

Recommendations:

This study identified the use of calls as a useful tool to help distinguish between frogs, particularly within the *Platymantis* genus. Use of genetic techniques would enhance morphological and ecological methods in determining taxonomic status. Furthermore DNA samples and call analysis could be used non destructively and would avoid the collection of rare frogs.

From the results of this study, the following specific research and conservation priorities have been identified:

- Determine the taxonomy of
 1. The white frog
 2. *Platymantis* sp
 3. *Kaloula* sp
- Collect large samples of calls from the frogs on Polillo and compare with large samples collected on Luzon
- Carry out genetic analyses of the species on Polillo and comparable species on Luzon (particularly the aforementioned).
- Determine the wider distribution of frog species on Polillo, using calls to identify the presence of cryptic groups.
- Search for the white frog over different parts of Polillo and determine its habitat requirements.
- Assess the effects of forest fragmentation on supporting *Platymantis* sp populations
- Preserve border vegetation and trees beside streams even when in agricultural land, especially streams linking patches of forest.
- Prevent further destruction of both primary and secondary forest sites which are important habitats and may support populations of rare frog species
- Use frog call recordings as an environmental educational tool
- Conduct investigations into the reproductive ecology of the amphibian species on Polillo

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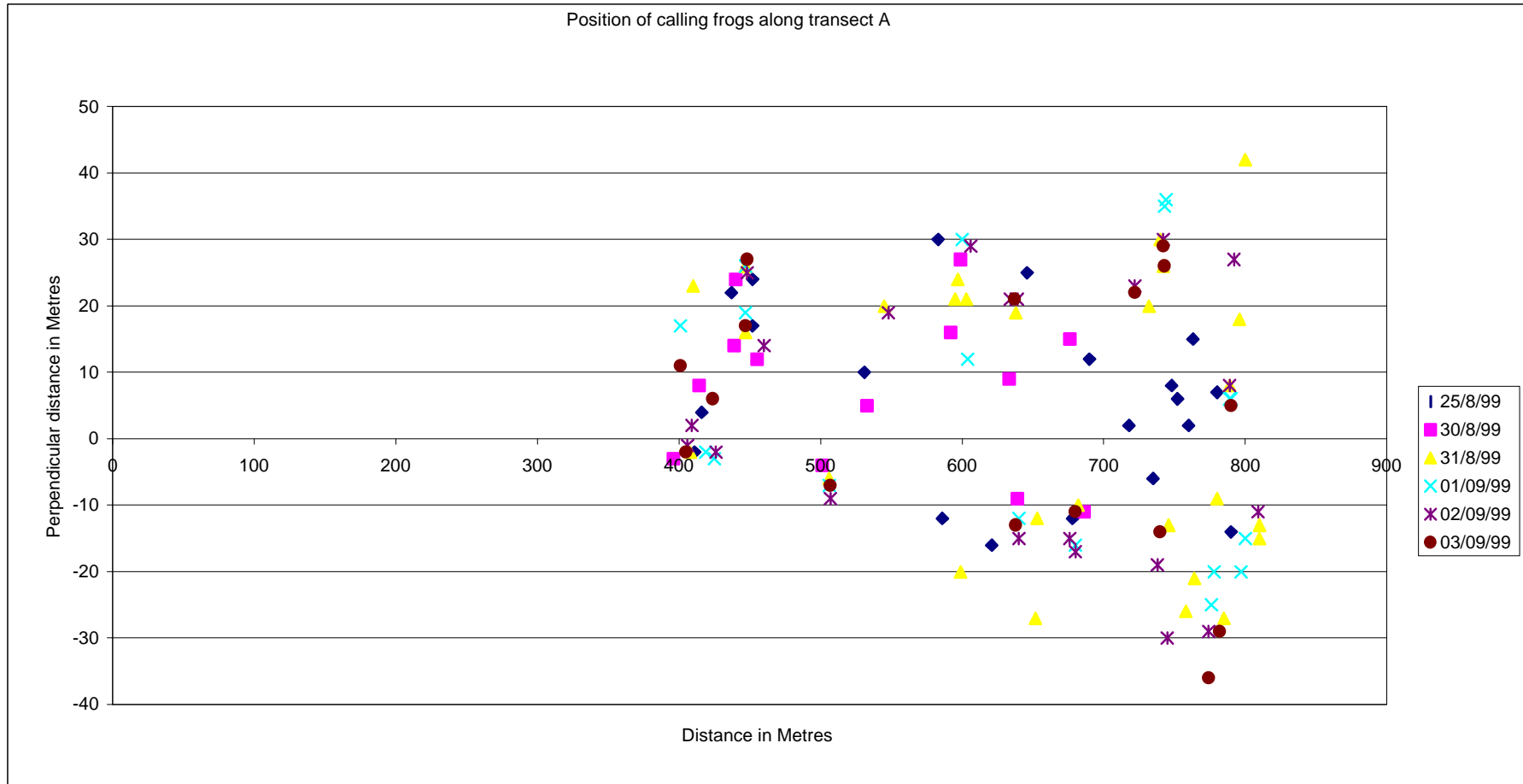
Appendix I

For every site the model chosen by DISTANCE is stated e.g. Hazard/Cosine, the date, the Density D, degrees of freedom and 95% Confidence intervals for the estimate.

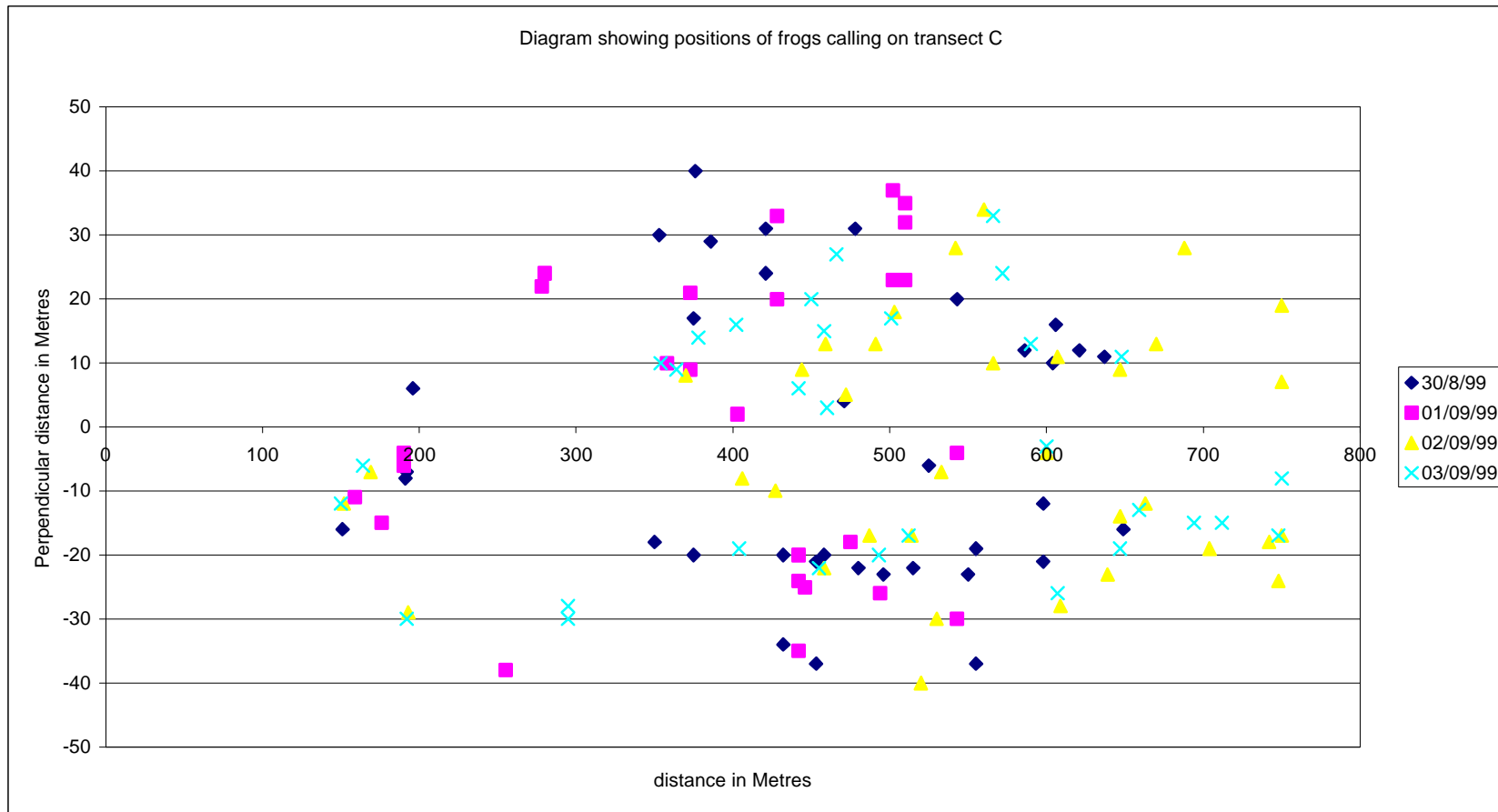
Pooled Estimates:

		Estimate	%CV	df	95% Confidence Interval		
SITE E&M combined							
Hazard/Cosine	D	20.306	21.92	4	11.128	37.054	
Edges combined							
Hazard/Cosine	D	7.3304	17.09	3	4.2719	12.579	
Site E							
6/9/99	Uniform/Cosine	D	28.947	21.32	22	18.694	44.824
14/9/99	Uniform/Cosine	D	23.611	24.25	17	14.257	39.102
Site M							
6/9/99	Uniform/Cosine	D	13.051	28.05	16	7.2828	23.390
Forest edge O							
28/8/99	Uniform/Cosine	D	16.420	22.36	20	10.358	26.031
Forest edge A							
25/8/99	Uniform/Cosine	D	11.816	29.47	19	6.4592	21.615
30/8/99	Uniform/Cosine	D	8.0247	27.74	13	4.4572	14.448
31/8/99	Uniform/Cosine	D	7.9365	22.36	20	5.0064	12.582
1/9/99	Uniform/Cosine	D	5.9524	23.57	18	3.6519	9.7019
2/9/99	Uniform/Cosine	D	7.9365	22.36	20	5.0064	12.582
3/9/99	Uniform/Cosine	D	5.2910	25.00	16	3.1394	8.9173
Forest edge C							
30/8/99	Uniform/Cosine	D	3.7500	25.82	15	2.1823	6.4438
1/9/99	Uniform/Cosine	D	4.9342	25.82	15	2.8715	8.4787
2/9/99	Uniform/Cosine	D	6.1687	29.55	19	3.3666	11.303
3/9/99	Uniform/Cosine	D	5.5556	22.36	20	3.5044	8.8072
Edges broken down							
Forest edge A							
25/8/99							
1 st 220m	Uniform/Cosine	D	6.0606	35.36	8	2.7467	13.373
2 nd 220m	Uniform/Cosine	D	10.909	28.87	12	5.8892	20.208
30/8/99							
1 st 150m	Uniform/Cosine	D	9.7222	37.80	7	4.0968	23.072
2 nd 150m	Uniform/Cosine	D	7.4074	40.82	6	2.8341	19.360
31/8/99							
1 st 220m	Uniform/Cosine	D	8.7413	31.62	10	4.3939	17.390
2 nd 220m	Uniform/Cosine	D	9.1991	24.25	17	5.5548	15.235
1/9/99							
1 st 220m	Uniform/Cosine	D	6.0606	35.36	8	2.7467	13.373
2 nd 220m	Uniform/Cosine	D	6.3131	31.62	10	3.1734	12.559
2/9/99							
1 st 220m	Uniform/Cosine	D	6.2696	35.36	8	2.8414	13.834
2 nd 220m	Uniform/Cosine	D	9.0909	28.87	12	4.9077	16.840
3/9/99							
1 st 220m	Uniform/Cosine	D	5.0505	40.82	6	1.9324	13.200
2 nd 220m	Uniform/Cosine	D	6.3131	31.62	10	3.1734	12.559
Forest edge C							
30/8/99							
1 st 200m	Uniform/Cosine	D	6.9444	44.72	5	2.3167	20.816
2 nd 200m	Uniform/Cosine	D	8.7500	26.73	14	4.9810	15.371
3 rd 100m	Uniform/Cosine	D	14.865	30.15	11	7.7660	28.453
1/9/99							
1 st 200m	Uniform/Cosine	D	4.6053	37.80	7	1.9406	10.929
2 nd 200m	Uniform/Cosine	D	9.4595	26.73	14	5.3849	16.617
2/9/99							
1 st 200m	Uniform/Cosine	D	2.5862	57.74	3	.46930	14.252
2 nd 200m	Uniform/Cosine	D	14.828	32.52	14	7.5118	29.270
3 rd 200m	Uniform/Cosine	D	12.500	24.25	17	7.5479	20.701
3/9/99							
1 st 200m	Uniform/Cosine	D	4.1667	44.72	5	1.3900	12.490
2 nd 200m	Uniform/Cosine	D	12.963	26.73	14	7.3793	22.772
3 rd 200m	Uniform/Cosine	D	9.0909	28.87	12	4.9077	16.840
Edge transect O							
1 st 150m	Uniform/Cosine	D	14.286	33.33	9	6.8554	29.770
2 nd 150m	Uniform/Cosine	D	17.460	30.15	11	9.1220	33.421

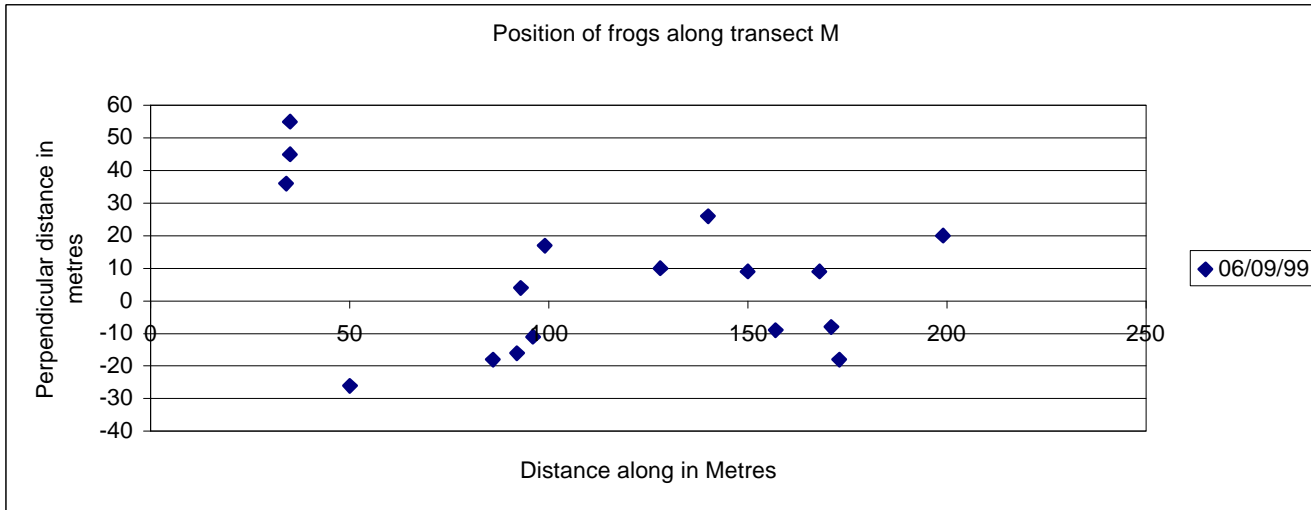
Appendix II



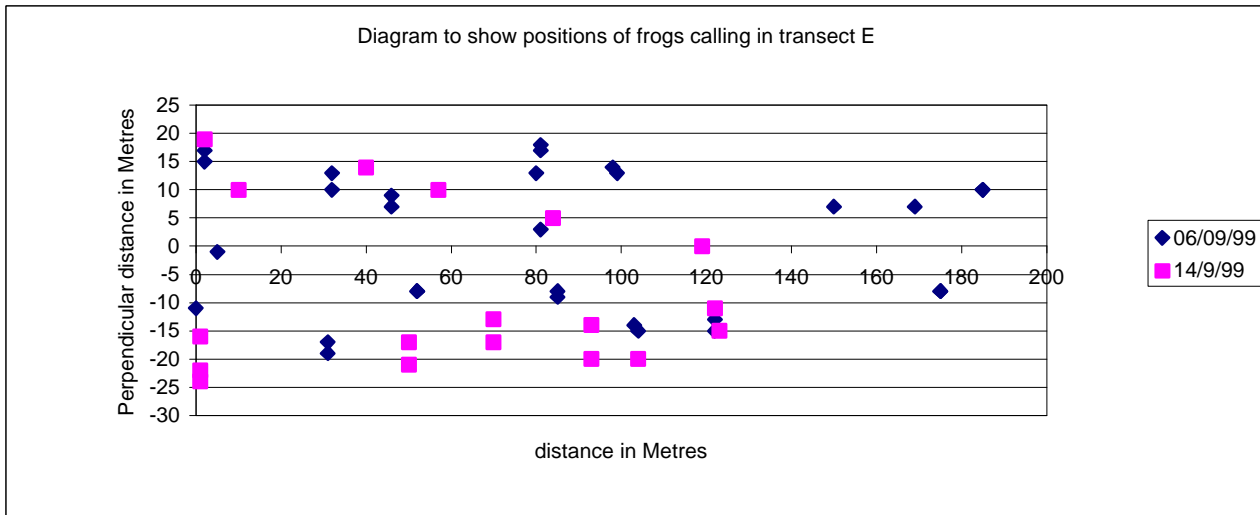
Transect A runs past the pitfalls along the path, beyond site g following the stream. All the transects stop after 810m except for on the 30/8/99 which stops after 700m.

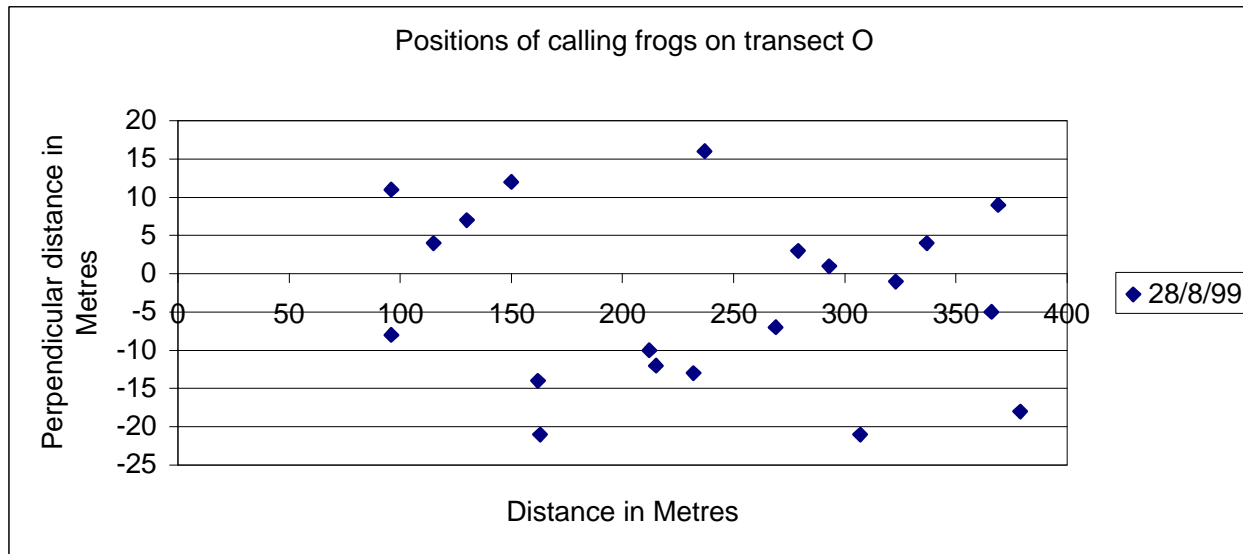


Transect C runs past the tanks into the forest following the stream. All of the transects stopped at 750m apart from on the 2/9/99, which stopped at 650m



Transect M runs through site M and stops after 200m. Transect E runs through site E. The transect on the 14/9/99 stops at 150m, the transect on the 6/9/99 stops after 200m.





Transect O enters the forest from the far side of the watershed, the exact position is unknown.

Appendix III

Densities of frogs per square metre, for every site

	A	O	B	N	H	G	F	L	J	M	K	D	E
Bm	0.042	0	0.004	0.004	0	0	0	0	0	0	0	0	0
Rvl	0.052	0.156	0	0.006	0	0	0	0	0	0	0	0	0
Rw	0.004	0.006	0.023	0.077	0.15	0.163	0.104	0.25	0.11	0.242	0.267	0.152	0.21
Rss	0	0.002	0.038	0.01	0.048	0.048	0.027	0.046	0.052	0.035	0.063	0.077	0.083
Pl	0.019	0	0	0.004	0	0	0	0	0	0	0	0	0
Pd	0	0	0.006	0.021	0.052	0.063	0.042	0.056	0.085	0.102	0.063	0.058	0.102
Rm	0	0	0.002	0.002	0	0.002	0	0.002	0.002	0	0.002	0	0.006
OI	0	0.069	0	0.01	0.052	0.104	0.096	0.183	0.121	0.098	0.15	0.115	0.148
Psp	0	0	0	0	0	0	0	0.008	0	0	0.004	0.002	0.006
Pc	0	0	0	0	0	0.002	0.008	0	0.002	0	0.006	0.008	0.008
Re	0	0	0	0	0.019	0	0	0	0.004	0	0	0.008	0.004
Total	0.117	0.233	0.073	0.135	0.321	0.381	0.277	0.546	0.377	0.477	0.554	0.421	0.569