

# STATE FORESTS of NSW. THREATENED SPECIES PROTOCOL PRE-LOGGING AND PRE-ROADING SURVEY REPORT.

**NORTHERN** 

REGION

URBENVILLE MANAGEMENT AREA

**RIVERS** 

STATE FOREST:

**YABBRA** 

SURVEY REPORT NO:

YA2.3/98

COMPARTMENT

196, 199

#### Flora and Threatened Fauna Features Traverse

Net Area:

Notes:

339 hectares

Traverse Length:

10.5 kilometres (route of traverse on attached map)

Surveyed By:

D. Binns

Duration of Traverse:

8/9/97).

not given (carried out between 8-10/3/98)

#### 1. Conservation Protocol Appendix 1 Flora Detections

Species Name	AMGNorth	AMGEast	Locality Description	Date	Observers Name	Number Observed	Count/ Estimate
Cynanchum . elegans					· ***		

This survey done to supplement previous surveys by R. Heyward et al (see report

Location of detections shown on attached map.

Threatened Flora Individuals or Populations are marked in the field.

#### 2. Conservation Protocol Threatened Fauna Features Detected

Feature Type	Marked in Field	Marked on Map
Golden-tipped Bat	No	Yes
Glossy Black Cockatoo	No	Yes
		•
		1_

Notes:

This survey done to supplement previous surveys by R. Heyward et al (see report 8/9/97). The location of the bat can be seen from the Harp Trap site Compt 196

(19/3/98)

Number of Data Sheets Attached:

I

#### NORTHERN RIVERS REGION - Threatened Species Pre-logging and Pre-roading Survey

NORTHERN

REGION

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STATE FOREST:

**YABBRA** 

SURVEY REPORT NO:

YA2.3/98

COMPARTMENT

196, 199

#### PART C: TARGETED FAUNA SURVEYS

Surveys Undertaken

Survey Type	Date Undertaken	Time Spent	Undertaken By
Call Playback (N end 196)	12/3/98	0:45 hrs	M. Crowley/K. McCray
Call Playback (1km S of above)	12/3/98	0:45 hrs	M. Crowley/K. McCray
Spotlight (walk) (T4)	12/3/98	1:10 hrs	M. Crowley/K. McCray
Call Playback (SW 199)	13/3/98	1:00 hrs	M. Crowley/K. McCray
Spotlight (drive) (T4)	13/3/98	1:00 hrs	M. Crowley/K. McCray
Spotlight (drive) (S 199)	13/3/98	1:00 hrs	M. Crowley/K. McCray
Bat Survey (3 Sites-2 traps)	12-14/3/98		M. Crowley/K. McCray
Bat Survey (2 Sites-2 traps)	19-20/3/98		J. & J. Reside

Location of surveys shown on attached maps.

Notes:

Refer to attachments

Number of Data Sheets Attached:

18

#### NORTHERN RIVERS REGION - Threatened Species Pre-logging and Pre-roading Survey

**NORTHERN** 

**REGION** 

URBENVILLE MANAGEMENT AREA

**RIVERS** 

STATE FOREST:

YABBRA

**SURVEY REPORT NO:** 

YA2.3/98

COMPARTMENT

196, 199

#### PART D. SURVEY RESULTS

Prepared By:

K. McCray

Date:

17/3/98

#### New Threatened Fauna Detections

Species Name	AMG East	AMG North	Date	Observation Type	Observers Name	Survey/ Incidental
Masked Owl	4 48 700	68 21 520	13/3/98	Heard	M. Crowley/K. McCray	Survey
Golden-tipped Bat	4 49 400	68 23 600	19/3/98	Captured	J. & J. Reside	Survey
Golden-tipped Bat	4 49 200	68 24 700	19/3/98	Captured	J. & J. Reside	Survey
Glossy-black Cockatoo	4 50 400	68 21 600	19/3/98	Heard	J. & J. Reside .	Incidental

Notes:

Further details are provided on appended sheets

#### **SUMMARY**

The results of the database search, threatened flora and fauna traverse and spotlighting, nocturnal callback surveys result in the implementation of the following threatened flora and fauna prescriptions:

- Masked Owl.
- Golden-tipped Bat
- Glossy Black Cockatoo

#### Attachments:

- 1. Flora survey report by D. Binns
- 2. Map 1 showing survey effort in compartment 196
- 3. Map 2 showing survey effort in compartment 199
- 4. Map 3 showing threatened fauna detections in compartment 199
- 5. Map 4 showing additional survey effort in compartment 196
- 6. Map 5 showing additional survey effort in compartment 199



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NORTHERN

REGION

URBENVILLE MANAGEMENT AREA

**RIVERS** 

STATE FOREST:

**YABBRA** 

SURVEY REPORT NO:

YA1.3/98 (

COMPARTMENT

286

#### Flora and Threatened Fauna Features Traverse

Net Area:

192 hectares

1. Conservation Protocol Appendix 1 Flora Detections

Species Name	AMGNorth	AMGEast	Locality Description	Date	Observers Name	Number Observed	Count/ Estimate
Tylophora woolsii					D. Binns		-
Plectanthrus sp.		]			D. Binns		

Notes:

See Doug Binns' report (11/3/98) and Roger Heywood's report (8/9/97) for further

details.

#### 2. Conservation Protocol Threatened Fauna Features Detected

Feature Type	Marked in Field	Marked ол Мар
Glossy-black Cockatoo feeding site	No	Yes
Masked Owl	No	Yes
		1

Notes:

See reports above for further details.

NORTHERN RIVERS REGION - Threatened Species Pre-logging and Pre-roading Survey

NORTHERN ·

REGION

URBENVILLE MANAGEMENT AREA

**RIVERS** 

STATE FOREST: YABBRA

SURVEY REPORT NO:

YA1.3/98

**COMPARTMENT** 

286

#### Surveys Undertaken

Survey Type	Date Undertaken	Time Spent	Undertaken By		
Call Playback	9/3/98	0:53 hrs	D. Binns, M. Crowley, K. McCray		
Spotlight (walk)	9/3/98	1:02 hrs	M. Crowley, K. McCray		
Bat Survey (2 sites)	9-11/3/98		M. Crowley, K. McCray		
Koala Traverses (2km)	10/3/98	4:25 hrs total	M. Crowley, K. McCray		
Koala Star Traverse	10/3/98	2:15 hrs	K. McCray		
Supplemental:		<u> </u>			
Masked Owl	19/3/98	0:50 hrs	N.W. Longmore		
Marbled Frogmouth	21/9/98	0:30 hrs	N.W. Longmore		

Location of surveys shown on attached maps.

Notes:

Please note these surveys are only to supplement surveys carried out by R.

Heywood et. al. (see report of 8/9/97)

#### PART D. SURVEY RESULTS

Prepared By:

K. McCray

Date:

17/3/98

#### New Threatened Fauna Detections

Species Name	AMG East	AMGNorth	Date	Observation Type	Observers Name	Survey/ Incidental
K. papuensis	4 43 600	68 25 450	11/3/98	Capture	M. Crowley/K. McCray	Survey
Glossy-black Cockatoo	4 43 400	68 25 100	10/3/98	Seen	K. McCray	Survey
Glossy-black Cockatoo	4 44 100	68 25 150	10/3/98	Seen	M. Crowley/K. McCray	Survey
Masked Owl	4 43 800	68 25 200	10/3/98	Heard	M. Crowley.K. McCray	Incidental
Glossy-black Cockatoo	4 43 500	68 25 500	19/3/98	Feeding site	N.W. Longmore	Incidental
Masked Owl	4 44 800	68 25 400	21/3/98	Heard	N.W. Longmore	Incidental
Masked Owl	4 44 500	68 25 300	21/3/98	Heard	N.W. Longmore	Incidental

#### SUMMARY

The results of the database search, threatened flora and fauna traverse and spotlighting, nocturnal callback surveys result in the implementation of the following threatened flora and fauna prescriptions:

Golden-tipped Bat

### NORTHERN RIVERS REGION - Threatened Species Pre-logging and Pre-roading Survey

- Glossy-black Cockatoo. Masked Owl
- Koala High-use area.

CONCLUDING FAUNA SURVEYS of COMPARTMENTS 196 & 199, WITH SUPPLEMENTAL NOTES, AND ADDITIONAL SURVEYS FOR SPECIFIC SPECIES WITHIN COMPARTMENT 286

-prepared by N.W. Longmore, [Acting Ecologist] Northern Rivers Region. March 1998

Results of field surveys are provided as field diary notes, and data sheets, with scheduled and target species records provided as AMG co-ordinants. Maps provide details of playback locations, harp trap locations, and the extent and location of the transects and traverses undertaken.

#### Introduction:

Concluding surveys for bats, koalas, and frogs in compartments 196 and 199 were conducted by J. & J. Reside [19-20 March 1998], with some supplemental work being carried out on spotlighting and harp trapping [lists appended]. Additional surveys for frogs in both compartments were carried out by N.W. Longmore [21 March 1998]. Supplemental surveys for Masked Owl [Tyto novaehollandiae] and Marbled Frogmouth [Podargus ocellatus] within compartment 286 were carried out on 197 March 1998 and 21 March 1998 respectively [reports and lists appended]? This report adds to and supplements those provided previously.

#### Fauna survey methodology:

Includes application of the pre-logging / roading survey design forming part of the Threatened Species Protocol [3 September 1997], incidental records collected during the survey, as well as integrated koala transect surveys, harp trap surveys, and frog transects, and includes:

- 1. Walked spotlight transects, one kilometre long (minimum), 100 watt spotlight.
- 2. Call playback for target species: Masked Owl, Marbled Frogmouth.
  Calls are commenced after a substantial listening period and played briefly at a low volume. This is done to avoid disrupting localised activity of the target or other species that may respond, or be disturbed, and to maximise knowledge of actual habitat use, rather than gaining response from further afield, this is followed by louder playbacks.
- 3. Extended listening time for calls, usually two minutes after the first broadcast and ten minutes after the concluding broadcast.
- 4. Harp trapping for bat species.
- 5. Frog surveys, along creek transects, habitat searches, and call recording.
- 6. Both parties (Resides, and Longmore) camped out in an effort to increase the recording level for incidental and target species.

### Results of Fauna Surveys, including supplemental and target species surveys are:

1. Glossy Black Cockatoo [Calyptorhynchus lathami] - Sch.2, this species was located just outside Compound 199 [AMG 450400 6821600]. Suitable habitat includes much of the steeper slopes and escarpment on the southern corner where Allocasuarina torulosa occurs in high density. A feeding site was located within compartment 286 with evidence of recent activity [AMG 443500 6825500, see attached report]. Like wise the sighting was in an area of high density Allocasuarina torulosa. The extent of the Allocasuarina in this compartment is complementary with the proposed Masked Owl feeding reserve. No nest hollows were located. Application of the Conservation Protocol and retention of known and potential feed trees and nest sites, located during this survey and / or the mark-up phase should assist this species.

- 2. Masked Owl [Tyto novaehollandiae] Sch.2, recorded on two occasions during the supplemental surveys [AMG 444800 6825400, and 444500 6825300]. An earlier report, dated 10 July 1997, was of a "Juvenile in nest? assumed begging calls" [AMG 443700 6825100]. Suitable habitat for this species exists throughout the survey area in the drier forest types with a more open understorey. A large area of forest habitat has been reserved as feeding territory for the Masked Owl.
- 3. Golden-tipped Bat [Kerivoula papuensis] Sch.2, This species was located within Compartment 196 [AMG 449400 6823600 and 449200 6824700]. Suitable habitat exists within rainforest, and wet sclerophyll forest with rainforest understorey, also wet and dry sclerophyll forests adjacent to rainforest. It has also been recorded in dry sclerophyll forest at distances from rainforest. Roost requirements are poorly known, but the species has been recorded roosting in dense clumps of vegetation, scrubwren and gerygone nests, and tree hollows. Retention of 40m wide buffer zones on both sides of streams for a distance of 200m upstream and 200m downstream closest to the record of the species should assist this species. These buffers should be mapped on Harvesting Plan Operational Map.

# PRE-HARVEST FLORA SURVEYS, YABBRA SF, CPTS 196, 199, 286

#### Methods

Traverse surveys were conducted in accordance with the Survey Protocol on 8-9 July 1997 and 9-10 March 1998. Data sheets for the earlier traverses have been supplied previously. Data sheets for the most recent traverses are attached. A summary of the combined traverse

NSW NORTHERN

#### Cpt 196

Approx. net harvest area: Total length of traverse routes: Traverse length per 200 ha: Total net duration of traverse survey: Survey duration per 200 ha:	124 ha 3.1 km 5.0 km hours hrs
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#### Cpt 199

Traverse length per 200 ha: Total net duration of traverse	215 ha 7.4 km 6.9 km hours hrs
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#### Cpt 286

Approx. net harvest area: Total length of traverse routes: Traverse length per 200 ha: Total net duration of traverse survey: Survey duration per 200 ha:	192 ha 8.0 km 8.3 km 14.0 hours 14.6 hrs
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#### General description

The net harvestable area of cpt 286 is open forest of mostly a mixture of E. propinqua, E. carnea, E. siderophloia, E. microcorys and Corymbia intermedia. Allocasuarina torulosa is usually common as a subcanopy. Understorey varies from grassy with scattered shrubs to dense shrubs. Abundant grasses are Themeda australis, Entolasia stricta, Cymbopogon refractus and Eremochloa bimaculata. The most abundant shrub is Pultenaea villosa, with patches of Lantana camara. Trochocarpa laurina is common on lower slopes and in other sheltered microhabitats. Backhousla myrtifolia and Lophostemon confertus are dominant in narrow strips along more deeply incised gullies.

### Threatened flora species and other significant flora features

### Tylophora woollsii (TSC Schedule 1)

A substantial population (about 200 mature plants plus many juvenile plants) of what is probably this species was located in cpt 286. As no plants were seen in flower, it is not possible to be certain that it is this species. It may be the closely similar, but much more widespread Tylophora paniculata, However, based on subtle vegetative differences, I believe it is sufficiently likely to be T. woolls!! that it should be managed as such. Plants were found to be strictly confined to creek banks, slopes close to gullies (usually within 10 m) and steep, rocky slopes elsewhere, usually at the edge of stands of Backhousla myrtifolia. The known extent of the population is shown on the attached map. This compartment was searched more extensively than usual because of the presence of this species, but it was not found outside

these habitats. I am confident that the mapped extent includes the main population in the net harvest area plus 50m buffer, but there may be additional stands on the steep eastern and southern slopes outside the net harvest area and there may be a few scattered plants elsewhere on stream banks. Plants which could be confidently identified as Tylophora particulata were more widespread in the compartment and occurred mostly in habitats not occupied by T. woollsii.

The most effective way to satisfy Conservation Protocol requirements for T. woollsii in cpt 286 is to ensure that streamside exclusion zones adequately protect the westerly population (the easterly stand is on a very steep scree slope which is not subject to harvesting). This could be achieved by a minimum 30 m exclusion zone either side of the first order stream in this mapped population, plus extending the buffer on second and third order parts of this stream by 30 m either side (allowing for the generally steeper slopes on higher order parts of this stream, where the species may occur up to 30 m from the stream bank). Any scattered additional plants (which may have been overlooked during survey) along this stream outside the mapped population are most likely to be included in standard streamside exclusions. This would ensure that all plants were excluded from harvesting with a minimum buffer of 20 m, and avoid the need to locate all individuals for application of exclusion and modified

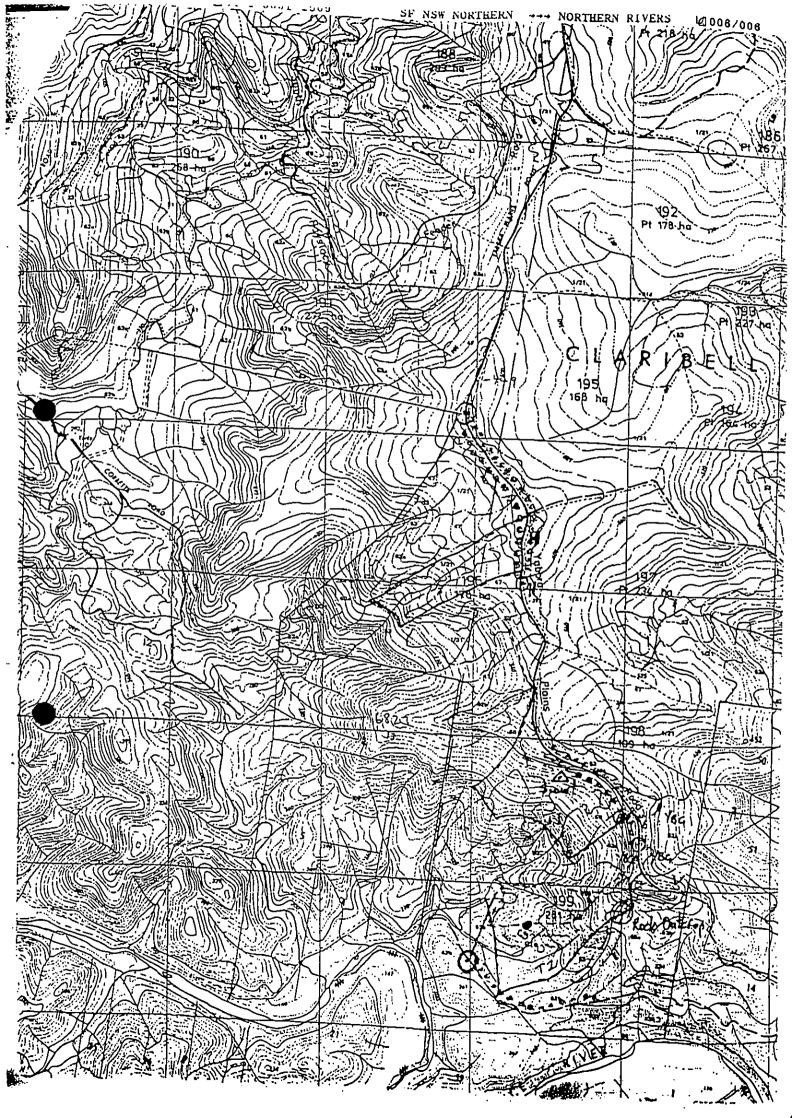
#### Plectranthus species

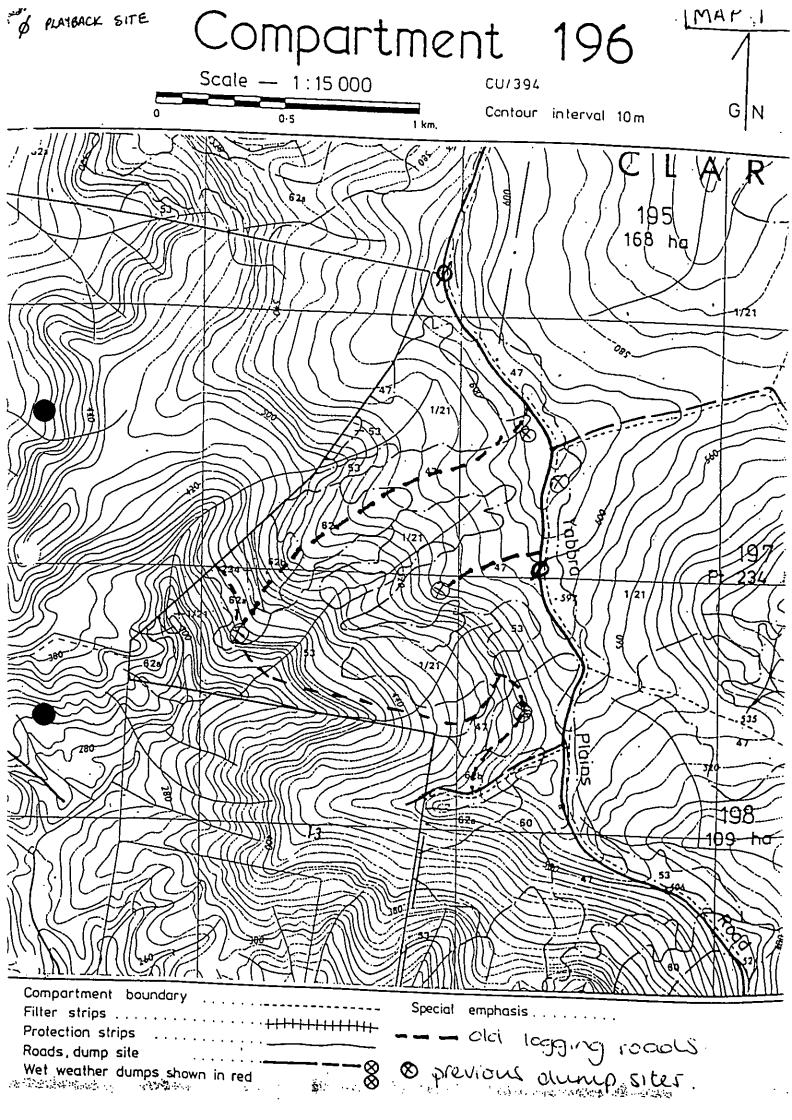
A possibly significant species of *Plectranthus*, related to *P. suaveolens*, occurs in cpt 286, confined to rocky slopes and rock outcrops near creeks. This genus is currently under revision, with several undescribed species being recognised, and it is not possible to adequately assess the significance of the these taxa until the review is more advanced. The population in cpt 286 is included within the exclusion zone for *Tylophora woollsii* suggested above.

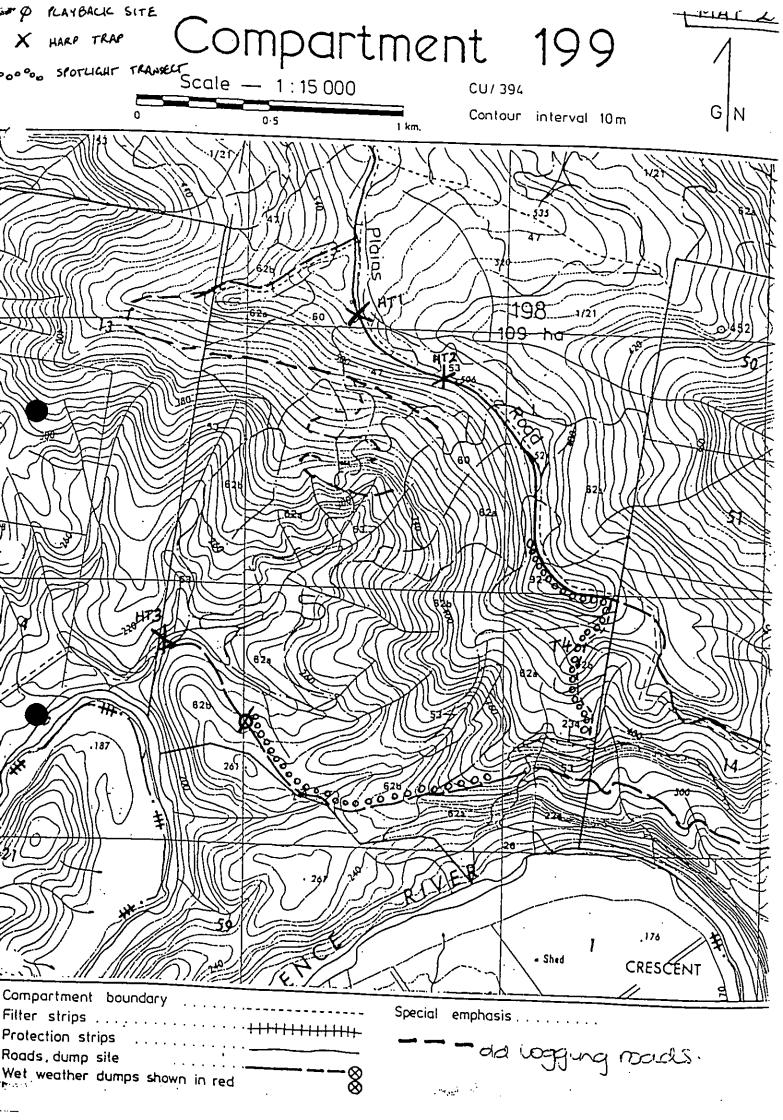
### Cynanchum elegans (TSC Schedule 1)

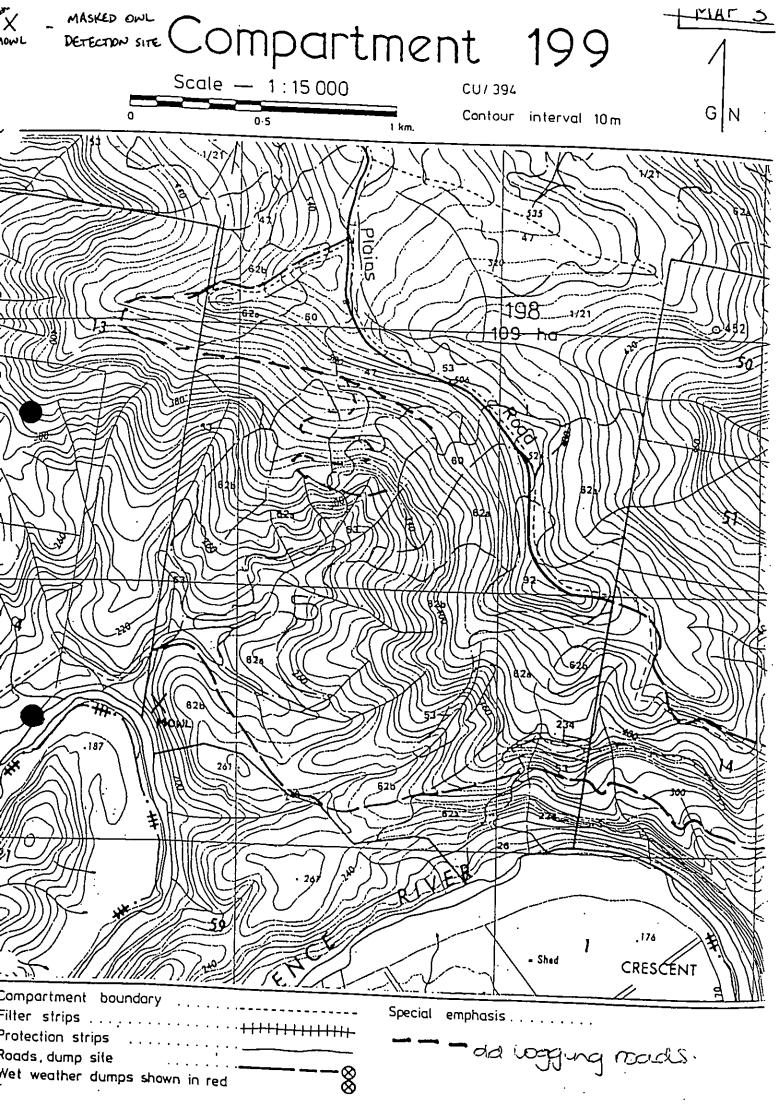
A single small stand occupying less than 50 m<sup>2</sup> was located in cpt 199 (shown on the attached map). About 12 main stems were present, but it is likely that these represent fewer separate individuals. It could even be a single individual with multiple root suckers, as has been observed elsewhere. Under the provision of the Conservation Protocol, this species requires a 10 m harvesting exclusion plus 10 m modified harvesting (<50% removal) perimeter zone. The stand has been flagged with double pink tape. The occurrence of this species in open forest on a ridge crest is unusual. It is most likely an outlier of a main population elsewhere in the vicinity, in a more typical habitat (rainforest margins). As the substantial population, it is likely that any such population is outside the compartment.

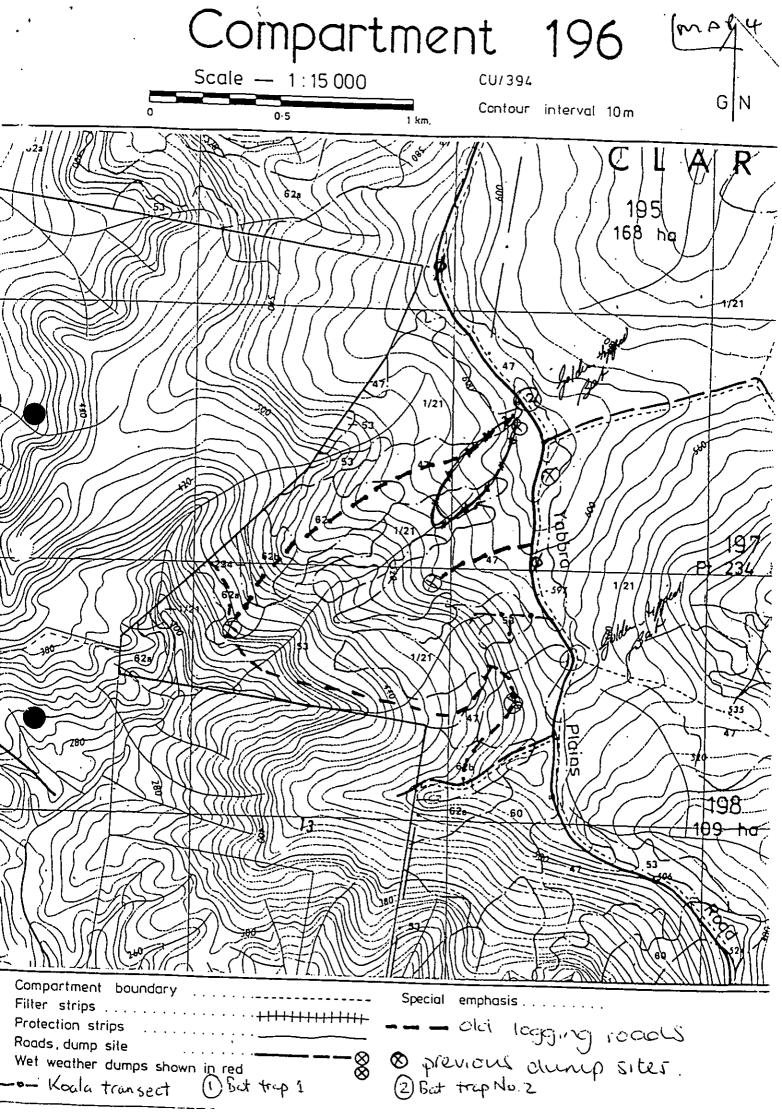
Doug Binns Flora Ecologist 11 March 1998

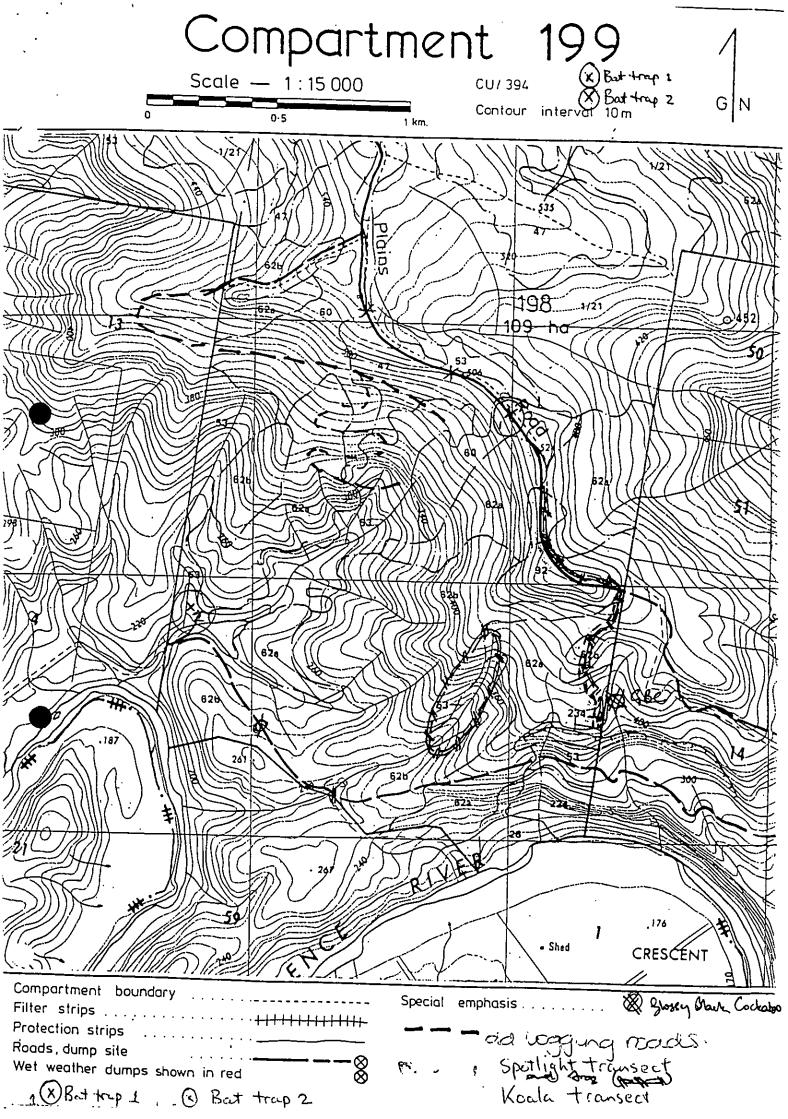














# CALL PLAYBACK - NORTHERN RIVERS REGION

STATE FOREST YABBRA			M.A. URBENVIL	CF.	COMPT. 196			
OBSE	RVER(S		we1	•		DATE FROM 12/3/98 REGION NRR		
SURV	EY NAM					Part of Spotlight Transec		Specify
DETE	CTION	METHOD(S)	Xarboreal	mammals		☐ diurnal birds		O other
			Xnocturna	al birds				
Specie	es Targe	ted	POWL	MOWL	_ YB(	MFRO	Calls Played	
	CENSUS 1 Start Time: \$:30 p~				ρ~	Finish Time: 8:15	ρ	Total Travel Time 0 45
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1		AT TYPE	Rainforest			Sclerophyll		Woodland
(1 only	()		Subtropica	10		Wet Sclerophyll 🔀	•	Shrub Woodland 🗆
			Dry	ο .		Dry Sclerophyll 🛛		Heath Woodland
		*************************	Temperate	0		Swamp Sclerophyll 🛚		Tall Woodland □
·		E NUMBER(S)	<u>,</u>			47		
LOCA	TION DE	SCRIPTION	۳. ۱	END	CPT	196 , AS FOR	Z . PREVIO	DUS SURVEY (7/97)
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Wind (	1 only fo	r all)	≫calm	7			☐ moderate -	moves branches
Rain			☐ light - lea					pedes progress
Nami			☐ rain duri: ☐ evidence		last 24 hr	e e	× no evidend	e of rain in the last 24 hrs
Night I	ight	<del></del>	□ very darl			<u> </u>	✓ detail seen	- moon and clear sky
		<del></del>		arter moor	or moon	with heavy cloud		If moon or more and no cloud
OBSE		ON DETAIL	<u>s</u>	OBS.	COUNT	RESPONSE (ESTIMATE)		NOTEO
אאני		OI COES			COUNT	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>144441444444</b>	NOTES (appearance, sex, note if count an estimate, AMG of S1 or S2)
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PAG	E_	of _	. SKETO	CH MAP	OVER	LEAF? YES /(NO	)	

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אלובו	NO.	SPECIES .	TYPE	COUNT	RESPONSE (ESTIMA DISTANCE	BEARING	NOTES (appearance, sex, note if count an estimate)		
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### CALL PLAYBACK - NORTHERN RIVERS REGION

STATE FOREST YASBRA						MA JOSEPH CONTRACT					
	RVER(S)					M.A. URGENVILL DATE FROM 12/3		COMPT. 196			
		K.MC	CRAY			DATE FROM 12/3 DATE TO 12/3		REGION MRR CODE 461			
	Y NAMI					Part of Spotlight Transe		specify			
DETEC	CTION M	ETHOD(S)	⊠arboreal	mammals		☐ diurnal birds	-	□ other			
			noctuma	birds		_					
Specie	s Target	ed				<u> </u>	1 2 11 21				
CENSI		· · · · · · · · · · · · · · · · · · ·	POWL A				Calls Played				
	5) - AMG		Start Time: Easting				<u>15</u>	Total Travel Time 0.45			
COODDINATES						<u> </u>	Site	Easting			
BROAD HABITAT TYPE Rainforest							Zone	Northing			
(4 only):						Sclerophyll		Woodland			
Subitopical Li						X	Shrub Woodland 🔲				
			Dry			Dry Sclerophyll [	ם	Heath Woodland 🔲			
Temperate □						Swamp Sclerophyll [		Tall Woodland			
		NUMBER(S)				47					
LOCAT	LOCATION DESCRIPTION YABBRA PLAINS RD , 1 KM S OF N. END CPT 196, AS.										
						SURVEY (7		SITE			
WEAT	HER	***************************************	Temperatur	e19.5/	7. 60,		/!	Time 8:20 am /6m).			
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			☐ light - lea	ves rustle				pedes progress			
Rain											
□ evidence of rain in last 24 hrs											
Night fi	Night light □ very dark - no moon+cloud □ dark - quarter moon or moon with heavy cloud □ bright - half moon or more and no cloud										
ABCE	DVATI	ON DETAIL		arter moon	or moon	with heavy cloud	□ bright - ha	If moon or more and no cloud			
DATE		SPECIES	<u>ა</u>	OBS.	COUNT	RESPONSE (ESTIMATE	<del>-</del>	NOTES			
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12/3/98		SOUTHERN		Н		50 (+/-)	315°	CALLING ON ARRIVAL			
707 18		8008	2014		<u> </u>	30 (1)					
lt .		GREATER		S	1 1	20 (+1-)	135°	SPOTLIGHTED AFTER			
			LIDER		<u>'</u>	20	190	PLAYBACK			
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PAGE \_\_\_\_\_ of \_\_\_\_\_. SKETCH MAP OVERLEAF? YES / NO



	RVER		***		· · · · · · · · · · · · · · · · · · ·	DATE	
DALE	SITE	ON DETAILS SPECIES	OBS.	COUNT	RESPONSE (ESTIMAT	'C1	NOTES
			TYPE	COUNT	DISTANCE	BEARING	NOTES (appearance, sex, note if count an estimate)
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NORTH TOP J	i	NCLUDE DRAINAGE, ROADS	S AND TRAC	KS, DISTA	NCES, BEARINGS)		

PAGE \_\_\_\_ OF \_\_\_\_



### SPOTLIGHT TRANSECT - NORTHERN RIVERS REGION

STATE FOREST YAB	M.A. URBENVILLE				COMPT. 199			
OBSERVER(S) M. CRO		DATE FROM	12]3	198		REGION NRR		
K. Mc	CRAY	DATE TO	13/3/	98		CODE 461		
SURVEY NAME		NUMBER OF	NUMBER OF TRANSECTS 1 TRANSECT - 2 NIGHTS SURVEY					
DETECTION METHOD(S)	X vehicular transect				ect No(s	s) <u>2</u>		
		Transect No(s)						
BROAD HABITAT TYPE	Rainforest	Sclerophyll		<del></del>		Woodland		
	☐ Subtropical	☐ Wet Sclero				☐ Shrub Woodland		
	☐ Dry ☐ Temperate	Dry Sclerop				☐ Heath Woodland		
FOREST TYPE NUMBER(S)	☐ Swamp Scl	**********			☐ Tall Woodland			
	Location Description 10	92 *	62					
CENSUS 1 - TRANSECT 1	5. SE	<i>≻۰۵</i> ۲	CPT	- 19	9 - FROM RIDGE IN			
Total Distance 1100 ~	F.T. 9	Z PAST	GATE	ALO	<u> ۲۲ </u>	E B/MRY		
Species Targeted	<del>, , , , , , , , , , , , , , , , , , , </del>							
TIME	Start Time 10:00 p	Finish Time	11:)	00		Total Travel Time 1:10 p		
AMG Start	Easting			Finish	1	Easting		
COORDINATES	Northing	***************************************	*************			Northing		
WEATHER `	Temperature 19.5/17.5°C	Relative Hum	dity	82%		Time 8.20 am / (pm)		
Wind	Calm ☐ light - leaves rustle	<u> </u>		□ mo		moves branches		
Rain	☐ rain during survey	<del></del>				pedes progress e of rain in the last 24 hrs		
	evidence of rain in last 24 hr	<u>s</u>		_				
Night light	and the firm and a second		ズ det	ail seen	- moon and clear sky			
CENSUS 2- TRANSECT 2	with heavy clou	-	⊔ bng	gnt - nai	f moon or more and no cloud			
Total Distance 1100 ~	Location Description	AS ABOVE	£		******************************			
Species Targeted	<u> </u>							
TIME	Start Time 10:10 a	Finish Time						
AMG Start	10 10 μ	rinish time	11:10			Total Travel Time 1.00		
Otan	Easting	*************************	•••••	Finish	1	Easting		
COORDINATES	Northing					Northing		
WEATHER		Relative Humi	dity	(6	%	Time 9,00 am / (pm)		
Wind	⊠calm □ light - leaves rustle	-		□ mo	derate -	moves branches		
Rain	☐ rain during survey					pedes progress e of rain in the last 24 hrs		
	evidence of rain in last 24 hr	s		)SQ (100	CHICKIO	5 51 Tan I II I II I I I I I I I I I I I I I I		
Night light	very dark - no moon+cloud	<u> </u>		X det	ail seen	- moon and clear sky		
OBCERVATIONS	O dark - quarter moon or moon	with heavy clou	ıd			f moon or more and no cloud		
OBSERVATIONS DIST. TRANS SPECIES	<del></del>			NOT I				
NO.	-	OBS. TYPE	e fi	DIST. rom rrans	Count	NOTES (AMGs for S1&S2 spp, note if count is an estimate)		
550. 1 GREATE	e GLIDER	S	7	2.5~	1	IN GRES GUM 25m UP R.H.S		
600 m 1 GREATE	R GLIDER	S		15~	1	IN SPOTTED GIM ID_UP		

PAGE 1 of 2 . SKETCH MAP OVERLEAF? YES / NO

OBSE	RVER(S	)	<u></u>		DATE	
	RVATIO				<u>'                                    </u>	
DIST	TRANS. NO.	SPECIES	OBS. TYPE	DIST. from TRANS	Count	NOTES (AMGs for S1&S2 spp)
850~	1_	GREATER LLIDER	S	10~		IN SPOTTED GUM ION UP
!	_		<del></del>			
700 <sub>~</sub>	2	GREY-HEADED	S	<u> </u>		
<u>850~</u>	2	GREATER GLIDER	S	15m	2	IN SPOTTED GUM
			-	<u> </u>		
			· _			<u> </u>
			_			
			<u> </u>	<u> </u>		
<del></del>		· · · · · · · · · · · · · · · · · · ·				
NORTH	II MAP (INC	LUDE DRAINAGE, ROADS AND TRACKS, DISTANCES,	L , BEARINGS)	<u> </u>	<u> </u>	
[TOP]	•					·
			-			



# CALL PLAYBACK - NORTHERN RIVERS REGION

STATE FOREST YA 66RA					M.A. URBEN	VILL	E.	сомрт. 199			
	1. crow				DATE FROM 1	3/3/	99	REGION NRR			
SURVEY NAME	K. McCe	<u> </u>			Part of Spotlight 1	3/3/		CODE 461			
DETECTION METHO	D(S) s	≰ arboreal r	nommole			specify					
DE LEGITOR METTO					☐ diumal birds			□ other			
0 1 7 1	,	nocturnal	birds								
Species Targeted							Calls Played				
CENSUS 1	& ∙૦€	<u> </u>	Finish Time:	9:0	0	Total Travel Time 1:	00				
SITE(S) - AMG Si	449	00	0		Site	Easting					
COORDINATES Zone Northing 68 21 40  BROAD HABITAT TYPE Rainforest							Zone	Northing			
/4 a=1.3					Sclerophyll			Woodland			
Oub(topiodi 🕁					Wet Sclerophyll	X	,	Shrub Woodland			
Dry 🗆					Dry Sclerophyll			Heath Woodland	-		
Temperate □ FOREST TYPE NUMBER(S)					Swamp Scleroph	yll 🗆		Tall Woodland			
LOCATION DESCRI	<del>`'</del>	~~~			4	<u> </u>		C TRPE) AS	ROK		
EGOXHON BEGORA	HON				BRY (		BLE PIN	K TAPE) PS	7-26/-		
WEATHER		Temperatur	00 <u>5</u>	>UR.	Relative Humidity	}	//*/	Time 9:00 am l			
Wind (1 only for all)		Kcalm	20.3	<i>S</i> C	Telative Humbling	,		Time 9:00 am (	(pin)		
	,	⊒ light - lea	ves rustle					pedes progress			
Rain		ain durin	-					e of rain in the last 24 hrs	•		
Night light		evidence			S		arte de Lettere				
raight light		D very dark D dark - qua			with heavy cloud			<ul> <li>moon and clear sky</li> <li>f moon or more and no cloud</li> </ul>	,		
OBSERVATION I							D Dright Ho	THIS IT OF THIS IS AND CLOSE			
	CIES		OBS.	COUNT	RESPONSE (ESTI	MATE)		NOTES (appearance, sex,	note if count		
NO.			TYPE		DISTANCE	······	BEARING	an estimate, AMG of S1 or S2)			
					<del></del>	<del></del>	-	RESPONSE TO F	1255		
B34 M	ISKED (	2MF	H		300 (+/-) 5	0m	280°	CALL	_		
4 М	asked	OWLi	Н	1	150 (+1-) 50	0.	6°	FIVE MINUTES FIRST RE	AFTER ESPONSE		
~ \\	NICHTU		Н	١	500 (+/-)		300°				
n DA	TE THE		14	-	200(+/-)		80°		•		
					(+/-)						
					(+/-)	***************************************					
					(+/-)						
					(+/-)	1					
					(+/-)			,			
					(+/-)						
	-				(+/-)						

PAGE \_\_\_\_ of \_\_\_\_\_. SKETCH MAP OVERLEAF? YES / NO

	RVER				· · · · · · · · · · · · · · · · · · ·	DATE	
DATE	SITE	ON DETAILS SPECIES	OBS.	COUNT	RESPONSE (ESTI	MATE	NOTEC (a-c-
	NO.	5, 25,25	TYPE		DISTANCE		NOTES (appearance, sex, note if coun an estimate)
	<u>.                                    </u>				(+/-)		
					(+/-)		
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	<u> </u>				(+/-)		
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					(+/-)		
SKETC NORTH ! TOP J	ľ	NCLUDE DRAINAGE, ROAI	OS AND TRAC	KS, DISTA	NCES, BEARINGS)		

PAGE	OF
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### SPOTLIGHT TRANSECT - NORTHERN RIVERS REGION

STATE FOREST - TABBR	M.A.	URBENVI	LIE		COMPT. 199		
OBSERVER(S) M. CRO				13)98		REGION NRR	
K.MCC	CRAY	DATE	<u>10</u> 13	13/18		CODE 461	
SURVEY NAME		NUMB	ER OF TRAN	SECTS			
DETECTION METHOD(S)	Vehicular transect			Trar	sect No(	5)	,
	☐ foot transect			Tran	sect No(	s)	
	Rainforest	Sclero	hyll			Woodland	
	□ Subtropical	□ Wet	Sclerophyll	****************	*************	☐ Shrub Woodland	•••••
•	□ Dry		Sclerophyll			☐ Heath Woodland	
	☐ Temperate	□ Swa	mp Sclerophy	/		☐ Tall Woodland	
FOREST TYPE NUMBER(S)		6	2			***************************************	***************************************
	Location Description ムロム	ER_	PORTION	96	CPT	199 ON UNNAME	
Total Distance	TRAIL - AS FO					17/7/97 (BOTTOM NE	ae \
Species Targeted	· · · · · · · · · · · · · · · · · · ·				<u> </u>	Souriem	B/PLY)
TIME	Start Time 9:00	Finish	Time 10	::00		Total Travel Time 1:00	<u> </u>
AMG Start	Easting 4 49 00	<del></del>		Finis	h	Easting 4 49 800	
COORDINATES	Northing 68 21 40	***********	******************************			Northing 68 21 20	
WEATHER	Temperature 20.5°c		e Humidity	66	/	Time 9:00 am / pm	
· · · · · · · · · · · · · · · · · · ·	<b>⊗</b> calm	··-				moves branches	<del></del>
	☐ light - leaves rustle					pedes progress	
	<ul> <li>□ rain during survey</li> <li>□ evidence of rain in last 24 hrs</li> </ul>	:		<b>⊠</b> no	evidenc	e of rain in the last 24 hrs	
<del></del>	☐ very dark - no moon+cloud		·	`X∕ de	etail seen	- moon and clear sky	
	dark - quarter moon or moon	with hea	vy cloud			f moon or more and no cloud	
CENSUS 2- TRANSECT 2	Location Description						
Total Distance		***********		••••••	•••••••		
Species Targeted	·						
TIME	Start Time	Finish 1	Time	<del></del>		Total Travel Time	
AMG Start	Easting			Finis	h	Easting	
COORDINATES	Northing	***********	***************************************			Northing	************
WEATHER	Temperature	Relativ	e Humidity	;		Time am / pm	<del></del>
Wind	: □ calm				oderate -	moves branches	
	☐ light - leaves rustle			□st	rong - imj	pedes progress	
	□ rain during survey □ evidence of rain in last 24 hrs				evidenc	e of rain in the last 24 hrs	
	□ very dark - no moon+cloud		<del></del>	□de	tail seen	- moon and clear sky	
	☐ dark - quarter moon or moon	with hea	vy cloud			f moon or more and no cloud	
OBSERVATIONS							
DIST. TRANS. SPECIES NO.			OBS. TYPE	DIST. from TRANS	Count	NOTES (AMGs for S1&S2 spp, r count is an estimate)	note if
O M. fa	sciolatus eronii		5+C	0	1	CAPTURED - ID	
900. L. P.	eraii	_	Sic	0		CAPTURED - 1D	

PAGE \_\_\_ of \_\_\_\_ . SKETCH MAP OVERLEAF? YES / NO

OBSERVE		·	DATE 13/3/98			
OBSERVAT	TIONS				7010110	
DIST. TRAI		OBS. TYPE	DIST. from TRANS	Count	NOTES (AMGs for S1&S2 spp)	
900	WHITE THROATED NIGHTJAR	. H	50~	1	LEFT H.S.	
900	GREATER GLIDER	S	5.		20m up in stotted	
			<u> </u>	-		
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		<u> </u>				
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	(INCLUDE DRAINAGE, ROADS AND TRACKS, DISTANCES,	BEARINGS)				
NORTH [TOP]						



STATE FO	STATE FOREST YABBLA				M.A.	ULBEN	W\		С	OMPT.	199		
OBSERVE	R(S) M. CRO	weem		1		FROM	12/3/99	₹			NRR		
SURVEY	L IC. MC	cray			DATE		4/3/ 99		_ <u>c</u>	ODE (	H61		
	ON METHOD(S)				-	F CENSUS	NIGHT	S ——	1 (mo	KO TO B	GETER SITES)		
DETECTION	DA METHOD(S)	Xharp trap			☐ trip lines ☐ observed								
		☐ bat sonar	<del></del> _		☐ mist net ☐ other								
AMG	Losung					SPECIES TARGETED							
COORDIN		Northing				_		_					
BROAD H	ABITAT TYPE	Rainforest			Sclerop		**************			odiand			
	☐ Subtropical ☐ Dry					Sclerophy Sclerophyl				hrub Woodlar eath Woodlar			
		☐ Temperate				mp Sclero			•	eam woodlard all Woodland	10		
FOREST 1	YPE NUMBER(S)		***************************************			17		********			•••••••••••		
LOCATION	NDESCRIPTION	3∞ m s	S CPT	199			J 61 4	- IA	4 - Oi				
		SITE	****************	***************************************	••••	···/····-4	······································		·1	Lancia (P)	VEQ		
WEATHER	R (census = 1 night)		Census 1	Censu	s 2 (	Census 3	Censu	s 4	Census 5	Census 6	Census 7		
Date			12/3/98	13]3]	98	<del></del>							
Temperatu	re		195°						-		<u> </u>		
Relative H	82%	66		_	<del></del>			<del></del>	-				
Time Meas	8:20p	:			-								
Wind ((1) calm (2) light (3) moderate (4) strong]			(	1			:		*	<del>                                     </del>			
Rain [(1) during survey (2) evidence of in last 24 hrs (3) no evidence of in last 24 hrs)			3	· 3					~				
	((1) very dark (2) dark (4) bright)	(3) detail seen	3	3			<u> </u>						
	E / SAMPLE DE	TAILS					<del></del>	<del></del>		<u>:</u>	<u>;                                    </u>		
DATE	SPECIES			Sex	Weigl (gms)		Field No.	Cor	mpulsory no	les (age, bree	eding, appearance)		
13/3/98	R. megap	عدااريما		F	10.7.	5 49.3							
17	V			Μ	4.75	30.2							
4	V.			~	3.75	30.7							
tı	<b>V</b> .			۴	4.5	30.4					·		
		<u> </u>											
		- , <u>, , , , , , , , , , , , , , , , , ,</u>			<u> </u>	<del>                                     </del>			~				
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PAGE of SKETCH MAP OVERLEAF? YES /	/ NC
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SAMPLE DETAILS PECIES						<u> </u>
PECIES						
		Sex	Weight (gms)	F-arm Length	Field No.	Compulsory notes (age, breeding, appearance)
					_110.	
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	ATE FOREST YABBRA					UKBEN	W166	<u> </u>		OMPT.	199
OBSERVE	, , ,	CROWLEY			DATE	ROM	12/3/	8	F	EGION	NKR
SURVEY	MAME	MCCRAY			DATE 1		4/3/9			ODE	461
	ON METHOD(S)	1 1-/	<u>_</u> -			CENSUS	NIGHTS	<u> </u>	2		
02120110	314 III E 1110D(3)	harp trap			☐ trip lia	nes			C	observed	
	<del></del>	☐ bat sonar			□ mist ı					] other	······································
AMG		Easting	***************		SPECIE	S TARGE	TED		-		-
COORDIN		Northing									
BROAD H	ABITAT TYPE	Rainforest	•••••		Sclerop	*************	····		**************	odland	
Ì		☐ Subtropical ☐ Dry				Scierophyl Iclerophyll				Shrub Woodl	
		☐ Temperate		•	-	np Scleror			•	leath Woodla all Woodlan	
FOREST 1	YPE NUMBER(S)	÷	*****************		*******	بر بر		•••••••		an woodian	
LOCATION	DESCRIPTION	800~ 3	CPT	199				LLA		~~~~	+ LIVE WATTLE
		SITE 2					ź	w.::\:	<del></del>		KICTING MATTICE
WEATHER	R (census = 1 night)		Census 1	Censu	s 2 C	ensus 3	Censu	34	Census 5		Census 7
Date	·		12/3/98	13/3/	98	_	<u>.                                    </u>	-			
Temperatu	re		19.5°c					Ť		<del>                                      </del>	-
Relative H	umidity		82.%	66,			-	Ť		<u> </u>	
Time Meas	surements Taken		8:20 p	9,00				Ŧ		<u> </u>	
Wind ((1) ca	alm (2) light (3) mode	rate (4) strong)	1	1	7	-		-	<u></u>		
Rain ((1) du hrs (	iring survey (2) eviden 3) no evidence of in la	nce of in last 24 est 24 hrs)	3	3		-					
	[(1) very dark (2) dark (4) bright]	(3) detail seen	3	3				Ì	1		
	E / SAMPLE DE	TAILS							<u> </u>	<del></del>	<del></del>
DATE	SPECIES			Sex	Weigh (gms)	t F-arm Length	Field No.	Com	npulsory no	otes (age, bre	eeding, appearance)
13/3/98	R. megap	hyllus		F	9.75	48.4		7	J.L .		
1.1	К. теарр V. sp.		ı	F	4.25	31.8		^	J. L.		, <u>,                                   </u>
11	S. orio			Μ	10.0	36.3					
11	V. sp.			F	4.25	315		^	١ ر		
ŋ	N. gould	, ; , i		Μ	8.0	40.4					
14/3/98	NIL CAP	TURES								•	
<u> </u>		<u> </u>									

PAGE \_\_\_\_\_ of \_\_\_\_\_. SKETCH MAP OVERLEAF? YES / NO

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ng, appearance
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14.7
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STATE FOREST YA	BBRA	<del></del>	Ī	M.A.		10860	ツルし		<del></del>	COMPT.	199
OBSERVER(S) M. C	ROWLEY			DAT	E FF		3/3/9				JRR
SURVEY NAME	CCRAY			DAT			14/3/9	8		•	+61
DETECTION METHOD(S)	1.7	<del>_</del>	_	NQ.	OF (	CENSUS	NIGHT	s			
DETECTION METHOD(S)	X harp trap			□ trip	o line	es			[	observed	· · · · · · · · · · · · · · · · · · ·
4110	☐ bat sonar			O mi			_		[	☐ other	***************************************
AMG	Easting	••••		SPE	CIES	STARGE	TED				
COORDINATES	Northing										
BROAD HABITAT TYPE	Rainforest	•••••••••	······································	Scler					**********	odland	
	☐ Subtropical ☐ Dry					clerophyl lerophyll			•	Shrub Woodla	
	☐ Temperate					p Scieror				Heath Woodla Fall Woodland	
FOREST TYPE NUMBER(S)	***************************************	***************************************	•••••••••••••••••••••••••••••••••••••••	**********		3		*******		an moodall	***************************************
LOCATION DESCRIPTION	IN GUL	LY AP	PROX	. (	+0		rstre	<u>~</u>	FROM	ROAD	CROSSING
	SITE 3			********	*******	**************			***************************************		42055794
WEATHER (census = 1 night)		Census 1	Censu	JS 2	Се	nsus 3	Censu	s 4	Census 5	Census 6	Census 7
Date		13 3 98	11						_		
Temperature		20·5°C				·					
Relative Humidity		66%					:				
Time Measurements Taken		9:000						i			
Wind ((1) calm (2) light (3) mode		1					•				
Rain [(1) during survey (2) evider hrs (3) no evidence of in la	nce of in last 24 ast 24 hrs]	3				_			<del></del>		
Night light [(1) very dark (2) dark (4) bright]		3									
CAPTURE / SAMPLE DE	TAILS									<u> </u>	<u>:-</u>
DATE SPECIES			Sex	We (gr		F-arm Length	Field No.	Cor	mpulsory no	otes (age, bre	eding, appearance)
14/3/98 Y. sp. (8	PROBABLE PUMI	LUS)	۴	4.	25	32 0.		7	١.٤.		
и V. sp. (	PROBABLE PUMI	LUS)	۴	3.7	5	3o.8 ୁ		٨	١. ١.		
11 V. Pumilus			٤	3.7	5	30.7 _					
11 V. Pumilus			2	3 2	s	29.6-					
" R. negap	hyllus		ال	9.5	0	485		2	٠. ١		
" C morio	<u> </u>		2	8.7	5	39.7					
									<u> </u>	<del></del> .	
					_						
		-		1					<del></del>		

PAGE \_ of \_ SKETCH MAP OVERLEAF? YES (NO) SHOWN ON EFFORT MAP

OBSERV	ER(S)					DATE
CAPTUR	E / SAMPLE DETAILS SPECIES		·-··			
DATE	SPECIES	Sex	Weight (ams)	F-arm Length	Field	Compulsory notes (age, breeding, appearance)
	-	_	(8119)	Longui	No.	
			].			
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	AP (INCLUDE DRAINAGE, ROADS AND TRACKS, DI	STANCES	S, BEARIN	IGS)		
NORTH [TOP]						
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265 W-273m

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TRAVERSE SURVEY / KOALA TRANSECT - NORTHERN RVS REGION 1650 NO. 83 -155 - 83 STATE FOREST MA WESONILLE Yndbra SF COMPT 196 KOALA SURVEY OBSERVER(S) Jim Reside DATE FROM 20 3 48 REGION NRR 5 TREES PER 50 M 1KM PER 100HA Jenni Reside DATE TO 20.3.98 CODE 461 TRAVEL TIME 140 START TIME START **EASTING** START **EASTING** 44 8400 SURVEY NAME NORTHING NORTHING 6825 A00 THREATENED FLORA OBSERVATIONS TREE **DBH** SCATS or SPECIES SEARCHED FOR **SPECIES OTHER** approx KOROL 40 Circ. 30 TRANSECT **FLORA** NUMBER: AREA SITE DESCRIPTION MAP/AMG 36 DISTANCE **SPECIES** SIZE & SITE DISTURBANCE (?) NOTED? 50 90 7 i20 8 90 9 10 100 M مسح 11 12 40 13 <u>60</u> REATENED FAUNA - SIGHTING OR FEATURE# Box (du 90 TRANSECT SPECIES OR FEATURE NUMBER SITE DESCRIPTION MAP/AMG 15 35 DISTANCE TYPE (MICROHABITAT) NOTED? 16 100 17 40 1. - ey 120 19 40 80 200 M 40 150 40 24 100 30 26 40 27 70 28 80 40 30 300 M 31 70 32 20 #THREATENED SPECIES FEATURES 33 Box 1. he 80 • BIRD SPP BIRD SPP 34 150 • TIGER QUOLL LATRINE AND DEN SITES CAVES, TUNNELS & DISUSED MINES 35 • NESTS, DENS & ROOSTS OF LARGE BIRDS, . DISTINCTIVE SCATS (TIQU, KOAL, & 36 22 (RAPTORS & OWLS) BATS, & HOLLOW BRUSH-TAILED ROCK WALLABY) 37 20 DEPENDENT SPECIES PERMANENT SOAKS AND SEEPAGES 38 120 • GLOSSY BLACK COCKATOO, ALBERTS YEBG 'V-NOTCH' TREES 39 00 LYREBIRD & BUSH THICK-KNEE NESTS 40 OWL PELLETS (& WHITE WASH) 400 M GENERAL COMMENTS\* & \*RECORD FEATURES: EG. UNMAPPED CHANGE IN STRATA 41 ARCHAEOLOGICAL ARTEFACTS OR FOREST TYPE, ROCKY OUTCROPS ETC 42 TRANSECT OBSERVATION OF ..... MAP/AMG 43 DISTANCE NOTED? 44 45 Only 40 on of transect completed. Habitat not suitable - ie rainforest 46 47 48 49 50

500 M

TRAVERS	SE SURVE	EY (CONTIN	IUED) NO	)		KOALA SURVEY (CONTINUED)						
OBSERVER(S				DATE		<del></del>		5 TREES PER 50 M 1KM PER 100HA				
THREATENED	FLORA -OB	SERVATION	NS			<u></u>			<u> </u>	1		
SPECIES SEAR		·	,	l					TREE	DBH	SCATS or	
TRANSECT	FLORA	<u> </u>	NUMBÉR	AREA	SITE DESCI	RIPTION	MAP/AMG	51	SPECIES	(approx)	OTHER	
DISTANCE	SPECIES			SIZE	& SITE DISTUR	RBANCE (?)	NOTED?	52		<del>                                     </del>	<u></u> :	
			_					53		_		
_		- <u></u>						54				
								55		<u> </u>	550 M	
		<u> </u>						56				
								57			<del>-</del> -	
	<del> </del>	<del></del> .	-		<u> </u>		<del></del>	58				
	]						•	59				
	<del></del>	<del></del>			<u>:</u>		<del>! -</del>	60		<u> </u>	600 M	
								61		<u> </u>	<del></del>	
				_				63		<u> </u>	<del> </del>	
}								64		<u> </u>		
-							<del>                                     </del>	65		<del> -</del>		
								66		<u> </u>		
TEATENE	D FAUNA - SIG	SHTING OR FE	ATURE#			····	<del></del>	67		<del> </del>		
DISTÂNCE	SPECIES/FEA			SITE (MIC	ROHABITAT)	. N	AP/AMG?	68				
								69		<del> </del>		
								70		<del> </del>	700 M	
							<del></del>	71			700 M	
								72				
					· ·			73		<del></del>		
								74				
·								75				
	<u> </u>		-		<u></u> .			76				
		•	•					77				
	<u></u>							78				
	<u> </u>							79				
	<u> </u>	<u> </u>			<u>-</u>		<del></del>	80			800 M	
	•							81 82		<u> </u>		
-					<del>-</del>	<del>-  -</del>		83				
								84		<del>                                      </del>		
C RAL CON	MMENTS* & AF	RCHAEOLOGI	CAL ARTEE	ACTS				85		<del> </del> -		
					EST TYPE, ROCKY	OUTCROPS	FTC	86		<u> </u>		
TRANSECT	OBSERVATIO	N OF					MAP/AMG	87				
DISTANCE						:	NOTED?	88		<del> </del>		
								89		<del></del> -		
				•		_		90		<del></del>	900 M	
								91				
								92				
								93				
					<del> </del>			94				
	•					į		95				
<del></del>	<u> </u>				<u> </u>	- !		96		<u> </u>		
						į		97 98		<u> </u>		
<del></del>	<del> </del> -				<del></del>			98		<del> </del>		
								100		<del> </del> _		
	<del>`</del>								<u>:</u>	<u> </u>	1000 M	
LAST SHEET	(E) ME	TRAVERSE	FINISH	EASTING	}			KOA	LA FINISH	EASTING	440 Bm	
TOTAL TIME	140	AMG CO-OR	DINATES	NORTHI	NG	***************************************		ß	ORDINATES	NORTHING	448 00 6825 8 00	
		<u>.                                    </u>						1		:	4023 800	

TRAVERSE SURVEY / KOALA TRANSECT - NORTHERN RVS REGION STATE FOREST MA WESENVILLE Yabbra COMPT SF 199 KOALA SURVEY OBSERVER(S) Jim Reside DATE FROM 19-3-96 REGION NOR 5 TREES PER 50 M 1KM PER 100HA Reside DATE TO 19.3-75 Jenni CODE 461 TRAVEL TIME 100 min START TIME START **EASTING** START 448200 **EASTING** SURVEY NAME **NORTHING** -50 **NORTHING** 6 825500 THREATENED FLORA OBSERVATIONS TREE **DBH** SCATS or SPECIES SEARCHED FOR **SPECIES** OTHER approx 40 سخاليماد 40 ani 45 TRANSECT **FLORA** NUMBER: AREA SITE DESCRIPTION MAP/AMG DISTANCE & SITE DISTURBANCE (?) **SPECIES** SIZE NOTED? 5 SO 40 7 60 8 80 Ral Wallat 9 SAHEN G 20 Uhule Mal 100 M ॐ 11 Grey Gum 60 12 20 13 R. N. Willel 20 EATENED FAUNA - SIGHTING OR FEATURE# 14 R. N. Willo TRANSECT SPECIES OR FEATURE NUMBER SITE DESCRIPTION MAP/AMG 15 40 DISTANCE TYPE (MICROHABITAT) NOTED? 16 50 40 18 P.N. Wallet Lug 70 200 M 50 21 60 22 80 20 į 24 60 25 50 26 20 27 90 28 50 29 90 <u>agybart</u> 30 300 M 31 60 R.N. willed 20 #THREATENED SPECIES FEATURES 33 80 BIRD SPP BIRD SPP 014 <u>004</u> <u>200</u> TIGER QUOLL LATRINE AND DEN SITES CAVES, TUNNELS & DISUSED MINES 35 NESTS, DENS & ROOSTS OF LARGE BIRDS, DISTINCTIVE SCATS (TIQU, KOAL, & 36 18 (RAPTORS & OWLS) BATS, & HOLLOW BRUSH-TAILED ROCK WALLABY) 37 Papery balk 20 **DEPENDENT SPECIES**  PERMANENT SOAKS AND SEEPAGES Grey aun 12 GLOSSY BLACK COCKATOO, ALBERTS YEBG 'V-NOTCH' TREES 39 Irollowk 60 LYREBIRD & BUSH THICK-KNEE NESTS OWL PELLETS (& WHITE WASH) 400 M GENERAL COMMENTS\* & \*RECORD FEATURES: EG. UNMAPPED CHANGE IN STRATA 30 see ARCHAEOLOGICAL ARTEFACTS OR FOREST TYPE, ROCKY OUTCROPS ETC 42 Grey Gu (100 TRANSECT OBSERVATION OF ..... MAP/AMG 43 90 DISTANCE NOTED? 44 R N WELLS KO. E4K. 45 46 3.0 47 80 48 Grey Gu 30 49 २० 500 M

TRAVERS	SE SURVEY (CONTIN	UED) NO	). 2	OF 2				KOALA SU	RVEY (C	ONTINUED)
OBSERVER(S)				19.3.98	<del></del> -			5 TREES PER		M PER 100HA
THREATENED	FLORA -OBSERVATION			11 3 18				· · · · · · · · · · · · · · · · · · ·		
SPECIES SEARC	CHED FOR	<u> </u>						TREE	DBH	SCATS or
TRANSFOR	KOALA							SPECIES	(approx)	OTHER
TRANSECT DISTANCE	FLORA SPECIES	NUMBER		SITE DESCRIPT		MAP/AMG		Circy Gum	60	
DISTANCE	SPECIES	<del> </del>	SIZE	& SITE DISTURBA	NCE (?)	NOTED?	52	, , , , , , , , , , , , , , , , , , ,	40	
•							53	11 11	40	
	<del></del>	+		<del>-</del>	<u>_</u>		54 55	1, 1	30	<u> </u>
							56	, u	60	550 M
<u>-</u>	<del></del>	-		<del></del>			57	Caylum	30	
							58	StroggienK	40 40	
							59	ų ų	20	
							60	Grey Cum	60 60	600 M
	-						61	Crey ann	30	
							62	, 0	30	<u> </u>
					_		63	6 11	50	
							64	6 4	60	
							65	ч ч	40	
					_		66	Stringytork	20	
TEATENER	D FAUNA - SIGHTING OR FEA	ATURE#					67	Spotted Cum	40	
DISTANCE	SPECIES/FEATURE TYPE	NUMBER	SITE (MIC	CROHABITAT)	M	AP/AMG?	68	1 4	40	
							69	Grey Gum	20	
			J				70	Grey Gum	3c	700 M
							71	h ,	40	
	<u> </u>						72	ч ч	40	
							73	Stringtont	lo lo	
		<u> </u>					74	. 01	50	
							75	n	150	
				<del>.</del>			76	Grey am	40	
							77	1,	60	
	<del></del>						78		60	
			ļ.		İ		79	91	80	
	<u> </u>	-		<u> </u>			80	Straggleck	40	M 008
			ł		į		81	, 01	60	
	<del></del>	<del>                                     </del>		<del></del>			82	h	20	
					İ		83 84	*	20	
PAL COA	MENTS* 6 ARCHAEOLOGY	L ADTEC	ACTO					"	40	
****	MMENTS* & ARCHAEOLOGIC URES: EG. UNMAPPED CHANG			ECT TYPE BOOKY OF	ITODODO I		85	Coylu	30	
TRANSECT	OBSERVATION OF		A OK FOR	EST TIPE, ROCKT OU		APIAMG	86	Red gum	40	
DISTANCE	OGGENTATION OF					NOTED?	87 88		20	
				<del></del>	<del> '</del>	10120:	89	<u> </u>	30	
							90	Grey Gum	60	
					-	<del></del>	91	0.1	20	900 M
							92	Keel gun	6c	
							93		40 20	
							94	" "	3c	<del></del>
<u> </u>		-		<del></del>			95	Box type	40.	<del></del>
				•	į		96	Red Cun	40	<del></del>
		********	-				97	" "	3c	<u></u> .
							98	., ,,	80	
							99	1- 1-	20	
							100			1000 M
LAST SHEET?		FINISH	EASTIN	G			KOA	LA FINISH	EASTING	449000
TOTAL TIME A	AMG COLOR	DINIATES	MODTH	INIC	****************	***************************************	ر می ا	DOMATEC		



### AMPHIBIAN SAMPLE REGION

STATE	FOREST Jabbra				M.A. HRBENV	lué	COMPT. 199			
OBSE	RVER(S)		Reside		DATE 19 Max		REGION	INR 461		
SURV	EY NAMI	<u> </u>			<u> </u>		NO. OF PLAYE	<u> </u>		
DETE	CTION M	ETHOD(S)	□ call playback		S spotlight - foot transect		Other			
			☐ spotlight · vehicular tr	ansect	spotlight - foot search		- oulei			
BROA	D FORE	ST TYPE	Rainforest	2.13001	Scierophyll		Woodland			
[ one o	choice on	ly ]	☐ Subtropical	************	B.Wet Sclerophyll	***************************************	□ Shrub Woodl	and		
			□ Dry		☐ Dry Sclerophyll.	-	☐ Heath Wood	····		
		<u>.                                    </u>	□ Temperate		☐ Swamp Sclerophyll		☐ Tall Woodlan	· 1		
CENS	<u>us</u>		Start Time: 200	مهه	Finish Time: 2235	ميا	Total Trave! Tin			
Specie	es Target	ed				Calls Played	<u> </u>			
SITE(	S) - AMG	Zone	Easting 4	483	00	[If transect	Easting	448100		
COOF	RDINATE	S	Northing (	3254	4 0-0	record finish)		126400		
LOCA	TION DE	SCRIPTION	From carp	<u>.                                    </u>	combostures 400	199 -	alo win	1 640		
			to Yalobra	Pla:	as asi	•		g <b></b>		
Neare	st known	water body	□Lake		☐ Swamp	<u>-</u>	☐ Soak / Seepa			
Distan	ice to	•	☐ Pond		□River		₹3.Road	-5-		
[in me	tres]	\ <b>~</b> 0 0	□ Dam		☐ Stream/Creek [flowing	g? yes□ / no□)				
WEAT	HER	<del>_</del>	Temperature 20	<u>.</u>		8 %		L am Lpm		
Wind	_		☐ calm		<u>.                                      </u>		moves branches			
Rain		<u> </u>	☑ light - leaves rustle	<del></del>	<u>_</u>		pedes progress			
Kani			rain during survey survey rain in I	ast 24 h	rs	□ no evidenc	e of rain in the la	st 24 hrs		
Night I	light		☐ very dark - no moor ☐ dark - quarter moor	ı+cloud			- moon and clea			
ORS	FR\/AT	ION DETA	ILS overleaf? P			□ bright • na	If moon or more a	and no cloud		
		ON DETAIL		AGE _	L UF					
	DIST	SPECIES		OBSER	RVATION TYPE - TALLY	<u> </u>	<del>-</del>	NOTES		
<b>李</b>				HELD		HEARD	TOTAL			
ام	300	mymma	mires/ec		\$	5	-	Nember		
<b>*</b> ,		Crinica				<del></del>	1	approximate		
19	<i>3</i> 00	Sieje	-Ju-		,	2	1 2			
19	డిం		fallax		١		1			
10	3 00		- latopalmota - Lawigala		1		-1	· ·		
B	Soa	Where	a bavigala			\$	Ś	Number		
			Magge	10~	Kada swu	- grouss	e)	44		
		<b></b>								
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L	<u> </u>									



### AMPHIBIAN SAMPLE REGION

STATI	STATE FOREST Yabbra			M.A.	Viban	:115	COMPT. VAL			
OBSE	RVER(S	) N. L	1. Longmor			21 Ma		REGION	196 1NR 461	
SURV	EY NAM						10	NO. OF PLAY		
DETE	CTION N	METHOD(S)	S call playback		Spotlight	l - foot transect		□ other	- I	
			spotlight - vehicular (	Iransect		l - foot search		Li Galei		
BROA	D FORE	ST TYPE	Rainforest		Sclerophy			Woodland		
[ one o	choice or	ıly]	☐ Subtropical	***************************************	B⊪ Wet Sc	*****************	•1**11*1*******************************	☐ Shrub Woo	dland	
			□ Dry		☐ Dry Scl	•		☐ Heath Woo	· ·	
	<del></del>		☐ Temperate		•	Sclerophyll		☐ Tall Woodla		
CENS			Start Time: 21 e	ساص	Finish Tin	ne: <b>2</b> \\-	دسا ک	Total Travel T	ime 70 ····	
Specie	es Target	led		-			Calls Played			
SITE(	S) - AMG	Zone	Easting	448	300		[If transect	Easting	<u> </u>	
COOF	RDINATE	S	Northing 🕻 🤇	24	<u>) (%)</u>	**************************************	record finish)			
LOCA	TION DE	SCRIPTION	Mabbean Ro	<u>ن</u> حند	ے دی	وسلاس	me the	h Lea	vy lantare	
		youan	ds' creeklan	سا				2.	- S (conclusion)	
Neare	st known	water body	□Lake			,		Soak / See	oage	
Distan	ice to	9	☐ Pond		☐ River			□ Road	,age	
(in me	tres)	<b>'</b>	□ Dam		□ Stream	/Creek (flowin	ıg? yes□ / no□)			
WEAT	HER		Temperature Zい	c	Relative H	lumidity	85%	Time Z1	am / @	
Wind			S calm					moves branche		
Rain			☐ light - leaves rustle ☐ rain during survey			<del></del>		edes progress		
			evidence of rain in	last 24 h	rs		KQ no evidence	e of rain in the l	ast 24 hrs	
Night I	light		very dark - no moo		<del></del> -			- moon and cle		
000			☐ dark - quarter moo				□ bright - hal	f moon or more	and no cloud	
	· · · · · —		ILS overleaf? F	AGE _	OF					
	DIST	ON DETAIL	<u>s</u>	LOBSER	VATION TY	DC TALLY				
				HELD	OBSE	*	HEARD	TOTAL	NOTES	
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21	İ	Chimen	. ,	Ì			1	1	The second	
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### AMPHIBIAN SAMPLE REGION

STATE FOREST Jalonne				M.A. Vilens	مند	COMPT. 199			
	RVER(S)	<u>~~~</u>	Longuera		DATE 21 Men	1993	PECION	NR 461	
	Y NAMI						NO. OF PLAYBA	CK SITES 2	
DETEC	M NOIT	ETHOD(S)	Call playback		spotlight - foot transect		□ other		
ļ			spotlight - vehicular tra	nsect	spollight - foot search				
_		ST TYPE	Rainforest		Sclerophyll		Woodland		
[ one cl	hoice on	ly]	□ Subtropical		<b>⊠</b> .Wet Sclerophyll		☐ Shrub Woodla	nd,	
			□ Dry		Dry Sclerophyll.		☐ Heath Woodla	nd.	
			☐ Temperate		☐ Swamp Sclerophyll		☐ Tall Woodland		
CENSU			Start Time: 2140	ساد	Finish Time: 22 4	3	Total Travel Time	e bomin	
Specie	s Target	ed				Calls Played			
SITE(S	) - AMG	Zone	Easting 🕓	<u>487</u>	) <del>လ</del>	(If transect	Easting		
COOR	DINATE	S	Northing 6 6 2	-53	් <b>ං</b>	record finish]	Northing	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		SCRIPTION	nu escarg		n bate by	مر م		occassonal	
50	موسر	to books	1 hears 1	ہتستہ	and grande	<b>-</b> · ·			
Neares	t known	water body	□ Lake		□ Swamp		Soak / Seepag	je	
Distant	ce to	530	☐ Pond		□River		☐ Road		
L		290	□ Dam		ሺ Stream/Creek (flowing	]? yes⊡ / no <b>≅</b> ]	☐ Other		
WEAT	HER	<u> </u>	Temperature 19°0	سـ	Relative Humidity	२०%	Time 2	40 / @ / @	
Wind			Calm		•		moves branches		
Rain		<del></del>	☑ light - leaves rustle ☐ rain during survey	•	<del></del>		pedes progress e of rain in the las	124 1	
		-	evidence of rain in la	ist 24 hi	rs	CX110 evidenc	e orrain in die las	1 24 nrs	
Night li	ght		☐ very dark - no moon- ☐ dark - quarter moon		n with heavy cloud		- moon and clear If moon or more ar		
OBS	ERVA	TION DETA	ILS overleaf? PA	AGE _	OF				
		ION DETAIL					<del></del>		
DATE	DIST	SPECIES			VATION TYPE - TALLY	*******************************	***************************************	NOTES	
				HELD	OBSERVED	HEARD	TOTAL		
3-1		Cinia	signifue			2_	2	Kendy Har	
								86 46 5	
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STATE FOREST	or dd.			M.A. U	الحاكمات	אטוננ	100	COMPT.		<del></del>
OBSERVER(S)	5 Januari	lesia	ŀ	DATEF	ROM '	19 ma	9.8	REGION		16
SURVEY NAME	Coarre	- NOSCO		DATE T	0	ے م	<i>spp)</i> 14	CODE	NNS	. مول
DETECTION METHOD(S)	X ham bus	<del></del> -				NIGHTS	1			
• • •	Xharp trap			- trip lin	es			• observ	ed	
ANG	bat sonar	2_		- mist n	et			• other		
AMG	Easting u	44 <b>95</b> 00		SPECIE	S TARG	ETED				
COORDINATES	Northing 6	85410	3							
BROAD HABITAT TYPE	Rainforest			Scieropi	ıyll			Woodland		
	➤ Subtropical • Dry			<b>X</b> Wet S	clerophy	 	i	- Shrub We	oodland	
•	Temperate			• Dry Si	clerophyl	l 	į	• Heath Wo	codland	
FOREST TYPE NUMBER(S)	47	*****		. Swam	p Sciero	phyll		Tall Wood	land	100 70 von <b>et</b> 2 <b>001 an etweet</b> en
LOCATION DESCRIPTION	Yabbon	810:	Q X	-		<b>S</b> -	<u>, a</u>			
	of Co			196	33 K.	437.00	<u> </u>	NW	<u></u>	mda
WEATHER (census = 1 night	)	Census 1		s 2 C	oneue 3	Coccus	4   0			
Date		1980 98	—			Census	4 Censu	s 5 Cens	us 6 C	ensus 7
Temperature		70°C				<del> </del>				
Relative Humidity		887				<u> </u>		<u> </u>		
Time Measurements Taken		2025h	<u></u>			<u> </u>				
Wind ((1) calm (2) light (3) mode	erate (4) strongs	3	<u>,                                     </u>	<del></del>		<u> </u>				
Rain ((1) during survey (2) evide						<u> </u>				
hrs (3) no evidence of in I	ast 24 hrs]	2					į	200		
Night light ((1) very dark (2) dark	k (3) detail seen					<del>                                     </del>	<del>-                                    </del>			
(4) bright]	·	2								
DATE   SPECIES	ETAILS					<del></del>	<u> </u>			
mar 1998			Sex	Weight (gms)		Field	Compulsor	y notes (age	, breeding	, appearance
10 V				(giris)	Length	No.	<del>-</del>			
19 Kerivanla	- Yaquen	-	£	6.5	36.6		N.1 1	mendi	. 1	Idner
19 Chalinolok			F	3	<b></b>					
· · · · · · · · · · · · · · · · · · ·		<u> </u>	<u> </u>	7.5	38.6	<u> </u>		• •		••
19 Vespedel	- bumil	<b>~</b> _	F	4.5	33.5					
1					<del>                                     </del>	<del>  -</del>				·•
19	••		M	3.5	28.6		Dans	. enla	اد ده د	tesles.
19	• •		۴۰		+	<del>                                     </del>				
			-	Q. 3	31.1		••	<u>, hid</u>	معماط	him
10	• •		٦	4.5	32.2		••			
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	<del></del>	<del></del>			1					
			<del> </del> -	┼	<del> </del>	<del>                                     </del>				
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STATE FOREST Yabbr	u SF	. М.	A. LLEBE	HULLE	COMPT.	96	
	side, Jenni Resid	le DA		19.3.98	REGION N	NR 461	
SURVEY NAME	100000	- 100	O. OF CENSUS	20 · 3 · 98 ·	CODE		
DETECTION INTERIOR IN	Charp trap		trip lines	ITIONIO /			
7			•		□ observed		
	bat sonar		mist net			***************************************	
	asting 44#300	SP	PECIES TARGE	TED Microck	hiroptera		
	orthing 613600			<u> </u>			
******	Subtropical		derophyll Wet Sclerophyll		Woodland  ☐ Shrub Woodlan	d	
	] Dry		Dry Sclerophyll		☐ Heath Woodlar		
	] Temperate		Swamp Sclerop	hyll	☐ Tall Woodland		
FOREST TYPE NUMBER(S)  LOCATION DESCRIPTION	47						
COOK TION DESCRIPTION (	On Yabbra Plu			in rooth o	south !	bounday	
WEATHER (census = 1 night)	of compating			0		'	
Date VEATHER (census = 1 night)		Census 2	2 Census 3	Census 4 Censu	us 5 Census 6	Census 7	
Temperature	19.3-98		<u> </u>				
Relative Humidity	20°C						
Time Measurements Taken	88%		1		<u> </u>	<u>:</u>	
Wind ((1) calm (2) light (3) moderate	(4) strong] 3	<u></u> -				<u>i</u>	
Rain ((1) during survey (2) evidence of	of in last 24	<del></del>				<u> </u>	
hrs (3) no evidence of in last 2	24 hrs) Z			,			
Night light [(1) very dark (2) dark (3) (4) bright]	detail seen 2						
CAPTURE / SAMPLE DETA	Alis	· <u></u>	ii			<u>.</u>	
DATE SPECIES			Weight F-arm	Field Compulso	ry notes (age, bree	eding, appearance)	
		-   (	(gms) Length	No.			
19378 Minoperus	australis !	FF	75 379	A.L. L	non-bra	idine selv	لمحق
Jelalay V	Dap Wensis			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1		0
1 '			15 372	<u>Uctul</u>	A vev-61	eding break	e Tê
19348 Chalmolo	tris movio	mt	7.5 38.3	Adi	It midde	entergen	-
hi 100 x 1 1 1 1	( )	1					
10/3/98 Nyctophila	s Saudi	11 8	8:5 4085	_ Holu	.It ienla	read downs	i
30/3th Nytoph: lus	c apuldi	W k	90421	يرهم	Harin	feates enter	دوص
b block			,	1			$\sim$
200198 Nyrtophilus	gouldi	VV 1 4	80406	Hau	It minor of	esdes onloge	لعب
3013/18 Nyctophilu	c.an.ldi		8.042				
Je a bete				, ,	1.	d wederah v	
20013 his Nyctophila	us gouldi	FK	75 434	Adu	4 m m	· breeding	
PAGE 1 or 2.	us apuldi	=	3.5 435			breading	
	— U - VII - I			<del></del>			

OBSE	RVI	ER(S) Jim Reside Jo	ZNN	. R	250	de_	DATE 19 3 (3/98
CAPT	UR	E / SAMPLE DETAILS					
DATI	E	SPECIES	Sex	Weight (gms)	F-arm Length	Field No.	Compulsory notes (age, breeding, appearance)
10 3t	18	C. Morio	m	7.0	<u>368</u>	. —	Adult no breading
2013	k	c. Morio	M	7.0	38.3		Adult no breeding
2013k	76	Vespadelus Vultumos	m	40	30.E		Adult enlarged testes
		Vespadelus pamilus	F	4.75	32 £		Adult no breading
abolsk	78	Vespadelus punilus	M	45	30·6		Adult anland dontes
		vespodelus primilus	<u>~</u>	3.5	305		Adult enlarged bestes
		Vespadelus primitus	F	<b>4</b> .5	32.1		About non-breeding
2013	176	Vespadelus pumilus	W	5.0	30.9		Adult enlarged testes Adult no Eveeding laverte
200/3	he	Vespadelus primilus	F	6.0	33.0		Adult no Eveeding loverie
300/3	98	Vespadelus pumilus	m	4.0	30·4	<u></u>	Adult anlarged testes
1 2013	98	C- Mario	M	7.5	40.4		Adult no-breeding
						<u> </u>	
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					<u> </u>	<u> </u>	
						<u> </u>	
1		IAP (INCLUDE DRAINAGE, ROADS AND TRACKS, D	ISTANCE	S, BEARII	VGS)		
NORTI   TOP							

PAGE 2 OF 2



BAT SURV	EY- NOR	RTHERI	N RI	VE	RS	S RE	GIO	<b>N</b>		Si	1 PPL	Sayes
STATE FOREST Yabb	ra SF		MA. ULIS ONVICE							OMPT.	<u> </u>	13. Co
OBSERVER(S) JIM 4	DATE FROM 18.3.98						RE	EGION ~	NR 4	<u> </u>		
SURVEY NAME		NO. OF CENSUS NIGHTS										
DETECTION METHOD(S) (X harp trap				□ trip	line			<u> </u>	observed			
□ bat sonar				□ mi	st ne	et			П	other		İ
AMG	Easting	449 000	>	SPE	CIES	TARGE	TED					
COORDINATES	Northing (	116600	2		1	Mich	ochire	opte	<i>د</i> د			
BROAD HABITAT TYPE .					Sclerophyll Woodland  X Wet Sclerophyll □ Shrub Woodland □ Dry Sclerophyll □ Heath Woodland □ Swamp Sclerophyll □ Tall Woodland							
FOREST TYPE NUMBER(S)	53	***************************************						······		NI TTOOUIGIU	***************************************	
LOCATION DESCRIPTION	South- i	Jestem C	فسوا	o{	<u></u>	المسوح	artne	ځي	199 0	n forest	track.	
WEATHER (census = 1 night)		Census 1	Cens	us 2	Ce	nsus 3	Censu	s 4	Census 5	Census 6	Census 7	
Date		18.3-98	<u> </u>						0011000		Ochada 7	
Temperature	<u>.</u>	25°c					<u> </u>			<u>.                                    </u>		
Relative Humidity	-	70%										
Time Measurements Taken	74	2030										
Wind ((1) calm (2) light (3) model		1				_						
Rain [(1) during survey (2) eviden hrs (3) no evidence of in la	st 24 hrs]	1						`				
Night light ((1) very dark (2) dark (4) bright]		1										
DATE   SPECIES	TAILS	<del></del>	Sex	l Wo	ight	F-arm	r:-iu	I 0-				
DATE OF EGILG			Jex	(gn		Length	Field No.		mpuisory not	es (age, bree	eding, appea	arance)
18.3.98 V. Vult	www.		M	40	ene	31 <sub>mm</sub>		A	lult I	Breadin	g onb	ggd ka
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PAGE \_\_\_ of \_\_\_. SKETCH MAP OVERLEAF? YES / NO -> see comportment map.



BAT SURV	EY- NOR	THERN	I RIV	/ERS	RE	GIOI	N		54	PLEME	N May	
STATE FOREST Yab	bru SF		Ti	M.A. U	L BE	NUIC	رن	COMPT.	199	1	102	
OBSERVER(S) JIM - JEWNY RESIDE						8.3.9		REGION	NN:	e uhi	1 Vec	
SURVEY NAME				NO. OF CENSUS NIGHTS /								
DETECTION METHOD(S)			☐ trip line		11101110	<u>-</u>	□ observe	┪				
	lx harp trap  ☐ bat sonar			□ mist net □ observed								
AMG	Easting	447800		SPECIES		-{						
COORDINATES	·····	12590			GE							
BROAD HABITAT TYPE	Rainforest	• • • • • • • • • • • • • • • • • • • •		Sclerophy	/ll			Woodland		<u>-</u>	1	
			⊠ Wet So □ Dry Scl □ Swamr	erophyll			☐ Shrub Wo ☐ Heath Wo ☐ Tall Wood					
FOREST TYPE NUMBER(S)	☐ Temperate S 3	***************************************								***************************************		
LOCATION DESCRIPTION		NW of	SF	bou	ndan	, wi	th free	hold a	lone	<del></del>	1	
	•••••	ubbra P										
WEATHER (census = 1 night)		Census 1	Censu	•	nsus 3	Census	s 4 Cens	us 5 Cens	us 6 C	ensus 7	7	
Date		18.3.48								•	] .	
Temperature		25°د									]	
Relative Humidity		70 %									_	
Time Measurements Taken	<u> </u>	2030									_	
Wind ((1) calm (2) light (3) mode		1				<u> </u>		· .				
Rain [(1) during survey (2) evide hrs (3) no evidence of in l	ast 24 hrs)	1									_	
Night light ((1) very dark (2) dark (4) bright)	<u> </u>	1								<u> ·</u>		
DATE   SPECIES	ETAILS	<del></del> 1	Sex	Weight	F-arm	Field	Compules	nu notee (aa-	hrondin	annearana	$\dashv$	
ONTE SPECIES			Jex	(gms)	Length	No.	Compuiso	ny notes (ago	z, oreeoin	g, appearance	<u>'</u> _	
ZERO	(NE BATS	iN THIS 7	пеар)									
							<del></del>	<del> </del>			1	
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			<u> </u>	1	}						_	

PAGE \_\_\_ of \_\_\_ . SKETCH MAP OVERLEAF? YES / (NO) -> See compartment map.

## SPOTLIGHT TRANSECT - SAMPLE REGION

Shiplemanny

********											/.	$^{\lambda}$		
OBSE	RVER(S)	J. 1	Lasida		START C			جسا مو	REGIO	281		وكرر		
STATE	FORES	T Jal	solve		FINISH C		CODE	אוכ	NNR	46				
SURVI	EY NAME						حىمادر		COMP	T.	199			
					TIME Sta			am / pm	Finish			m /		
ŀ				150 amy total										
DETEC	CTION M	ETHOD(S)	NUMBER OF TRANSECTS											
1		• •	spotlight -vehicular transect     Transect No(s)											
0000	FORES	T 7 / 2 2	spotlight - foot transect		Transect	)	••••••	•		:				
BROAL	ט רטאב:	: TYPE	Rainforest	Sclero	phyll									
1			☐ Subtropical ☐ Dry		t Scleroph		***************************************		odland Shrub Woodland					
			O Temperate	Sclerophy	/[] 			Heath Wood						
FORES	ST TYPE	NUMBER(S)			amp Sclere	opnyi	! 		Tall Woodlar	nd				
Locatio	n Descri	tion			************	********	*************		***********************		·			
	TRANSE	CT 1	Location Description	Location Description From camp in Companion 199 up live along trade to Jahlon Plains la-										
Total D	istance		trade.	4	-lab-	_ (	واستو	مسيمه د ٥	idd wy	٠	-W al	~~		
Specie	s Targete	d	1		5.73			<del></del>				_		
AMG	<u> </u>	Start	Easting Hyl 7300		<del></del>									
COOR	DINATES			Finish	Ea	sting	8100	100						
WEATH	HFR.	<del>-</del>				No	orthing	682	6400	400				
Wind			Temperature 20° C	Time 2025 has am / pm dal Warid. 889										
*******			○ calm Blight - leaves rustle	u moderate - moves branches										
Rain			☐ rain during survey ☐ no evidence of rain in the last 24 hrs											
			evidence of rain in last 24	hrs	L) no ev	idend	e of rain in	the last 24	hrs			-		
Night lig	int		O very dark - no moon+cloud		<b>⊠</b> detail	seen	- moon an	d clear sky	<del>,</del>					
	·		☐ dark - quarter moon or moon ☐ bright - half moon or more and no cloud with heavy cloud											
	TRANSE	CT 2	Location Description		<del></del>		<del> </del>	<del></del>	<del></del>					
Total Di	istance	·	,											
Species	Targete	1	<del></del>											
AMG	•	Start	Easting	Finish	: =		<u> </u>							
COORD	INATES		Northing	rinisn	ļ	sting		******************						
WEATH	IER		Temperature		· -	No	rthing				***************************************			
Wind			☐ calm		Time am / pm									
			O light - leaves rustle (2)	☐ moderate - moves branches							_			
Rain			☐ rain during survey	☐ strong - impedes progress ☐ no evidence of rain in the last 24 hrs										
Night lig	h è		O evidence of rain in last 24	hrs	cr.	46116	e or rain iii	ule last 24	nrs					
Mynthy	) IL	•	O very dark - no moon+cloud	☐ detail seen - moon and clear sky										
			☐ dark - quarter moon or moo with heavy cloud	☐ bright - half moon or more and no cloud										
	RVATIO													
DIST.	TRANS.	SPECIES			OBS.		DIST.	COUNT	NOTES					
·	140,		_		TYPE		from	000,11	140153					
50	ı	Pai					TRANS.		<del> </del>					
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0) (5.0	1 5 4 5 5		<del></del>		•							1		

		BSERVATIONS									
A	DIST.	TRANS. NO.	SPECIES	OBS. TYPE	DIST. from TRANS.	COUNT	NOTES (And, for				
•	yeo	1	Norhen Gran Bandinor	S	0	_					
•	450	1	Boolook out Owler nightyan	Н	٠.	١	long ways off				
	حه ک	١	Owler Nightyan	14	20	2	,				
	800	_\	Common Grah-hit Possun	S	20	l .					
	0	١	Long-nosed Condicad	S	lo	ı	back at camp				
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-	SVETCL	448 (1)10	LUDE DOLLMASS DOLLARS								
	NORTH (TOP)	MY (INC	LUDE DRAINAGE, ROADS AND TRACKS, DISTANCES,	BEARINGS)							
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