Pteridophyte Flora of Ayer Hitam Forest Reserve, Selangor, Peninsular Malaysia

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INTRODUCTION

Ayer Hitam Forest Reserve is a lowland dipterocarp forest situated at about 3° 0' N to 3° 02. 20' N and 101°37.90' E to 101°40.00' E, approximately 20 kilometers southwest of Kuala Lumpur. The forest is about 1248 hectares in size and is divided into six compartments (Compartment 1, 2, 12, 13, 14 and 15). Each compartment was logged at different times in the past. To date a small number of pteridophytes was collected and reported (Faridah Hanum 1999). This expedition aims to complement the previous data and provide a checklist of pteridophytes for Ayer Hitam Forest Reserve.

METHODS

Specimens were collected along the vicinity of the base camp and both sides along the major streams. All voucher specimens were prepared as herbarium specimens and are deposited at UKMB and UPM.

RESULTS

Checklist of ferns and fern-allies collected in Ayer Hitam Forest Reserve (AHFR).

**Ferns Allies**

**Lycopodiaceae**

*Lycopodium cernuum* (L.) Pic Sem


**Selaginellaceae**

*S. ciliaris* (Retz.) Spring

AHFR: 3/5/00, Ahmed Zainudin et al. KL 6696 [UKMB].

*S. intermedia* (Blume) Spring

AHFR: 15/8/98, Nasir Abdul Rachman NAR 26 [UPM].

*S. stipulata* (Blume) Spring

AHFR: 30/9/98, Nasir Abdul Rachman NAR 39 [UPM].
S. wallichii (Hook & Grev.) Spring
AHFR: 15/8/98, Nasir Abdul Rachman NAR 5 [UPM]; 4/5/00, Ahmed Zainudin et al. AZ 6736 [UKMB].

S. wildenowii (Desv.) Baker
AHFR: 4/5/00, Ahmed Zainudin et al. AZ 6688 [UKMB].

Ferns

Adiantaceae
Cheillanthes tenuifolia (Burm.f.) Sw. subsp. tenuifolia
AHFR: 19/10/99, Nurulhuda UDA 82 [UPM].

Syngramma wallichii (Hook.) Bedd.
AHFR: 4/5/00 Ahmed Zainudin et al. AZ 6738 [UKMB].

Taeonis blechnoides (Willd.) Sw,
AHFR: 14/9/98, Nurulhuda UDA 41 [UPM]; 3/5/00, Ahmed Zainudin et al. AZ 6688 [UKMB].

Asplenium nidus L.
AHFR: 13/10/98, Nasir Abdul Rachman NAR 50 [UPM]; 15/8/99, Nurulhuda UDA 5 [UPM].

Blechnaceae
Blechnum orientale L.
AHFR: 30/8/98, Nasir Abdul Rachman NAR 20 [UPM]; 14/9/98, Nurulhuda UDA 42 [UPM]; 3/5/00, Ahmed Zainudin et al. AZ 6689 [UKMB].

Cyatheaceae
Cyathea latebrosa (Wall. ex Hook.) Copel.
AHFR: 15/8/98, Nasir Abdul Rachman NAR 1, NAR 4, NAR 13; 30/8/98, NAR 23, NAR 38; 5/10/98, NAR 43; 13/10/98, NAR 49 [UPM].

C. moluccana R. Br.
AHFR: 30/8/98, Nasir Abdul Rachman NAR 21; 15/9/98, NAR 28; 13/10/98, NAR 59 [UPM]; 3/5/00, Ahmed Zainudin et al. AZ 6716 [UKMB].

Dennstaedtiaceae
Lindsaea ensifolia Sw.
AHFR: 3/5/00, Ahmed Zainudin et al. AZ 6707 [UKMB].

Dryopteridaceae
Tectaria baberi (Hook.) Copel
AHFR: 2001, Rusea et al.

P. crenata Cav.
AHFR: 3/5/00, Ahmed Zainudin et al. AZ 6715 [UKMB].

T. singaporeana (Wall. ex Hook & Grev.) Copel.
AHFR: 30/8/98, Nasir Abdul Rachman NAR 11 [UPM].

T. vasta (Blume) Copel.
AHFR: 2001, Rusea et al.

Gleicheniaceae
Dicianopteris linearis (Burm.f.) Underw.
AHFR: 30/8/98, Nasir Abdul Rachman NAR 19 [UPM].

Nephelepidaceae
Nephelepis auriculata (L.) Trimen
AHFR: 30/8/98, Nasir Abdul Rachman NAR 10 [UPM]

Ophioglossaceae
Héministostachys zeylanica (L.) Hook.
AHFR: 17/9/99, Nurulhuda UDA 61 [UPM]

Ophioglossum pendulum L.

Polypodiaceae
Lecanopteris sinuosa (Wall. ex Hook.) Copel.
AHFR: 4/5/00, Ahmed Zainudin et al. AZ 6745 [UKMB].

Platyderium coronarium (J.King) Desv.
AHFR: 1999, Nurulhuda & Faridah Hanum UDA 43 [UPM].

Pyrrsia nummulariifolia (Sw.) Ching

P. piloselloides (L.) M.G. Price
AHFR: 1999, Nurulhuda & Faridah Hanum UDA 55 [UPM]; 1999, Nurulhuda & Faridah Hanum UDA 60 [UPM].

Schizaeaceae
Lygodium circinnatum (Burm.f.) Sw.
AHFR: 18/9/98, Nurulhuda UDA 73 [UPM].
CONCLUSION

The pteridophyte flora of Ayer Hitam Forest Reserve comprises one species of lycopod, six species of sellaginellas and 32 species of ferns. This represents about 6.02% of the 647 species, 42.8% families and 15.5% of genera reported for Peninsular Malaysia (Parris and Latiff 1997). Of these 39 taxa, 6 species were identified as new additions to the previous list (Faridah Hanum 1999). Most of the taxa are lowland elements and easily found on the forest floor or as epiphytes on rocks and trees by the trails. Despite the larger land area of Ayer Hitam Forest (1248 ha) in comparison to the Bangi Forest Reserve (Bidin and Jaman 1990), the number of pteridophyte taxa is less. This is most probably due to past deforestation and disturbances in this area.

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REFERENCES

