For Pradeep

Machaan will never be the same with you gone
Moths are one of the most fascinating, yet ignored groups of insects. Like butterflies, they depend on specific host plants to develop, help in plant pollination, and are an important source of food for birds. They come in many colours, shapes and sizes, designed over millions of years by mechanisms of evolution.

During the pre-monsoon months of 2021, as a hobby, I documented the moth diversity at Machaan Wilderness Lodge (Churicad Estate) - a small, quaint coffee plantation near Kutta in Coorg. The diversity of species that I encountered was mind-blowing (the moths represented in this document are only what could be identified), proving how biodiverse the Western Ghats are. Apart from its location in a biodiverse region, what made Machaan special was its small-scale tourism model that put sensitivity to nature above all else. A pristine hadlu (swampy grassland) untouched by the draw of commercialisation flanked it on one side, and a high diversity of native shade trees covered the plantation; all of it collectively making this place special for moths and other wildlife. Given the global momentum towards commercialisation, it is essential that we document all forms of life in places like Machaan before we lose it in the blink of an eye.

I am eternally grateful to the incredibly efficient Geetha Iyer, a prolific writer, and the author of ‘The Weavers: The Curious World of Insects’ for helping me with the identification of many species listed here; and Yash Sondhi, a friend and a moth scientist, who I have been bombarding with my questions related to moths, butterflies and expert contacts for a while now- all of which he has handled patiently. Experts and volunteers at citsci portals like Odonata of India, inat and IBP, along with the likes of Geetha and Yash, have an important role to play in triggering my interest in lepidopterans, usually an uncommon hobby for the likes of me who study carnivores.

Most importantly, none of this would have been possible without the help of Sandesh Kadur, Felis Creations, Bangalore; and the management at Machaan. Sandesh went to great lengths to make sure I did more than just store the moth pictures in my phone or hard-drive, constantly pushing me into sharing with the management of Machaan the diversity of life their estate supports.
A big thank you to Nakul Raj, for sharing with me his moth know-hows, even after his premature retirement as a moth researcher; and Manjiri Maindarkar who has gone back and forth designing this document for many days now. I am sure this ranks amongst her most tedious assignments, but I do hope in this process some of my moth enthusiasm has escaped to her as well.

I hope Pradeep, Panish, Pemmiah, Soma, Ravi Jr, Ravi Sr and the others at Machaan will realise that I wasn’t just indulging in some silly fantasy while looking for moths, but they actually exist- as a collection of colours and shapes rarely noticed. I hope the cats at Machaan will forgive me for suggesting that they be spayed and relocated to a more urban area – for even though I love them, I realise their potential as formidable killers, and want to safeguard wild species as much as I can from these deadly predators.

A few days after I wrote this note, we lost Pradeep all of a sudden. This has been difficult to accept for all of us, and for me because I could never share what in some sense started with him - this journey exploring moths of Machaan. So, here it is Pradeep. Thank you for all your help. You’ll be missed.

November 2021
Superfamily: Bombycoidea
Family: Sphingidae
Subfamily: Macroglossinae

Macroglossum sitiene

Theretra latreillii
**Superfamily: Bombycoidea**

Family: Sphingidae
Subfamily: Sphinginae

*Psilogramma renneri*

**Superfamily: Bombycoidea**

Family: Sphingidae
Subfamily: Smerinthinae

*Marumba dyras*
Superfamily: Bombycoidea
Family: Eupterotidae
Subfamily: Eupterotinae

*Eupterote undata*
Superfamily: Noctuoidea
Family: Noctuidae
Subfamily: Noctuinae
Spodoptera litura

Superfamily: Noctuoidea
Family: Noctuidae
Subfamily: Hadeninae
Chasmina cf. judicata

Superfamily: Noctuoidea
Family: Noctuidae
Subfamily: Bagisarinae
Yepcalphis dilectissima

Superfamily: Noctuoidea
Family: Noctuidae
Subfamily: Amphipyrinae
Callyna monoleuca
Superfamily: Noctuoidea
Family: Noctuidae
Subfamily: Plusiinae

Ctenoplusia albostriata
Erythroplusia pyropia
Plusiopalpa adrasta
Thysanoplusia intermixta
Thysanoplusia reticulata
Plusiinae
Superfamily: Noctuoidea
Family: Noctuidae
Subfamily: Eustrotiinae

Maliattha lativitta

Maliattha separata

Superfamily: Noctuoidea
Family: Noctuidae
Subfamily: Eriopinae

Callopistria rivularis

Callopistria sp.
Superfamily: Noctuoidea
Family: Noctuidae
Subfamily: Condicinae

Condica illecta

Superfamily: Noctuoidea
Family: Nolidae
Subfamily: Westermanniinae

Miaromima coelisigna  Miaromima cornucopia
Superfamily: Noctuoidea
Family: Nolidae
Subfamily: Chloephoridae

Carea angulata

Xenochroa biviata

Paracrama latimargo
Superfamily: Noctuoidea
Family: Nolidae
Subfamily: Nolinae

*Alcanola cf. tympanistis*  
*Nola internella-analis complex*

*Meganola sp.*  
*Meganola sp.*

*Meganola sp.*  
*Meganola sp.*
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Arctiinae

*Ammatho cuneonotatus* (Right - old, faded individual)

*Ammatho sp.*  
*Ammatho sp.*  
*Ammatho sp.*
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Arctiinae

*Miltochrista terminospota*
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Arctiinae
Tribe: Lithosiini
Subtribe: Nudariina

Note: All the above photos represent species under the Subtribe Nudariina. However, Genus/ Species level information for this group requires more information than available from a photograph.
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Arctiinae

Cyana sp.
Amata sp.
Amata cyssea
Amata elongata
Creatonotos gangis-interrupta complex
Creatonotos transiens
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Arctiinae

Lithosiina

Eilema sp.

Eilema sp.
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Arctiinae

Macohasa cf. orientalis
Amerila astreus
Oeonistis entella
Padenia transversa
Olepa ricini agg.
Olepa ricini agg.
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Arctiinae

*Hemonia orbiferana*

*Spilarctia sp.*

*Trischalis subaurana*

*Chamaita nympha*

*Pareuchaetes pseudoinsulata*
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Arctiinae

Teulisna tumida (Female)  Teulisna sp.  Macotasa sp.

Pangora matherana  Rajendra biguttata
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Arctiinae

Garudinia pseudosimulana

Nyctemera coleta

Nepita conferta
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Lymantriinae

Arctornis comma
Artaxa sp.
Lymantria cf. detersa
Lymantria detersa
Lymantria fuliginosa
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Lymantriinae

Lymantria incerta
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Lymantriinae
Tribe: Nygmiini

Note: All the above photos represent species under the Tribe Nygmiini. However, Genus/ Species level information for this group requires more information than available from a photograph.
**Superfamily: Noctuoidea**  
Family: Erebidae  
Subfamily: Lymantriinae  
Tribe: Nygmiini

**Note:** All the above photos represent species under the Tribe Nygmiini. However, Genus/ Species level information for this group requires more information than available from a photograph.

*Orgyia postica*
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Erebinae

Avatha discolor
Avatha bubo

Homodes vivida

Hypospila bolinoides
Macaldenia palumba
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Erebinae

Mocis undata
Mocis frugalis

Sympis rufibasis
Trigonodes hyppasia
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Erebiniae

**Bastilla crameri**

**Spirama sp.**

**Thyas coronata**

**Erebus caprimulgus** (Female)
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Herminiinae

Subfamily Herminiinae

Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Calpinae

Eudocima phalonia
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Aganainae

Asota caricae

Asota producta  Neochera dominia  Neochera inops
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Boletobiinae

Ataboruza divisa

Cerynea sp.
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Boletobiinae

Laspeyria ruficeps

Laspeyria viridicincta

Enispa elataria
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Pangraptinae

Episparis liturata

Episparis tortuosalis

Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Anobinae

Plecoptera sp.

Tepriopsis divulsa
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Scoliopteryginae

Anomis flava

Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Hypeninae

Hypena sp.
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Hypeninae

Hypena laceratalis
Superfamily: Noctuoidea
Family: Erebidae
Subfamily: Tinoliinae

Superfamily: Noctuoidea
Family: Notodontidae
Subfamily: Dudusinae

Calesia fuscicorpus

Dudusa nobilis
Superfamily: Noctuoidea
Family: Notodontidae
Subfamily: Notodontinae

Stauropus alternus

Superfamily: Noctuoidea
Family: Notodontidae
Subfamily: Notodontinae

Noctuoidea
Superfamily: Geometroidea
Family: Geometridae
Subfamily: Ennominae

Cleora sp.

Psilalcis sp.

Hypomecis sp.

Boarmiini
Superfamily: Geometroidea
Family: Geometridae
Subfamily: Ennominae

Chiasmia nora

Chiasmia sp.

Chiasmia sp.

Chiasmia sp.

Chiasmia sp.
Superfamily: Geometroidea
Family: Geometridae
Subfamily: Ennominae

Aplochlorea vivilaca

Borbacha pardaria
Superfamily: Geometroidea
Family: Geometridae
Subfamily: Ennominae

*Biston sp.*

*Heterostegane tritocampsis*

*Hyperythra lutea*

*Dasyboarmia sp.*
Superfamily: Geometroidea
Family: Geometridae
Subfamily: Ennominae

Hypomecis transcissa

Hyposidra talaca

Petelia sp.

Petelia sp.

Racotis sp.

Zamarada sp.
Superfamily: Geometroidea
Family: Geometridae
Subfamily: Geometrinae

Argyrocosma inductaria
Comibaena attenuata
Berta cf. chrysolineata
Pingasa ruginaria
Comostola sp.
Protuliochnemis partita
Superfamily: Geometroidea
Family: Geometridae
Subfamily: Geometrinae
Tribe: Hemitheini

Hemitheini

Hemithea sp.
Superfamily: Geometroidea
Family: Geometridae
Subfamily: Sterrhinae

Chrysocraspeda faganaria

Chrysocraspeda sp.

Scopula emissaria

Scopula sp.

Lissoblemma lunuliferata
Superfamily: Geometroidea
Family: Geometridae
Subfamily: Sterrhinae

Traminda aventiaria

Timandra sp.

Timandra convectaria

Sterrhinae

Sterrhinae
Superfamily: Geometroidea
Family: Uraniidae
Subfamily: Epipleminae

*Epiplema fulvilinea*  
*Phazaca* sp.

*Phazaca* sp.  
*Phazaca* sp.

*Phazaca* sp.  
*Phazaca* sp.

*Phazaca* sp.  
*Phazaca* sp.
**Superfamily: Geometroidea**
Family: Uraniidae
Subfamily: Microniinae

*Micronia aculeata*

**Superfamily: Geometroidea**
Family: Geometridae
Subfamily: Incertae sedis

*Eumelea ludovicata*  
*Eumelea sp.*
Superfamily: Pyraloidea
Family: Crambidae
Subfamily: Spilomelinae

Agathodes ostentalis
Agrotera basinotata
Cirrhochrista brizoalis
Cnaphalocrocis patnalis
Eurrhyparodes bracteolalis
Glyphodes onychinalis
Superfamily: Pyraloidea
Family: Crambidae
Subfamily: Spilomelinae

Haritalodes derogata

Coptobasis sp.

Herpetogramma sp.

Herpetogramma sp.

Herpetogramma cf. licarsisalis
Superfamily: Pyraloidea
Family: Crambidae
Subfamily: Spilomelinae

*Maruca vitrata*

*Metoeca foedalis*

*Nosophora* sp.

*Palpita vitrealis*

*Palpita annulifer* complex
Superfamily: Pyraloidea
Family: Crambidae
Subfamily: Spilomelinae

- *Poliobotys ablactalis*
- *Prophantis adusta*
- *Pycnarmon alboflavalis*
- *Pygospila costiflexalis*
- *Pycnarmon cribrata*
- *Rehimena phrynealis*
Superfamily: Pyraloidea
Family: Crambidae
Subfamily: Spilomelinae

*Sameodes cancellalis*

*Spoladea recurvalis*

Tribe Steniini

*Tyspanodes linealis*
Superfamily: Pyraloidea
Family: Crambidae
Subfamily: Acentropinae

Parapoynx diminutalis

Parapoynx bilinealis

Acentropinae
Superfamily: Pyraloidea
Family: Crambidae
Subfamily: Pyraustinae

*Pagyda salvalis*

Superfamily: Pyraloidea
Family: Crambidae
Subfamily: Schoenobiinae

*Donacaula sp.*
Superfamily: Pyraloidea
Family: Pyralidae
Subfamily: Pyralinae

*Endotricha* sp.
Superfamily: Zygaenoidea
Family: Limacodidae
Subfamily: Limacodinae

*Thosea* sp.

*Narosa conspersa*  
*Eterusia aedea*

*Aergina hilaris*  
*Aerginia fumosa*
Superfamily: Zygaenoidea
Family: Limacodidae
Subfamily: Limacodinae
Superfamily: Calliduloidea
Family: Callidulidae
Subfamily: Callidulinae

Callidulinae sp.
Superfamily: Thyriodoidea
Family: Thyrididae

Striglina sp.

Striglina scitaria
Superfamily: Thyriodoidea
Family: Thyrididae
Subfamily: Siculodinae

Epaena sp.
Superfamily: Alucitoidea
Family: Alucitidae
Subfamily: Pterotopteryx

*Alucita* sp.
Superfamily: Drepanoidea
Family: Drepanidae
Subfamily: Drepaninae

*Teldenia vestigiata*
Superfamily: Gelechioidea
Family: Lecithoceridae
Subfamily: Lecithocerinae

*Lecithocera* sp.
Superfamily: Choreutoidea
Family: Choreutidae

*Choreutis* sp.
Superfamily: Tineoidea
Family: Psychidae
Subfamily: Oiketicinae

Eumeta variegata
Priya Singh is an independent researcher studying carnivore ecology, mostly in north-east and north-west India. Lately, she has been fascinated by moths and has been watching them as a hobby, and attempting to share her moth enthusiasm with others. She can be contacted at karnisar@gmail.com, or at ticksfleasandleeches.wordpress.com.
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