

**WASHPOOL STATE FOREST, COMPARTMENTS 684,&685  
FLORA AND FAUNA SURVEY REPORT.**

Prepared by: Robert Kooyman - FA[Flora&Fauna], Casino Dist. SFNSW.  
Date: 8/4/1997

**Introduction:** A survey of the flora, [with the accumulation of survey and incidental records for fauna], was conducted over the period from 25/3/97 to 4/4/97 within the area of compartments 684-5, Washpool SF. The compartments adjoin each other as well as [cmpt. 684]sharing a boundary with cmpt. 676. A separate report has been provided for cmpts. 673-4-5, [24/3/97].

**Flora survey methodology:** Plant species recorded from each forest type [and habitat] were listed, and frequency of occurrence and stratum [canopy, sub-canopy] indicated. Walked traverses were mapped . [See field notes attached.]

Particular attention was directed to locating and recording the distribution and numbers of ROTAP plant species [Briggs and Leigh, 1995 Revised], and Schedules 1&2 [NSW Threatened Species Act, 1995] plant [and animal] species.

**Fauna survey methodology:** Includes incidental records collected during flora survey and habitat assessments, as well as :-

1. walked spotlight transects, one kilometre long, 100 watt light.  
10 minute listen at start and finish.
2. call playback for target species :- powerful owl, sooty owl, masked owl, yellow bellied glider, koala, [and marbled frogmouth where habitat suitable.]
3. incidental scat collection and identification.
4. track identification on sandy or soft sections of roads, tracks and creek areas.
5. extended listening time for calls, [ variable sample length, and dependent on conditions.]

NB: A number of fauna groups were not sampled formally, therefore there are only incidental records for amphibians, reptiles, bats, small mammals, and diurnal birds. These records are provided in field note form and are appended. Refer to previous report cmpts. 673-4-5, for more incidental records in similar habitat.

**Description:** Compartment 684 covers an area of 330 hectares in the mid to upper reaches of Collum Collum Creek, bounded by Mt. Billilimbra [ and the NP area] to the north-west, and west, and cmpt. 676 [361 hectares] to the north. Compartment 685 [289 hectares] shares its northern boundary with cmpt.684 and is dissected by Puzzle Road, and the Washpool Road.

**Geology** appears complex with soils of granitic origin varying from brown clay loams to free draining red soils formed by basic hornfels and /or granidiorites, as well as areas of meta-sediments. Altitudinal range varies from just over 1000m. to 300m in cmpt.684, and from 400m. to 180m. in cmpt.685. Slopes are generally moderate to steep, and very steep in cmpt.684, and moderate to gentle in cmpt. 685.

The vegetation of the area is generally illustrated by the forest type map [SFNSW] and has been ground truthed during the survey.[ground truthing has revealed several mapping errors which are referred to below]. In some cases it is difficult to delineate / differentiate rainforest [sensu-stricto] boundaries and adjacent and intermixing forest types [ie., notophyll vine forest, with Lophostemon confertus, and/or Eucalyptus spp.]

Species lists for each forest type have been compiled and are appended to this report as field notes. A 'case study' of rainforest vegetation distribution in cmpts.684-5 is provided with this report.

### **Compartment 684**

The sequence of forest types largely follows the altitudinal, topographical, and soil gradients, and variations, with Ft.163 [New England Blackbutt] on the escarpment ridges in the south-west of cmpt.684 [not shown on forest type mapping] and adjacent slopes grading into extensive areas of the moist forest type[ Ft.47- Sydney Blue-gum / Tallowwood with rainforest- Ft.23/26] on the mid to upper slopes.

The area of Ft. 53 [Brush- Box] is under-estimated on the type map. Ft.53 occurs in a variety of situations ranging from the higher altitude ridges and slopes on the radiating spurs of Mt.Billilimbra down to the mid, and lower slopes closer to gully lines. Ft.53 grades into, and is associated with the rainforest types.

Rainforest [Ft.23/26, 2/3] has a quite extensive distribution in the higher altitude areas of cmpt.684, extending into the lower altitude areas along the protected gully-lines, and adjacent slopes with Ft.53,&47. [These areas often have a well developed rainforest canopy below the emergent *Lophostemon confertus*, and *Eucalyptus* spp.]

The drier ridges and slopes support Ft. 62[Grey-Gum, Ironbark, White Mahogany] with considerable variation in the species mix of this forest type between sites.[see species lists this report] A small area of Ft.62 with *Eucalyptus tereticornis* [forest-redgum] occurs in the extreme south-west of the compartment, and more extensively in compartment 685 where the redgum dominates [Ft.92]. These areas are incorrectly typed on existing maps.

### **Compartment 685**

Dominated by the variable forest type Ft.62[see species lists/field notes appended], and extensive areas of Forest Redgum [Ft.92] forming grassy open woodland. Ft.53&47 occur on the lower slopes and gully-lines with well developed rainforest as an understorey to these emergents closer to several of the creeks.

### **Rare or Threatened Plant Species recorded during survey:**

A plant resembling *Marsdenia liisae* was located, but was not in fruit or flower and could not therefore be ascribed species name in the field. This species remains likely to occur in the rainforest areas at higher altitudes, Ft.23/26, 2/3, and including transitions with Ft.53, &47[in cmpt.684].

No other ROTAP or Sch.1&2 [NPWS] species were located during this survey. Several plant specimens were collected and will be sent to Qld. Herbarium for identification. Collected specimens were from rainforest areas so will not be affected by logging operations.

**Fauna Records and habitat assessments:**

Based on previous records [in similar habitat, or nearby], and habitat assessments [this survey], the following Schedule 1&2 species may occur in the harvestable area of cmpts. 684-5, Washpool SF:

Yellow bellied Glider - sch.2  
Koala - sch.2  
Rufous Bettong - sch.2  
Tiger Quoll - sch.2  
Brush tailed Phascogale - sch.2  
Squirrel Glider - sch.2  
Common Planigale - sch.2  
Long nosed Potoroo - sch.2  
Parma Wallaby - sch.2  
Glossy black Cockatoo - sch.2  
Powerful Owl - sch.2  
Masked Owl - sch.2  
Sooty Owl - sch.2  
Rose crowned Fruit-dove - sch.2  
Wompoo Fruit-dove - sch.2  
Stephen's banded Snake - sch.2  
Pale headed Snake - sch.2  
Giant barred Frog - sch.2  
Stuttering Frog - sch.2  
Red Goshawk - sch.1  
Square-tailed Kite - sch.2  
Also a number of Micro-chiropteran Bat species, including Kerivoula papuensis, Miniopterus spp., Mormopterus spp.,etc.

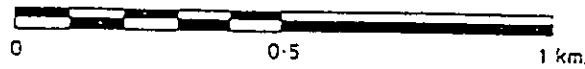
Species recorded during survey include :

Wompoo Fruit-dove  
Yellow bellied Glider  
Parma Wallaby  
Long Nosed Potoroo  
Glossy Black Cockatoo  
Sooty owl from Collum Collum Creek cmpt.684&5  
Masked owl from cmpt.673/4  
Powerful Owl from cmpt.684/5

A fauna record sheet and copies of field notes and maps are appended. NPWS Wildlife Atlas AMG cards have been filled out and forwarded to Casino District Office.  
See attached compartment maps for general locations of above species.

# Compartment 684

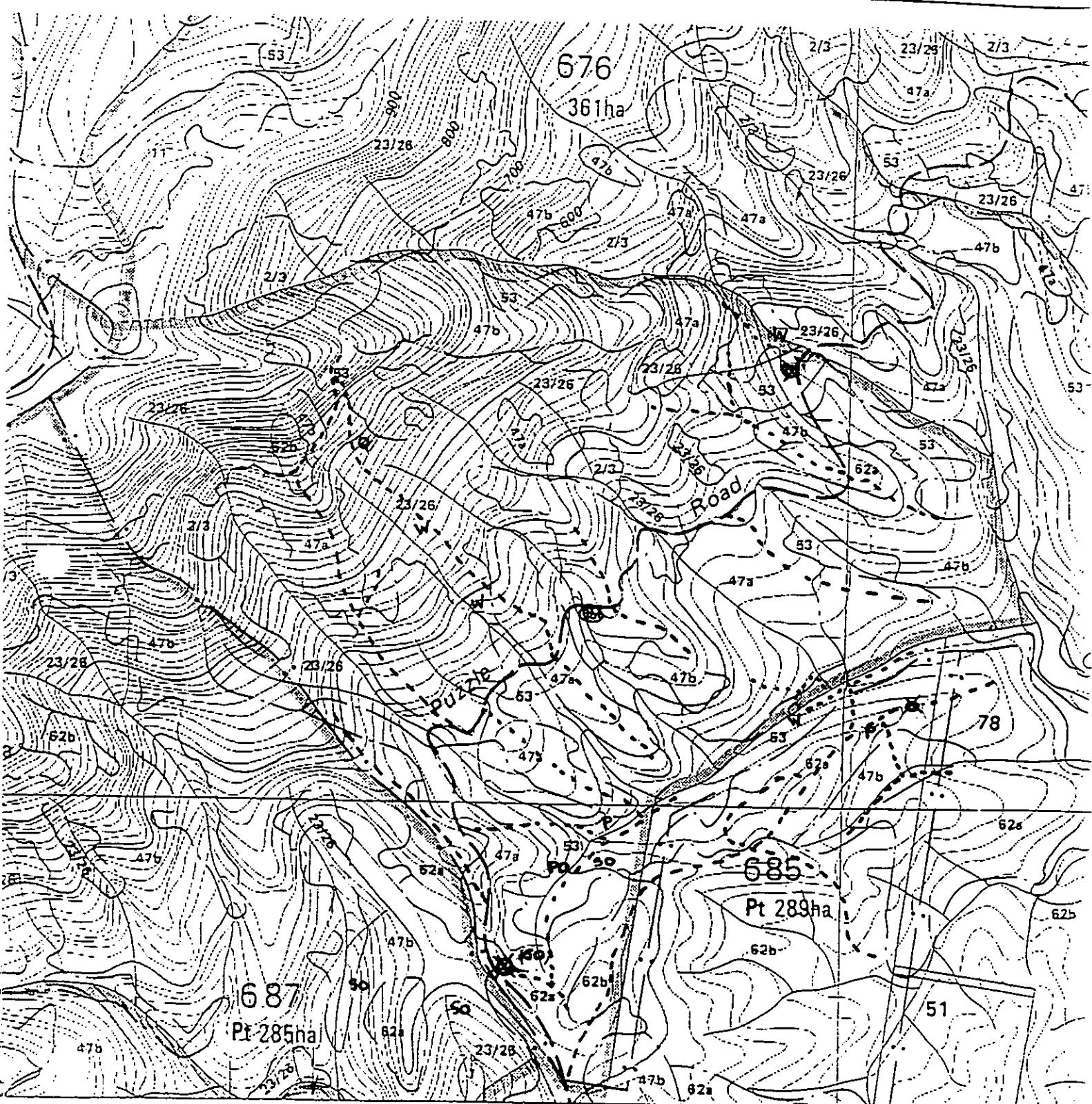
Scale — 1 : 15 000



CB / 845

Contour interval 10m

1  
G N



Compartment boundary .....  
 Filter strips ..... HHHHHHHHHH  
 Protection strips ..... 00000000  
 Rocc. minor rocc. dump site ..... —— —— O  
 Wet weather dumps shown in red

Special emphasis .....  
 Po - Powerful owl  
 So - Sooty owl  
 P - Parma wallaby  
 Pot - Potoroos (long nose).  
 Q - Tiger quoll. (95%).  
 W - Wompoo fruit dove.  
 & Playback site.

PO - Powerful owl  
SO - Sooty owl  
PW - Parma wallaby  
W - Wompoo fruit-dove.  
RB - Rufous Bertong  
(not confirmed). adb 0

# Compartment 685

\* Playback Site

Scale - 1:15 000

CB / 355

0.5

1 km.

Contour interval 10m

1  
G N



Compartment boundary .....

Filter strips .....

Special emphasis .....

FAX : 625826 SFNSW. 8/7/97

ATTN: Ross Sigley.

Casino District  
Reporting of Schedule 12 Fauna Sightings

WASHPOOL S.F.

OBSERVER: Robert Kaayman (FA) SFNSW.

Date	State Forest	Cpt No.	Type of Inspection (*)	Species of Fauna Sighted	Description of Fauna Sighted - eg adult, juvenile, breeding female, call only etc	AMG Reference	General Comments (eg at log dump, road side, Forest Type etc)	WILDLIFE ATLAS CALLS COMPLETED ✓
25/3/97	WASHPOOL	684/5	I	YBG	calls	4 44550	67 64950	✓
25/3/97	WASHPOOL	684/5	I	Sooty owl	calls (dive-bomb).	4 44400	67 64900	✓
26/3/97	WASHPOOL	685	II	Pirma Wallaby	seen (spotlighting). adult...	4 45075	67 65225	✓
2/4/97	WASHPOOL	684	I	Sooty owl	calls ... (trilling) (after playback).	4 44100	67 64500	✓ )
2/4/97	WASHPOOL	684/5	I	Sooty owl	calling (dive bomb).	4 43800	67 64500	✓ )
3/4/97	WASHPOOL	684/5	I	Powerful owl	heard calling (2am. >15mins. intermittent).	4 44375	67 64875	✓ )
3/4/97	WASHPOOL	684	II	Tiger Quoll	disturbed in vine thicket area. RF. brief sighting...	4 43600	67 65975	✓ )
3/4/97	WASHPOOL	684	II	Wombat Fawn Dove(s).	seen and heard R.F. areas.	4 43850 4 44000	67 65800 67 65610	✓ )
25/3/97	WASHPOOL	684	II	Wombat Fawn - Dove(s).	heard calling.	4 44775	67 66400	✓ )
26/3/97	WASHPOOL	684/5	II	Wombat Fawn-dove.	calls.	4 44850	67 65260	✓ )
3/4/97	WASHPOOL	684	I	Potoroo (long ears)	seen (on road... spotlighting...)	4 44300	67 65525	✓ )
25/3/97	WASHPOOL	685	II	Glossy Black Cuckoo. (2), seen.		4 44900	67 63500.	✓ )
4/4/97	WASHPOOL	684/5	II	Pirma wallaby	seen - disturbed near creek.	4 44410	67 65000.	✓ )

## (\*) Type of Inspection

- |                                     |  |
|-------------------------------------|--|
| 1. Night Time Surveys               | 7. Marking Boundaries, Filter Strips or Conservation Areas |
| 2. Follow-up Clearance Inspection   | 8. Reports from Log Faller                                 |
| 3. Rejects Inspection               | 9. Head Disposal Burning                                   |
| 4. Regeneration Inspection          | 10. Harvesting Planning                                    |
| 5. Road Line, Dump Sites Inspection | 11. Other (FLORA & FAUNA SURVEYS)                          |
| 6. Timber Assessment                |  |

CMPY. 684/5 WATKINSON S.F.

OBSERVER: Robert Kaayman.

18/3/67 - Puzzle Rd. on creek crossing (676, 684 boundary).

Fauna footprints on muddy crossing -:

Dingo (or Feral dog).

Small macropod ... Pademelon ... or Puma

Bandicoot

Feral cat.

Puzzle Rd. Cmpy. 684 - red necked pademelon.

\* HABITAT ASSIGNMENTS / RECORDS etc.

NB: Lower altitude areas of cmpys. 675, 684, 685 ... 685 in particular is prime

Glossy Black Cockatoo habitat ... regular sightings etc... (Habitat assessments ...)

- Rufous Bettong - excellent (previous records nearby). Ft. 62, 67.

- Brush tailed Phascogale - good - very good - occ. (previous record) Ft. 62.

- Puma wallaby - present Ft. 62, 67, + RP.

- Red legged pademelon - very good - excellent - (no records).

- Kookaburra - present - Ft. 61, 62. - low numbers.

- Y36 - present. Ft. 67, 62, (not common ...)

- Sooty owl - present. Ft. 67, 63 + RP.

- Matted owl - present. (Ft. 62, Ft. 67 (dm))

- Powerful owl - present (previous records) - record this survey ... Ft. 67.

- Wompoo fruit-dove (present - RF area).

- Tiger Quoll - present top end (NW) Cmpy. 684. Ft. 23/26 / Ft. 67/53. (disturbed ... in vine tangle area)

- Potaroo - diggings and sighting ... Cmpy. 684. (on road).

- Squirrel Glider - not recorded this survey - recorder nearby ... (habitat like Banksia spp. but all else present).

- Brush tailed Phascogale - good - excellent habitat, not recorded (records Ewing S.F. etc...)

- Square tailed Kite - excellent habitat (particularly lower altitude areas ...). Ft. 62 etc... Ft. 67. ...

- Red Goshawk - good - excellent habitat.

- Grey headed Flying Fox etc. present on Enc. Moran etc...

+ Pteropus etc / - very likely - excellent habitat ...

- Giant barred Gray - (Colin Collier Cte, Watkinson Cte - records). M. itachus

- Strutting Gray - (as above). M. galion

\* DURING FLORA (FAUNA) SURVEY ALSO UNRECORDED -:

1. Habitat searches / roost searches for large forest owls

2. Scat searches and identification.

3. Animal track identification, etc...

April 2<sup>nd</sup>, 1997. Washpool S.F. cmpt. 684. - Robert Koayman.

NIGHT FAUNA SURVEY: Puzzle Rd - NW 684. start: 6:30pm

7:00pm - 20 min. listen. SUGAR GLIDER - calling.

CALL PLAYBACK - : Powerful owl - no response  
Masked owl - no response  
Sooty owl - calls ... trilling calls 444100 67 64500  
YBG - no response  
KOALA - no response.

LISTEN: - STAN. BOOBOOK OWL  
- SUGAR GLIDER.

START WALKING SPOTLIGHT TRACTOR:

50m - *Lotaria leuceni*  
200m - macropod (no i.d.)  
800m  
Return - ringtail possum (calls)  
- *Miophyes fasciolatus*.  
- Greater glider - NEBBT / TWD.  
- STAN. BOOBOOK owl.

- 10:30 pm.

- Sooty owl calling - 230° dive-bomb calls ... 443800 67 64500  
- white-throated nightjar..

3<sup>rd</sup> April (Thurs). 1997. START. 6:30pm.

- cmpt. 684/686. LISTEN: Sugar gliders, PLAYBACK: Powerful owl - no response  
boundary. STAN. BOOBOOK owl. Sooty owl - no response.  
Potoroo - on road - short walking spotlight walk. 444300, 67 65525.

- cmpt. 685. drive out to intersection - : Common brushtail possum on track.

10 min listen: PLAYBACK - : Powerful owl - no response.

Sugar Glider	Powerful owl - no response
BRUSHTAIL POSS.	Masked owl - no response
STAN. BOOBOOK owl	Sooty owl - no response
	Koala - no response.
	YBG - no response.

5:45pm - START WALKING SPOTLIGHT TRACTOR - :

- long-nosed bandicoot (sneezing calls ...)

\* - rufous bettong (not confirmed) followed Stan awhile on foot - no macropod 'thump' signals  
- but behaviour strongly suggestive of R.B. as was 'brief' partial sighting. - no sneeze alarm (bandicoots ...  
9:30 end - drive back to camp ... - possible potoroo!

near camp - Bandicoot (long-nosed)

\* Powerful owl calling 444375 67 64875 (2am. calling ....  
Boundary - cmpt. 684/685.

4/4/97 - cmpt. 684 - Red (lizard) pademelon?  
- collected Dingo (?goat dog) scat - cmpt. 684/5 open grazing area

CAMP. 685. WASHPOOL S.F.  
684.

25/3/93

observer: Robert Kooyman.

FAUNA SURVEY -: Call Playback start 7:40pm..  
Tawny owl - no response NB: Sooty owl recorded nearby recently  
Marked owl - no response (SFNSW Casino Record)  
YBG - no response & see record below...  
Kookaburra - no response. Sooty owl - no response.

10 min. listen:

Weather: partly cloudy, wind - gusty to 10 m.p.h and greater. (dropping to still for  
- moon rise 7:40pm - ~~full moon~~ full moon... increasing cloud - moon obscured remainder.... after 8:30  
- warm, humid...

Walking Spotlight Transect -: [target Rufous Bettong & Brush-tailed Phascogale]  
START 8:15pm: Redgum Assoc.

400m = YBG calling toward creek. 4 44550 67 64950

- heard: small macropod.
- heard: Macropod (swamp wallaby)
- owlet nightjar
- Boobook owl (SLH).
- Fruit/blossom bats.

Trek intersection: Sooty owl - calls from gully (creek area) 684/685 boundary.  
4 44400 67 64900

- 100m Swamp wallaby
- Pademelon (red-necked)
- small macropod - Parma?

- ... possible Rufous bettong (not clear sighting) - excellent habitat.
- Mtn. Bobtail (seen & calls).
- \* Shrubby understorey - Two. 66. WM. ... Ft. 62 - no redgum.  
- heard bandicoot, snuffle - 'sneeze' alarm call...
- Swamp wallaby
- Noisy Pitta calling - gully line?

WM. SWD. - Moister understorey - red soil... more moist understorey... F+47 + RF  
Litaria lesuerii (?) - small.

Micropogon fasciatum - juvenile.

Crinia signifera - rocallides...

1.5 kms.

9:45pm - 10:15 return. Set up camp. 11pm. END.

CAMP. 685 WASHPOOL S.F.

Fauna Survey - night. 26/3/97

Robert Koayman.  
weather: warm, partly cloudy - increasing  
- no wind...

Call Playback : Powerful owl - no response  
7:30pm. Masked owl - no response  
Sooty owl - no response.

Koala - no response  
YBG - no response.

LISTEN: 10mins: Fruit bats calling -  
Ringtail possum - calls

WALKING SPOTLIGHT TRANSECT: (1) Start near SF boundary....

8:15pm 300m - Parma wallaby - on track. -  
- heard small macropods...  
- short burst - Masked owl? - not confirmed - too short!  
- Str. Boobook owl - calling.  
- Mizophyes fasciolatus - calling from gully --- 50m.

9:30pm. Return walk - Listen: Str. Boobook ...

Drive back to my camp - near top of camp. 685.

- sugar glider - calling.  
- Masked owl Playback - no response

10:15pm - START WALKING SPOTLIGHT TRANSECT (2). CAMP. 685 Sthn & western

- white throated nightjar - calls  
- sugar glider - calls.  
- Litoria lesuerii (2)  
- small macropods (3) Parma?  
- sugar glider - calling.  
- Str. Boobook owl.

Boundaries - Fuzzie 2D  
& side track to camp. 685

End: 11:00 pm.



Species LIST 1.

ECOTONE

EDGE.

LIST 2

(to  
edge).

Ft. 67.

plus

developing Rainforest.

Species List 2.

ECOTONE

EDGE.

Ft. 47/53

Species List 3.

- developing  
rainforest.

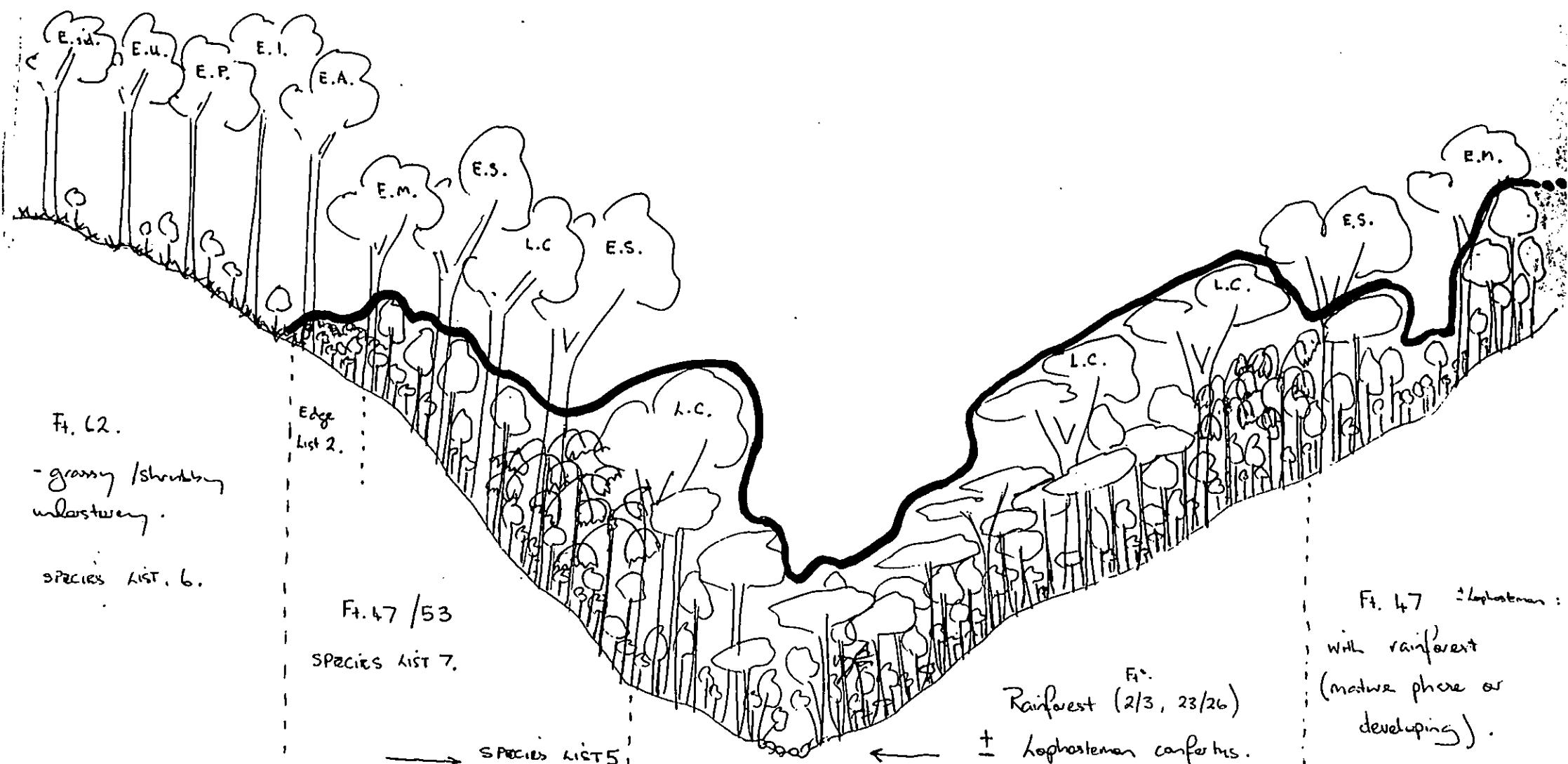
List 2.

(to edge).

CMPTE. 685.

Refer to List 4 for replicate sample...

← : 200m. →



Ft. 42.  
- grassy / shrubby  
understorey.

Species LIST 6.

Ft. 47 / 53

Species LIST 7.

→ SPECIES LIST 5.1 →

CMP. 684.

Riparian alliance:  
g. *Bachmannia*, *mystfolia*.  
*Ebeoacarpus*, *grandis* ....  
+ list 5.

Ft.  
Rainforest (2/3, 23/26)

+ Lophoteman confertus.

Species List 5.

Ft. 47 + Lophoteman:  
with rainforest  
(mature phase or  
developing).

Species List 5.

- Ft. 62 (shrubby understorey - grier)  
 (A. & C. com. sp.) [GG. 10% - absent from stand]. Ridge / red soil.  
 - distinct type,  
 - stringybarks dominant.
- c. *Eucalyptus umbra* (o-c).  
 c. E. *acmenioides* (o).  
 c. E. *microcarpa* (o).  
 c. E. (*Corymbia*) *intermedia* (o-o).  
 c. E. *laevigata* (r).  
 sc. *Acacia melanoxylon* (vo).  
 sc. *Acacia irrorata* (o).  
 sc. *Allocasuarina torulosa* (o-c).  
 sc. *Trochocarpa laurina* (o-c).  
 sc. *Elaeocarpus reticulatus* (o-c).  
*Lomagramma lanceolata* (c-vc). mostly shrubby.  
*Lomatia silifolia* (c).  
*Persoonia median* (vo) - herb.  
 P. *stradbrokensis* (o).  
*Oxylobium illicifolia* (c-vc).  
*Lomagramma juniperina* (o-c).  
*Rapanea variabilis* (vo-o).  
*Maytenus bilocularis* (o).
- overlaps with downslope Ft. 47 ± R.F.  
 and adjacent areas of Ft. 62 (grassy understorey)  
 with ± G.G. / I.B.K. / R.G. etc.  
 (see Ft. 47, sample comp. 655 ... this sheet).
- Hibbertia scandens* (o).  
*Hibbertia diffusa* (o-c).  
*Pteris esculentum* (o).  
*Hardwickia violacea* (c).  
*Chaiturus sibiricus* (o).  
*Themeda triandra* (o).  
*Poa labillardierei* var. *lato*. (o).  
*Calochlaena dubia* (o-c).  
*Blechnum cartilaginum* (o+e).  
*Macrozamia fawcettii* (vo).  
*Dianella caerulea* (vo).  
*Goodenia rotundifolia* (o).  
*Xanthosoma glaucum* (o).  
*Dosmodium* sp.  
*Kuniedia rubicunda* (o), (vo).  
*Poa purpurea* (o).

\* Structure and form (as well as some floristic indicators) of this community is reminiscent of some coastal communities on clay or sandy substrates. e.g. Ft. 126 (without Scribbly Gum etc...)

- N.E. corner CMPT. 685. Ft. 47 sample. (RF definition?). Col. 1:  
 Red Earths' (clay-loam) Robert Kaayman.  
 WASHPOOL S.F. CMPT. 685. Ft. 62. Stringybark type - upstair. Ft. 47. TWD / B.G. ± Rainforest (Ft. 23/26). List 2  
 with vine forest understorey. (2m → 20m tree line & upstair  
 vegetation → tree dominated R.  
 C. Encalyptus microcarpa (o-c)  
 C. E. saligna (o-c)  
 C. E. (Corymbic) intermedia (o)  
 C. E. acmenoides (o)  
 C. Liriomyza austroalis (o-c)  
 C. Lophozelotes confertus (vo-o).  
 sc. Elaeocarpus reticulatus (o-vo).  
 sc. Allocasuarina torulosa (o)  
 sc. Acacia melanoxylon (o)  
 sc. A. irrorata (vo)  
 sc. Cryptocarya rigidia (o- )  
 Diospyros australis (o)  
 Psychotria lanceroides (o-c)  
 Trochocarpa laurina (o-c).  
 Maytenus biltziana (o- )  
 Breynia oblongifolia (o- )  
 sc. Neolitsea dealbata (o-c). Canopy-(c) = crown  
 of vine forest only.  
 below this point  
 c. Peltoscheia cheynei (o). ↑ ↓  
 c/sc. Cryptocarya glaucescens ↓  
 c/sc. Diospyros pentamera (o)  
 c/sc. Eucalyptus falcata (o).  
 c. Rhodamnia rubescens (o-c).  
 sc/c. Syzygium glandulosum (o-c)  
 sc. Eupomastix laurina (o).  
 sc/c. Cryptocarya obvoluta (vo-o).  
 c. Dendrocnide excelsa (vo).  
 Trematopanax aspera (o)  
 sc/c. Guioa semiglauca (o)  
 sc/c. Mallotus philippinensis (o).  
 sc/c. Ficus coronata (o).  
 sc. Clerodendron tomentosum (vo-o).  
 sc. Callicarpa pedunculata (o).  
 sc/c. Glochidion ferdinandii (o).  
 c/sc. Alphitonia excelsa (o).  
 Pittosporum revolutum (vo).  
 Archichlamyrtus beckleri (o).  
 sc/c. Flindersia schottiana (vo- )
- C. hypoglauca (c)  
 Blechnum cartilaginum (c)  
 Lomaria longifolia (o-c).  
 Alpinia caerulea (o-vc).  
 Gymnostachys anceps (o-c).  
 Hibbertia scandens (o-c).  
 Diplozium australe (o)  
 Morinda jasminoides (o-c).  
 Eustrephus latifolius (o-vo).  
 Gitteria pleiophyllum cygnorum (o-c).  
 Macrozamia fawcettii (vo).  
 Goodia latifolia (o-vo).  
 Tetragymna nitens (o).  
 Platycerium bifurcatum (o).  
 Ceterach subspicatus (o).  
 Pandorea pandorana (o).  
 Lastreopsis decomposita (o).  
 Doodia aequata (o-c).  
 Macleana cochinchinensis (o).  
 Embelia australiana (o).  
 Dioscorea transversa (o).  
 Entoloma strictum (vo).  
 Paricium pygmaeum (vo).  
 Oplismenus aenatum (o).  
 Marsdenia flavescens (vo-o).  
 M. sp. rotunda (o).  
 M. sp. ? ( )  
 Cyathaea cooperi ( )  
 Stephanitis japonica var discolor (o).  
 Cyathea clematidea (vo). sc. Tasmania insipida (vo).  
 Rubus rosifolius (o). sc. Anopterus madagascariensis (vo).  
 R. hillii (vo). c. Caldeuvia paniculata (o).  
 R. moorei (vo). c. Schizomeria ovata (vo).  
 Dianella caerulea (o).  
 Alloacacia brachystachys (v).  
 Nototrichia longifolia (vo).  
 Diplaglottis australis (vo- )  
 sc/c. Litsea reticulata (o-vo).  
 Citriobatus paniciformis (o-c).  
 Hibiscus heterophyllus (o-vo).  
 sc/c. Cryptocarya micrantha (o).  
 sc. Croton verreauxii (o).
- Robert Kaayman.  
 Adiantum formosum (v).  
 Lastreopsis sp. (c).  
 Smilax australis (o-c).  
 Gymnostachys anceps (o-c).  
 Cyperus tetraphyllus (o-c).  
 Commelinia cyanea (vo).  
 Calathea tripartita (vo).  
 Danckelmania aenatum (ov).  
 D. gracilicaule (v).  
 D. sp. aff. kingianum (o).  
 Goodia speciosum (o).  
 Ripogonum ekembum (o-c).

C.M.P.T. 685 WASHPOOL S.F.  
684 (then, and).

(Ft. 62) with grassy understorey.  
+ *E. tereticornis*.

688 3

Robert Kooyman

- c. *Eucalyptus tereticornis* (o-c) or absent)
- c. E. *microcarpa* (o-)
- c. E. *umbra* (o)
- c. E. (*Calymoia*) *intermedia* (o)
- c. E. *acmenoides* (vo)
- c. E. *siderophloia* (o)
- c. E. *priopinqua* (o)
- c. E. *salina* (vo-o) down slope
- c/s. *Angophora subvelutina* (vo-v)
- x. *Allocasuarina torulosa* (c)
- sc. *Trochocarpa laurina* (o-vo)
- sc. *Acacia irrorata* (o-c)
- Personata* (straubbrookeri) (o-vo)
- sc. *Acacia melanoxylon* (vo)
- c. *Acacia* sp.
- Grevillea sphaericum* (o-vo)
- Richardia* sp. *stellaria*
- R. sp. *brachycarpa*
- Hibbertia scandens* (vo)
- H. *aspera*
- H. *dentata*
- Plectranthus parvifolius* (o)
- Chileanthes* sp. *siberiana*
- Baeckea densipetala* (o)
- Olearia nemastii* (vo)
- Maytenus biltzneri* (o-vo)
- Rapanea variabilis* (vo)
- Bryonia oblongifolia* (o-vo)
- Cordyline stricta* (vo-c)
- Eustrephus latifolius* (o)
- Pimelea linifolia* (o)
- Macrozamia fraseri* (vo-o)
- Sobralia* sp. aff. *campanulatum* (o)
- S. *cinerinum* (vo)
- Phyllanthus virgatus* sp. sp. (o- )
- Imperata cylindrica* (o-c)
- Poa litoradiea* var. *labilis*. (c)
- Poa* sp. (vo)
- Xanthorea glauca* (o)
- Hybanthus emarginatus* var. *stellroides* (o-c)
- Micranthemum ericoides* (o)
- Glycine clandestina* (o-c)
- Pratia purpurea* (o)
- Lomandra longifolia* (vo)
- Carex* sp.
- Cyperus* sp. *erectus*
- Digitaria* sp. *longigllica*
- Paspalum*
- Themeda (australis) triandra* (o)
- Gesleria potentillaoides* (o)  
var. *potent.*
- Leucopogon juniperinus* (o)
- L. *kneostachys* (vo)
- Oxalis* sp.
- Rubus parvifolius* (o-vo)
- Desmodium* sp. *rhiztidopholium* (o)
- Jacksonia scoparia* *Liposperma laterale* (o)
- Oxylobium illicifolium* (vo) *Celastrus subspicatus* (o-vo)
- Solanum dasyrrhynchum* (o)
- Micranthemum ericoides* (o-vo)
- *Opismenus* sp. *geminus* (o) collect variety ...
- Hardenbergia violacea* (o)
- Glycine latifolia* (o)
- Kennedia resupinata* (vo)
- Dianella caerulea* (o)
- Centaurium tenuiflorum* (o)
- Cymbidium*
- Dendrobium aenatum* (ramberk) (o)
- Goodenia rotundifolia* (o)
- Viola hederacea* (o)

*Violaceae*:

Native Gen:

Before better drawings?

- down-slope Fl. 62 / 47 (S3) overgr. etc. transitions from grassy understorey to shrubby to moist.  
 (moist) (dry - moist)
- sc. *Livistona australis* (o - )  
 sc. *Alphitonia excelsa* (vo - )  
 C. *Lophostemon confertus* (o + vc)  
 C. *Encalyptus saligna* (o + c)  
 C. E. acmenioides (vo)  
 C. E. microcarpa (vo).  
 C. E. (*Corymbia*) intermedia (vo).  
 - - - - -
- sc. *Allocasuarina torulosa* (o - )  
*Cryptocarya rigidula* (o).  
*Trema apica* (o)  
*Psychotria lanigeroides* (o).  
 sc. *Grewia serrulata* (c)  
 sc. *Synoum glandulosum* (c)  
 sc. *Euroschinus falcata* (o)  
 sc. *Cryptocarya obovata* (o)  
 sc. *Rhodamnia rubescens* (o - c)  
*Trochocarpa laurina* (o).  
*Empetrum lawini* (o). ↑  
 c/sc. *Mitchella caerulea* var. *australis* (o). ↓  
 c/c. *Cryptocarya glaucescens* (o) down-slope  
 c/c. *Catulina paniculosa* (o).  
 sc. *Cryptocarya microneura* (o).  
 sc. *Dióspyrus australis* (o).  
 c/c. *Diplaglottis australis* (vo - o).  
 c/c. *Polyosma murrayi* (o).  
 c/c. *Dendrocnide photinophylla* (o).  
*Crinodentia paniculosa* (o).  
 sc. *Neolitsea dealbata* (o).  
 c/c. *Litsea reticulata* (vo - o).  
*Brennia oblongifolia* (o - c).  
 c. *Acreychnia oblongifolia* (o).  
 c/c. *Toona ciliata* (vo - o).  
 c. *Glochidion ferdinandii* (o - vo).  
*Carligyna petiolaris* (o - n).  
*Elaeocarpus reticulatus* (o + c).
- Doodia capra (c - vc)  
*Asplenium flaccidum* (o).  
*Cissus hypoglauca* (o - c)  
 C. *antarctica* (o - c)  
*Calochlaena dubia* (vo - o)  
*Dipteris australis* (o).  
*Rubus rufifolius* (o)  
*R. hillii* (o).  
*Davallia solida* (o - c).  
*Cabomba triplinervia* (o).  
*Alpinia caerulea* (o + c).  
*Cyathea australis* (o).  
*Platycerium bifurcatum* (o).  
*Dendrobium gracilicaule* (o).  
*Pyrorchis superba* (o - c)  
 P. *confluens* (o).  
*Gahnia aspera* (vo).  
*Bulbophyllum* sp...  
*Dendrobium pugnans* (o - vo).  
*Gymnostachys anceps* (o - vo).  
*Geitoperium cyathum* (o).  
*Blechnum cartilagineum* (o - c).  
*Smilax australis* (o).  
*Tetragonia nitens* (o).  
*Goodia latifolia* (o - vo).  
*Hibbertia scandens* (o).  
*Anredera oblongum* (o).  
*Lomandra longifolia* (o - c).  
*Macrorhynchium cochinchinensis* (o).  
 P. *Parthenocissus* sp. (o - vo).  
*Pandorea pandorana* (c)  
 P. *japonica* (o)  
*Cayratia clematidea* (o - c).  
*Zehneria cunninghamii* (o).  
*Cyathea cooperi* (o - vo).  
*Cyperus tetraphyllum* (o).  
*Ozothamnus diosmifolius* (o - c).

695 & contd.

Rob. Kooyman. 3/1957.

- downslope sample card. empt. 684 (sn. boundary)  
685...  
RF - creek area : add...  
(40m to creek).  
C/s/c *Pannaria cunninghamii* (o-).  
*Derhamia celandrioides* (o).  
*Tasmannia insipida* (o-).  
sc/c *Diospyros pentamera* (o).  
sc *Croton verreauxii* (o).  
sc. *Daphnandra* sp. A (vo-o).  
*Ficus coronata* (o).  
sc *Acradenia euodiiformis* (vo-o).  
*Abrusphyllum ornans* (o-c).  
c/s/c *Cryptocarya erythroxylon* (vo-o).  
*Archidendron beckleri* (vo).  
sc. *Cleistanthus cunninghamii* (o).  
sc/c *Hymenoporus flavum* (vo- )  
cf. *Schizantheria ovata* (o)  
sc *Cinnamomum oliverii* (vo-o).  
sc/c *Mallotus philippinensis* (o).  
*Penderantherum variabile* (o).  
sc/t *Scolopia braunii* (o-vo)  
sc/t *Melicope micrococca* (vo).  
Rubaceae: specimen...  
*Hibiscus heterophyllum* (?) (vo).  
sc. *Polyscias elegans* (vo).  
sc. *Hodgkinsonia ovatiflora* (vo).  
C/s/c *Endlicheria mulleri* (o).  
C/s/c *Cryptocarya micrantha* (o).  
C/s/c *Litsea reticulata* (vo-o).  
C/s/c *Dypsisylva fraseriana* (vo).

- ..... than add RF species list ..... o...  
*Morinda jasminoides* (o)  
*Lastreopsis decompensa* (o-c).  
*Dioscorea transversa* (o).  
*Macaranga tanarius* (o)  
M. sp.  
*Cephalanthus cephalobotrys* (o-  
*Palmeria scandens* (o).  
*Ripogonum elseyanum* (o-  
*Embelia australiana* (o).  
*Ardisia monostachya* (o-c).  
*Thrix umbrosa* (o).  
*Christella dentata* (o).  
pepper vine: *Piper novae-hollandiae* (o).  
*Piptocalyx moorei* (vo-o).  
*Metolius australis* (o-  
*Lastreopsis marginata* (o-o)  
*Vittaria elongata* (o-vo).  
*Dendrobium aenatum* (Lophotrichum) (o-c).  
*Phlegmariurus superbum* (vo-o)  
P. bifurcation (o-c).  
*Cordyline stricta*.

Bardicoot duggings ...  
Potoroos ..

- list 5
- 671
- RF. (23/26) EWINGAR camp. at... WASHPOOL - 683-4-5. 684/5.
- C. Calochlora paniculata (c-vc) ✓  
 C/sc Livistona australis (c-vc). ✓  
 C/sc Elaeocarpus dentatus (vo-o). ✓  
 sc. Canthium corynoides (o). ✓  
 sc. Acroneuria oblong-folius (o-c). ✓  
 sc. Nootia dealbata (o-c). ✓  
 sc/c Syzygium glandulosum (o-c) ✓  
 sc. Glischidion folinacii (o). ✓  
 sc. Anopterus macleayanus (o-c) ✓  
 C. Schizomeria ovata (o-c) ✓  
 C/sc Ceratopetalum apetala (o-c) ✓  
 sc/c Sloanea australis (o). ✓ *Abrogyllum ornans* (o-c)  
 sc. Trochocarpa laurina (o). ✓ cutting/cracks  
 C/sc Litesia australis (o-vo). ✓  
 sc. Callicoma serratifolia (o-e)  
 sc. Ficus ceranota (o). ✓  
 C/sc Backhousia myrtifolia (o-c) Riparia. ✓  
 C/sc Acmena smithii (o) var. minor (o). ✓  
 C. Cryptocarya glaucescens (o). ;  
 >sc. Cryptocarya mollis (o-c). ✓  
 C. Dipllothrix australis (o) ✓  
 C. Elaeocarpus grandis (o) Riparia. small tree specimen in water circle.  
 sc/c Rhodamnia rubescens (o). ✓ small tree specimen in water circle.  
 C Doryphora sanafra (o) ✓  
 C Grevillea leichhardtiana (vo) ✓  
 sc/c Baldchia triphylla (o). ✓  
 sc. Aleurocanthus subcinerans (o). ✓  
 C Toona ciliata (vo). ✓  
 sc/c Hymenosporum flavum (vo). ✓  
 C/sc Endiandra muelleri ✓  
 C/sc Daphnandra St.A. (o- ) ✓  
 Wilkiea huegeliana (o-c). ✓  
 Crotalaria verrucans (o). ✓  
 Dioscorea transversa (o). ✓  
 Asplenium polyodon (o). ✓  
 C. Melia azederach var. amara (o-c). ✓  
 Blechnum petersenii (o-c) creeks. ✓  
 Tasmania insipida (o-c). ✓  
 Randia benthamiana (o). ✓
- ± Lophostoma Ft. 33  
 ± TWD. / B.G. Ft. 47. Rob. Kooyman 1/97.
- Chlorostomus paniculus (o-o). ✓  
 Tabernaemontana pallida (o). ✓  
 Cordyline stricta (o-c). ✓  
 Palmeria scandens (o) ✓  
 Cissus hypoglauca (o-c) ✓  
 C. antarctica (o-c) ✓  
 Rhipogonum elatum (o). ✓  
 Platycerium superbum (o)  
 P. bifurcatum (o-c)  
 Dendrobium gracilicaule (o)  
 D. speciosum (o)  
 D. lignigerae (o).  
 Bulbophyllum engelmannii (o)  
 Cyperis tetraphyllum (o).  
 Lardizabala decomposita (o-c).  
 Blechnum cartilaginum (o-c).  
 Rawewerhelia leichhardtiae (o-c).  
 Adiantum formosum (o)  
 Sticherus sp. flattulata (o-c) near cracks.  
 Cyathea australis (o).  
 Smilax glyciphylla (o).  
 Marsdenia rostata (o)  
 Stephanotis japonica var. discolor (o).  
 Cordyline petiolaris (o).  
 Doodia australis (o-c).  
 Lomandra longifolia (o-c)  
 L. hystrix (c) cracks...? chock.  
 Calochlaena triplicata (o-c) near cracks/trees.  
 - Lobelia sp. trigonocaulis (o-c).  
 Elliptostema reticulata (o)  
 E. stipata (o) vo.  
 (large-leaved plant). near creek  
 Peltia falcata (o-c) Lipsia swansonii (R-o) on rock  
 strap fern - i.d. specimen with sporangia...  
 Vitis elongata (o-?)  
 Cyathea cooperi (o) near cracks.  
 Asplenium australasicum (o).  
 Linospadix monostachya (o-c).  
 Arthropodium sp. teretiforme (o-c).  
 Loxogramme marginata (o- )  
 Pteris umbrosa (o).  
 Arthropodium beddieri (o) - rocks.

- R.F. (cont'd). EWIN GARD SF. comp. 671  
 List 5. (cont'd)  
 Rob. Keayment  
 1/17.
- + *Lophostemon confertus*  
 sc/c *Quintinia verdonii* (o).  
 sc/c *Scolepias braunii* (o-).  
 c/c *Diospyros pentamera* (o)-vo.  
 C. *Sloanea wooltsii* (o-R).  
 C. *Dendrocnide excelsa* (o).  
 C/c *Syzygium australe* (o) creek.  
 C *Cryptocarya erythrocycla* (o-vo).  
 C/c *Cryptocarya obovata* (o).  
 C *Ficus watkinsiana* (vo).  
 sc/c *Capparis arborea* (vo).  
 sc. *Cleistanthus cunninghamiae* (o-c).  
 sc. *Omalanthus populifolius* (o-a).  
 sc. *Dendrocnide photinophylla* (o).  
 C. *Ehretia acuminata* (vo).  
 sc. *Pannaria cunninghamiae* (o-c).  
 & *Syzygium coriaceum* (o-vo).  
 & S. *crozieri* (o).  
 C/c *Dysosmaea mollissimum* (vo).  
 C/c D. *fraserianum* (vo).  
 C/c *Cinnamomum oliverii* (o).  
*Eupatorium bennettii* (2).  
 sc. *Acradenia euodiformis* (o-c) <sup>nestles higher alt. near gully</sup>.  
 C/c *Archontophoenix cunninghamiae* (R-o).  
 sc/c *Melicope micrococca* (vo).  
 C *Citronella moorei* (2-vo).  
 C *Lophostemon confertus* ( $\pm$  - vc.).  
 C/c *Allangium villosum* (o-vo).  
 sc. *Sarcococca simplicifolia* (R).  
 C/c *Euroschium falcatum* (o).  
 sc. *Pacaridendron pruinatum* (vo-a).  
 sc. *Drypetes austrocaledonica* (R-vo).  
 sc. *Polyosma cunninghamii* (o).  
 sc/c. *Endiandra viridis* (2).  
 & *Acronychia oblongifolia* (o-vo).  
 sc. *Syzygium oleosum* (o-).  
 C/c. J. *francisii* (vo-).  
 Alysia swinhonis (vo). narrow-leaved fern.
- Dicrania brownii (vo).  
 Alloxylon brisbanense (o).  
 Pyrenia confusa (o).  
 P. superba (o).  
 Peperomia sp. tetraphyllum (o-a) <sup>robinia</sup> <sub>spicy</sub>  
 Marinda jasminoides (o).  
 Comandina cyanea (o-).  
 chick - *Anisotoma biglandulosa* (o) creek.  
 Pollichia crispata (o-c). <sup>was seen</sup>  
 Parsonsia fulva (o-c).  
 Tetragynia nitens (o).  
 Hydrocotyle (pedicellata) (o).  
 Cephaelanthus cephalobotrys (o-c).  
 Pseudosassafras variegata (o-c).  
 Makilia scandens (o).  
 Cayratia leucocarpa (o).  
 Parsonsia sp. (hairy).  
 Embelia australiana (o).  
 Legnephora moorei (o).  
 \*? Marsdenia sp. aff. liukae (R) <sup>- no flower</sup> <sub>not confirmed</sub>.  
 Microseris scandens (o).  
 Austrostreblia bladensis (o).  
 Alpinia caerulea (vo).  
 Geitonoplesium cymosum (o).  
 Melodinus australis (o-c).  
 Adicidium hispidulum (vo).  
 Bulbophyllum schillerianum (o).  
 Peperomia leptostachya (o).  
 Peltia falcata (o).  
 Diplazium palmatum (R).  
 Zehneria cunninghamii (o-vo).  
 Parsonsia straminea (o-).  
 Ripogonum elongatum (o-c).  
 R. album (vo).
- some
- \* High alt. areas of Comp. 684 have patches of vine forest  
 and low 'horizontal' (or flamin) vine forest with  
 Acradenia euodiformis and vines (Cissus sp., Parsonsia etc).

IBK/66. EWINGAR SF. comp. 671.  
Ft. 62a/b.

ROB. Kooyman.  
1/97.

- c. Eucalyptus siderophloia (c) - vc.  
c. E. propinqua (c - vo)  
c. E. acmenoides (o - c)  
c. E. umbra (o)  
c. E. microcarpa (o - c)  
c. E. intermedia (o) - c  
c. E. laevopinnia (R - o).  
subcordata  
c/sc. Amyphora sp! .. (R).  
check \*.  
C. E. spiss. (untr. ?) (c) - vo.  
sc. Allocasuarina torulosa (o - vc).  
sc. Trochocarpa laurina (o).  
sc. Persoonia strabonis (o - c)  
Maytenus sp. bilocularis (o - c).  
predy Fabaceae : Oxylobium sp. ilicifolium (o - c)  
sc. Acacia maderii (o).  
Seringia (check) arborea (R - o).  
Lemnaceae juniperina (o)  
Acacia sp. aff. fimbriata (o).  
Acrotrophe latifolia (vo).  
Leptospermum sp. 10. specimen polygalifolium (o).  
Goodeniaceae: Goodenia opaca (c).  
Hybanthus sp. stellatus (H. encarpans subsp. stellarioides) (o - c).  
Senecio sp. amygdalifolium (vo) stellarioides (o - c).  
Solanum dasyrrhynchum (o). check...  
Pomelaria sp. aff. argyrophylla (o - vo).  
Cyathidium sp. suave (vo).  
Juncus sp. - collected specimen.. continuous (R - o).  
Hovea prostrata (o - R). check sp. longifolia.  
Persoonia sp. (coriacea) (o - ).  
Lomandra longifolia (o)  
Dermodium rhizidophyllum (o)  
Baeckea densifolia (vo - c). ←  
Centaurium sp. adnatum (R - ) check..

- Lagenifera stipitata (o).  
Hibbertia aspera (o - )  
H. dentata (o).  
H. obtusifolia (var)? (o).  
Lepidosperma sp. agg. laterale (R)  
Poa labillardieri var. lab. (vc - c).  
Macrozamia fawcettii (o - c)  
Glycine clandestina (o - c)  
Desmodium oblongifolium (o).  
Endlicheria latifolia (o).  
Psychotria lanigera (o).  
Kennechia subcordata (o).  
Diarella canescens (o).  
Hibbertia scandens (o).  
Indigofera australis (o - c).  
Dendroseris acanthum (vc) (o).  
Braynea oblongifolia (o).  
Gymnostachys anceps (o).  
Polyscias sandwicensis (vo).  
Olearia nerostii (o).  
? Tylophora paniculata (R) ~ Mardonie sp. specimen too small!  
Pithecellobium revolutum (c).  
Plectranthus perfoliatus (o).  
Rapanea variabilis (vo).  
Tripladenia cunninghamii (vo).  
Rubus [hillii (small fern)] (o - c).  
- Lomandra sp. (multi-blade. (o - c).  
- lower slope sometimes caninae.  
Pseudanthemum variabile (o).  
Haloragaceae : Goniocarpus sp. (c).  
Goniocarpus humilis (o).  
Viola sp. hederae var.? (o).  
Goniocarpus oreophilum (o).  
Bulbophyllum schillerianum (R) ~ Trochocarpa.  
Pomaderris sp. aff. argyrophylla (o - c).  
Baeckea sp. (vo - c). Step-climax.  
Hibbertia sp. (specimen collected) ... villosa (?) (R - o).  
? Ophioglossum sp.  
Sorghum leiocladum (o - c).

ann. 671, 673,

- Ft. 53 - *Lophorteman confertus* .  
(dominant)

list 7. Rob. Kooyman  
1/97.

(see RF sample ± *Lophorteman*.)

- C. *Lophorteman confertus* (vc)  
C. *Encalyptes schizina* (o-R)  
C. E. *microcarpa* (vo-R).  
sc. *Melicope micrococca* (vo-2).  
sc. *Livistona australis* (o-vc).  
sc. *Cryptocarya glaucescens* (o)  
*Psychotria lanceoloides* (o-c).  
*Rapanea variabilis* (o)  
sc. *Neolitsea dealbata* (o).  
sc. *Canthium coprosmoides* (o).  
sc. *Diospyros austrobaileya* (o-c).  
*Wilkiea huveiana* (o-c).  
sc. *Elaeodendron australe* (o).  
sc. *Sarcococca simplicifolia* (o).  
sc. *Cryptocarya micrantha* (o).  
sc. *Deshamia celestroides* (o- )  
sc. *Syzygium glandulosum* (o).  
sc. *Hedyosmum ovatifolium* (vo).  
*Persoonia oleoides* (o).  
sc. *Ficus carica* (o).  
sc. *Grewia semiglauca* (vo).  
*Euryaphys latifolium* (o-vo).  
sc. *Euroschinus falcatus* (o-vo)  
*Polyscias semibucifolius* (o).  
sc. *Coldenia paniculata* (vo-o).

- then mixes up slope with Ft. 47 &/or

- down slope intergrades with rainforest in gully lines.

... higher alt. *Endiandra sieberi* (vo-o).

- Croton verreauxii* (o)  
*Cryptocarya rigida* (o)  
*Cardioglossa petiolaris* (o)  
C. *strita* (o-c).  
*Citrularia paniciflora* (o-c).  
*Doodia aerea* (c)  
*Asplenium australasicum* (o).  
*Dendrobium cerasinum* (o).  
*Lacistema decomposita* (vo-o).  
*Embothrium australasicum* (o)  
*Calostoma subspicatum* (o)  
*Cissus hypoglauca* (o)  
C. *arctica* (o)  
*Tetragynia nitens* (vo).  
*Cyperus* sp. *tetraphyllus* (o-c) C. sp. ? chaotic other spp.  
*Blechnum cartilagineum* (o-vc)  
*Rubus moorei* (vo-o).  
*Dianella caerulea* (o-c).  
*Smilax austrobaileya* (o)  
S. *glaucocephala* (vo).  
*Parsinia straminea* (o).  
*Calanthe triplinota* (o).  
A *dactylis* (woon bladd-tail) *fornicatum* (o).  
*Tripladenia corymbosa* (o).  
*Alpinia caerulea* (o).  
*Cephaelidion cephaelidion* (o).  
*Dictymia brownii* (o).  
Bulbostylis schilleriana (vo)  
Ft. 62 (c/L). *Sarcopetalum harveyanum* (vo).

Ewinga S.F. Ft. 47      comp. 684. (drier ridge top sample).  
 - below boulders on main ridge.      TWD/B.G. (sedge + shrubs).  
 - running into G.G./10K. (drier part of ridge).      Ros. Kooyman  
 2/97.

- c. *Encalyptos microcarys* (o-c)
- c. E.      *saligna* (o-)
- c. E.      *acuminoides* (vo)
- c. E.      *siderophyllum* (o-c) drier ridge areas.
- c. E.      *propinquum* (o-vo) "
- c. E.      *intermedium* (o)
- c. E.      sp. collected (erect/rain on capsules).  
*stringy bark* ... - *E. laevopinna* (vo).
- c. *Lephidium confertus* (o-vo) down slope more common.
- sc. *Allocasuarina torulosa* (c).
- sc. *Acacia maidenii* (o).
- sc. *Trochocarpa laurina* (o-c)
- sc. *Glochidion ferdinandii* (o).
- sc. *Livistona australis* (vo- ).
- sc. *Cryptocarya microneura* (o).
- sc. *Archisholodendron beckleri* (o).
- sc. *Pittosporum undulatum* (vo)
- sc. *Litsea reticulata* (z).
- sc. *Cryptocarya rigida* (o).
- sc. *Acacia* sp. *Pratinthianum* (o). vo.  
*Pithecellobium sandwicense* (vo-o).
- sc. *Euroschinus falcatus* (vo).
- Seringia arborea* (o-vo) chub. specimen.
- Citrullus lanatus* (vo).
- sc. *Rhodamnia rubescens* (vo).
- c. *Guira scandiglauca* (vo).

- *Acacia melanoxylon* (o).
- Sorghum leiocladum* (o-c).
- Leucopogon lanceolatus* (o-vo).
- Rubus parvifolius* (o).
- Seringia arborea* (vo-c).
- Pratinthia purpurea* (o).
- Vitis antarctica* (o).
- Parsania straminea* (o-c).
- Calochlaena dubia* (o-c).
- Entoloma marginatum/strictum* o.
- Bulbophyllum orignum* (o- ).
- Aconis acoma* (vo) 3RC-
- downslope merge into Ft. 53, and for RF types.

- (black stem, hairy)  
*Adiantum* sp. *farinaceum* & (o).
- Shrub - *Lomandra* sp. *bogotiana*. (o-c)
- Glycine tomentacea* (vo). -.
- Poa labillardieri* (c)
- P.o. sp. *sibiriana* (o).
- Hibbertia scandens* (o)
- H. *aspera* (o)
- Tripladenia cunninghamii* (o).
- Hibbertia dentata* (o).
- Macrozamia fraseri* (o)
- Pterospermum* <sup>media</sup> (alternate) (o-c).
- Dianella caerulea* (o-c).
- Imperata cylindrica* (c).  
var. major
- Bryonia edulis* (o- )
- Viola betonicifolia* (o);
- Lomandra spicata* (o-c)
- collected specimen I.D. *Maytenus* sp. *bilocularis* ✓ (bronze leaf).  
10-c).
- Olearia nerostii* (o).
- Solanum densivestitum* (o-c).
- Psychotria lanigera* (o).
- Cardyline stricta* (o- )
- Cissus hypoglauca* (o).
- Senecio* sp. *americifolius* (red petals, stem)  
specimen corolla
- Platycerium bifurcatum* (o)
- Smilax australis* (o).
- Rapanea variebilis* (vo).
- Gymnostachys acerpes* (o-vo).
- Rubus hillii* (o-c)
- R. *coriifolius* (o).
- Euryagne latifolia* (o).
- Celastrus subspinosus* (vo)
- Glycine clandestina* (o).
- Desmodium* sp. (*rhiztidofolium*) (o).
- Caryota* *crenata* (vol).
- Phyllanthus* sp. *gumii* (o).
- Indigofera australis* (o).
- Dendrobium speciosum* (o)
- D. *gracile* (o)
- D. *caeruleum* (o-c).

W-NW boundary - CMPT. 684 WASHPOON S.F.

NEBBT. Ridge from Puzzle Rd up Mt. Billimbra.  
ft. 163.

Robert Keayman.

2/97.

- C. Eucalyptus camphorata (c-vc).  
C. E. laevigata (o).  
C. E. intermedia (o-vo)  
C. E. microcarpa (vo+o).  
C. E. saligna (vo-o) ] moister?  
sc. Triteriopsis collina (o-c)  
sc. Allocasuarina torulosa (o)  
sc. Acacia irrorata var. irrorata. (o).  
Elaeocarpus reticulatus (o-c)  
Leucopanax lanceolatus (c+vc)  
Archidendron lebbecki (o-vo).  
Lomatia siliculosia (c-)  
Xanthorrhoea glauca (o-c).  
Persoonia media (o).  
  
Oxylobium illicifolium (o-c).  
Trochocarpa laurina (o-c).  
Leucopanax juniperina (o-vo).  
Solanum densiverticatum (o-vo).  
Cryptocarya rigidia (o).  
Psychotria loniceroides (o).  
Beaumontia densipolia (o).  
sc. Acacia melanoxylon (vo-o).  
Olearia nerostii (o-vo).  
Maytenus biltziana (r-o).  
  
Cissus antarctica (vo). Cyathia leichhardtii (o).  
Sobnum sp. pingue (z). Rhodamnia rubescens (vo).  
Diospyros austro-africana (o-).  
Cissus hypoglauca (o)  
Livistona australis (vo-z).  
Cryptocarya micrantha (o-vo).  
  
\* major dig - Potaro ...  
Barbadoes ... ?
- (dry ridge sample)  
....
- Similar australis (vo).  
Similar strobaphylla (vo)  
Blechnum cartilaginum (o-vo).  
Doodia aerea (o-).  
Pteris exilis (o-vo)  
Calochlaena dubia (c+vc).  
Lindernia sp. microphylla. (o- ) <sup>road changes</sup>
- Dianella caerulea var. (o).  
Grevillea aerea (o-c)  
G. metacarpa (o).  
Macrorhynchia fawcettii (vo).  
Lomandra longifolia (o).  
Entoria marginata (o-vo).  
Christella dentata (r-vo).  
Poa labillardierei var. labill. (vo).  
Goodia latifolia (vo).  
  
- - - - - increasing moisture  
moister: area: -  
Hibbertia scandens (o).  
Calothamnus paniculatus (o-vo).  
Platycerium bifurcatum (Trochocarpa dollmara).  
Pyronia rupetris (o).  
Pittosporum undulatum (o-vo).  
Alpinia caerulea (o).  
Polyscias elegans (vo).  
Glochidion ferrugineum (o-vo).  
"Leptospermum confertum (o).  
Acronychia oblongifolia (vo).  
sc. Toona ciliata (vo).  
sc. Guisea semiglauca (o).  
Synoum glandulosum (o).  
Citrularia paniculata (o-).  
Paracarpia paracarpa (o-vo).  
Sticherus flabellatus (R-o). - scales / cuttings / some super.  
Linospadix monostachys (z).  
Diplazium australe (R-o).  
Neolitsea dealbata (vo).  
Rapanea variabilis (vo). → then all R.F.