HAWAAN FOREST

by BILL DUTHIE

At the mouth of the Mhlanga River (umhlanga is the Zulu word for reed) not 12 km to the north of the City of Durban, lies a complex of ecological areas in a relatively unexploited state and which give a glimpse of what the Natal coastal dune forest system was once like.

Apart from the Mhlanga riverine- and lagoon- there are two interesting dune-forests, one of these being the Hawaan Forest bordering the south bank of the river (E. Moll, 1968, considered the main section as being in its original climax state). The name "Hawaan" is derived from a Tamil word meaning light breezes. Tamils were brought over from India in 1860 to work the then new sugar cane plantations.



Base of main stem of Grewia caffra

Photo: Bill Duthie

The Hawaan Forest has a number of ecological features which give it particular interest and importance, one of these being certain trees. The principal dominants are *Cola natalensis* (478) and *Cavacoa aurea* (332) (40 per random acre = 0,404 ha). The latter tree is of the *Euphorbiaceae* family. A rare tree it is, characterised by its highly "fluted" or "folded" stems and yellow flowers.

The forest also accommodates about twenty-four species of liane (climbers) which provide not only a dense canopy to protect the forest floor micro-organisms, but also play a very important role in protecting this coastal environment characterised by its high salt-laden winds.

Another feature of the Hawaan is that many of the canopy trees, which often reach a height of 19 m (60 ft), are not upright. This is brought about by these high north-east prevailing winds (rain-bearing being westerly) which constantly blow the tall trees about, thus loosening the root formation which has poor anchorage in the sandy dune soil. The only canopy trees which seem to stay erect are *Celtis africana* (39), *Mimusops obovata* (584) and *Ziziphus mucronata* (447). This is attributed to their deep, buttresstype root systems.

Canopy trees:

Celtis africana Mimusops obovata Strychnos madagascariensis Ziziphus mucronata Chaetachme aristata Diospyros natalensis Dominant lianes (climbers): Grewia caffra Grewia occidentalis

Rhoicissus rhomboidea Rhoicissus tomentosa Dalbergia armata

The Hawaan also supports a surprising variety of wild life. Bush buck, red duiker, blue duiker and banded mongoose make up the mammal population while hornbill, purple-crested loeries, crested guinea-fowl (their most southern location) are also found. Rock python (protected in Natal) also have a large population in the Hawaan.



The fluted base of the trunk of Cavacoa aurea.

Photo: Bill Duthie

ABANDONED FARM LAND

There is a "regenerating" section on the western boundary of this climax forest. The forest trees were cleared early in 1940 to make way for cane planting. Fortunately this soil proved unsuitable and the area has been left to return, it is hoped, to its original state

By the seeding of trees and plant life by vervet monkeys and birds, this area also forms a very important "buffer" area for the forest by protecting it from strong south westerly winds and seasonal sugar-cane fires.

A LIST OF SOME OF THE INDIGENOUS TREES OCCURRING IN THE HAWAAN CLIMAX FOREST AND ADJOINING UMHLANGA RIVER FLOOD PLAIN SYSTEM

Numbered according to the National List of Trees

22	Phoenix reclinata	iSundu
39	Celtis africana –	
	Camdeboo-stink-	N/L
	wood (white)	uMvumvu

42	Trema orientalis	iFamu
43	Chaetacme aristata	umKhovothi
49	Ficus burtt-davvi	uLuzi
57	Ficus natalensis	umThombi
59	Ficus polita	umKhiwane
148	Albizia adianthifolia	
	(Flat Crown)	umBhelebhele
190	Dichrostachys cinerea	
224	Baphia racemosa	isiFithi
235	Dalbergia obovata	umZungula
249	Erythroxylum-	umzungula
217	emarginatum	uPhaphane
253	Fagara capensis	ui napnane
200	(Knob-thorn)	umNunamana
261		umNungwane
263	Vepris undulata	umZane
264	Teclea gerrardii	uMozane
277	Teclea natalensis	uMozane
	Commiphora harveyi	umNyala
296	Turraea floribunda	uMadlozane
313	Drypetes arguta	umHlwakela
316	Drypetes natalensis	umKhushwane
318	Antidesma venosum	umShangi
330	Croton sylvaticus	umHloshozane
332	Cavacoa aurea	umBhuku
338	Suregada africana	umMemezi-
2.12		omhlope
343	Sapium	222
	intergerrimum	umHlalampunz
359	Buxus natalensis	umNgquzu
360	Sclerocarya caffra	Marula
364	Protorhus longifolia	umHluthi
399	Maytenus	
	heterophylla	isiHlangu
399.3	3 Maytenus nemorosa	iNgqwangane
415	Cassine papillosa	isiNama
422	Apodytes dimidiata	umDakane
425	Allophylus	
	melanocarpus	
426	Allophylus natalensis	umHlohlela
430	Deinbollia	THE STATE OF THE S
	oblongifolia	iGololenkawu
439	Bersama lucens	uNdiyaza
447	Ziziphus mucronata	umPhafa
451	Scutia myrtina	uSondela
463	Grewia occidentalis	iKlolo
464	Hibiscus tiliaceus	uMlolwa
472	Dombeya tiliacea	iBunda
478	Cola natalensis	iPhumbulu
493	Xylotheca kraussiana	isiShwashwa
496	Scolopia mundii	
510.1	Dovyalis longispina	uLoyiphela
553 1	Eugenia capensis	umNyuzuma umHelahelo
564	Cussonia eniasta	
582	Cussonia spicata	umSenge
302	Bequaertiodendron	Th
502	natalense Minusons coffin	umThongwane
583	Mimusops caffra	umThunzi

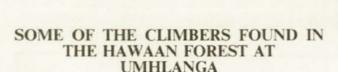
584 Mimusops obovata

597 Euclea natalensis

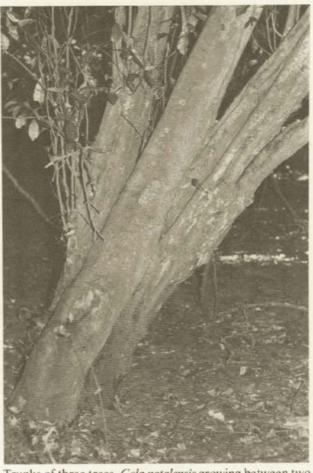
umNolwe

iDungamuzi

607	Diospyros natalensis	umHlavane-omh-
625	Strychnos henningsii	uManana
626	Strychnos madagasca-	
	riensis	umGulugulu
629	Strychnos spinosa	umHlala
639	Acokanthera	
	oppositifolia	inHlungunyembe
	Carissa bispinosa	aMatungula
652	Cordia caffra	iBhicongo
667	Clerodendrum	
	glabrum	iFamu
689	Xeromphis obovata	isiNgongongo
692	Gardenia thunbergia	umValasangweni
	Kraussia floribunda	isiKhubashane
702.1	Vangueria cyanescens	umViyo
705	Lagynias lasiantha	umThulwa
708	Canthium ventosum	umVuthwamini
709	Canthium locuples	
711	Canthium obovatum	umZilambuzi
723	Psychotria capensis	iZele
724	Brachylaena discolor	umPhahla



- 1. Dalbergia armata (Hluhluwe Climber)
- 2. Dalbergia obovata
- 3. Secamone frutescens
- 4. Grewia occidentalis
- 5. Grewia caffra
- 6. Adenia gummifera
- 7. Capparis fascicularis
- 8. Cyphostemma hypoleucum (Doublebarrelled creeper)
- 9. Urera cameroonensis
- 10. Acridocarpus natalitius
- 11. Capparis sepiaria
- 12. Rhoicissus rhomboidea
- 13. Rhoicissus tomentosa
- Desmonema caffra (Andredera baselloides)
- 15. Scutia myrtina
- 16. Putterlickia verrucosa
- 17. Monanthotaxis caffra
- 18. Allocassine laurifolia
- 19. Uvaria caffra
- 20. Flagellaria guineensis
- 21. Coccinia palmata
- 22. Ipomoea ficifolia
- 23. Śmilax kraussiana
- 24. Asparagus falcatus



Trunks of three trees. Cola natalensis growing between two Cavacoa aurea.

Photo: Bill Duthie

New Members 1978 —

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