

Jim Lane's Field Notebooks Index Contd.

(Revised Index of 31/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1992 on)_32	32	(28-01-99 / 29-06-99)
JL_(1992 on)_33	33	(03-07-99 / 25-11-99)
JL_(1992 on)_34	34	(25-11-99 / 10-03-2000)
JL_(1992 on)_35	35	(29-03-00 / 04-09-00)
JL_(1992 on)_36	36	(05-09-00 / 19-01-01)
JL_(1992 on)_37	37	Missing (at 31/5/2014)
JL_(1992 on)_38	38	Missing (at 31/5/2014)
JL_(1992 on)_39	39	Missing (at 31/5/2014)
JL_(1992 on)_40	40	(Dec 02 / Mar 03)
JL_(1992 on)_41	41	(Mar 03 / Apr 03)
JL_(1992 on)_42	42	(May 03 / Oct 03)
JL_(1992 on)_43	43	(Oct 03 / Nov 03)
JL_(1992 on)_44	44	(Nov 03 / Dec 03)
JL_(1992 on)_45	45	(Dec 03 / Jan 04)
JL_(1992 on)_46	46	(Jan 04 / Feb 04)
JL_(1992 on)_47	47	(Feb 04 / Mar 04)

TO BE CONTINUED

Jim Lane's Field Notebooks Index

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<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)

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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	(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)

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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)
JL_(1992 on)_27	27	(14 -02-98 / 21-03-98)
JL_(1992 on)_28	28	(30-03-98 / 20-05-98)
JL_(1992 on)_29	29	(23-05-98 / 28-08-98)
JL_(1992 on)_30	30	(Sep 98 / Dec 98)
JL_(1992 on)_31	31	(24-12-98 / 28-01-99)

No 32



Note Book

96 PAGES 5mm RULED

No. 561

J. Lene
Kam Bussellin

28/4/99 → 29/6/99



Made in Malaysia

ESSELTE

①

Worms Estey Th 28/1/99
(Monthly bird census by me + Allen Clarke)

1 animal house access

Start at 1008 hrs.

WFAW - 47, 8,

Shel - 79, 54, 189, 118

RnAv - 153, 54,

BeSt - ~~1000~~ 654, 470,

SaShis - 8

White Ebn - 2

Grout Egret - [far side = 4, 1] [near side = 5]

also [1, .] $\Rightarrow$ 6 or even 11 in total

Yb Spimbill - 2 (both on far side)

Pelican : [far side = 4] [14 near side]

also 2

$\Rightarrow$ 16 or even 20 in total

(2)

Added cc 10 Mand

~~Red C.~~
P. red C. 30

LPC 50

LBC 2

Bo SHK 135, 68, 28, 83, 16

Gents - (8) to NE of fence (10) W of fence

Small water = (610, 5.0) NE of fence

Red Cypress Pine - (2) NE of fence

Mark Darts - 1

Shrimp + Sandpiper - 3 (W of fence) + 1,

Turtle ~~3~~ Snapper - 1

3



Small wedens: 200 +20 incl 28 Ridge and River

From left count from this side at 1137 km

1030 bands

incl c 30 SFSp - rest are Silt + Ridge River

Small wedens (120, 240, 1000)
 Silt - 820, 270, 75,
 Swen - 1,

West of the point.
 => don't count?
 There were more shelly work along N. shore

incl [82 SFSp.
 3 Cursp.
 c 20 Reg. P.
 rest Silt] -> 360
 100
 260

(4)

56 Golden Plover on west side
6 point at 1235 hr

Stop at 1243 hr - hot!

Deadwater - start 1255 hr (typical)

P&B - 3, ~~123~~ 9,

Mind - 2

GPW - 1, 1, 2, 1,

LPC - 1, 4

Darker - 2,

Shel - 1, 2

White Elm - 1, 2,

PC - 1,

BWSLW - 4

Mend - 6

(5)

a few fresh juncos (mallet?)

Wings Totals - 1318 hrs -

Coverts - 1

Common Kingfisher - 1

LPC - 8

W & H - 1

Darter - 1

day closed
away

Legion Rd Bridge

Coverts - 1

W & H - 1

LPC - 1

road
between bridge
+ floodgates
(Vase)

Vase using
gorges

0.41

d/s

0.01

u/s

at - ~~1332~~

1332 hrs

on 28/1/89

(6)

Caspian Tern - 5 near out
in Wange Inlet and bar
(Inlet side) -
Cranes - 1
S. G. - 1

Melbury Creek (East)
1345 hrs -

W. W. - 22, 3, 3

White Eggs - 2

Ja. Terns - 1

P. B. - 2

Final Survey at 1348 hrs
on 28/1/99

Alan Clarke and I resurveyed
the WRC gauge plate to
the known Artid bolt at the
S end of the Vane Esing flange
at c 1500-1600 on Th 28/1/99

The lower WRC gauge plate on the
upstream side is reading ~~48~~
48 mm too low (compared
with Artid). Note that this

gauge plate is on top of the old Water Authority
gauge board. - the top of which has been
sawn off - found it this afternoon in water nearby.

Resurveyed the gauges at Womaga flange

Old Water Authority gauge is 13 mm too high

Upstream WRC gauge is 60 mm too low

and the downstream WRC gauge is 44 mm too low

(9)

Same way flying - Fri 29/1/99

+0.02

u/s

at

+0.085

d/s

0622hr

Fri 29/1/99. ^{Estuary} Vessat ^{melting}

Took the watching group to the
limestone reef area just north
of the Rushly Rd access point
(Vessat estuary). Focussed
only on bryozoan colonies.

On the reef we saw
2 Red-necked Stint & many Ring-billed Gulls.

Then we went to Melbury
Creek (west) from Lagoon Rd.

We were looking for Wood Sandpiper

Firstly studied Black-bellied Plover (2)

Then Red-bellied Plover (1)

and then Wood Sandpiper (1). I

got to within c 7m of the Wood
before it took off.

Vene eating *flavipalpis*
at 0952 hrs on
30/1/99

ganges near

± 0.00 m u/s
 $+ 0.16$ m d/s

Spoke flow in the open
gates (on nylon rope)

Vene eating *flavipalpis*
at 1004 hrs on 30/1

$- 0.15$ u/s (W. C. Page)
 $- 0.205$ u/s (Ola L. L. L.)
Anthony Page

$+ 0.14$ d/s



The only fish near the
gates (u/s) are fry.

Wormy Tuleb mouth
 at 1015 hrs on 30/1/99
 Water flowing in rapidly.
 Shallow at SW end of cut
 Cut is ≈ 20 m wide for
 most of its length.

Vine:	+0.02	u/s	from Kew White man 1/2/98
	+0.13	d/s	
Wormy:	+0.23	u/s	
	+0.09	d/s	

Profound problem have taken
 how long past?

Tues 2/2/99

13

Phone call from John Moon

Ray J. Burrows on way out

Ray Bakeris

Ray Alice Burrows at
c 0920 hr.

Phone call from JB — meet
at playground at 1045 hr.

- gate is open 9 cm at bottom
(on side)

Vasse Gate measurements.

35.5 cm $\rightarrow$ water over sill on downstream side of Vasse Floodgate (Fish release structure).

Bottom of reverse flap frame is 5 cm above the water level on the downstream side.

Estimate: water level on upstream side is approx 4 cm lower than on downstream side.

The bottom of the metal frame is 35.5 cm above the sill.

Upstream Gauge Reading: 0.00
MAHD

Downstream Gauge Reading: +0.13 m AHD.

Georich - get DI water
from Eljosh

puller lost 2 birds out
at 1100 hrs.

Close gate

Reopened gate at 1130 hrs.
Flood in.

11:35 - Gate opened

10 released by 11:40.

10:40 to 10:45:	4
10:45 to 10:47:	43
10:47 to 10:49:	39
10:49 to 10:51:	49

(16)

10:51 to 10:56 = 42
10:56 to 10:59 82
10:59 to 12:00 23

12:00 to 12:05 0

KW [\$5.00 Cheese + Soda
Roll
\$4.80 ~~Soda~~ Bottle water
350

JB [Cheese + Soda
+ Soda + Soda
\$4.30

Resume count at 12:00 hr.

1227-1228	—	1	large
28-29	—	2	"
29-30	—	0	"
31-32	—	22	"

1233-34 — 12 large mullet ($\frac{30-75}{cm}$)

Flow is strong — fish swim hard to get through

1235-36 —

1236-37 : 7 large mullet

1239 — I let out a few more of rope to reduce the inflow —
gate at bottom now is 25 cm,
before I let rope out it was
cc 40 cm.

1241-42 = 0 fish out.

When taking flowgate levels
at 1244 hrs

— 0.01 m up/s
+ 0.15 m down/s

Bellent Rd — 1345-1410

John & David Hunt

Met Nonly + Jerry D

"unmuzzled" Powergates (2 seals) & back down to LBC

c 300 ft

Heavy Silt north
at 1452 hrs in
Thurs 2/2/99

Water flowing slightly out
from cut V-2 back to

At 1545 hrs the same
along flaps level
were

— 0.02 in w/s
+ 0.20 in w/s

With this head of water
the flow in was too fast
for all but one or two
large mullet to swim through
the gap caused by open
gate. The reason
of the gap may have been
it more difficult for the
larger fish

Thurs 2/2/99 at 7.48 pm

+ 0.01 w/s

+ 0.36 d/s

Vase eating phanerogam

Mallet ring
in is well out

moderate flow out

Vase Eating

+ 0.03 w/s
+ 0.02 d/s

K White

3/2/99

Vase eating

- 0.25 w/s
- 0.12 d/s

Advis from Ves Hija

Oscillatoria present - visible

No toxic species of algae at
Vase eating channel

3.20 pm

3/2/99

get copy from Anthony Sutherland
(emailed from Ves)

(20)

Phallus Creek - from
the AT&T land bridge &
looking to the east from
here (c 50 m)

at 0650 - 0830 hr

on Sat 6 Feb 1999

Long toad Street!

Red n. Shrike
Greenback
Wood Sucker
White Dove
Pheasant

Whtn, Skel, GTR, Pass,
 BT Plover, Spotted (American)
 Creeper, Swan, small and
 Grebe; Black-winged Stilt.

Wings End mouth at 0905
 hrs on Sat 6/2/99.

Tide very low, channel
 very shallow, no discernible
 flow - water colour suggests
not flowing in.

Verse estuary playgeates at 0915 hrs
 on 6/2/99 - water flowing
out through open gate - which
 still has the hose (yellow & green)
 partly system on it. Reverse
 plays gas (of course).

22

Water levels (from Kinky side) on Sat
6/2/99

Vessel -0.03 w/s
flow in +0.04 d/s

Wings -0.23 w/s
-0.10 d/s
stop leakage in

Kinky White's plane report of Sun
7/2/99

Vessel w/s -0.04
d/s +0.26

Wings w/s -0.24
d/s +0.22

~ 800 small - med fish
5-20 m upstream.

Area

Uni Home Secino

(02) 6249 5275

Center

9.10 pm.

gate is closed

due to head.

Vase - -0.04 m/s

+0.53 d/s

Wamp - -0.25 m/s

+0.51 d/s

Mon

8/2/99

data

from

Kenny

White.

strong flow in light NW wind
water up bright blue green.

strong flow in - a lot of
3-4 v. large schools of mullet
with one 1000 mullet - also brown.

24

Versi: -0.01 u/s
 $+0.52$ d/s

Wang: -0.27 u/s
 $+0.50$ d/s

Detail of

Time 9/2/99

from
Kivallik
White.

Newspapers for Gemult.

Toni

RPT - have phone on.

Nehal Lasing (02) 6262 1111

Qentres - Fit 483 1845 hrs -

II 58 ✓ 84 incl (27)
iii ✓ viii (6)
i ✓ (1)

299-301 = (36)
pgs

141 - 151

Vanne: -0.04 u/s
+0.47 d/s

Wing: -0.29 u/s
+0.46 d/s

Wed
10/2/99
(report from
Karl W. Weber)

(26)

Henry

- hire 35 m/yr

- Wilson can work

- Microtutor lens (cheap)

\$40/day - 55 - number

- dried - \$10/day

* need a gothlight

Shawhan great 15/sec

100 SST - 58 - micro

- 80 l ~~micro~~ \$35/day

RGS - Smith Aust.

(27)

\$10 per A4 graph paper

↳ Verse: -0.04 u/s
 $+0.37$ d/s

↳ Verse: -0.28 u/s
 $+0.35$ d/s

Th

11/2/99

~ ARG 1 Series 1 Special list ~

5. - Marine 5JJ24

6 - " 5JJ25

7 - ~~5JJ26~~ 5JJ26

8 - 5JJ26B

9 - 5JJ27A + B.

30

Vesse ~~0.00~~ w/s
+0.24 d/s
Wamp -0.31 w/s
+0.20 d/s
↑ or 3?

Kenny
White
Sat
13/2/99

Vesse -0.02 w/s
Wamp -0.28 w/s

Kenny
White
Sun
14/2/99

Checked on Vesse string
flygates at approx 8.30 pm
on Mon 15/2/99.

Water was leaking in fast
past the flygates & vents
of nearly all bays.

Tues 16/2/99

Meet Glen Clabe at
mouth of Argentine River
at 3.00 pm (on Wed
meet him at Work / school
at 2.30 pm)

Thursy meet 8.30 am, I
should finish by 3pm and
pick up Glen at 3.30 pm

① Ray calls Mr for
email address for RPT.
Version of Word?

② Ray RPT to discuss
updates re Annex 5. ANX-5 No2 - Dec
Version of Word.

(32)

904 am Today - Aden Cove

Reger (02) 6274 2779

Kindly Whites report

Vene - 0.05 u/s
+ 0.17 d/s

Wonnep - 0.33 u/s
+ 0.13 d/s

Tues
16/2/99

Tap Dumbell 2 small any sample

Vene - 0.04 u/s
+ 0.20 d/s

Wonnep - 0.30 u/s
+ 0.25 d/s

Kindly Whites
Wed 17/2/99

7.45 am on Wed 17/2/99.

K-W
+
Wet
up
rehearsal 3066 small - mod.
fish - (mullet)

	before	after
u/s	- 0.29	- 0.27
d/s	0. ?	- 0.05
	1380	18 - 80

97535751 - King W - home

Manurewa Water Centre - Dune (Wells?)

↑ 9582 9333

Vesse → 0.05 u/s
+ 0.31 d/s

Worring → 0.35 u/s
+ 0.25 d/s

King Winters
report of
Th 18/2/99

Threat Defense

Vorse -0.03 w/s
+0.42 d/s

Worms -0.34 w/s
+0.36 d/s

Fin 10/2/99

Vorse -0.03 w/s

Worms -0.32 d/s

Set 20/2/99
Kinky
20/2/99

Vorse -0.04 w/s
+0.3 d/s

Worms -0.35 w/s
+0.27 d/s

Kinky
20/2/99

Verse = -0.05 w/s
+0.38 d/s

Womung = -0.32 w/s
+0.35 d/s

King
Tues
23/2

Verse = -0.05 w/s
+0.41 d/s

Womung = -0.34 w/s
+0.38 d/s

King
Wed
24/2

Womung Inlet mouth
at 0900 hr on Fri
26/2/99 - cut throat
sand bar is still open
Tide flowing in

K. White

Vase - 0.10
+ 0.39

w/s
d/s

Set
27/
2/98

Womery - 0.34
+ 0.38

w/s
d/s

Vase - 0.07
+ 0.35

w/s
d/s

John
S. White
28/
2/98

Womery - 0.32
+ 0.30

w/s
d/s

1443

Orange

Rope needs
attention

Green rope seems
OK.

Mon 1 March 1999

~~Re~~ Re - checked
the orange rope pulley
system to the floodgate
Water leaking in past
gate.

↗
Verse ashing floodgates

Winnings Eilat month
at 1025 hrs - water
flowing in past then cut
in scrubber.

Vers: rising floodgates
at 0920 hrs on 3/3/99

= ± 0.07 m AHD

with which
Pulled the gate open under
at 0940 hrs
- now approx 20 cm wide
at N end of Jth flaps
valve and approx 1 cm
open at S ~~end~~ end of
same flaps valve.

Stronger flow of water in:
(With S. White).

One large blue mussel
creeb (swept in?) lays
to some extent in flow

No fish seen swimming
 from the open gate.
 No fish actually upstream.
 A small amount of fish
 actually downstream.

Fine. Calm. ~~thick~~

Water colour up's very grey
 in places - also green-grey.

Watched for fish ~~into~~ movement
 until 1000 hrs - none.

Checked bar at Womby
 Inlet. Cut open (still)
 at

opened gate & released
 fish at Womby gates.

(42)

Vase - 0.10 w/s
+ 0.18 ? d/s

Wamp - 0.37 w/s
+ 0.13 d/s

Handwritten notes in red ink, possibly a signature or date, written vertically.

E-mail with to add
Jager photos

Vase - 0.09 w/s
+ 0.26 d/s

Wamp - 0.45 w/s
+ 0.22 d/s

Handwritten notes in black ink, possibly a signature or date, written vertically.

2000 + med → large mullet. w/s

(43)

- 0.06?

Vase - 0.6 u/s
+ 0.49 d/s

Wing - 0.36 u/s
+ 0.43 d/s

Wing
White

Mon

8/3/99

> 2000 mark mallet & gettes.

Monday 15/3/99. Went

to Young floodgate
after Kewley Wharves report of
1 dead fish yesterday afternoon.
It was a 15 cm long trout,
probably discarded by the
recreational fishers that Kew saw
on the floodgate yesterday.

Went to Vase & Young floodgates.

Water level had risen ~~some~~
to > -0.1 m. I released
the ropes, then closing the
one over floodgate. I also

(44)

lowered the reverse flap valve
~~was~~ in an attempt (vain?)
to reduce leakage in through
this gateway. Gate
was closed at 7:20 am.

Sat 20/3/1999 :

no one turned up
for weekly waterline group
excursion. So instead
I went to inspect of
Wanang Tule + checked that
the cut in the road bar
was open - it was.

Then went to Ucoo
strong fluorite and
rechecked the green
rope pulley system to the

fly valve (the inspection
by me earlier in the
morning had revealed that
the wire holding the
pully block to the fly
valve had broken away).

At approx 6:15 am (15 mins
before the waterbird group
was due to meet)
checked both the shore
a downy phalaropes. I
watched a man with a
light rod catch a Blunt
Green (good size) on
the downy side of
the phalaropes (flying
from the phalaropes).
He was using whole
river prawns for bait.

46

Vase -0.01 u/s
 $+0.59$ d/s

Wing -0.28 u/s
 $+0.50$ d/s

For
20/3/98
Landing
at
10:00

Thurs 22 / 4 / 98

Flew with "Shoppers" from
Perth Domestic airport with

Nick Dunlop. Took off
at c 6.20 am coming
at c 7.50 am at "Cooranger

Smith" mine. li near Mt Weld.

Picked up by Nathan Russell,
(Environment Officer). There
is also a "Sustainability Officer".

They are developing an expenditure
project for the dissolved
mine pits. There Dist Dam
Barramunda, see booklet already
(with sample feeding)

(48)

Mineola is a 10 yr old
~~Phil & Hwy.~~

Dennis + Craig (pilots)
"Cessna 310" — twin

engine — 180 hp coming

110-120 is slow speed.

"Goldfield Air Service"

June 98 Salt Lake conference
at WSA "Center for the Site
Rehabilitation". New Dwyer asked
if I had received an invite yet.

Met Bill Phyle — past Native American
— who is Manager of the Green-Sault
Mine Site.

Nathan Russell
Environmental Engineer



PO Box 33
Laverton WA 6440

**Placer (Granny Smith)
Pty Limited**

Direct Line: (08) 9088 2293
Switchboard: (08) 9088 2111
Facsimile: (08) 9031 3103
Email: nathan_russell@placerdome.com

49

*Send by my card
time 27/4/99
[Signature]*

Francis Marchant (Luis is
happy Day) runs the
~~wildlife~~ wildlife tours on
Peel-Hervey. He observed
hepacetariae, see plane float-
ing over the Barkly Island
penguins colony ~~which~~ other adults
were on nests with eggs
and the next day the
nests had been deserted.

Follow up re Dawesville

it happened in 1998, a week
or two before the penguins
started nesting at Penguin Island
and on the beach at Falcon's

Send Nick Dunlop a copy of
my Peel-Hervey program report.

162 Swansea St East
East Victoria Park 6101

~~Star~~

Lavatera arborea

replaces L. plebeia
which is a native plant.

Mediterranean plant - "Tree
Mallow"

It forms a low forest
eg on Seal Island it has
formed a 3m high forest
that is excluding nesting
seagulls, no

Common birds

They are grassy plants

Lo. above doesn't allow the native
plants to regenerate.

"There seem to be greater numbers
of Red Cormorants nesting on
the ~~Shore~~ islands."

Marcus Singer .

149 a Bishopsgate St

Carlisle 6101

Frank Proden
(ex CAMR-forester) .

Yorron.

3000 feeding & egg-laying
 at ① spread over
 big area

Now estimate. close to
 10,000 birds in lake area
 visited.

Ron Fairbairn - graded the eggs
 and estimated 50-60,000
 eggs. (most the large no. of
 abundant eggs
 seen by him)

approx 14:15 hrs walk.
 by Kevin Cooke.



Kevin - large number of abandoned
eggs.

Ron - and decimated
colony - abandoned large
rd. going down
again on 2nd time
when Kevin visited
them.

8" of water. The
visit by Kevin was on
the 2nd of April 1998.

Ron found 2-3 other colonies
abandoned on the same
island.

Ron saw a few Avocet.
Kevin saw plenty of
Red-e. Plover.

~~Kevin saw the~~

32-35 brood of which
was recorded at two

(55)

of Gylne Vane.

Full of bone shyness
(both Kern + Kern)

Pen saw fox, cat tracks.
Also rabbit workings.

Willson
Celia ~~Willson~~ — Gardner +
Dennis Rogers.

South of Stuart Cox Station.

Vol 22 (1)



TODO — Read

for Dorelby 3rd Edn

23/4/98

Wang Ludwig 1205

— 0.23 w/s

+ 0.50 d/s

all boats still in

light ESE wind Fine

Wang Exit north

— still open

Mound on E side has

entirely disappeared

Vessel rising 1214 hr

0.00 m w/s

+ 0.54 m d/s

(57)

band still $\leq$

Take out pulley system

Wings 42g flapping on
Wed 28/4/98. Gauge (no)

Wings — 0.24 m 4 w/s

at 0828 hr.

Water leaking in.

Fire.

Light ESE wind.

All birds in.

Long bullet mark at 0830 hr
on 28/4. Ben gun. W/S
flying in.

Use long profile gage
reads $+0.005$ (by eye)
at 0835 hrs on 28/4/99

Water leaving in
left bank in (caught at
gate that is set up for
opening).
Water column upstream
is dark grey.

Use long profile gage
(red) reads -0.005 m
at c 0820 hrs on
Friday 29/4/99

CALM Theme Seminar on "Aguale
Indebatada Conserchion"
Held at CSIRO Forest on
Tues 4 May 1999 from 2pm - 5pm

Guests: Stuart Wilson

1st speaker - Winston Kay (+ Peter Smith)

Questions - Winston Kay

To Family or to Species
(now) (future?)

"Preliminary models detect
gross impacts"

2nd speaker - Terry Davis (Marsden Uni)

"Monitoring Wetland Health" report
has been completed & will soon be
publicly available

Hydrographs Photopoints

(61)

3rd speaker: Kerry Taylor.

4th speaker - Pierre Harnitz

"Labre Austin co a case study ---"

"Dune terrace wetlands"

Inlet channels gentle
- Harnitz - Bayou.

Rehydrated soil samples.

Quinn ✓

Trinity ✓

Rivers ✓

"Overly" ✓

Kenny ✓

DO*

I - J - J - J ✓

Acropolis redacted ✓

JL-WRI-2.DOC ✓



63.

Long Integer

6/5/88

- cabinet staff production
- schedule budget.
- Jorg - Lebes - stratif.
- Cory Evon - O'Leary + Lebes
physical models
- * Linda O'Leary new workbooks
program - \$0.5 million.
- quarterly - packages - transfer
- Jorgensen - annual models
- Johnsons - second round
- work round
- Lewis current
- Cassel's as liberalisation.

Most \$ from O's.

of Israel

Germany

Italy

France

Brazil

Syria

Thailand

Nick

Technology Transfer - 5 people

- commercially software

(65)

- = Diamonds Club
- = SW weekend study Program
- VW merger.

Rearer Sites.

State Weekend Policy

\$40000 very busy

Minor changes - NHT.

- Site

- schedule

- hydrology design

- Ecol climate

Ceasars O.H.

4 PhD 2 Master

* water-water shapes

* urban wetlands -

- trace contaminants
- transport
- take-uptake by biota
- Anoxia + denitrification
- P partitioning
- design of constructed wetlands to optimize treatment

Urban catchment

- metals coming in
- + timing - is critical for biota?

Model - urban quality & quantity - Rhineland
J - RGA - Dave + Carolyn

Catfish psychology

- large scales

- how catfish decisions
affect catfish response

- quality of water
- quality of air

- developing catfish model.

→ - to predict how we
change + change
changes

have developed - it works

Problem of scale.

- want to develop a
transmittable model (to
synthesize - could).

→ such a model does not exist

Siberia

(68)

~~SW~~ SW water balance model.
(Atby $\rightarrow$ Hdy $\rightarrow$?)

- ground water & dunes
- satellite - SW
- direct to SAT.

- 24 satellite work

Use

- satellite info
- rainfall distribution
-

Siberia water "intrusion"
into estuary - Georgia.

(68)

Fri 7/5/99

Vase Eshy - After
Rice meal.

Concord Egret

Yb Spindbill

Whitethorn

Whiskly Wile

Svensen Heron

DF D. Hurd

Sheldrake

Silver Gull

Black Duck.

Snow-necked Dove

White-f. Cat.

Green Teal

Bob Skitt

Blue Swan

2 Little Eagle

over the Trent Forest

2:30 pm.

(70)

Sun 16 / 5 / 99

Verse estuary phragmites

upstream ^{gauge} board reads

+ 0.13 m at

1111 hrs.

downstream gauge board reads

+ 1.00 m (1-2 m gauge)

(0-1 m gauge "reads" approx 1.01 m).

Moderate - strong W wind.

Water pushing in thru
gates.

(71)

<u>Cockney</u>	<u>Cup over top of boards</u>	<u>Apparent Leakage</u>
Stk 1	None	Little or No
2	very strong.	Little
3	None	some some
4	None	some.
5	Strong	Some
6	Steady	Little
7	Steady	Some
8	—	Some
9	None	Some
10	Some	Can't see
11	Steady	Little
12	Steady	Some
13	None	Can't see
Nth 14	None	Little

Took lot of ~~64~~ 64 75.7 slide
photos with new Nikon. Used
flash for ^{close} photos of leakage in.
Last photos were of gages (u/s
and then d/s)

Finished here at 1150 hrs.

(72)

Worings along phragmites
at 1200 hrs on Sun 16/5/88

Gauge (new) on upland
side needs

~~42~~ - 0.22 m

Gauge on d/s side needs

+ 0.95 m

Took many photos of phragmites

(34 → end of 6th ASR plot
and then 1 → 15 of new
6.4 ASR plot)

Saw John Moon (Water Lays)
at phragmites. They had
planned to take birds out

(73)

Lost Friday (14/5/99) but
decided against it when they
saw how high the tides were.

* Need in design new platform
so people can pick off them.

Worms Inlet mouth at

1250 hrs on 16/5/99 -
water flowing out from
river (c 3 m wide)
channel in sandbar

— took photos 15-²²~~19~~

⤴ Note that at high tide the
tide has flowed over the top
of the sandbar for a length

of ca 150 metres.

↑
 as widened by flow
 meetings in sand.

Took a few photos (→ 27)
 of the water level at Point

Geography at 12 noon (16/4).
 Note that level had topped
 the wall.

Mon 17/5/99 — took
 photos with new Nikon and
 2 rolls of Kodachrome 64 ASA
 film (36 exp) of dead & dying
 former vegetation of Melbourn
 District area — also photos
 of Apple park & fences.

(75)

These are taken from film changed in the Kodak
Shop (Brynston) - Queen St. Brunswick on 17/5 + 18/5/88

✓
(26/5)

✓
(24/5)

✓
(26/5)

W2541685

W2538078

W2538079

W2538170

W2545749

Tues 18/5/99

Drove from Redlands to
Jandabot Airport arriving at
0730 hrs. Met Doug
Congdon and Pilot John Douglas
at Angel Aero Club.

Took off from Jandabot at
approx 0810 hrs and flew
to Corral and then Penguin
Islands. Made 3 passes
from N to S past each island
at a height of 250 ft (checked)

and photographed with 100 ASA
Kodak slide film (one 36 exp
film for each island) and
new (Apr/may 1998) Nikon camera
(F70 camera). For all
photos the camera was set
to ~~Macro~~ Macro (using
"VariProgram") to "Sport Program"

(77)

Whenever I took for noticed,
the (automatic) settings were
around $1/1000$ sec and
F2.

I sat on the back with right
hand door off, took
photographs from ~~(the back)~~
(behind wing strut) except
that I was buffeted to
some extent in the
back (more than if I
had been sitting in the
front) and couldn't hold
the camera completely steady.

Doug also took photos, using
Fujifilm 100 ASA slide film.

~~After~~ After finishing at
Peyman Island we
flew on to Harvey Estuary
where we descended
to 200 ft (checked)

and photographed the dead
+ dying vegetation along
west shore of estuary
from Dawsonville Channel
south to Island Pt.

Also photographed Egg Island.
Used 64 ASA 36 exp
Kodachrome film.

W. then flew back toward
Tenderfoot. On the way
~~was~~ I photographed (all
64 ASA) various wellheads.

Did two "passes" past
Port Kennedy (Beller) wellhead
interior overcove and
took photos.

Reached Tenderfoot Airport
at approx 0940 hrs.

Doug used his Hawaiian
money for flight.

Doug took all four
rolls of Silver Gull
photos (his + mine -
Penguin - camera) to
develop in the Churchill
Color Labs in Antigua.

I then drove back to
Basseterre, arriving at
approx 1:30 pm.

Developed two of the 64 ASA
frames I had used today
into Kodak slides (Ektachrome)
at 4:40 pm on 18/5.

Amr 16 May 89 - recorded
coral reef (?) colony from
port plane at back doorway
at 2 Dorset St ~~across the~~

This is Track 6 of Disk 4.
can also hear H. egnaei (+ colony!)
in background.

Wed 19 May 1999

- first Flycatcher enemy
for the year

- I met Elizabeth Scales,
~~Elizabeth~~ son Vanya, Jenny
Jones, Birmingham at Brides
Tave in Bsn at 6.30 pm.

We drove to RBL Murchison
near Cynab where we met
Dad Jones, Shelly Wright & her
daughter, Cyril & Dea Clavin
& his wife Anita, Claire Thorne
(+ 2?). Tracks 7 → 11 incl.

Disk 4.

Dick showed us around the
fly library at RBL.
I recorded (none good
quality) *Ornis magnifica* (many),
Geornia laci (many!),
Helophorus pygma (many), *Letania*
oblongata (few), *C. glauca*
(one only) - a total of 5 spp.

I also recorded people's
voices and took a
few photos with new Nikon
and 64 ASA film.

Quite heavy rain before
(some rain after) but
was clear about while
we were at RGC (for
the approx 2 1/4 hrs).

Left RGC and took my
4 people back to Ben
arriving at 9.45 pm.

~~2. 10. 1984~~ some studies from
Red Rooster.

Then at 10 pm I
drove back to ~~Ben~~
~~the~~ Ben's house → Lynch
Rue and to search
for calling frogs.

The only species I heard

were *C. insignifera*
(almost plain) and
lt. green (at Wreny 8th
Rd).

See map of all roads
taken.

There were some light showers
and cool - strong winds
during this time.

Tracks 12-18
mil.

I made observations at
two locations. Very just
from the nature of (not
good quality).

Dick 4

Have no frogs in Dugby
Rd. (Dickson told
me he has heard ~~of~~ here
before).

Quelling Ruffs
(*C. gingivata*).

Dick's birds were nearly 1 am.

Beak bar was open (recess
 enough) at 0930 hrs
 on Dec 26/5/99
 (Warming Pilot month)

Warming along pharyngeal gapes

measured — 0.05 m w/s
 at 0900 hrs
 + 0.56 m d/s
 at 0925 hrs on Dec 26/5

Verm along pharyngeal gapes

measured
 + 0.28 m w/s
 + 0.60 m d/s
 at 0920 hrs on Dec 26/5/99

Verse using floodgates Th 27/5/88

w/c 0.58 u/s at 1140 hrs
 pump 1.04 d/s

Fine after rain for c 3 days
 and heavy rain o'night.

No wind.

Water loops were pulling the
 boards out of the floodgates
 when I arrived.

Took one whole roll of 64 ASA
 36 exp. film of floodgate board
 removed.

Alan Clarke died suddenly profly.

Took photos 1-18 of new roll
 at Wongs gate

Wump phryganeae gorge
 needs
 + 0.16 m (u/s)
 + 0.88 m (d/s)

at 1345 hrs on
 Thrus 27/5/99

(1-18)
 Took photos of Alan Clarke
 in / on / off / along / about
 property & also photos of
 Wump gates at c 1330-1345
 hrs

Took photos of Elton +
 Debra Rivers in flood
 (also 27/5/99)

86

Fri 28/5/99.

Estuaries are in full bloom.

Wings eating Phragmites jagged

meat ~~at 10h~~ + 1.01 m/s
+ 1.01 m/s

i.e. the same, at 14.30 hrs.

Strong outflow.

Thick fog (6h 40h)

Wings eating Phragmites
jagged meat

+ 0.80 m/s

+ 0.96 m/s

at 14.30 hrs.

No outflow.

Moderate WSW wind.

9/6/98

88

- snail - water? (why).
- Shady Black-Snail - snail
at Voluntary visit?
- Shady - April/May/June
when it rains.

Nov. 14 | 6/25

(89)

Wasp Early Phragmites

Sample 1000

± 0.77 u/s

$+ 0.73$ d/s

7530 Low on

Mon 14/6/99

Wasp Early Phragmites

Sample 1000

$+ 0.88$ u/s

± 0.73 d/s

Wasp Early Phragmites

Sample 1000

89

Warp 5044
Singer 1000

+ 0.77 u/s

+ 0.73 d/s

at 1530 hrs on

Mon 14/6/99

Line passing over

Vehicle at 1530 hrs

+ 0.88 u/s

+ 0.83 d/s

at 1535 on 14/6/99

p 1000 hrs

(89)

Wasp colony finished
Single rock hole
 $+ 0.77$ u/s

$+ 0.73$ d/s

at 1530 hrs on

Mon 14/6/99

Wasp flying out

Wasp colony finished

$+ 0.88$ u/s

$+ 0.53$ d/s

at 1535 hrs on 14/6/99

+ photo taken in morning

(90)

Frogwatcher excursion (No 2
for 1999) on Wed 16 June 99.

I met Elizabeth & other participants
at Pines Ave Bus stop approx
6.20pm. Bus of ~~high~~ secondary
students from McKillop College.

Took my 4WD Pajero & Bus
to entrance to track on West
side of Athol River. Met two
other private 4WDs here.

Left bus at Track Drive and the
whole party of 21 people (incl.
me & bus driver) went into where
the track reaches the Vasee Estuary
in the three 4WD vehicles.

Crossed 3 large, up to 0.5m
deep pools of water on track to
get to end.

Went searching for frogs. The
only species that was
abundant was Cornia
insignifera (Spreading Froglet)

(91)

We caught several in many
shallow (5-15 cm deep)
pools in "grassland" with
open woodland of Melaleuca
hydrophylla and Geonias
pleurocarpa and a few Rene.
rudis

Detected one frog calling from
dead grass in one of these
pools (this pool)

Found one pool with highest
density of calls and
found a number (3+) of
mating pairs of Cornu
insignifera.

Track 19 of Disc 4 is
a recording of Cornu insignifera
calling. Jenni Jones and
me talking. It starts
at 7.43pm

16/6/93 contd.

(92)

Went back to vehicles and signalled
(ear horn) other groups to also
return. Elizabeth had
gone further inland and heard
two Agynostegus domestica.

No other species of frogs heard.

We left the Quba River site
at approx 8.30 pm &
returned to Ber. — end
of frogwatching evening.

I bought dinner at McDonalds
and then drove back to
the Quba River site. Picked
up some place and
then walked inland to
find a domestica that
Elizabeth had heard earlier.
On the way in I heard
a solitary Coscinocera levis
calling. But I did not
record it. I found
a shallow (5-10 cm) pool

in open area in woodland
with a solitary L. dorseti
calling from a small
thicket. Clumps of dead
grass — too thick to see
the frog. There were
also numerous C. insignifera
calling from here.

Track 20 of Disc 4 is
from here — starts at
10.07 pm. — good
quality recording.

Track 21 of Disc 4 starts
at 10.26 hrs and is
of C. insignifera at the
same pond (where they had
earlier been very abundant).
where I had earlier
recorded Track 19. Some
occasional vehicle noise in
background.

16/6/99 contd

(94)

I then walked through the
scrub and as I approached
could hear a chorus of
Litoria adactylodermis. These
however proved to be quite
distant - coming from vicinity
of mouth of Belinda River.
Their calls were carrying
over the water (these being)
on the flat calm conditions.

I recorded these distant calls
from the peneline - can also
here signs of other waterbirds
from that direction (also
silted). This was
Track 22 of Dec 4,
which starts at 10.34 pm.

Note that there were no
L. adactylodermis heard from
anywhere else this night
including on the track
in from Track Dve.
(Dick Stone, Tim, Tim & Brian).

95

16/6/89 contd

- bus driver) walked most
of their trees.

I walked back to my
vehicle + drove out
to Fleet Drive and then
to Wonseng 5th Rd. I
then drove along Wonseng
~~5th~~ South Rd to
Wonseng East Rd and then
back to Fleet Drive along
Pines Rd (see
marked map), driving
in ~~2nd~~ 2nd + 3rd
gears with windows
down and looking for
frogs. I heard only

Cornia uropygata calling -
~~along the entire route~~
This species was most
common (seen first)
along the route
along 5th Rd.

I heard it calling from

16/6/99 contd.

96

numerous locations along
Donnys St Rd, several
locations along Sues Rd
and a few locations
along Donnys East Rd.
There were definitely no
other species heard.

Finished at approx 11.15 pm.
and went home.

Note that there was no
rain during Foreward this
evening but there was
light rain just before
and there has been
a lot of rain in recent
days + weeks.

Fri 18/6/99 (afternoon)

Took photos (1-17 ? of a
new film of Kodak Ektachrome
100 ASA slide film) of
L. douglasii and C. insignifera
sects of Wed night (16/6)
(Tracks 20 + 21 of Disc 4)

Took photos of seedling
establishment at dense estuary
phragmites (edge of Leyland
Pond)

Wed 23/6/99

Listened for frogs from vehicle
from 6-30 pm → 7-20 pm
along stretch along Womby Stk
Rd, over Lyall's (shed and
to E), over Pinesfield, then
Lund's - Lyall's Rd back to Russell
Hwy (new).

7:10 pm 34.9 km ^{left} Libe
on E side of road has
many *C. maculosa*, numerous
L. chalcidiformis & several *L.*
chalcidiformis calling

38.9 km when reached Russell
Hwy.

Heard many *C. maculosa*
from my location along
all of the above roads

Chorus is very loud when

(99)

L-H Rd meet Busell Hwy
of 6000 a few in chimney
here.

Temp is still, clear sky,
half moon, cool.

Feb 25/6/99

7.02 pm - start
Trotting Rd.

Caught a *L. delawarensis*
at 544.85 km

Caught a 1st year at 545.45 km.

545.85 - *L. delawarensis*
a *L. delawarensis* a.

Well as *C. myzofra*

546.5 km - crossed Plunket Rd.

549.2 km - crossed Downes Rd

553.6 Cquel-Tututap Rd /
to Tutunup Rd
T junction

556.9 Williams Rd off to right

558.8 T junction with
Lambton - Portage Rd
Turn right.

559.45
- live on right side
C. myzofra, *C. scudder*
and *C. dorsalis* (pencil)

(101)

8.02 pm

563.25 km - head

* 1 "Pica - 2.5 km" frog
calling from rt. hand side
of road (obscurely).

Also many *C. longifrons*
calling

563.5 km - Bessell Hwy.

- loud chorus of *C. longifrons*
Frank Lee at 8.06 pm

Roads were swet!!

Verse estuary floodgate gages
at 4:40 ~~hrs~~ ^{pm} on Tues 29/6/99

+0.58 upstream

+0.49 downstream

WRC gages read

Water is raging out through
the floodgates. Winds have
been ~~the~~ calm all day.

103

Rodex Vehicle Log.

466 on
trip
meter

Fri 29/1/98 Womp sunny 32524 km

Sat 30/1 Playful 32556

Mon 1/2 Town 32562

reads 84 km

Papers

Wed 3/3 Bsn (Angels?) 1337

Th 4/3 Bsn → Park 1572

Fri 5/3

gate slightly jammed

Sunny SW wind

Vance — 0.08
+ 0.28

up 3
d/s 3

Womp — 0.44
+ 0.23

up 3
d/s 3

5/3/98

319
84
235

Alan Clarke

0417 0964 97

Conrad Pearson

041 894 5268