DAFTAR PUSTAKA

Aduse-Poku, K., Brattström, O., Kodandaramaiah, U., Less, D.C., Brakefield, P.M., Wahlberg, N. *Systematics and historical biogeography of the old world butterfly subtribe Mycalesina (Lepidoptera: Nymphalidae: Satyrinae)*. BMC Evolutionary Biology. 15: 167.

Borneo Orangutan Survival Foundation. 2019. Annual Report 2019. www.orangutan.or.id diakses 19 Januari 2024.

Durgut, R. 2013. *The Influence of Tropical Peat-Swamp Forest Edge Effects on Fruit Feeding Butterflies in the Sebangau Forest, Kalimantan*. University of Plymouth.

Esseen, P.A., Ringvall, A.H., Harper, K.A., Christensen, P., Svensson, J. 2016. *Factors driving structure of natural and anthropogenic forest edges from temperate to boreal ecosytems*. J Veg Sci.

Fachrul, M.F. 2012. Metode sampling bioekologi. Bumi Aksara. Jakarta.

Fahrig, L. 2003. *Effects of habitat fragmentation on biodiversity*. Annu. Rev. Ecol. Evol. Syst. (34) P. 487-515.

Fartmann, T., Muller, C., Poniatowski, D. 2013. *Effect of coppicing on butterfly communities of woodlands. Biological Conservation*. (159) P. 396 – 404.

Hance, T., van Baaren, J., Vernon, P. & Boivin, G. 2007. *Impact of extreme temperatures on parasitoids in a climate change perspective*. Annual Review of Entomology, 52, P. 107–126.

Holland, M.M. 1988. *A new look at Ecotones: Emerging International Projects on Landscape Boundaries*. Species inssue 17. The Internacional Uni on of Biological Scienes. P: 47 – 106.

Houston, M.A. 1994. *Biological Diversity*. The Coexistence of Species on Charging Landscape. Cambrige University Press.

Marín, M.A., Peña, C., Freitas, A.V.L., Wahlberg, N., Urribe, S.I. 2011. *From the phylogeny of the Satyrinae butterflies to the systematics of Euptychiina (Lepidoptera: Nymphalidae): history, progress and prospects*. Neotrop Entomol 40(1):1–13.

Magurran. A.E. 1988. *Ecological diversity and its measurement*. Princeton University Press.

Martins, L.P., Araujo Junior, EC., Martins, A.R.P., Duarte, M., Azevedo, G.G. 2017. *Species diversity and community structure of fruit-feeding butterflies (Lepidoptera:Nymphalidae) in an eastern Amazonian forest*. Papéis Avulsos de Zoologia Vol. 57(38) P: 481–489.

Matlack, G.R. 1993. *Microenvironment variation within and among forest edge sites in the eastern United States*. Vol. 66(3) P: 0–194.

Meeussen, C., Govart, S., Vanneste, T., et al. 2020. *Structural variation of forest edge across Europe*. For. Ecol. Mange. 462.

Murica, C. 1995. *Edge effect in fragmented forest: implications for conservation*. Trends in Ecology and Evolution. Vol. 10(2) P. 58-62.

Peña, C., Wahlberg, N., Weingartner, E., Kodandaramaiah, U., Nylin, S., Freitas, A.V.L., Brower, A.V.Z. 2006. *Higher level phylogeny of Satyrinae butterflies (Lepidoptera: Nymphalidae) based on DNA sequence data*. Mol Phylogenetics Evol 40:29–49.

Page, S.E., Rieley, J.O., Banks, C.J. 2011. *Global and regional importance of the tropical peatland carbon pool*. Global Change Biology. Vol. 17 P. 798-818.

Peggie, D. 2014. Mengenal Kupu-kupu. Bogor Pandu Aksara Publishing.

Pinheiro, C.E.G., Malinov, I.C., Andrade, T.O., Maravalhas, J.B., Andrade, M.B.M., Deus, L.P.A., Pedrosa, L.G.P., Zanatta, G.V. 2008. As borboletas (Lepidoptera, Papilionoidea) do Campus Universi tário Darcy Ribeiro (Distrito Federal, Brasil). *Biota Neotropica*. Vol. 8(4) P: 139–144.

Posa, M.R.C., Wijedasa, L.S., Corlett, R.T. 2011 Biodiversity and conservation of tropical peat swamp forest. Bioscience. Vol. 61(1) P:49–57.

Powell, J., Spooner, F. 2018. *Cloudbridge Nature Reserve butterfly project protocol*. Cloudbridge Nature Reserve.

Rands, S.A., Whitney., H.M. 2011. *Field margins foraging distances and their impacts on nesting pollinator success*. PLoS ONE. Vol. 6 (10).

Ritung S., Wahyunto., Nugroho, K., Sukarman., Hikmatullah., Suparto., Tafakresnanto, C. 2011. Peta Lahan Gambu Indonesia Skala 1:250.000. Jakarta (ID): Balai Besar Penelitian dan Pengembangan Sumber Daya Lahan Pertanian.

Roberts, H.P., King, D.I., Milam, J. 2017. *Factors affecting bee communities in forest openings and adjacent mature forest*. For Ecol Manag. Vol. 394 P: 111-121.

Rose, M., Posa, C., Wijedasa, L.S., Corlett, R.T. 2011. *Biodiversity and Conservation of Tropical Peat Swamp Forests*. BioScience. Vol. 61(49) P: 49–57.

Ruslan, H., Andayaningsih, D. 2021. Hutan Lindunga, Suaka Margasatwa Ekowisata dan Taman Wisata Alam Angke Kapuk Jakarta Utara. Lembaga Penerbitan Universitas Nasional.

Saputra, F. 2018. Daerah Jelajah Orangutan (*Pongo pygmaeus wurmbii*, TIEDEMANN 1808) Remaja Berdasarkan Ketersediaan Tumbuhan Berbuah di Stasiun Penelitian Orangutan Tuanan, Kalimantan Tengah. Sekolah Pascasarjana, Institut Pertanian Bogor.

Soegianto, A. 1994. Ekologi Kuantitatif: Metode Analisis Populasi dan Komunitas. Usaha Nasional. Surabaya.

Stoepler, T.M., Lill, J.T. & Smith, A.H. 2013. *Direct and indirect effects of light environment generate ecological trade-offs in herbivore performance and parasitism*. Ecology, Vol. 94 P: 2299–2310.

Uwizelimana, J.D., Nsabimana, D., Wagner, T. 2021. *Diversity and distribution of Fruit-feeding butterflies (Lepidoptera:Nymphalidae) in Nyungwe National Park, Rwanda*. University of Rwanda. Wiley African Journal of Ecology.

Van Schaik, C. 1999. *The Socioeccology of Fission-Fusion Sociality in Orangutans*. Primates: 73 – 90.

Van-Swaay, C., Warren, M.S., Lois, G. 2006. *Biotope use and trends of European butterflies*. Journal of Insect Conservation. Vol. 10 P. 189 – 209.

Wahyunto., Nugroho, K., Ritung, S., Sulaeman, Y. 2014. *Indonesian peatland map: method, certainty, and uses*. In Proceeding Lokakarya Kajian dan Sebaran Gambut di Indonesia. Hal: 81–96.

LAMPIRAN

Tabel Lampiran

Tabel Lampiran 1. Kelimpahan Kupu-kupu di Transek S jarak 0 m

Spesies	Individu	0 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	1	0,142857	-1,94591	-0,27799	0,540938	0,077277
Mycalesis mineus	1	0,142857	-1,94591	-0,27799	0,540938	0,077277
Zeuxidia aurelius		0		0	0	0
Zeuxidia doubledayi		0		0	0	0
Charaxes bernardus		0		0	0	0
Melanitis leda	3	0,428571	-0,8473	-0,36313	0,307677	0,131862
Dophila evelina	2	0,285714	-1,25276	-0,35793	0,448404	0,128116
Agatasa calydonia		0		0	0	0
Total	7	H		1,277034	1,837958	0,414531

Tabel Lampiran 2. Kelimpahan Kupu-kupu di Transek S jarak 100 m

Spesies	Individu	100 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	2	0,4	-0,91629	-0,36652	0,335835	0,134334
Mycalesis mineus		0		0	0	0
Zeuxidia aurelius		0		0	0	0
Zeuxidia doubledayi		0		0	0	0
Charaxes bernardus		0		0	0	0
Melanitis leda	2	0,4	-0,91629	-0,36652	0,335835	0,134334
Dophila evelina		0		0	0	0
Agatasa calydonia	1	0,2	-1,60944	-0,32189	0,518058	0,103612
Total	5	H		1,05492	1,189729	0,37228

Tabel Lampiran 3. Kelimpahan Kupu-kupu di Transek S jarak 250 m

Spesies	Individu	250 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	4	0,266667	-1,32176	-0,35247	0,465877	0,124234
Mycalesis mineus	2	0,133333	-2,0149	-0,26865	0,541311	0,072175
Zeuxidia aurelius	5	0,333333	-1,09861	-0,3662	0,402316	0,134105
Zeuxidia doubledayi	1	0,066667	-2,70805	-0,18054	0,488902	0,032593
Charaxes bernardus		0		0	0	0
Melanitis leda	2	0,133333	-2,0149	-0,26865	0,541311	0,072175

Dophila evelina	1	0,066667	-2,70805	-0,18054	0,488902	0,032593
Agatasa calydonia		0		0	0	0
Total	15	H		1,617053	2,92862	0,467876

Tabel Lampiran 4. Kelimpahan Kupu-kupu di Transek S jarak 450 m

Spesies	Individu	450 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	5	0,5	-0,69315	-0,34657	0,240227	0,120113
Mycalesis mineus		0		0	0	0
Zeuxidia aurelius		0		0	0	0
Zeuxidia doubledayi		0		0	0	0
Charaxes bernardus		0		0	0	0
Melanitis leda	2	0,2	-1,60944	-0,32189	0,518058	0,103612
Dophila evelina	3	0,3	-1,20397	-0,36119	0,434865	0,13046
Agatasa calydonia		0		0	0	0
Total	10	H		1,029653	1,19315	0,354184

Tabel Lampiran 5. Kelimpahan Kupu-kupu di Transek S jarak 700 m

Spesies	Individu	700 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	4	0,25	-1,38629	-0,34657	0,480453	0,120113
Mycalesis mineus		0			0	0
Zeuxidia aurelius	5	0,3125	-1,16315	-0,36348	0,422787	0,132121
Zeuxidia doubledayi		0			0	0
Charaxes bernardus	4	0,25	-1,38629	-0,34657	0,480453	0,120113
Melanitis leda	2	0,125	-2,07944	-0,25993	0,54051	0,067564
Dophila evelina	1	0,0625		0	0	0
Agatasa calydonia		0		0	0	0
Total	16	H		1,316562	1,924203	0,439911

Tabel Lampiran 6. Kelimpahan Kupu-kupu di Transek R jarak 0 m

Spesies	Individu	0 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	2	0,222222	-1,50408	-0,33424	0,502722	0,111716
Mycalesis mineus	3	0,333333	-1,09861	-0,3662	0,402316	0,134105
Zeuxidia aurelius		0		0	0	0
Zeuxidia doubledayi		0		0	0	0
Charaxes bernardus	1	0,111111	-2,19722	-0,24414	0,536422	0,059602
Melanitis leda	1	0,111111	-2,19722	-0,24414	0,536422	0,059602

Dophila evelina	2	0,222222	-1,50408	-0,33424	0,502722	0,111716
Agatasa calydonia		0		0	0	0
Total	9	H		1,522955	2,480604	0,476742

Tabel Lampiran 7. Kelimpahan Kupu-kupu di Transek R jarak 100 m

Spesies	Individu	100 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	6	0,375	-0,98083	-0,36781	0,36076	0,135285
Mycalesis mineus		0		0	0	0
Zeuxidia aurelius	5	0,3125	-1,16315	-0,36348	0,422787	0,132121
Zeuxidia doubledayi		0		0	0	0
Charaxes bernardus		0		0	0	0
Melanitis leda	2	0,125	-2,07944	-0,25993	0,54051	0,067564
Dophila evelina	1	0,0625	-2,77259	-0,17329	0,480453	0,030028
Agatasa calydonia	2	0,125	-2,07944	-0,25993	0,54051	0,067564
Total	16	H		1,424443	2,345019	0,432562

Tabel Lampiran 8. Kelimpahan Kupu-kupu di Transek R jarak 250 m

Spesies	Individu	250 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	10	0,625	-0,47	-0,29375	0,138065	0,08629
Mycalesis mineus	1	0,0625	-2,77259	-0,17329	0,480453	0,030028
Zeuxidia aurelius	2	0,125	-2,07944	-0,25993	0,54051	0,067564
Zeuxidia doubledayi		0		0	0	0
Charaxes bernardus		0		0	0	0
Melanitis leda	1	0,0625	-2,77259	-0,17329	0,480453	0,030028
Dophila evelina		0		0	0	0
Agatasa calydonia	2	0,125	-2,07944	-0,25993	0,54051	0,067564
Total	16	H		1,160186	2,17999	0,281474

Tabel Lampiran 9. Kelimpahan Kupu-kupu di Transek R jarak 450 m

Spesies	Individu	450 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	5	0,454545	-0,78846	-0,35839	0,282575	0,128443
Mycalesis mineus		0		0	0	0
Zeuxidia aurelius	3	0,272727	-1,29928	-0,35435	0,460401	0,125564
Zeuxidia doubledayi		0		0	0	0
Charaxes bernardus	1	0,090909	-2,3979	-0,21799	0,522718	0,04752
Melanitis leda		0		0	0	0

Dophila evelina	1	0,090909	-2,3979	-0,21799	0,522718	0,04752
Agatasa calydonia	1	0,090909	-2,3979	-0,21799	0,522718	0,04752
Total	11	H		1,366711	2,311131	0,396567

Tabel Lampiran 10. Kelimpahan Kupu-kupu di Transek R jarak 700 m

Spesies	Individu	700 m				
		Pi	lnPi	Pi.ln Pi	Pi.(ln Pi)²	(Pi.ln Pi)²
Mycalesis anapati	3	0,176471	-1,7346	-0,30611	0,530972	0,093701
Mycalesis mineus		0			0	0
Zeuxidia aurelius	8	0,470588	-0,75377	-0,35472	0,267375	0,125824
Zeuxidia doubledayi		0			0	0
Charaxes bernardus	1	0,058824	-2,83321	-0,16666	0,472182	0,027775
Melanitis leda	2	0,117647	-2,14007	-0,25177	0,53881	0,063389
Dophila evelina		0		0	0	0
Agatasa calydonia	3	0,176471	-1,7346	-0,30611	0,530972	0,093701
Total	17	H		1,38536	2,340311	0,40439

Tabel Lampiran 11. Komposisi spesies kupu-kupu ulangan ke-1

Spesies	Lokasi									
	R-0	R-100	R-250	R-450	R-700	S-0	S-100	S-250	S-450	S-700
Mycalesis anapati		3	6	2				3		2
Mycalesis mineus	1							2		
Zeuxidia aurelius		3	2		2			1		2
Zeuxidia doubledayi										
Charaxes bernardus										
Melanitis leda	1					1		1	2	1
Dophila evelina		1				1				1
Agatasa calydonia		2			1					

Tabel Lampiran 12. Komposisi spesies kupu-kupu ulangan ke-2

Spesies	Lokasi									
	R-0	R-100	R-250	R-450	R-700	S-0	S-100	S-250	S-450	S-700
Mycalesis anapati			1		1			1	2	
Mycalesis mineus										
Zeuxidia aurelius		1			4			2		1
Zeuxidia doubledayi										
Charaxes bernardus	1									3
Melanitis leda		2			1	2				
Dophila evelina										

Agatasa calydonia			1	1						

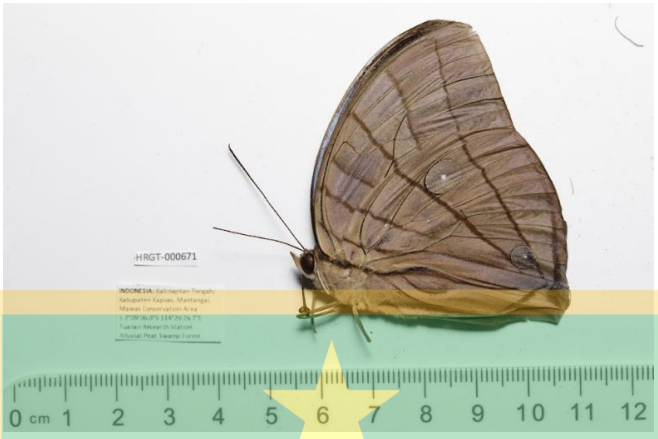
Tabel Lampiran 13. Komposisi spesies kupu-kupu ulangan ke-3

Spesies	Lokasi									
	R-0	R-100	R-250	R-450	R-700	S-0	S-100	S-250	S-450	S-700
Mycalesis anapati	1	2	1		1	1	1		1	
Mycalesis mineus										
Zeuxidia aurelius		1		1						
Zeuxidia doubledayi										
Charaxes bernardus				1						1
Melanitis leda					1		2	1		1
Dophila evelina	1					1		1		
Agatasa calydonia			1				1			

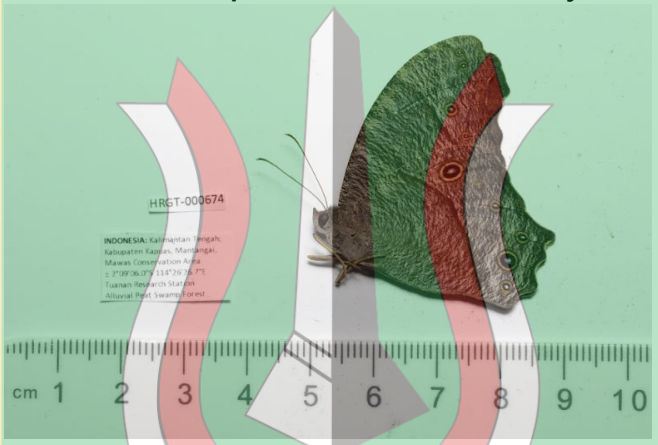
Tabel Lampiran 14. Komposisi spesies kupu-kupu ulangan ke-4

Spesies	Lokasi									
	R-0	R-100	R-250	R-450	R-700	S-0	S-100	S-250	S-450	S-700
Mycalesis anapati	1	2	2	3	1		2		2	2
Mycalesis mineus	2		1			1				
Zeuxidia aurelius				2	2			1		2
Zeuxidia doubledayi								1		
Charaxes bernardus					1					
Melanitis leda			1							
Dophila evelina	1			1					3	
Agatasa calydonia					2					

Gambar Lampiran



Gambar Lampiran 1. *Zeuxidia doubledayi*



Gambar Lampiran 2. *Melantis leda*

Gambar Lampiran 3. *Mycalesis mineus*

Gambar Lampiran 4. *Dophla evelina*

Gambar Lampiran 5. *Zeuxidia aurelius*

Gambar Lampiran 6. *Agatasa calydonia*

Gambar Lampiran 7. *Charaxes bernardus*

Gambar Lampiran 8. *Mycalesis anapati*

14% Overall Similarity

Top sources found in the following databases:

- 14% Internet database
- Crossref database
- 0% Submitted Works database
- 3% Publications database
- Crossref Posted Content database

TOP SOURCES

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

1	repository.unas.ac.id Internet	8%
2	docplayer.info Internet	1%
3	bdlhksamarinda.bp2sdm.menlhk.go.id Internet	<1%
4	repository.ub.ac.id Internet	<1%
5	jurnal.untad.ac.id Internet	<1%
6	text-id.123dok.com Internet	<1%
7	repository.radenintan.ac.id Internet	<1%
8	id.123dok.com Internet	<1%

9	Maria Mathilda Nino. "Keanekaragaman Kupu-Kupu (Lepidoptera) di Se... Crossref	<1%
10	gemawiralodra.unwir.ac.id Internet	<1%
11	idoc.pub Internet	<1%
12	mil.untan.ac.id Internet	<1%
13	repository.uinjkt.ac.id Internet	<1%
14	e-journal.unair.ac.id Internet	<1%
15	eprints.perbanas.ac.id Internet	<1%
16	jos.unsoed.ac.id Internet	<1%
17	openjournal.unpam.ac.id Internet	<1%
18	organizationbehavior.wordpress.com Internet	<1%
19	pt.slideshare.net Internet	<1%