





MAU COMPLEX UNDER SIEGE

Continuous destruction of Kenya's largest forest

A presentation by:

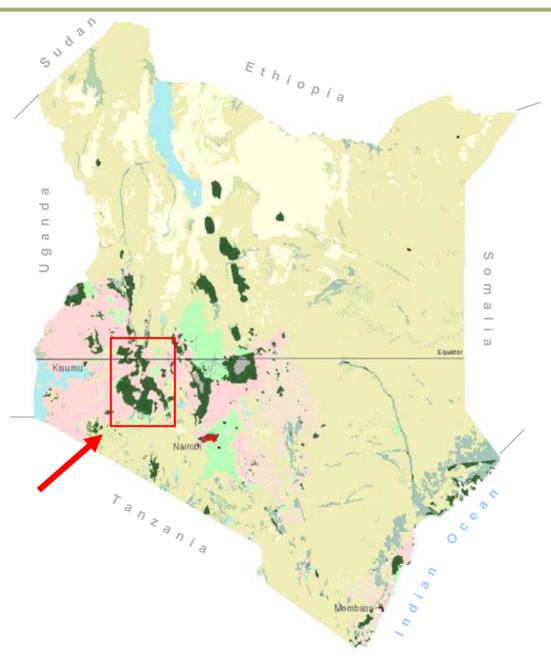
UNITED NATIONS ENVIRONMENT PROGRAMME KENYA WILDLIFE SERVICE KENYA FORESTS WORKING GROUP



Location and extent of the Mau Complex



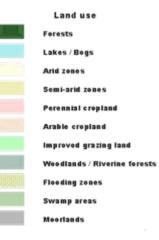




The Mau Complex covers some 400,000 ha, as large as Mt. Kenya and the Aberdares combined.

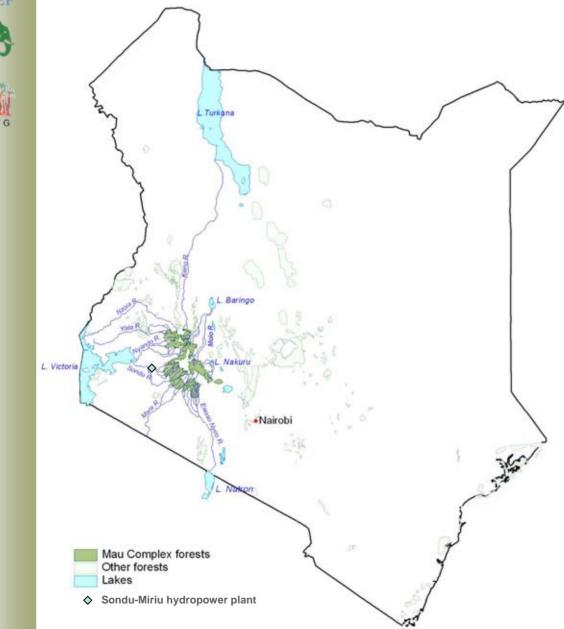
It is the largest forest of Kenya.

As a montane forest, it is one of the five main "water towers" of Kenya, with Mt. Kenya, the Aberdare Range, Mt. Elgon and the Cherengani Hills.





Mau Complex: a key catchment area



The Mau Complex forms the upper catchments of all (but one) main rivers west of the Rift Valley, including:

- Nzoia River (→ Lake Victoria)
- Yala River (→ Lake Victoria)
- Nyando River (→ Lake Victoria)
- Sondu River (→ Lake Victoria)
- Mara River (→ Lake Victoria)
- Kerio River (→ Lake Turkana)
- Molo River (→ Lake Baringo)
- Ewaso Nyiro River (→ Lake Natron)
- Njoro River (→ Lake Nakuru)
- Nderit River (→ Lake Nakuru)
- Makalia River (→ Lake Nakuru)
- Naishi River (→ Lake Nakuru)

It feeds major lakes, including:

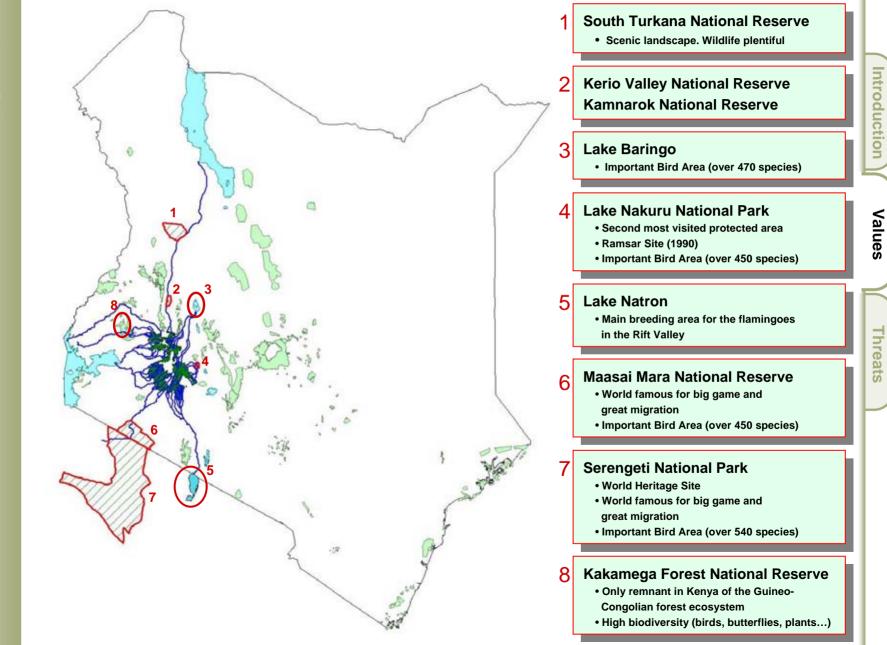
- Lake Victoria
- Lake Turkana
- Lake Baringo
- Lake Nakuru
- Lake Natron

of which three are crossboundary:

- Lake Victoria (Nile River Basin)
- Lake Turkana (Kenya / Ethiopia)
- Lake Natron (Tanzania / Kenya)



Mau Complex: key to major conservation areas

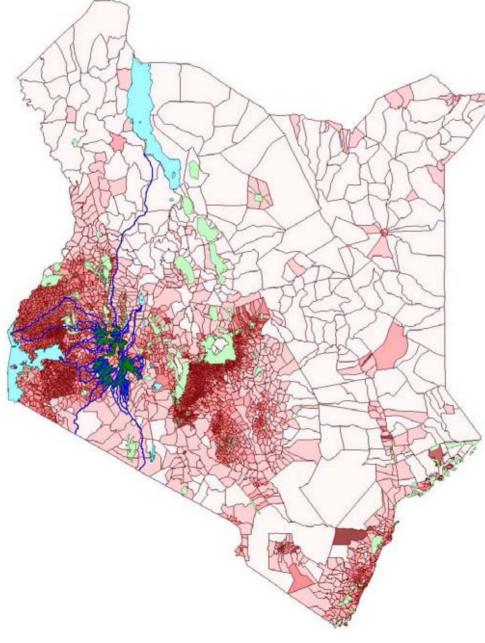




People's dependence on the Mau Complex

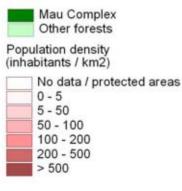






A large majority of Kenya's population lives in Lake Victoria basin. This region is crossed by major rivers flowing from the Mau Complex. Over 3 million people live in the sublocations crossed by these rivers.

In addition the Mau Complex provides environmental services essential to crop production (continuous river flow, favourable micro-climate conditions) as well as many products (medicinal plants, firewood and grazing).

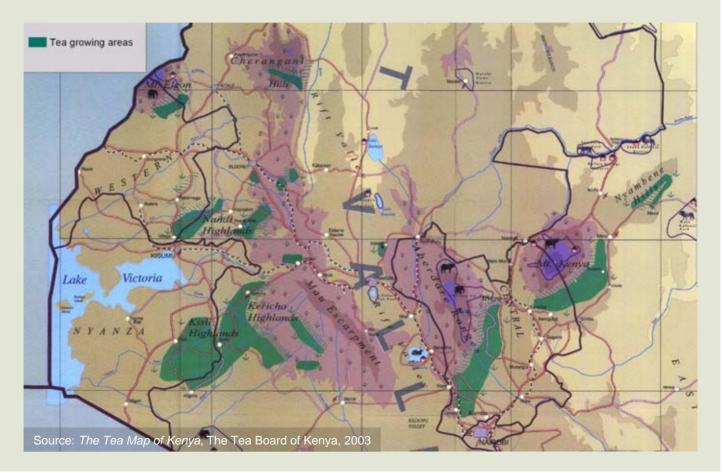




Tea growing areas are located near montane forests where conditions for optimum tea production are met: • Constant moisture

- Soil temperature between 16 and 25 °C
- Air temperature between 10 and 30 °C

The largest tea growing areas in Kenya are near the Mau Complex, in particular South West Mau forest (Kericho), Tinderet and Northern Tinderet forests .





Forest excisions: a major threat in the Mau Complex

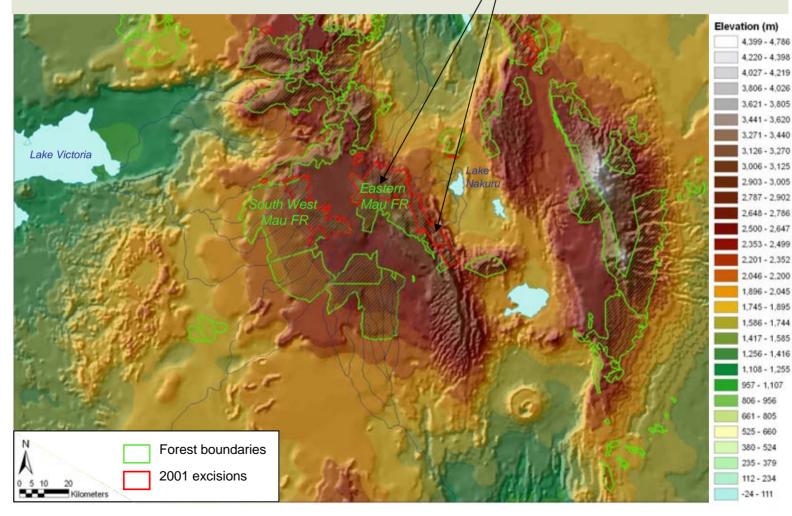


In 2001, the Government excised over 67,000 hectares of forest reserve land, mainly in the Mau Complex. The largest excised area extends over the <u>top of the Mau escarpment</u> (Eastern Mau FR), impacting tremendously on water resources: drying boreholes (Egerton University), drying rivers (Njoro). Settlements in such location are unsustainable, as water resources are declining very fast.

Introduction

Values

Threats

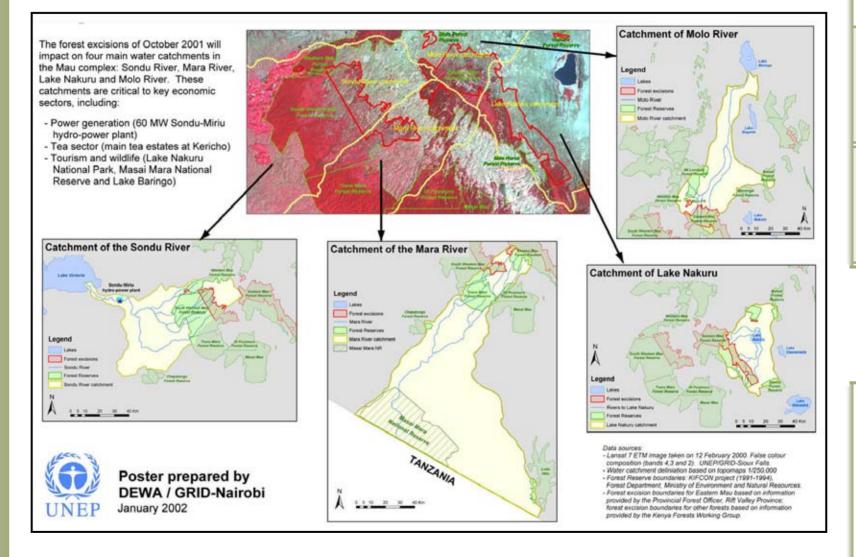




Forest excisions: a major threat in the Mau Complex

Can





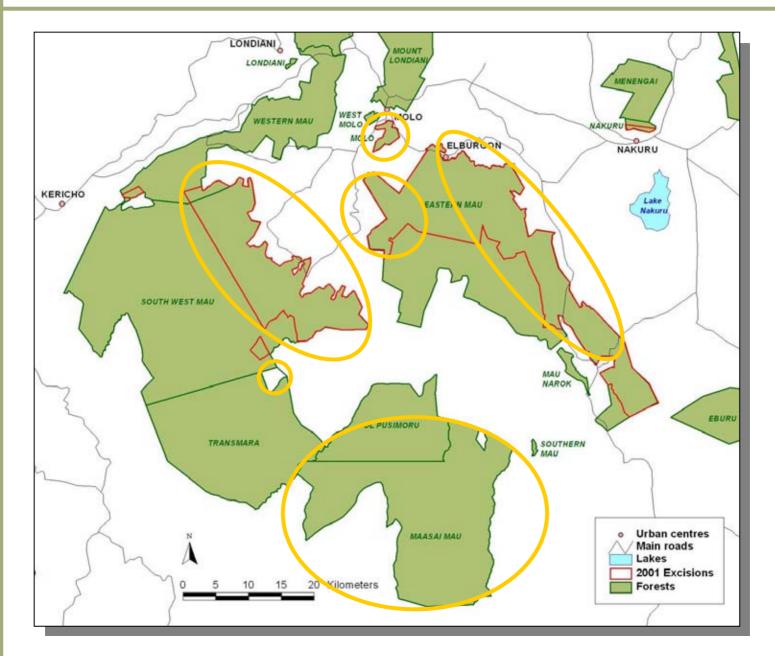
Values 🏹 Threats

ntroduction



KFWG

Location of major forest cover losses in the Mau Complex

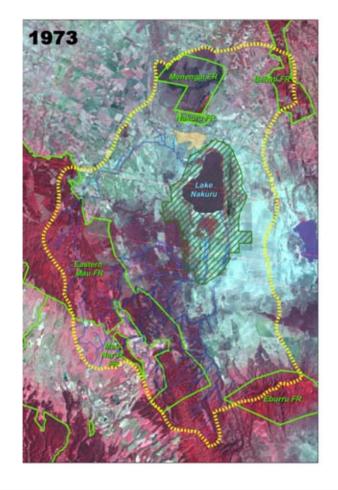




Eastern Mau Forest: impact of destruction on Lake Nakuru









Legend

Forest Reserves

Lake Nakuru catchment

Lake Nakuru National Park

Sources

- Landsat MSS and ETM images. False colour composition

- Forest boundaries: KIFCON project, Forest Department

Loss of dense vegetation cover between 1973 – 2003

Inside forest reserves: Outside forest reserves: **Total:** 15,820 hectares 20,960 hectares **36,780 hectares**

representing 49 % of the dense vegetation cover in the catchment of Lake Nakuru

Introduction

Molo Forest

Molo Forest (902 hectares) is located in the centre of the upper catchments of the Molo River, one of the two main tributaries of Lake Baringo. The forest has been clear cut and excised in 2001. However, it is only sparsely settled and could be replanted with trees.

Location map

KEWO



Molo Forest Reserve has an area of approximately 901.62 hectares. It was mainly covered by forest plantations (80 percent), the remaining being under indigenous forest. The forest is part of the upper catchment of Molo River.

Molo Forest Reserve has been entirely excised by Legal Notice 145 of 19 October 2001.

Based on satellite image and aerial survey, it appears that all plantations have been harvested and not replanted with tree seedlings. The indigenous forest has been clear cut. Nevertheless, the forest has not been settled todate.

Satellite image taken on 12 February 2000



Poster prepared by Kenya Forests Working Group with support from Friend of Mau Watershed (FOMAWA) February 2002 Ma barrier Mathemann, 2000 Johns (2000) Sanar Anda Johns (2000) Sanar Anda Tareat Anarene barrolania based an KAPCON property Prost Anaropha Databativa based an Internation provided by the Anaropha Forenta biology drouge Marge ground some based an Themato at Kanaga - Anarobe sheet? Associa USEADDR window din 5 March 1987 Tareanta at USEADDR window din 5 March 1987 Tareanta at USEADDR window din 5 March 1987

Aerial view taken on 2 February 2002



Aerial view taken on 2 February 2002









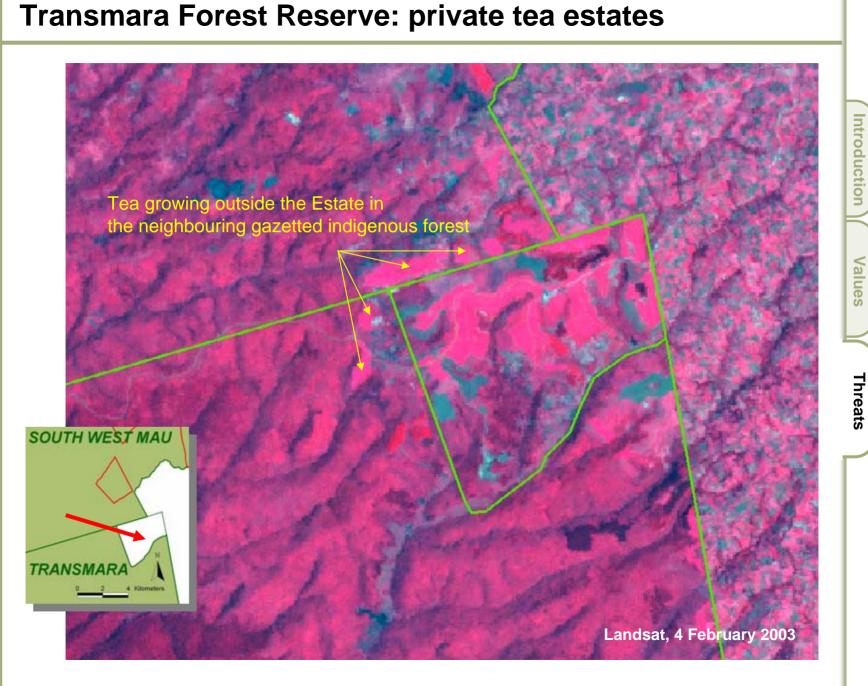
Introduction

Values

Threats

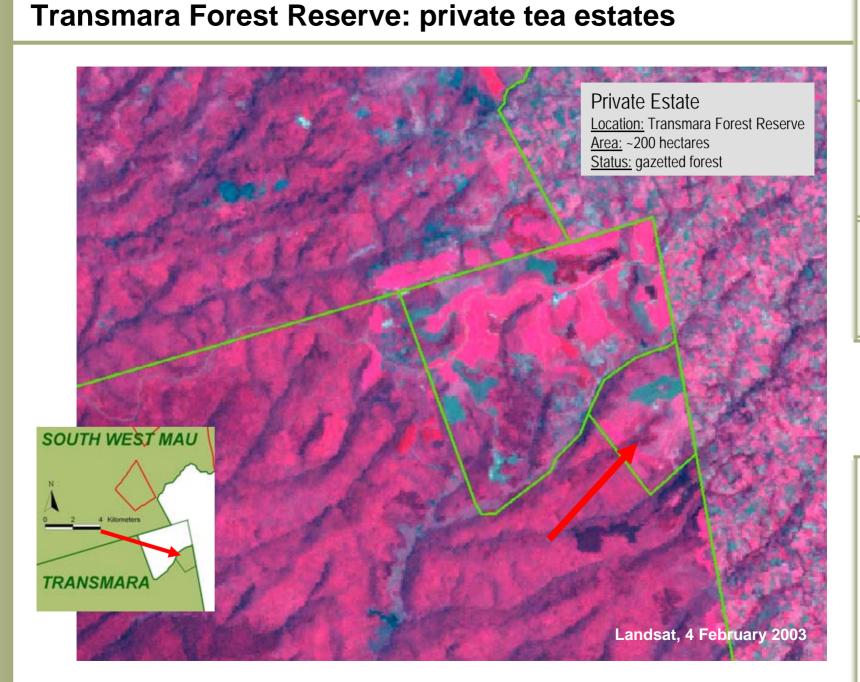












Values

Introduction



Maasai Mau: key values

The Maasai Mau forest (46,278 hectares) is comprised exclusively of indigenous forest. It is a critical natural assets, in terms of water catchment, micro-climate regulation, biological diversity and tourism development.

Kilometers Lake Mara River Natron Ewaso Nyiro River Maasai Mau forest Other forests Lakes

Water catchment value

The Maasai Mau forest is the main upper catchment of the Ewaso Nyiro River which provides the much needed water to pastoralist communities. The River is also the main tributary of Lake Natron, which is the breeding area for the flamingoes of the Rift Valley. To the west, the Maasai Mau forest is part of the upper catchment of the Mara River.

Wildlife and tourism development

The southern forests of the Mau Complex are rich in biological diversity in terms fauna and flora. They host ungulates such as the Bongo and the yellow-backed Duiker; carnivores, including the Golden Cat and the Leopard; and the forest elephant. The forest of the Maasai Mau, in particular, comprises large stands of cedar and podocarpus forests with scattered natural glades.

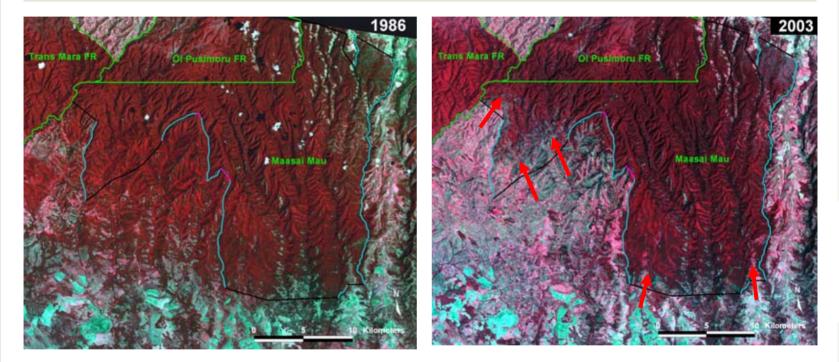
The Maasai Mau forest is a major asset for tourism development. It could become a twin conservation areas with the Maasai Mara National Reserve





Maasai Mau: past forest destruction

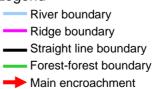
The boundaries of the Maasai Mau Forest (46,278 hectares) were agreed upon in 1987, based on the work of the Ntutu Commission. Since the delineation, large tracks of forest were clear felled outside the boundaries. More recently, encroachments have taken place inside the forest boundaries.



Loss of forest cover between 1986 – 2003

Inside the boundaries:3,382 hectaresOutside the boundaries:16,948 hectaresTotal:20,330 hectaresrepresenting 30 % of the forest inside andoutside the boundaries of the Maasai Mau

Legend



Sources

- Landsat TM and ETM images. False colour composition
- Forest boundaries: KIFCON project, Forest Department

Values

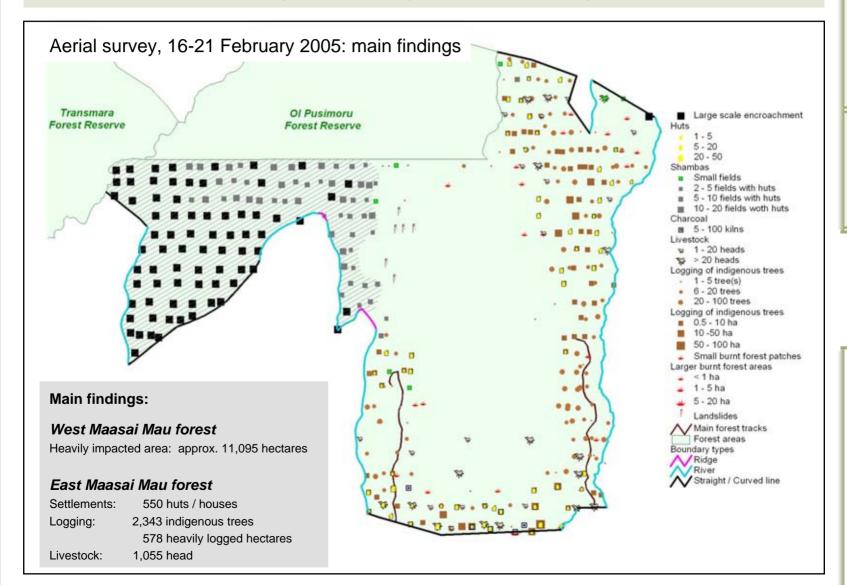
Introduction



KEWO

Maasai Mau: current forest destruction

Encroachments continued further between 2003 and 2005 to cover the entire western part of the Maasai Mau forest, as revealed by an aerial survey carried out in February 2005.

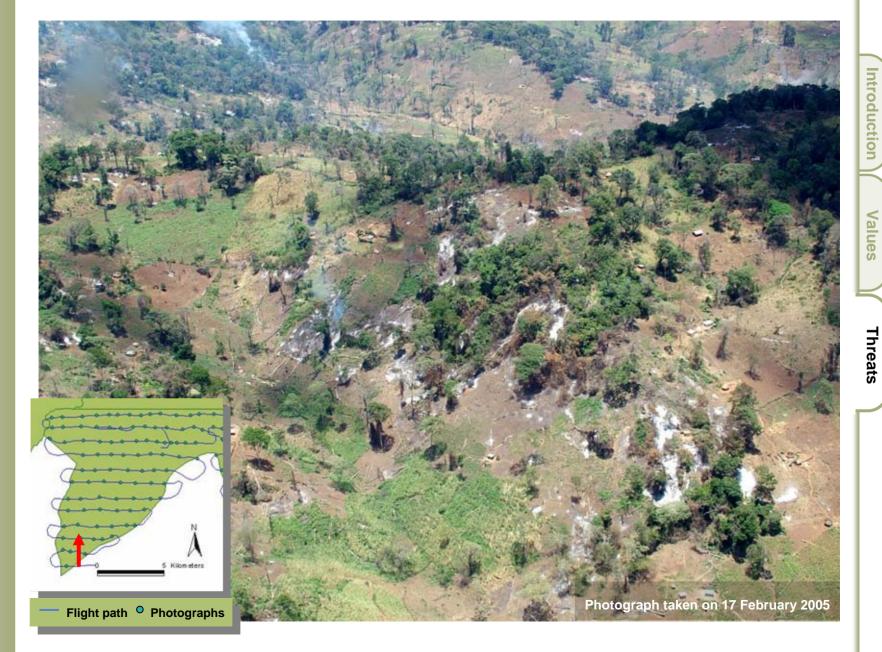


Introduction





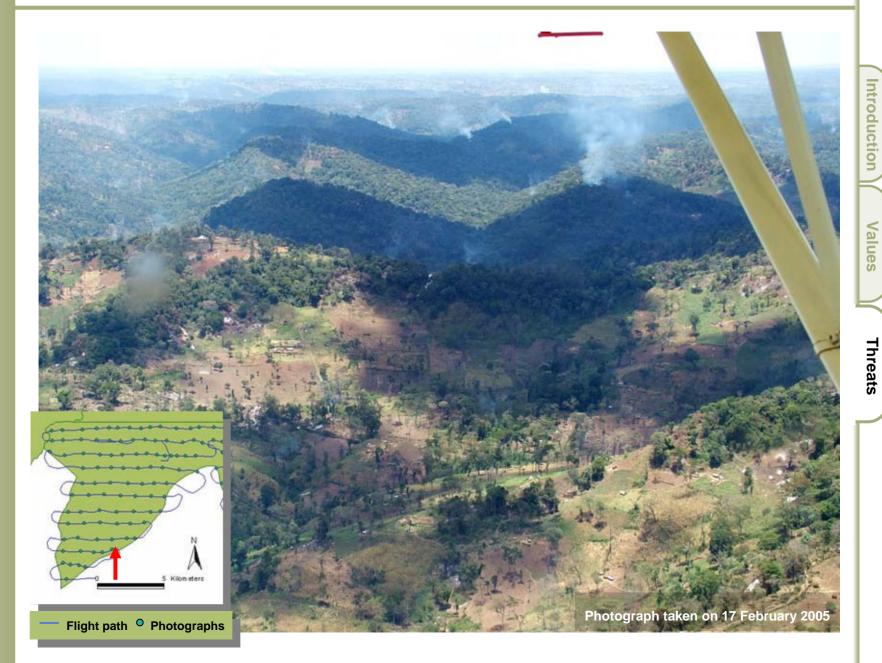








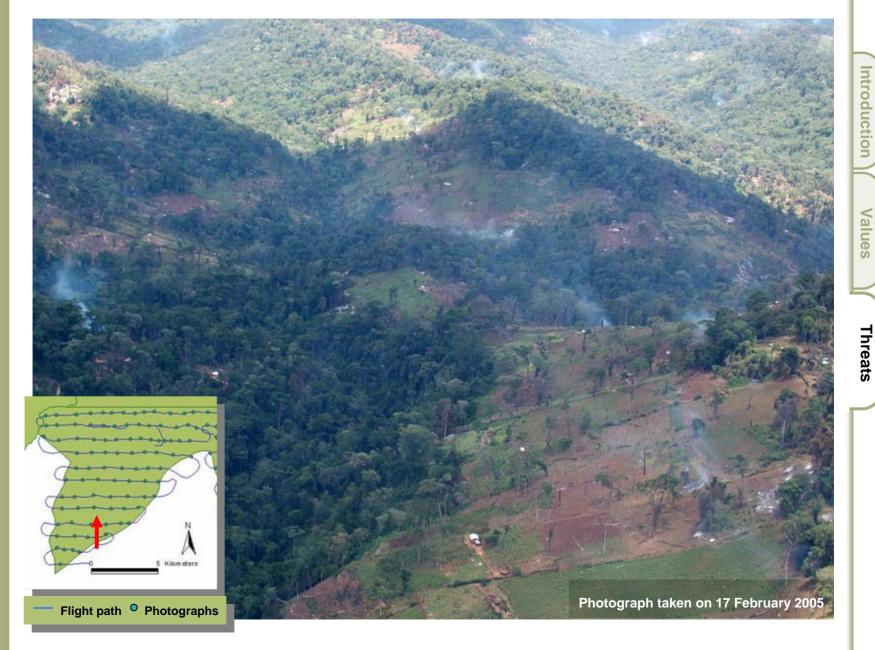






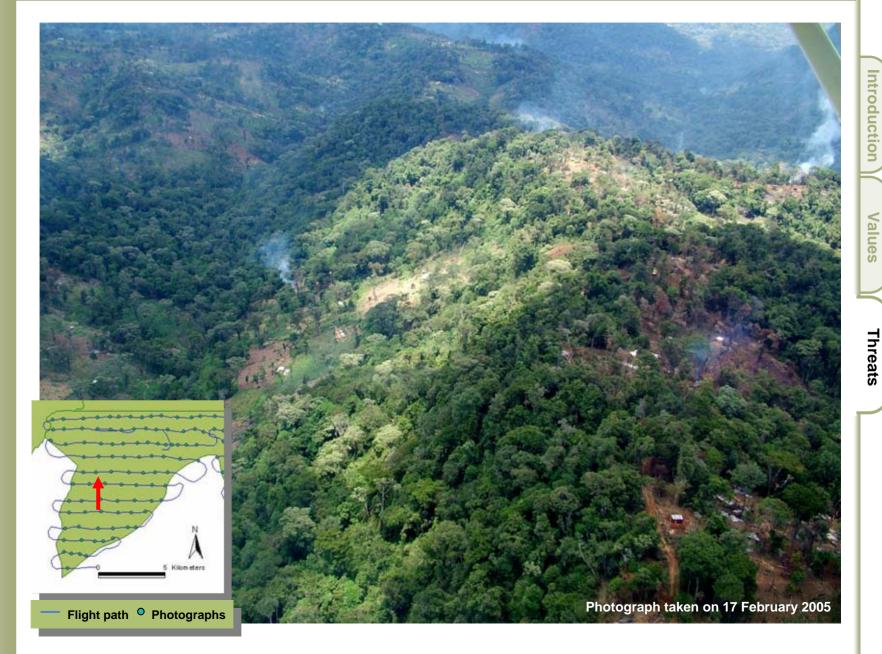








KFWG











Introduction

Values

Threats











Maasai Mau: encroachment on OI Pusimoru FR







Introduction

Values

Threats



KFWG

Maasai Mau: encroachment on OI Pusimoru FR

