Conservation of Peat Swamp Forest in Sabah: The Klias Forest Reserve



By Christophe







Introduction



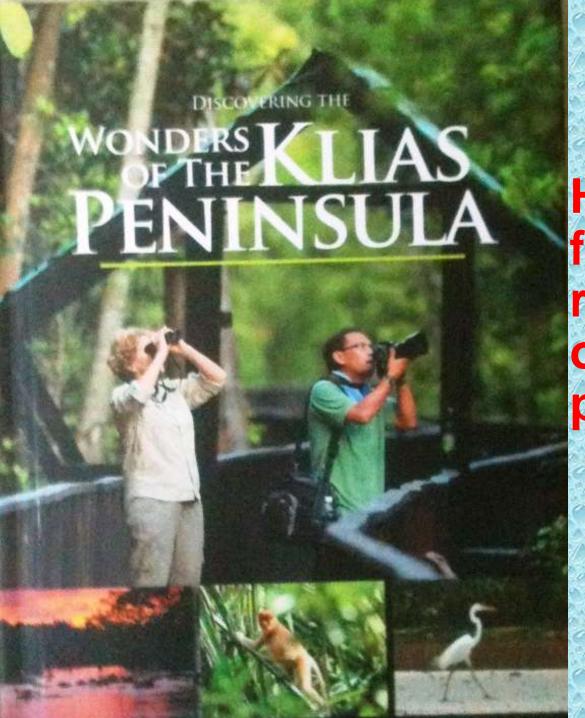


Klias FR - 3,630ha

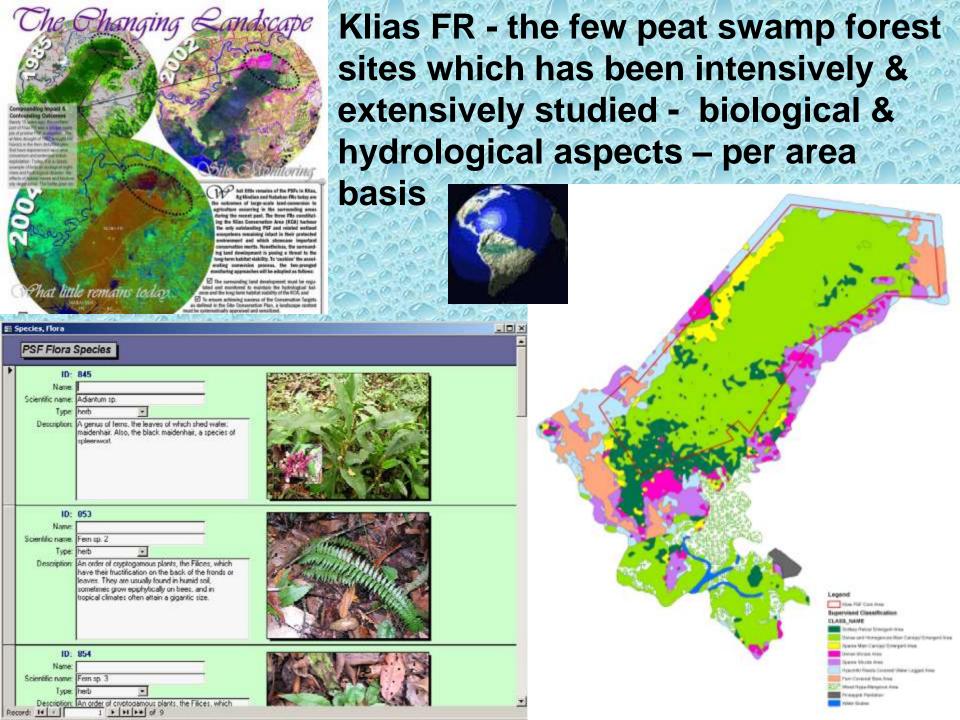




Large individual tree species can be found, e.g. *Gonystylus bancanus* (ramin) & *Dryobalanops rappa* (kapur paya) - recorded to exceed 60 cm dbh



High potential for eco-tourism, research and other academic purposes



Need to protect and conserve – last remaining intact peat swamp forest – for future generation & various purposes......





Management Issues & Threats

Land Development & Drainage canals

- 15 km stretch of drainage canal
- Affecting the integrity of the hydrological system



Idle land

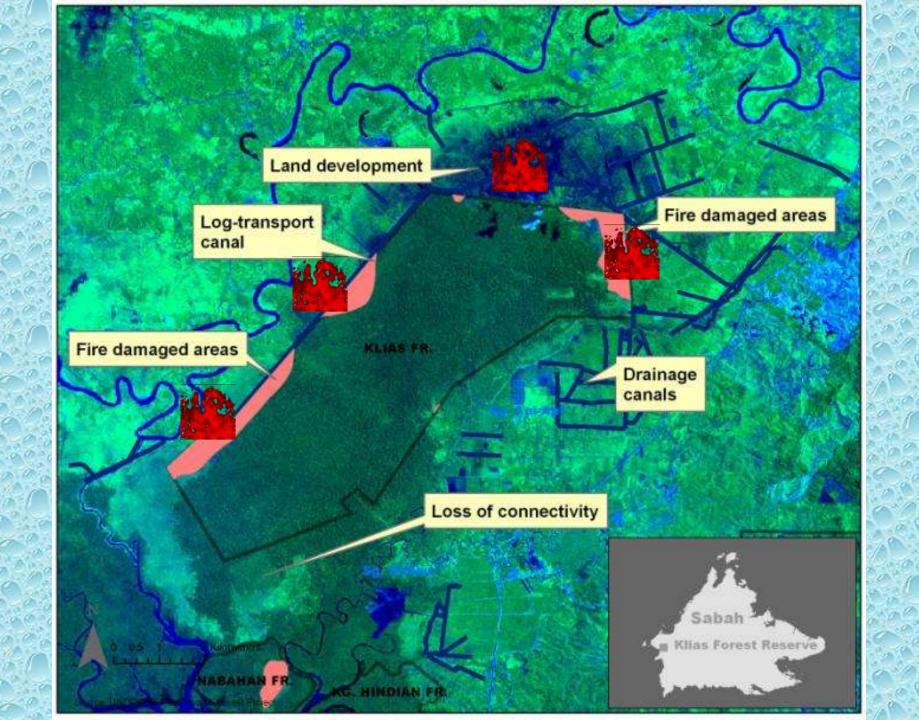
- Land earmarked for conversion/development, often left idle for many years
- •These areas pose huge risks threats fire-risks (large volume of combustible material) and affecting on the underlying hydrological integrity (excessive evapotranspiration).



Fires

- The most significant threat
- Fires destroys peat and results in the loss of the characteristic "peat" properties of the soil
- Burnt areas is unlikely to recover without intervention





National Peat Swamp Conservation Project

- Government of Malaysia + Danida + UNDP/GEF
- -2002 2006
- Sites: Pahang, Sarawak, Klias FR Sabah
- Output: Water management strategies + Klias site conservation plan





KLIAS FOREST RESERVE CONSERVATION PLAN

DEA year teritorial deathing No.

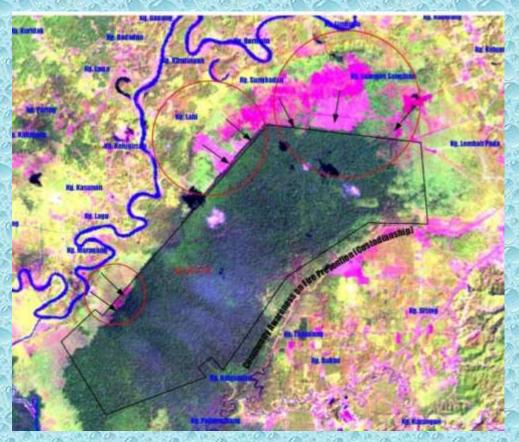
2006



Klias Conservation Strategies:

- promote rapid development on adjacent alienated land;
- initiate critical reforestation exercise;
- extend protected area boundary;
- ensure drainage plans are coordinated;
- address abandoned drainage canals;
- strengthen the importance of peat deposits integrity;
- detect ecological changes;
- monitor critical data for long term management; and
- enhance local knowledge base.

Promote rapid development on adjacent alienated land



Encourage
processes
involving rapid
development on
alienated land, i.e.
District land
development
committee

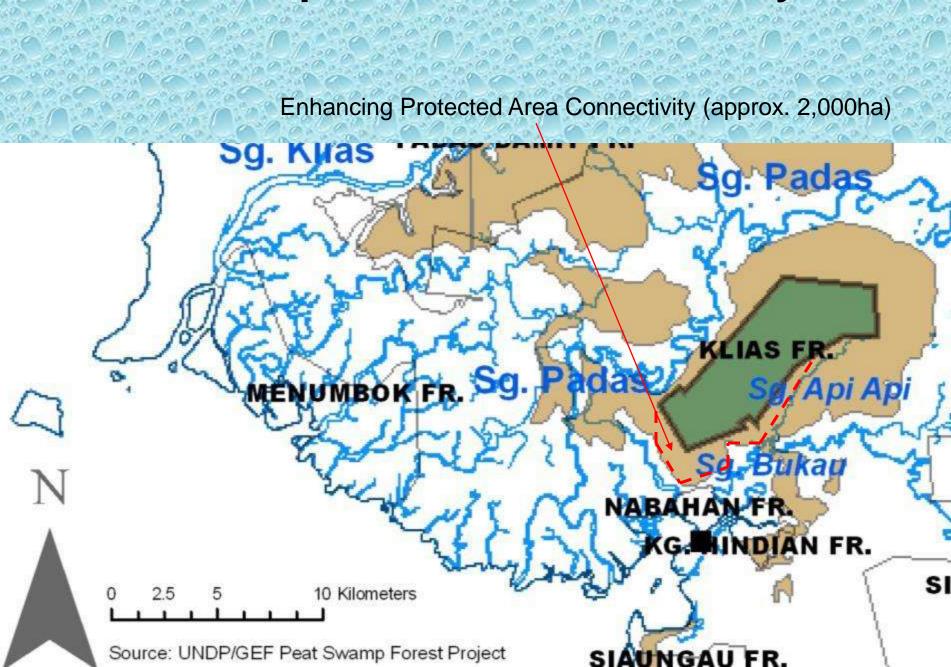
Initiate critical reforestation exercise



300 ha of burnt areas restored



Extend protected area boundary

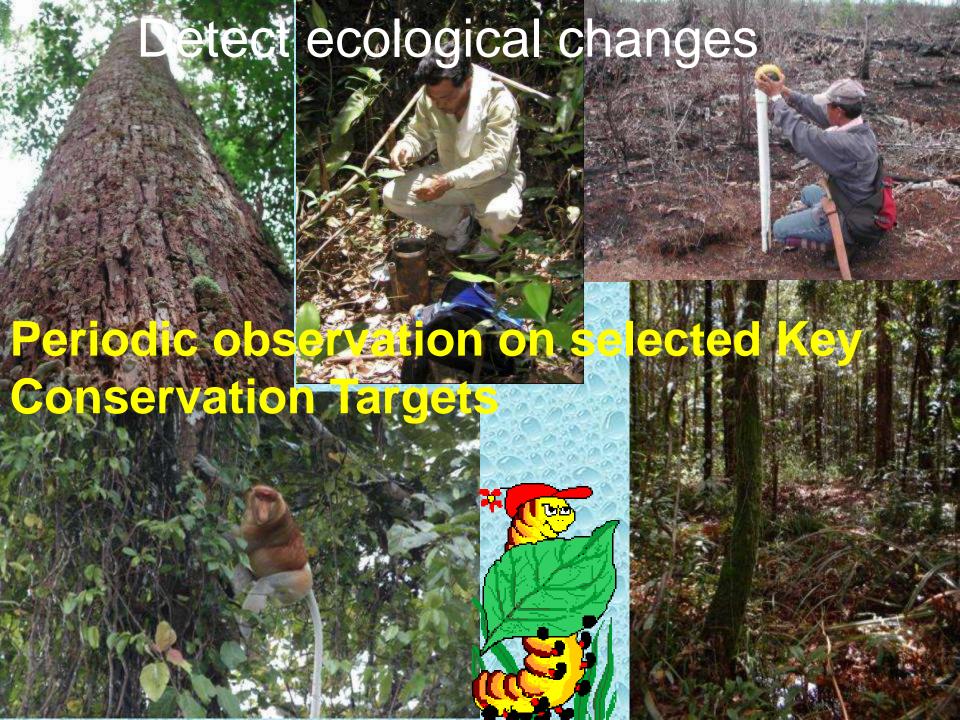


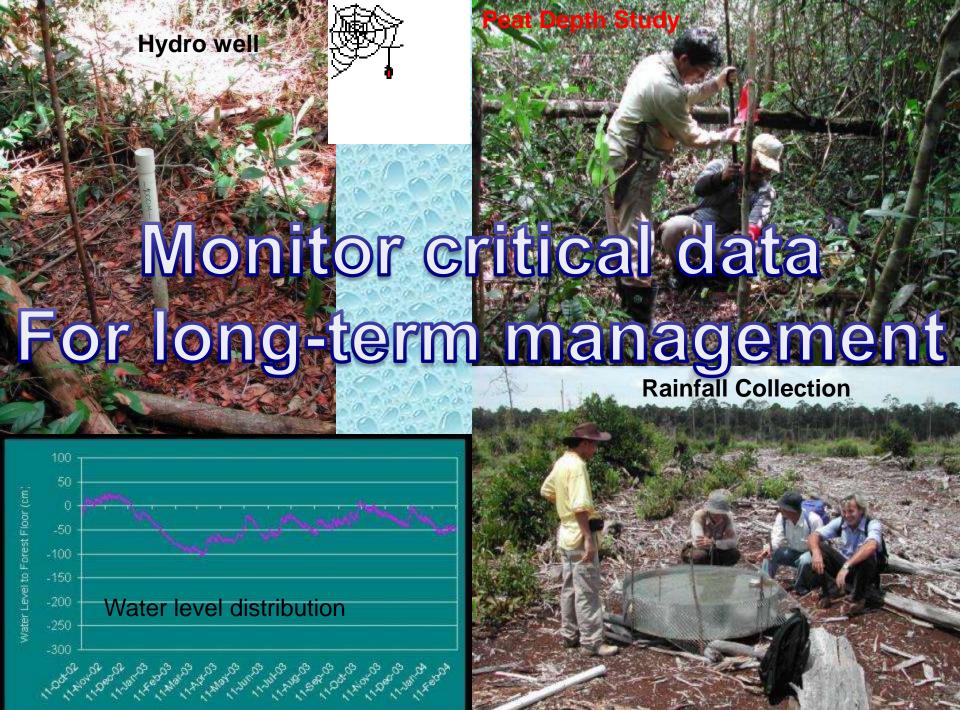
Ensure drainage plans are coordinated and address abandoned drainage canals



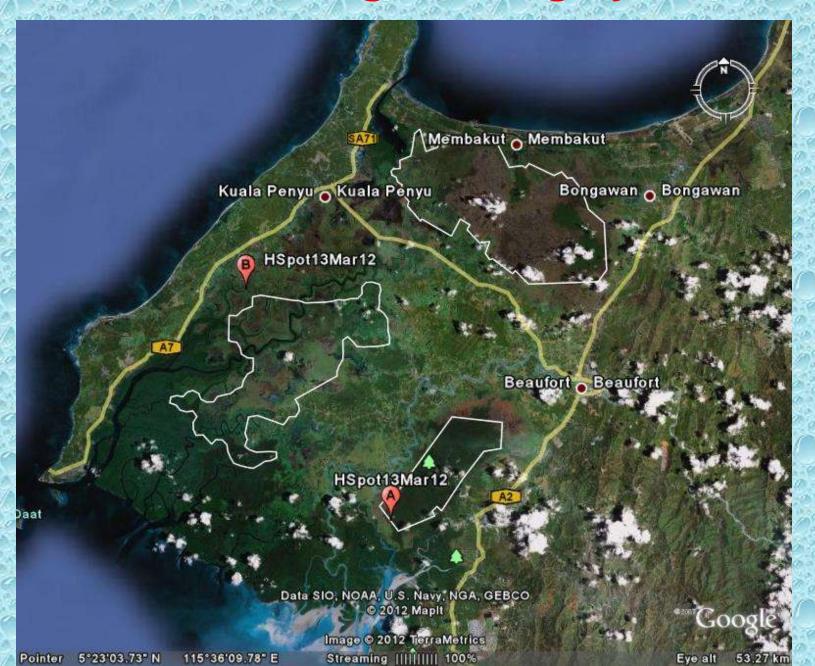
Strengthen the importance of peat deposits integrity/awareness raising







FDRS - Fire Danger Rating System



9. Enhance local knowledge base

- Findings on R&D information were appropriately disseminated to the general public;
- Students from higher learning institution were encourage to conduct related studies on peatland;
- Various consultants were engaged to enhance the knowledge base related to peat swamp conservation and management
- Various extension activities initiated periodically
- A Field Centre was constructed to house the various conservation activities

Klias Peat Swamp Forest Field Centre

Staff Quarters

Dormitory

Reception Centre

Canteen

Parking Lot

Meeting Hall

Office

Weather Station

Resting Hut

2.7 km Belian Walkway



