

NYIKA-VWAZA TRUST (UK)

CONSERVATION RESEARCH NOTE No. 5

BIODIVERSITY STUDIES IN THE VWAZA MARSH WILDLIFE RESERVE

Lying near to the Nyika National Park in northern Malawi, but at a significantly lower altitude (1100–1660 m), the Vwaza Marsh Wildlife Reserve covers 986 km². Included within it are the Vwaza Marsh itself, Lake Kazumi, Kapata Hill and the Luwewe and South Rukuru rivers. The main habitats found here are miombo and mopane woodland, and dambo and wetland grasslands. Unlike the Nyika, the area is well known for the numbers of large mammals that can be found.

Much of what we know on the ecology and biodiversity of the area was summarised in McShane & McShane-Caluzi (1988). More recently, both bird and mammal checklists have been compiled (Dowsett-Lemaire 2014, Engel *et al.* 2012, Happold 2014). It is also an Important Bird Area (Dowsett-Lemaire *et al.* 2001). A comprehensive plant checklist is now also underway (S. Sichinga, in progress).

Conservation issues in the Vwaza Marsh area are less well known than those of the Nyika plateau. Poaching of large mammals is a significant threat, compounded by poor infrastructure and access, and the low numbers of National Parks staff based there.

The following proposals are focussed on improving our knowledge on the ecology and conservation issues in the Vwaza Marsh area. It is intended that this improved knowledge will then feed into a wider conservation programme addressing some of these threats.

1. Studies on the condition and ecology of mopane woodland (which is at its most northerly occurrence in Africa) in the Vwaza area. Determine if the woodlands in a good state of regeneration.
2. Studies on the movements of large mammal populations – where do they move to/from, at what time of year, and what are the key resources that they seek in Vwaza. Do such movements link to seasonal hydrology, and how?
3. Studies on localised bird species to determine their conservation status, such as the White-winged Starling (a relict population of a Zambezian endemic) and Swainson's Francolin (the only place it occurs in Malawi, although it is more widespread in the Luangwa Valley).
4. Establish a reserve-wide habitat monitoring system that can be recorded regularly to determine environmental change.

These projects, which are primarily research-orientated at this stage, could be implemented separately by a range of people ranging from National Parks or TFCA staff, visiting foreign students or researchers, Malawian university students and members of the Wildlife and Environmental Society of Malawi. It is intended they will later form the basis for more detailed conservation planning, as well as informing conservation management.

References:

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