservation. This project was filmed with the objective to document the event in order to educate and interest other Samburu people in the region.

The unique aspect of this radio collaring event, was that it combined small scale economic incentives with cultural pride and a local myth in order to involve the Samburu people in elephant conservation and research. The women benefited from the small employment opportunity through the beading workshop and asserted their pride in having an elephant adorned with their beadwork. The Samburu participants exhibited a genuine interest in participating in the collaring operation and research. For months following this activity, they continued to inquire about the whereabouts of this elephant and inform researchers when they observed the bull in the bush.

Local systems of knowledge about wildlife and conservation have existed throughout the African continent in the past (Metcalfe, 1994). For example, research illustrates positive cultural traditions about wildlife in pastoralist contexts, like the Maasai in the Amboseli area in Kenya (Kangwana, 1993). Thus, there is the potential for replicability for other conservation or research programs in local contexts where cultural traditions towards wildlife are largely positive. However, replicability may be constrained in other local contexts less conducive to engendering positive images and cultural perceptions of elephants, depending largely on the primary economic activity and culture of the people involved. Replicability may be particularly inhibited in agricultural contexts that involve extensive wildlife crop-raiding, the loss and damage of crops, and/or damage of forest plantation trees.

Conclusions:

The use of economic incentives is a widely acceptable method to affect behavior and perceptions of local people towards wildlife positively. This paper emphasizes that an ethnographic approach is a complementary, often underestimated option that can be used with economic incentives to initiate conservation measures and to promote positive behavioral changes towards wildlife.

The Samburu District represents a successful example of how to involve local people, who have a cultural inclination to tolerating elephants, in elephant conservation and research. In a region where firearms are readily available and poaching affects the elephant populations, the involvement of local people in conservation is of paramount importance. This grassroots awareness program explores the perceptions of the Samburu people who live with wildlife and applies this information in the promotion of local interest in wildlife. Throughout its implementation, it became evident that cultural tools, such as legends, myths, and tribe-specific customs about wildlife, can interest local people in wildlife. However, the program acknowledges
the potential risks involved in trying to interpret and record local knowledge and in disseminating it through a community conservation program (Brosius, 1999, Baines, 1989). In light of the dynamic nature of culture, such a program must be continually re-examined and revamped to account for and to incorporate changing perceptions and influences that affect culture and the significance of elephants to the local people. This approach has implications for the design of other community based natural resource management programs to help foster positive attitudes towards wildlife.

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REFERENCES

3 Since traditional knowledge can rarely be found in written form, risks such as differences of perception, values and language between those who hold traditional knowledge and those who wish to document and apply it are significant and could influence the recording process. (Baines,1989)


Table 1: LOGICAL FRAMEWORK ANALYSIS

<table>
<thead>
<tr>
<th>Problems Identified by the Samburu</th>
<th>Identified Solutions</th>
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<tbody>
<tr>
<td>Tribal clashes/ cattle rustling</td>
<td>Increased Communication with Kenya Wildlife Service (KWS)</td>
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<td></td>
<td>Reduce illegal arms in the area</td>
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<td></td>
<td>Increase Security</td>
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<tr>
<td>Human deaths caused by wildlife</td>
<td>KWS compensates for human deaths</td>
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<tr>
<td>Lacking compensation</td>
<td>KWS compensates for cattle and goats</td>
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<tr>
<td>Water sources are needed</td>
<td>Build boreholes and water sources</td>
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<tr>
<td>KWS doesn't respond to reports</td>
<td>Increase communication with KWS</td>
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<td>Loss of culture</td>
<td>Increase opportunities to be involved in conservation</td>
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<td></td>
<td>Conservation education for youth</td>
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<td></td>
<td>Need outside support to preserve culture</td>
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