

Jim Lane's Field Notebooks Index Contd.

(Revised Index of 11/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1992 on)_15	15	(29-04-95 / 17-05-95)
JL_(1992 on)_16	16	(18-05-95 / 18-12-95)
JL_(1992 on)_16A	16A	(08-11-95 / 11-11-95)
JL_(1992 on)_17	17	(21-12-95 / 19-06-96)
JL_(1992 on)_18	18	(19-06-96 / 03-08-96)
JL_(1992 on)_19	19	(23-09-96 / Mar 97)
JL_(1992 on)_20	20	(Mar 97 / Apr 97)
JL_(1992 on)_21	21	(16-04-97 / 12-06-97)
JL_(1992 on)_22	22	(12-06-97 / Oct 97)
JL_(1992 on)_23	23	(Oct 97 / Dec 97)
JL_(1992 on)_24	24	(Dec 97 / Jan 98)
JL_(1992 on)_25	25	(10-01-98 / 22-01-98)
JL_(1992 on)_26	26	(22-01-98 / 13-02-98)

TO BE CONTINUED

Jim Lane's Field Notebooks Index

(Revised Index of 11/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1969-70)_1	'1969-70'	(Nov 70 / Jan 70)
JL_(1970-84)_1	1970-71	(6-12-70 / 17-2-71)
JL_(1970-84)_2	1971	(08-03-71 / 21/01/72)
JL_(1970-84)_3	1972/73	(24-01-72 / 15-02-73)
JL_(1970-84)_4	1973	(05-03-73 / 15-11-73)
JL_(1970-84)_5	1973-74	(12-04-73 / 11-06-74)
JL_(1970-84)_6	1973-74	(03-12-73 / 28-03-74)
JL_(1970-84)_7	1974-76	(03-05-74 / 24-10-75)
JL_(1970-84)_8	1974	(26-05-74 / 18-11-74)
JL_(1970-84)_9	1974-76	(28-08-74 / 02-10-76)
JL_(1970-84)_10	1974-76	(21-12-74 / 25-01-75)
JL_(1970-84)_11	1976	(25-10-76 / 27-11-76)
JL_(1970-84)_12	1977-78	(16-10-77 / 21-03-78)
JL_(1970-84)_13	1977-78	(24-10-77 / 19-04-78)
JL_(1970-84)_14	Oct 78-Apr 79	(06-10-78 / 14-04-79)
JL_(1970-84)_15	1979 (Apr-Sep)	(16-04-79 / 19-09-79)
JL_(1970-84)_16	1979-80	(26-09-79 / 23-05-80)
JL_(1970-84)_17	1980	(14-05-80 / 07-11-80)

Jim Lane's Field Notebooks Index Contd.

(Revised Index of 11/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1970-84)_17A	1980-81	(01-12-80 / 15-11-81)
JL_(1970-84)_18	1982-83	(13-03-82 / 18-03-83)
JL_(1970-84)_19	1984	(15-03-84 / 16-03-84)
JL_(1970-84)_20	1984	(20-09-84 / 10-10-84)
JL_(1992 on)_1	1	(03-11-92 / 03-08-93)
JL_(1992 on)_2	2	(04-08-93 / 18-09-93)
JL_(1992 on)_3	3	(18-09-93 / 26-10-93)
JL_(1992 on)_4	4	(27-10-93 / Dec-93)
JL_(1992 on)_5	5	(14-12-93 / 22-12-93)
JL_(1992 on)_6	6	(23-12-93 / 06-01-94)
JL_(1992 on)_7	7	(18-01-94 / 18-03-94)
JL_(1992 on)_8	8	(21-05-94 / 08-07-94)
JL_(1992 on)_9	9	(03-07-94 / 02-09-94)
JL_(1992 on)_10	10	(02-09-94 / 17-11-94)
JL_(1992 on)_11	11	(22-11-94 / 9-03-95)
JL_(1992 on)_12	12	Jan 95 + (15-03-95 / 01-04-95)
JL_(1992 on)_13	13	(02-04-95 / 07-04-95)
JL_(1992 on)_14	14	(07-04-95 / 29-04-95)

J. LANE
CALM
Don

Nº 22



Yehing

12 June 97 → Oct 97

ESSELTE

12/8/87 (1)

0821 hrs - Yam Creek under
"wherry" type insects
on the water

Leaves of "charnons" type "wags"
on underside of *Acacia neurocyge*'s
leaves over (1.8m) flowing
creek. Took photos.

Halcyon type sharing some leaves
Photos of masses of *Halcyon* on
A. neurocyge leaf in centre of
creek at height of 1.2m.

Tim Wilby believes water lilies
in the Kumbury are an indicator of
permanent flows.

Left Yam Creek at 0842 - walked
back to vehicle. The Yam
uses *Dioscorea bulbifera*. Generally
found in vine thickets - not

(2)

12/6/97

typically found in watercourses.

120.5 km 0922 hrs.

Cymbidium conchocentrum
Tree orchid - 2 photos

- very good specimen
Mastotermes formicis hollow

cut the tree + orchid roots and
down inside the hollow. The tree

was ~~the~~ *Corymbia sampieri*

(all the bloodwoods have been
transferred from *Eucalyptus* to
Corymbia)

17° 17' 54" S

122° 26' 08" E

(4)

12/6/87 Contd

26.9.

Taylor's Lagoon 1232 hrs

Handbird - 28 +

Black Duck - ^{low} tens

Grey Duck - tens

Little Pied Cormorant - c10

Darter - 1

counted 4?
estimated
c60

Grey Grebe - + juveniles (many)
+ chicks (1+)

Coot - low tens

Barge - 1

Wf. Heron - 2

Whistling Bird - 1

Little Wattlebird - several

Tree Martin - several

12/6/82 cont. (5)

Pink Shlt - 2

Sacred Ibis - 4

Straw-necked Ibis - 1

Pacific Heron - 1 flew overhead.

Mudflat heard.

Daguerflies - lots - "reds" - "grays"

Emergent grass in Taylor's Lagoon
is *Pseudanethis spinescens*

("Spring Mud Grass")

The ducks & geese were mainly within
it. Presumably the geese use
it for nesting.

(6)

12/6/87 Contd.

Aeriel Enterprises

Lesson 1 206 down off?

10am rather than 7.30-8.00am.

~~9181 1132 Keren~~
~~Aeriel Enterprises~~

Mada Station 914 730.

Derby Air Services

210 available till 11am at \$240/hr

Can't open window (bends hinges)

(Could do so in their 206 but not available)

File 8.61m at 0615 hrs

1.59m 1303 hrs

8.30m 1827 hrs.

12/6/97 Cont'd (7)

Derby Boob Inn
911044

~~11/15/97~~ Fixed Wing "337"
High Wing 73 propped

~~400~~ 300 lbs

Time - 7:30 to 8 am

People - 3

Land?

Starting Claps?

Andrew + Karen
"Aerial Enterprises"

91911132

Thurs night was at Boob Hotel
in Derby.

(6)

12/6/87 Contd

Aeriel Enterprises

Lease
7 206 down off?

10am rather than 7.30-8.00am.

~~9181 1132 Keren~~
~~Aeriel Enterprises~~

Moda Station 914 730.

Derby Air Services

210 available till 11am at \$240/hr

Can't open window (bends hinges)

(Could do so in their 206 but not available)

File

8.61 m at 0615 hrs

1.59 m 1303 hrs

8.30 m 1827 hrs.

12/6/97 Contd. (7)

Derby Boob Inn

911044

~~11/15/97~~ Fixed Wing 337
High Wing 337
passenger

* ~~11/15/97~~ 300 1hr

Time - 7:30 to 8am

People - 3

Land?

Staring Clays?

Andrew + Karen

" Aerial Enterprises "

91 91 1132

Thurs night was at Boob Hotel
in Derby.

(8)

rad 12/6/97

TSS Helicopter

91 915034

" Ring hotline after 8am
or leave message "

Start: Fri 13/6/97

Arrival - Cessna (?) 337 (Push-pull)
high wing aircraft from Aerod. Enderby
Pilot Richard - ... (Alpha Echo Victor)

Took off at 0821 hrs

Landed at 0933 hrs (approx)

Took photos of Doctor Creek
on the way to Big Springs. Then
Big (+ small) Springs; then Butler
Lake.

(9)

13/6/87 Wed

Tim Walling was able to identify the following during the flight.

① Big Spring

Sesbania formosa

Pendanus spiralis

~~Microcarpia~~ *Microcarpia* ~~terminalis~~ *terminalis*

(was *Sesbania*)

Mel. caespitosa

Timonius timon

Purple leaf - autumn color
- they are about to defoliate.

② Small spring here:

Sesbania

Pendanus

and one had *Microcarpia terminalis*
also appeared to be *Schoenoplectus*
here.

(10)

13/6/87 Contd.

There were a lot of cattle in
the general area (Mule Station
is heavily stocked).

At Butler Lake there were birds
mainly among the emergent vegetation
on the south (?) side of the lake.

The water was a turbid grey.
There was grass emergent around
much of the lake - likely
to be *Pseudonajas speciosa*,
the same as Taylors Lake (12/6).

On this 1 hr 10 min flight I
used 3 complete rolls of
36 exp 100 ASA Ektachrome (Kodak).

13/6/97 Contd. (11)

Get Derby 3663 1:100,000
for good map of Doctor's Creek

Turnoff Hwy at 490.0 km.

Tim & Gordon did some plant collecting

I saw: Golden-leaved Cisticola

Little Woodswallow

Diamond Dove.

Monarch (call like a "Brrr")

Black Duck.

Pendulous leaved.

Harbours Duck

Little Wren

Sweet Vine *Tinospora smillicana*

Just above roots 3m from several
branches in wet season.

(12)

Fri 13/6/97

Ab. 2 km (1140 hrs)

Contd

Rufous Songbirds ♀

1300 hrs.

$17^{\circ} 24' 36''$

$123^{\circ} 42' 04''$

Lebe Canyon

1550 hrs. Walk 1.5 km in

Wg

— beylaric (2 photos)

Nardoo

(1 photo)

— "v. good gear for it"

1605

WFAH — 6

PASS — hundreds

Coot — tens

Ans Grah + chick

Little Canyon Contd 13/6/97 Contd

LPC - 10

Wandering Whistling Duck - c 1000

Cay Peck - hundreds

White-bellied Woodpecker - c 10

Village Wren - c 5

Hardhead - hundreds

Tree Kite

Lophortyx grandis ("harsh")

often forms a very loose cluster

- Grass Warbler nesting in

broken "Teak-like" trees in

February

Tree Martin -

"2 weeks after it
fills up"

~~Tree~~ Murrelet

"a group of birds at times"

Pied-billed Grebe - 1

Restless Flycatcher - 1

(14)

13/6/97 Gmbl

Large Campion Gmbl

Thomas Crow
Piedmont Flycatcher
Marsh Wren

3 Pseudorhynchus spurius
+ small clump of Sesuvium

over most of the lake.

small
A ~~Small~~ Kingfisher
Weaver - 4

Pacific Wren - 2

Tecoma - 1

Thick - R. Plover - 1

~~Chimney Swift~~

Dove - 1

Shoreland Ibis - 1

Lake Compton Contd

(15)

13/6/97

² Red dragonfly.
Grasshopper - 2

Contd

Started walk back at 1643 hrs.

There were at least 2000 ^{ducks} ~~ducks~~

(smaller than)
Hindley's, 1/2 dozen between at Pt
Contant but bigger.

Reelback Plains Station

Mr David Thom - Town
Constant Rod Illingworth - Lodd

Compton Lake is on the stock route.
(not pastoral lease)

Cory-Crowned Babbler

Back to vehicle at 1704 hrs -

(16)

Lebe Canyon Cattle 13/6/87.

935 826 is Glen Gorrasi's
home phone number.

698.9 km. - Turnoff.

701.8 Deep Creek Bridge

⇒ 2.9 E of the Deep
Creek Bridge

Turnoff for Lebe Canyon.

723.5 was Great Nth Hwy
Turnoff to Port Hedland.

⇒ Lebe Canyon Turnoff is $\begin{array}{r} 723.5 \\ 698.9 \\ \hline 24.6 \end{array}$

is 24.6 km from
the Port Hedland Turnoff.

Gordon Gribben
↓ speeds

13/6/97

(17)

19629 end of trip
(Arrived at BDO at 1810 hrs)

Jecene metres BDO list → 277
birds

Sat 14/6/97

"apoyon" — name derived
from the name of a real —
or mythological person.

(18)

Fri 13



Su 14	0351	6.06
	0953	3.25
	1612	5.69
	2222	3.26

Su 15	0459	5.75
	1128	3.53
	1742	5.42

} diff = 1.89 m

Mo 16	0011	3.47
	0630	5.75
	1321	3.27
	1922	5.56

} 2.48 m diff. Smallest tide
diff during period 14-19/6

Tu 17	0141	3.25
	0756	6.10
	1429	2.70
	2034	6.00

} 3.40 m diff.
Tides are a little

Wed 18	0244	2.80
	0850	6.65
	1517	2.05
	2122	6.53

later each day.

Th 19	0333	2.27
	0933	7.23
	1600	1.41
	2203	7.04

23/6

1203 hrs.

Full Moon is Sat 21 June

Highest tide in June '97 is : 8.59 m

Lowest tide in " " is : 0.18 m

(diff is 8.41 m,
in 6 hrs 37 min)

(23/6
1840 hrs)

Post
13th
June

Pick up boat. ^{can} Herbert + Hapton Gr
Tim Welling 136 Herbert St (19)
BP Breckenridge Service Stn.
Clemson?

Ry Road - Guy - Water Road
- men Rd into LSA

- fill up tank - gas
- collected standard.

CPM - G. P. (BRO) (N^o 187³)
Here on account with

- set up this morning

- turn right to go to Herbert
Rd, Herbert is 2nd
on back on left -

- Black light - cast of red.
Ted - + 1 by Cole

(20)

Grants Work

Ph 600 for Observatory

Sun 15 June

Dinner will be at 6:30 pm.

Muddy boots at airport (?)

Photos of mudholes taken on mud.

Logbook UTM 8012260

Offset +08:00

"AGD 84" — set to

Lat Long (~~offset~~)

(Decimal Minutes)

I set it to "Ashin Geom '84"

Borneo 17° 58' 122° 14'

End for back + Hancock.

is standard included

plus 1:50 outboard out.

Handheld radio (Kipoko) channel is 11.

TO DO TOMORROW (15/6)

- swap GPS's

- sort sample

TOMORROW — Peter, Lewis + I ^{met} ^{minutes}

- me, Ted, + ^{Lee} Betty in the boat

- we ~~are~~ seine + sort.

- I cook

- D'fest 7-30 → 8.00am

(22)

Need 60 liter fuel.

Take launch from town.

Leave here at 0830 to launch

homework (front) - then we

go to ~~town~~ 880; get but

take to town; launch.

Launch at main jetty (follow
over ~~road~~).

Anchor in 0.5 m

Sept is 1201

VMR 650
VHF ch 16
27 MHz Mar ch 88.

PL 96928202

Tablets Boat Rollers

930 + 931

(930) Long ^{1.2 x 220} (wood) \$138.70 + freight.
(931) Short (500 kg) \$69.90 + freight
HD PVC 730 x 250

Steve's Marine + Motor Service

16 ft 40hp Evinrude

Wendy's
Port.

953 Port Drive Browne 6725

Steve + Georgie

Ph (091) 935 775 Fax --- 776.

(25)

17/6/97

Mind stopper is AD131 site

For Tomorrow (18/6)

- Mr. Ron Williams & Colm Keating.
- Meeting at 4 pm.
- Thomas talks to ABC
- Kevin McNamee comes at 7 pm
Drinks +
for dinner (7.30 pm)
- Rollers to be packed up
A. Grant will do.
- Wire cable for winch.
- Batteries -
- Location for boat to anchor.
- get beer from Ben.

(26)

P3 h

58.6

Lat min

19.09

Long min

Now

58.54

19.25

Lat

18.76

(18.25)

TO DO THINGS

- Change bus time to 7:45 am
- Check flight time
- Arrange lift
- Concert — noise — away from BBU

Leave
cannon

Harvest

— safety

— approaching — EFED etc.

Pay BBU — ☒ — ☒ — ☒

Buy gifts

Cash to bank for beer

Cash for car parking

Pack

Send samples

Send samples

pay \$60 for food

pay \$50 for harvest fuel

TO DO THINGS

- Change bomb st to 7.45 am
- Check flight time
- Arrange lift
- Consent — noise — away from ^{SSU}

Loose
cannon

Hovercraft — safety

— approaching — EFIELD etc.

Pay: 800 — ☒ cash — ☒ phone

• Buy gift

• Cash to bank for beer

• Cash for car parking

• Pack

• Sort samples

• mail samples

• pay \$60 for food

• pay \$50 for hovercraft fuel

(28)

Team ~~2~~ 2 / Quok
Rm ~~Quok~~, Ed + me
/ 2 yrs. /
GPS but

Total calls 15-19/6/96 = ~~\$12.00~~
+ \$15.00

Work calls

18/6 Ben CARM	-	\$ 2.00 2.90
18/6 Kn CARM	-	\$ 2.30
18/6 Trone Hospital	-	\$ 0.80
19/6 Ansett	→	<u>\$ 0.40</u>
		<u>\$ 6.40</u>

claim.

Osprey nest on light tower
Bromeliads only 20 ft up

Fri 20/6/97
1.25 pm.

5 Black Swans sitting on
separate nest mound

25 Nests (3 are sleeping
with other standing
or sitting birds)

Shelducks

~~2~~ White-f. Herons

2 Black Ducks

2 Black winged Stilt.

1 adult Australian Hobby.

(30)

4 White f. Clats on sumpire (flooded)

Winstling Rite

1 pr Shoveler

Fished 2.30 pm (20/6)

Vasse Estuary Floodgate gauge
reads +0.45 m at
1627 hrs on Mon 23/6/97.

~~the~~
Water ~~is~~ rushing out
through all bays. (Flap
valves ~~are~~ swung open by
current)

except No 1, which has
stop boards in water
just breasting over top

Don't use this reading
to calibrate dopper as
although flow has been
little or no breeze all
day, the water level
~~here~~ here must be
lowered by the rapid
flow out.

Winnipeg Every floodgate
gauge needs + 0.44 m
at 1637. Location

Mon 23 June '97

Water flowing strongly
out. No wind. Don't
use to calibrate - because
of strong flow out.

(32)

✓ Vorse Estuary floodgate gauge
reads + 0.22 m

at 1253 hrs on Fri

27 June 87.

Water flowing out.

Malbays Creek 1330 hrs

Shelduck — 1 ♂ + 1 ♀

Pacific Black Duck -

Common Teal -

Muskrat Duck

Small Grebe

4 — Darter (not an adult ♂)

Whimbly Kite

Mallard Duck

Little Pied Cormorant.

Secured Ibis

Heard slender tree frog
(*Litoria adelaidensis*) calling while
we were in Malbury Creek.

Ford Rd (Nth end) - 4.20 - 5.14 pm

036 ~~*Micromys melotis*~~

048 ~~*Pseudophloeus frontalis*~~

051 ~~*Comia tenuis*~~

057 ~~*" signatus*~~

070 ~~*" insignifer*~~ ?

074 ~~*" submarginifer*~~

081 ~~*" pseudomarginifer*~~

089 ~~*Ceremonia leai*~~

Heard 3 individuals calling infrequently -
- possibly *Comia insignifer*
(at least)

(34)

28/6/97 : Note that

Muri Benford recorded:

Corvus inornatus

Larus. dorsalis

Larus argentatus

L. minor

in the Ford Rd area during his
1996 survey of fauna of the
area.

Sat 28/6/97 : Ford Rd (N.H.
end) at 8.00 pm.

Typical - loud choruses of

Corvus inornatus (?)

Occasional Larus argentatus

No wind, clear dark sky,

no moon.

(35)

Finished Ford Rd at 8.12 pm

Codes - Time = N,

Weather = N, S, D, P.

Frog activity - BF - Mark (H)

STF - F (H)

8.20 pm - Small savings

on S side of Degner Rd near

Avocet Drive. Heard many

L. adalensis in foreground with

chorus of many *Comia major*

(?) in background. Taped them.

Estuary View Ave, Warramunga

at 8.30 pm - No

frogs heard at all - Finished

at 8.36 pm.

(36)

8.40 pm - Vase Estuary
ploughjet. No frogs
heard on either side of
the ploughjet. Chorus of
Conia majorana (?) hundreds
of meters further to the
south, plus a few *L. clauseni*
indohindensis.

Finished here at 8.50 pm.

Downing estuary ploughjet
at 8.53 pm. Spent
time parked at each end.

Could hear loud chorus of
Conia majorana in distance
(to ^{SE} ~~SW~~) and steady chorus
of *L. clauseni* in far
distance to south end

(37)

A few *L. adalutensis* to S + SE.
No type here either. Left at
9.04 pm.

9.08 pm - Legman Rd
crossing of Malting Creek.
Could hear choruses of *Conus*
erythraea and *L. adalutensis* (in 2 chorusing species)
plus several *L. dorsalis*
all to east of Legman Rd.
None ~~seen~~ recorded as
though they were actually in
at edge of Malting Creek
(which has water). Tagged
them. Finished at 9.18 pm.

(38)

28/6/97 Contd.

~~Some groups to~~
Made v. brief (30 sec)
visits to Lygon Grove &
Osney Dene site (didn't
leave road) - Heard
C. insignifera choruses and
~~also~~ a few *L. adalindensis*
at each.

Stopped at Grocock Glass
from 9.35 - 9.45 pm.
Heard ^{loud} choruses *C. insignifera*
with a few *L. adalindensis*
not far away and
an occasional *L. dorsalis*
in distance.

29/6/97

Jeff Taylor (+ Tim Lohman)

use Fuji 50 ASA

as much as possible

(start with V...)

Jeff also uses Fuji 100 ASA

(start with P...?)

Jeff says (also Tim) don't

project your slides - it

distorts them. Use a

Large instead.

Jeff uses a motorhome

to give 3 shots of each

subject when hand held

and then uses large to

close shot with least

shake (best definition)

(40)

Jeff & Jani use slide holder
sheets in a filing cabinet to
store their slides.

July??

Thurs 3 June 97 : 1.20 -

Photos from clung p. trees
from height
sharp ground.

$$12.4 \text{ m} - 1.0 \text{ m} = 11.4 \text{ m}$$

First 8 (?) photos of Border Gold

$$10.7 \text{ m} - 1 \text{ m} = 9.7 \text{ m}$$

Second 8 (?) = photos of Gold

$$8.1 \text{ m} - 1 \text{ m} = 7.1 \text{ m}$$

Last 8 (?) photos of gold.

$$6.0 \text{ m} - 1 \text{ m} = 5.0 \text{ m}$$

1st of Fuji

$$4.0 \text{ m} - 1 \text{ m} = 3.0 \text{ m}$$

(41)

Vespe Estuary at Ford
Rd Ford 4/7/87

at 1.15 pm - 2.10 pm

Great Egret - 1

Yb Sandpelt - ~~8~~ 8+1

Wt Heron - 4

Sunglen - $\frac{40}{(W)} + \frac{31}{(E)} = 71$

American Grebe - 3

~~Shrikes~~

Black Swans - 2

Aust White Ibis - 2

Little Red Gnat - 1

A few Comic insignifera calling

Shelduck - 2

Butcherbird

Black-shinned Kites - 6

(42)

Wetmore Swallow.

2 Grey Teal

Black Duck.

Pioneer Cove: #2.20 pm.

3 ♂ Shoveler

Coot - 17.

Ans Grebe.

Musk Duck.

Swamp Hen

Skink.

1/6 Spoonbill

Whistling Kite

Black Duck

1 Ferret (from Mullend)

(43)

Dinky Mowahani - 1

Schneider - 7 ♂ + 1 ♀

Little Blue Gnat - 1

Cong Test.

(44)

$$S \rightarrow 55 + 58 + 58 + 69$$

$$= 36 + 40 + 71.$$

Vassa Estuary near mouth
of Abba River (Horn Forest)
Fri 11 July 87
1:40 pm

Black Swan

Shoveller

Grey Teal

Wt Heron

Black Duck

White - f Heron

Pelican

Pink-necked Duck

(45)

Audubon White Ibis

Muskr Duck

Whistling Duck

Yellow-bellied Sapsucker (distance)

Scree Owls

Small goshawk (14h ?)

Crested Flycatcher

Little Red Ant

Finned Sparrow

P. V. Estuary
at Pioneer Cove

Fri 18/7/97

1-20 pm

Coot

Yb Sparrow

Purple Swallow

Black Duck

Shoveler

(46)

Little Grebe

Grey Teal

2 Great Egrets (1 with yellow legs)

Little Black Cormorant

Mink Duck - 1 ♂, 1 ♀

Wardbird - 1

Dexter o'head

Sacred Ibis

~~1~~

Finished 2.10 pm

Sweep on South side of Legman
Rd - 100 m east of Ascent Blvd.

2.20 pm

3 Little Red Gnat

2 Little Grebes

Covt

3 Black Ducks

Prothonotary Warblers

Found 2.40 hrs.

 Mon. 21 July 97 at 1623 hrs.

Counted 51 - (complete count)
 islands exposed (only just
 - all by only 1-3 cm)
 in old bay of Vassar Estuary
 in front of Estuary Vess
 Shore (Winnipeg). It
 is flat calm + sunny -
 has been like this for
 past 1 1/2 weeks!

(48)

Mon 21/7/97 contd.

1631 hrs — Water level
(gauge reading) at Vasee
Estuary floodgate is
exactly $+0.10$ m
(measured with tape).

Water flowing out at a
steady rate.

Boards out of all bags.
Absolutely no wind. Has
been like this all day
and for past $1-1\frac{1}{2}$ weeks!
Great from outflow (which is
not ~~so~~ very strong) this
is a very good measurement
for calibration of loggers

(49)

1642 hr Womung Estuary
flooded ~~large~~ large reeds
~~water~~ + 0.11 m
(measured to nearest 0.01 m)
Boards are out of all bays.
Steady (but not great)
flow out. Flat calm
conditions (see Verse comments)
— good for calibration of logger.

1652 hr. Drove along the
beach to mouth of Womung Estuary.
Water is pouring out at a
great rate. Ebbing estuary
structure in the process.
Full moon was best sight
(+ 1 day).

(50)

Mon 21/7/97 Earth

What are the 2 ^{vertical} big post
at the mouth for? - new.

Tues 22/7/97 - 1024 hrs.

Verse Estuary floodgate gauge
reads + 0.09 m (^{to} nearest
0.01 m). Tide high. Water

level higher on ocean side.
Black water fishing (piscine) in
ground and then ~~flap-gates~~
flap-gates (closed). Light
NE wind blowing.

Leaves worst at ocean end

at 1031 hrs, Womaring estuary

(51)

floodgate gauge reads

4 0.11 m. Water

running in past closed flap
valves. Still light NE
blowing. Fine weather
continues.

1040 hrs - down to mouth
of Lonsdale Inlet. High
tide. ~~Water~~ Water
running into the inlet from
the open mouth. Wind
NE - moderate.

(52)

Swen Lake Tues 22/7/97

NE
side of
fence

0 standing on nests

27 on nests -

27 sitting

92 sitting + 5 = 97

SW
side of
fence

3 standing + 1 = ~~4~~

95 6 = 101

SW
end of
lake

52 sitting

4 standing

56

Sitting

27

97

52

176

Standing

0

4

4

8

Totals

27

101

56

184

(53)

22/7/97

Counted

This count of all swans
on nest made from mound
at N end of lake from
c 1630 - 1645 hrs with
Frank Dayle

Frank Dayle counted
582 swans in lake on
the lake at this time
also 32 unoccupied nests
(including old nests)

Whistling Kites — 3

Meadow Lark — 1

She Wren —

Black Duck —

Wf Chat —

Shoveler —

(54)

Concy Butcherbird — 2
Concy Teal —

Fri 25 July '97

Estuary Duck Dive (Vase
Estuary) — 1 pm — 2 pm
under the saw 1 pr Gyrf.
Cormorants on the water.

Fri 1 August 97.

Winnipeg floodgates gauge
reads + 0.42 m (to nearest 0.01 m)
at 1231 hrs. (measured by
dipper).

light SE breeze. Fine.
Gentle flow out than the

(54)

Grey Duckbird — 2
Grey Teal —

Fri 25 July '97

Estuary Duck Duck (Vase
Estuary) — 1 pm — 2 pm
inter alia saw 1 pr Gyf
Cyanide on the water.

Fri 1 August 97.

Warrup floodgate gauge
reads + 0.42 m (to nearest 0.01 m)
at 1231 hrs. (measured by
dip).

light SE breeze. Fine.
gentle flow out than the

(56)

Vassar Estuary at
Webster Rd. Start
at 1310 hr. 1/8/97.

Newbury Wren

H. h. Gnat

Black Swan

Muskrat Duck.

Sheldrake - 1 juv.

& Great Cormorant.

Black Duck

Finish 1030 pm.

Melbury Ck either side
of Legman Rd. 1/8/97
Start 1.38 pm.

(57)

1/8/97 Contd

Shelduck.

Wth Heron

Black Duck

Wood Duck.

Little Red Cormorant.

Shoveler - 1 pr.

- The Black Duck nested (copied here)
on the water

Grey Teal.

Black Swan

Great Egret -

4 White Ibis

American Grebe.

2 Banded
Legwing with 2 small chicks.

1 Whiskered Wigeon

3 Black-P Phoebe.

Finish 3.00 pm.

(57)

1/8/97 Contd

Shelduck.

WPH Heron

Black Duck

Wood Duck.

Little Pied Cormorant.

Shoveler - 1 pr.

- The Black Duck nested (incubated)
on the water

Grey Teal.

Black Swan

Great Egret -

4 White Ibis

American Grebe.

2 Banded
Laguna with 2 small chicks.

1 Whistling Bire

3 Black - P Plover.

Finish 3.00 pm.

(58)

Mon 4 Aug 87

At 4.47 pm the
Horse Estuary floodgate gauge
reads + 0.92 m

All flaps open - water
flowing out. Ocean side
level not substantially
below that of estuary
so water is not raging
out.

Horse Estuary floodgate gauge
reads + 0.91 m
at 1655 hrs.

All flap valves open. Water
flowing out gently as level

59

is only slightly above that
of V ocean side.

Andrew, Claire & Kath

Took photos 1-20 (of Euc 100)
of ~~the~~ Ford Rd area and
Pomarine signs on 4/8/87.

758 521 at Homage string
floodgates at 5:22 pm

At 5:28 pm the water
was flowing over Leyner Rd
from ~~the~~ ^V ~~road~~ ^{road} going into
Homage string to a depth
of 1 cm (measured with
tape). Over the road

(60)

at this depth for distance
of approx 10 metres.

This was at the southernmost
end of the low section of
Lagoon Rd before it meets near
Whimsey Road entrance.

8/8/97

Womarrup Estuary floodgate
+0.32m

at 1250 hrs.

Water flowing out steadily.

Womarrup Estuary 8/8/97
1.20 pm
Quail

Black Swans
B+W Cormorants
Egrets
Mourning Doves
Little Pied Cormorant
Little Black Cormorant
Sheldons
Whistling Kite
small birds
Pheasant
Rb Grebe
Purple Black Doves
Large Pied Cormorant
V2 Shrike
3 Sn Ibis
Yb Sparrow
Grey Teal
S. Y. Heron

(62)

Finished belt at vehicle
at 3.10 pm on 8/8/87.

Fri 5 Sep 97

Pioneer Drive (Verso Run/Esther)

~~1.15~~ 1.15 pm →

2 Pelican

Coot

Pa BB

GTL

Blue-billed Duck

1 pr Heronhead

WR Heron

Litoria adleriensis several calling

- very vocal

Swampy area showing in the clearing

with a hole full of nest material

(greenish in color)

Minor Duck

(64)

Little Black Cormorant

Red

1405 hrs

Shoveler

2 Pink-eared Ducks

2 B.F. Plover.

1 ♂ adult Darter

Drake Merganser

Hydromys crossed the
channel 2.45 pm. "Rat-diver"
"Rat-diver" twice, saw white
tip on tail on both times

(65)

Fri 12 Sep 97

1 pm - 2.50 pm. Wakehurst
group (with me) walked
along dry river bed where it
crosses Malbury Creek.

Marianne Austin, Jenni Jones,
Mandy Ferreira, Brenda Robinson,
Rory Anderson, me + Janet.

Mon 15 Sep 97.

Left Dunblane at 3.10 pm
and drove in Pevers 4WD
to Lake Deris near
Henric Bay.

Arrived at 4.05 pm.

(66)

Lake Davis contd.

Contd.
12/9/97

Depth gauge installed earlier
this year by Jim Clarke
and Jim Payne (DOLA)
read 4.68 meters.

The water level was
3 cm below the top of
the star point I have
been using for several
years to measure the
lake depth.

Took water samples
for salinity, pH and
Total P (unfiltered).

Couldn't prepare a Total
P (filtered) sample
due to lack of filter
paper in box prepared
for me!

(67)

Contd.

Love Davis contd.

12/8/97

While taking samples etc

I could hear:

- ~~several~~ ^{several} *Litoria adelaidensis*

- a few? *Gymnodynastes*
donnelli

- a few? *Litoria moorei*.

and no other frogs.

These records are 100%
certain.

I didn't search for birds
but there were definitely
several Black Ducks at
the far end.

Left at 4.25 pm.

Rang GBR from Heraklion Bay
to have police papers converted
to Albany by Wed AM.

(62)

pH = 7.04 (buffer at 15°C)

pH = 8.77 at 18.5°C

Recalibrated the instrument
(WTW pH 320 with Sentix
97T probe) using
pH 7 and pH 10 buffers

Remeasured Lake Davis water
— pH 8.85 at 18.0°C

Thurs 16 Sep 97

(69)

Leche Jasper

9.70 m at

8.41 pm. Full moon

Cen hear

- Pec-in-can Frog -
- L. tris adelaidensis
- Musk Duck.

Levee W. levee

9.24 pm

Water level is ~~480m~~ ^{44.5} m.

above low point in
tree branch.

water
surface



(70)

Labre Whelan with
herd - Musk Deer
- Grey Seal
- *L. borealis*

Water level read
3.90⁵ m on the
new gauge.

Reached Labre Marmory at 12.30
on Wed 17 Sep

Wed 17 Sep 97

Labre Marmory newly-
installed depth gauge

Lake Mangrove contd.

17/9/97

(71)

reads 6.44 m at
0850 hrs. Water
level at this time was
15 cm above the top
of my water picket.

- Mang Litoria adactylota
heard last night but not
now (0850 hrs).
- 5 Mask Ducks seen
close to camp site.

Last night I heard the low, booming
call of the Ans J. Wren on
far side of lake. No
cattle in this area!

Scanning lake at 1000 hrs
with Leica telescope in bright

(72)

Merrygo Cudd

I saw

- small jacks - 5+1

- Monk Seal - 5

- Great Cresteded Jacks - 1 + 2

No other birds seen or heard

Franklin at 1012 hrs.

Post Harbor Lake old gauge

reads ~~1.045~~ ~~1.045~~

1.0325

at 1240 hrs

New gauge reads 1.045

at 1310 hrs. Little

breeze

direct the tube slowly from
roof of vehicle (at new gauge
site) with telescope + light.
Only 4 birds visible on the
tube. There were ~~many~~
Musk Duck.

The access to the new gauge
is 0.50 km further along
the road (track) than the
access to the old gauge.

Letse Powell

1710 hrs 0.51 m

Are the Tyrpha here domingensis?

(74)

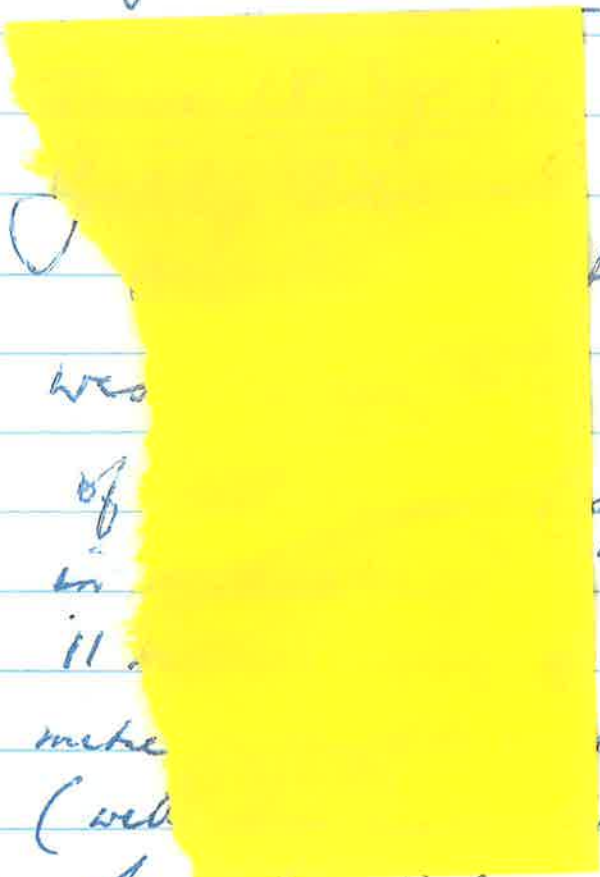
17/3/97 contd.
2

Labre Pleasant Van

- stopped here on way
to Bremer Bay
- From ~ 8:40 pm to 9:30 pm
I heard 5 sp. species of
frogs on Labre Pleasant Van

- (1) - throat book of
L. dorsalis (one only?)
 - (2) - Many *L. tene* *adulteraria*
 - (3) - a few *L. inornata*?
(low growling noise)
 - (4) *Rendellia submarginifera*?
(low squeal)
 - (5) *Rendellia glaucoti*
(squeal in a cell)
-

Camped all night at Peltung River
bridge (arrived c 10.30 pm)



for lunch

was

bottom

of

all photos

in

100 ASA

11

prints

4-5

metre

tree

(well)

al)

Saw Grey Duck, Coot-,
Musk Duck.

No frogs heard!

Melodence + Pine - seedlings
becoming established. all the

Camped all night at Pelting River
bridge (arrived c 10.30 pm)

Thurs 18 Sep 97

Gallbladder Lake at

0940 hrs water level

was 34 cm below bottom

of cut notch (see photos)
in dead stump 100/85/4

11 metres north of 4-5

metre gauge plate on tree

(well above water level)

Saw Grey Duck, Coot,
Musk Duck.

No frogs heard!

Melaleuca + Pine seedlings
becoming established. all the

Camped all night at Pelting River
bridge (arrived c 10.30 pm)

Thurs 18 Sep 97

Gallbladder Lake at

0940 hrs water level

was 34 cm below bottom

of cut notch (see photos)
in dead stump 100 ASIA
points

11 metres north of 4-5

metre gauge plate on tree

(with above water level)

|| Saw Grey Duck, Coot-,
Musk Duck.

No frogs heard!

Melaleuca + Pines - seedlings

becoming established. all the

(76)

very high type of current
water level.

95% of trees in the water are
entirely dead. Those that are
living are only 5% alive.

// Hairy Leaded Grebe
~~Shoveler~~ Shoveler - 1 pair
Little Pied Cormorant!

Red-capped Boats in the dead trees.

Meatle Swamps

depth gauge reads 0.34 m
at 12.55 hr.

Can hear 2 species of
frogs calling steadily
One is *L. sordidus*
The other is the "squeak"

(77)

Sound I heard last night
at Lake Pleasant view
— *Rhinella submarginata*?

Can also hear 1 or 2 small
birds calling from distance
near the page. "Soft wobbling"
sound (like a wobble board).
Rattles crickets? reeds on bottom?

Lake Pleasant View

Arrive 1410 hrs.

Can hear pee-rattle frogs, (C. glauca)
squatch frog (R. submarginata?)
A "chick-chick" frog ??

L. californicus

Muskrat Duck, Swamp

(78)

Also saw c 70 Blackbirds
on the levee.

1 pair of Blue-Swains with 4+
~~small~~ small downy eggs.

4 Mask Duck seen

Clemson Red Wobblers heard.

2 Masked Monarchs

Note that water level was exactly
at the top of the dropper
just near the gauge several
days ago.

Masked Levee

at 1610 hrs the gauge
reads 4.79 m

- highest I've ever seen - 9

1-3 mm.

(79)

Slight bloom of green ^{leaves} -
cellular ^{off} - smell
lots of green scattered thru
water column.

Water is dark brown.

Heard pre-redd-frog &
squeak frog. Also
a Mastomys.

pH 6.8



viewed Mocher from the
main road (high point overlooking
lake) - took 2 photos. (prints)

- saw only 4 small fishes
on whole lake -

Finished 1705 hrs.

(80)

Arrived at Lake Kivunungu
c 11 pm on 18/9/97. Camped
o'night.

Fri 19/9/97
Lake Kivunungu page
needs ~~to~~

O. 32 m at 0840 hrs.

Silver Gulls - 10+

Skualet - 19 + 39 = 58+

Red-capped Plover - 9+

Black Swans - 14 + 2 + 5 + 1 = 22+

Marsh Harrier - 1

1 juv Skualet with 6 class I
or II ducklings.

Lebe Kormung with.

19/9/97 81
contd.

The 1 juv shelducks were feeding
by upending. The ducklings
with them were feeding by diving.

I surveyed the lake from several
points on N + W side.

Definitely no more (probably
less) than c30 Swans, c100
Shelducks, c20 gulls.

No other species out on the water
of the lake.

Impossible to tell how many
Red-capped Plover there are
on few shorebirds (or possibly
other small waders).

Left lake at 0956 hrs.

(82)

Warrump Swamp

Corrival 1038 hrs on 18/9.

Mark Humer - 1

Lyph gauge reads 0.43 m
at 1049 hrs.

A big leech (c 10 cm
long and up to 1 cm wide)
swam past thru' the water
near the gauge.

Frogs calling from the lake
are *L. adalbertsoni* and
a scratch frog (*R. subsericeus*).

Yarrow Swamp

Depth gauge reads ~~1.08~~

1.08 m at 1153 hrs.

~~at least 2~~
~~at least 2~~ Boys Frogs (L. dorsalis)
could be heard calling from the
swamps.

~~The~~ Chorons heard W. 3/4 calling.

The reed (Bramia) appears

to have grown up considerably
within at least 50 m of
the gauge since the last
visit (Nov 96).

Can also hear L. aschmanni
calling from the swamps.

Black Duck heard calling.

no evidence of grass or marsh.

(84)

19/9/97 Contd

1 fringe Swamphen seen at
Larney Swamps -

Lebe Uvriers

- arrived at 12.50

12.50 hrs

Had lunch.

Silver Gull

Muskrat Ducks

Dark small
minnow-like
fish in water.

"Ognet" frog (*R. submarginatus*?)
in marsh of Lebe. Also

L. edithae.

Swamphen heard calling.

1 small cormorant

Left 1.71 on at 1.45 pm

(85)

Poopying Swamp

gauge

Heads 0.61 m at

1441 hrs.

Pee-rattle frogs heard (very distinctive)
also "squeak" frog (R. sordidus?)

T. Birds: Gerys

Just many heard at 1540 hrs

Musk Ducks

Little Red Grouse + 1

Great Crested Grebe - 3

Marsh Harrier - 1

Martins looking over light marsh near
ditchline.

small geese

(86)

Purple Swallow - 1

Tule Lake Lagoon

- Marsh Ducks

- Smith's Gull

- Little Blue Cormorant

- Marsh Wren

- Great Green Gull - 9 +

- Horned Grebe - 3

- Black Duck - 3

Left at 1710 hrs.

(87)

Lebe Minor gauge
reads 1.08 m
at 1740 hrs on 19/9.

Compi's night at Mjimp.

Next day arrived in Bs.
at 10545 hrs.

~~Agave Life.~~

~~offer~~

Life in the Wetlands

Spoonbill Ibis

Egret Duck

Water Beetle Shield Shrimp

Grasshopper Tree Frog (x2)

Dragonfly

Motorbike Frog.

(88)

Sun 21/9/97

Broadwater at 1550 hrs

Marek 1st year

Blue-billed Duck

Coot

Bleak Duck 1 with 12 Claws 11 shaggy
1 pr with 8 "11" "

Goose Teal

Swans + cygnets

Schreibull

Small Grebe

Shorebird - 1 pr.

1st year

Musk Duck

(88)

Sun 21/9/97

Boardwater at 1550 hrs

Meadow Warbler

Blue-bellied Duck

Coot

Bleak Duck / 1 with 12 Claws 11 duckling
1 pr with 8 " 11 "

Coot Teal

Swans & cygnets

Silver-bull

Small Grebe

Shoveler - 1 pr.

1 Harehead

Musk Duck

(89)

Hoary-headed Grebe
Pied-billed Grebe - 3+

Coast Egret

Shelduck

At 1610 hrs the depth
gauge reads 0.94m.

Abbe River Fri 26/9/97

Start 1.20 pm

2 Little Black Cat

Gray Teal

1 W. Grebe Heron.

1 Little Pied Cormorant

Seen 3 frogs: *L. adelsbergensis*,
L. marmorata, *Pec in the-lea frog*.

(90)

1 Whistling White

Vasse Estuary 11:55 pm.

6 Pelicans

Darters

5 of the pelicans have yellow only,
on breast.

1 has yellow on pouch and

bright ^{deep} pink in distal half

of pouch + purple stripe

mid pouch plus purple stripe

at base of pouch.

Yellow plumage on Pelicans.

Shovelers.

1 Yb Scaupbill

(911)

Vassar Estuary

Worcester Cove Fri 3/10/87

1:10 pm.

Bluebellied Duck, Dusky Murrelet

Muske Duck, Coot

Pacific Black

Headhead

(98) White Ibis

Pelican

(90) W. L. Heron

Song Sparrow

Black Black Cormorant

Worm Murret Divers

Vassar Estuary (Fork Rd) LBC

2:10 pm Crested Pigeon Coot, L-PC

10 Shoveler. Black Duck Silver Fox

Whistly Lark Yellow Sparrow

Clay-colored Vireo

Belted Kingfisher

Green Gnat

(92)

TO DO CONTD

• see TO DO page near
front of notebook

Request by (used 96/97)

"Agres N°1 (CSBP)"

"17-7-0"

(93)

TO DO Canada

- copy of Minister's press release re Shantel Reserve Network + Rockwell Bay
- also Gov't comments?

- * • advice for BBO (Chris + Research Centre) re "cannal ethics" criteria.
 - CALM's AEC "criteria"?
 - Universities? (Mike Benford)

91923364
* ✓ fax no. of BBO

(94)

Start
LA

get N^o 29
Oct '96

TO DO

- Arrange to receive "The Skiff"
and "Teller" in Western Bunker

2 issues per year (April + Oct)

- get (buy) "Sea shells of interest" by Fred E. Wells + Clayton W. Bryce
W.A. Museum 1985 / 1986

- told Gordon Graham I would split the
Kms 50:50 - get copy of his log
and give him acct. code.

- an entry ^{for} for ^{books} Books of Doome
who saw it - experienced - when etc.

(95)

Fri 15 Aug 97

Levee bank ~~Woods~~ across

Woods along Estuary at mouth
of Ludlow River

Start 1.15

Shelduck

Swans + cygnets -

3 families of very small downy cygnets on the
water. Possibly 2 more lots of cygnets on

Pheasant

nest. 100+ swans on
nest. There are the

Sn Ibis

very faint cygnets to
be seen.

Egret

Whistling Kite

Shelduck

Mallard Duck

Black Duck

Gray Teal

(95)

Fri 15 Aug 97

Lower bank ~~Woods~~ across

Woods Edge at mouth
of Ludlow River

Start 1.15

Shelduck

Swans: + eggs -

3 families of very small downy eggs on the
water. Possibly 2 more lots of eggs on

Pelican nest. 100+ swans on

Sandpiper nest. Also at the
very first eggs to
hatch.

Eggs

Whistling Kite

Shorebird

Mare's Duck

Black Duck

Gray Teal

(96)

1 pm - Lake

2 small clouds

clouds

small clouds

Grey Tails

2.30 pm

(96)

1 pr. Scaup + Green Lake

with 2 small Chicks I

ducklings

small grebe

Gray Teal

2.30 pm

Wed 20/8/97

5.50 pm

Verse Eling floodgate

Gauge reads - 0.02 m (AHD) !

Water flowing out strongly. Boats only in first bay (S side).

Calm - has been calm all day.

Saw young (small) ^{chrysopester} ~~Hydromys~~ ^{Hydromys} ~~Hydromys~~ ^{Hydromys} cat
with distinct white ^{by} c 1-2 cm long at
end. ^{seen} with stick stuff, from
side to side.

Saw for 5 then 3 sec. ^{Synura} to
have hole at base of post.
I was only 3m away (eye line).

At 6.05 pm ^{Eling pump out} the Horseshoe gauge read - 0.02 m
(also). Water pouring out ~~below~~ all bays.

Wed 20/8/97

5.50 pm

Verse Eding floodgate

Gauge reads - 0.02 m (AHD) !

Water flowing out strongly. Boats only in front bay (S side).

Celene - has been there all day.

Saw young (small) ^{chrysoptera} Hydnorhiza ^{Hydnorhiza} coat with distinct white tip c 1-2 cm long at end. Saw with tail stiff, from side to side.

Saw for 5 then 3 sec. Square to have hole at base of post. I was only 3m away (yeline).

At 6.05 pm ^{Eding floodgate} the Working gauge reads - 0.02 m (also). Water pouring out ~~below~~ all bays.

Fr 10/10/97

Freshwater swamps near Avocat Boulevard,
East Isl.

1.05 μ — 1.45 μ

Black Swan - 2

Shoulder - 1 in slope
and ^{result to} ~~the~~ adjoining pool.

Silver ball - 1

$\frac{1}{6}$ Spontall - 1

Wfiktoren — 7

Coot — counted 7 chicks in at least 2
families. Saw c 10 adults.

Headband - approx 10-12 bands

Amo Grise - Saw 4 adults.

L.H. Pink Count — approx 6-8. Several were juveniles.

Swampy - saw 3-4 adults + 1 juvenile

Dusky Nowhen — saw 2

Blue Duck - 1 adult with 8 class II ducklings. Approx $\frac{1}{2}$ day.

Good - saw 4.

Fri 10/10/97

Freshwater swamp near Aracet Boulevard,
East Isr.

1.05 pm — 1.45 pm

Black Swan — 2

Silver bill — 1

Y/b Spoonbill — 1

Shoveler — 1 in swamp
nest to
and 12 on adjacent pool.

W. Plover — 1

Coot — counted 7 chicks in at least 2
families. Saw c 10 adults.

Headland — approx 10-12 birds.

Amo Gull — saw 4 adults.

L. A. L. Pink Gull — approx 6-8. Several were
juveniles.

Scaup — saw 3-4 adults + 1 juvenile

Dusky Mowhee — saw 2

Blue Duck — 1 adult with 8 class II
ducklings. Approx $\frac{1}{2}$ day.

Coot — saw 4.

Vasse Estuary 10/10/97

Estuary View Drive 2pm → 2.50 pm.
Water level well over intake.

Black Duck - 2 + 4

Grey Teal 4 - 6

Coot - Hundreds in a raft in the channel.

Swans - 10

LBC - 10

LPC - 2

Shelduck - 5

Duck - 1

Pint - 2

Newbury/Kestrel
overhead

Common Eucalypt
- dark bill bird
yellow face.

Could hear Litoria addendensis

2 Small Terns - larger than Fairy, smaller than Crested.

10/10/97

3.40 pm

Water flowing fairly strongly
than both sets of intake
of Melbury Creek under Leyman
Rd from Vasse Estuary to
Wonnup Estuary.

3.25 pm - mouth of Wonnup
Inlet - water rushing out -
to sea. 4 pbs + 2 sigl
standing in shallow water at
edge of bar.

3.11 pm Vasse phragmites

Gauge reads 0.52 m AHD

All birds in water
flying over branches
of all trees - 1/2 strong W
wind

Wonnup phragmites gauge
reads +0.25 m AHD

at 3.11 pm. All birds in
water level below top of branches.

Water level higher on ocean side.
2 cormorants hovering over Wonnup
estuary 200 m upstream.

Vespe Estuary 10/10/97

Estuary View Drive, 2pm → 2.50 pm.
Water level well over intake.

- Black Duck - 2 + 4
- Gray Teal 4 - 6
- Coot - Hundreds in a raft in the channel.
- Swans - 10
- LBC - 10
- LPC - 2
- Shelduck - 5
- Duck - 1
- Petrel - 2
- Newbury/Kestrel marked
- Conch Fagot - dark bill bird yellow feet + 1

2 Large Red Gulls

Could hear Littorina saxatilis

2 Small Terns - larger than Fairy, smaller than Crested

3.25 pm - mouth of Womys Inlet - water rushing out - to sea. 4 pbs + 2 S. gill standing in shallow water at edge of bar.
3.11 pm Vespe phalarope

gauge reads 0.52 m AHD
Bill breaks in. Water flowing out over branches of all trees - strong wind behind

Womys phalarope gauge reads +0.25 m AHD at 3.11 pm. All birds in water level below top of branches. Water level higher on ocean side. 2 oystres hanging over Womys estuary 200 m upstream -

10/10/97

3-40 pm

Water flowing fairly strongly from both sets of culverts of Melbury Creek under Layman Rd from Vespe Estuary to Womys Estuary.

8 pm.

3.25 pm - mouth of Wonnup Inlet - water rushing out to sea. 4 pbs + 2 sigl standing in shallow water at edge of bar.

3.11 pm Vorse phragmites

Gauge reads 0.52 m AHD
All boards in. Water flowing out over boards of all bays - V. strong W wind

Wonnup phragmites gauge reads +0.25 m AHD at 3.11 pm. All boards in water level below top of boards. Water level higher on ocean side.

2 oryzae hovering over Wonnup est.

Vase Estuary 10/10/97

Estuary View Drive, 2pm → 2
Water level well over islands!

Black Duck - 2 + 4

Gray Teal 4 - 6

Coot - Hundreds in a raft
in the channel.

Swans - 10

LBC - 10

LPC - 2

Shelduck - 5

Darter - 1

Ptarmigan - 2

Newburykeshel
overhead

Common Egret
- dark bill but
yellow feet.
+ 1

Could hear Littorina adventurina

2 Small Terns - larger than fairy

2 Large Pied Grebe

10/10/97

3-40 pm

Water flowing fairly strongly
from both sets of culverts
of Melbays Creek under Legmen
Rd from Dorsey Estate to
Warragee Estuary.