

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	⁰⁸ (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 1995 + (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)

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)

Nº 12



NOTE BOOK

(09) 4055700

No. 561

J. LANE

DEPT OF
CALM.

..... 1995
end
15/3/95 → 1/4/95

①

Grant Pass -
306 1777

RES meeting 2-5 pm
Tues 11/4

Mini-Group meeting
0830 Th 13/4

2

Gnangara Rd 17 Jan 1995
with JB + VE

Eggs — 100's

Red — 100 or 50

Red — 100 or 50

Swans — 2

Shepher — ten +

Coot — tens

BW SHIT — "

Bd Plover — "

WF Heron — 3

Pacific Heron — 1

1 white domestic duck (Pekin)

1015 hrs.

Reginald from large old ranch + sheep
stamp — Bounce. Taylor.
sheep.

(2)

Gnangare Rd 17 Jan 1995
with JB + VE

Egth — 100's

P28D — 100 or 50

P28D — 100 or 50

Svens — 2

Shepher — ten +

Coot — tens

BW SHIT — "

BF Plover — "

WF Heron — 3

Pacific Heron — 1

1 white domestic duck (Pekin)

1015 hrs.

Regent Linn large old radius + oleophylla
shrub — Banana. Tree.
shrub.

On flight from
Perth → Wellington

Wed
Start 15/3/95 (4)

Mike Bamford

Thom & Penguin
Meredith Sea Gull & people
Ron Waller

Nick Dunlop

Brian Collins (students)

Michael Craig?

~~Mike~~ + Doug Williams

Stuart Helsa

Andrew Bardsley + Phil

Allen Dunsage

John Blyth

Shequella

Stephen Davies

On flight from
Perth → Adelaide

Wed
Start 15/3/95 (4)

Mike Bamford

Thom + Penguin
Murdock Sea Gull
Ron Walker a people

Nick Dunlop

Brian Collins (students)

Michael Craig?

~~Mike~~ + Doug Wattkins

Stuart Helsa

Andrew Bursage + Phil

Allen Dunsage

John Dyck

Sheppelle

Stephen Davies

On Flight from Perth → Kuala Lumpur 15/3/95 Contd

(5) Parents Dates

Thursdays fortnightly 23/3, 6/4, ~~13/4~~
20/4.

Sunday.
April 23rd → May 12/13 H.

Allan/Andy could do fortnightly Harvey, Paul

My Dates

Thursdays fortnightly?

Complete house early (start Mon 20/3)
next week

On Flight from Perth → Kuala Lumpur 15/3/95 Contd

⑤ Current Dates

Thursdays fortnightly 23/3, 6/4, ~~13/4~~
20/4.

Sunday.
April 23rd → May 12/13 H.

Allan/Andy could do fortnight Harvey / Phil

My Dates

Thursdays fortnightly ?

Complete house early next week (start Mon 20/3)

Wed 15/3/95 Contn (6)

(7)

Wed 15/3/95 Contd

Whiskey Cluster Forest
Bell 206

Set on 85' loads.
Pilot + 4 + gear.

→ Lake Bellad Wed 15/3/95 (8)

Up at 0450, left home 0510,
Packed up at 0540. Takeoff with
Quakers at 0620. Arrive hel 0720
Takeoff ^{in helicopter from} hel at 0803 hrs.

Pilot Peter V. . . .

Chris Minton, Guest Person
Mang + J.L.

Jeremy Hogarth — "Big Wet"
ABC Wildlife Unit

1/2 hr doc on Banded Shit

Diana Gilmour — head
of Nat. Hist Unit.

Jeremy + Catherine.

- 2-3 days hatching.

- c3 days hatching / creek

- follow creek building, moving
fledging

Over 4-6 weeks.

→ Lake Bellad. Wed 15/3/95 (8)

Up at 0450, left home 0510,
Park airport 0540. Takeoff with
Quakes at 0620. Arrive Isl 0720
Takeoff ^{in helicopter from} Isl at 0803 hrs.

Pilot Peter V. - - -

Chris Minton, Capt Pearson
Mang & J.L.

Jeremy Hogarth - "Big Wet"
ABC Wildlife Unit

1/2 hr doc on Banded Stilt

Diana Gilman - head
of Nat. Wild Unit.

Jeremy & Cammeren.

- 2-3 days begging.

- c3 days hatching / creche

- follow creche building, moving
fledging

Over 4-6 weeks.

On helicopter flight
to Lake Ballard

Wed 15/3/95 contd

⑨ NH Unit (+ Jeremy) are based
in Melbourne.

Implied ready to be on site
by next Tuesday.

Peter — Helicopter leaving Wal
for Karoola on Fri

↙ Another machine will be in use
~~by~~ but don't know exactly
Also other choppers available.

but "who knows" may be back in
2 weeks.

Fri Wal → Karoola

Mon → Pentl

" → Karoola.

Lake Ballard

Wed 15/3/95 contd

(10)

1105 Chie went on to top
of island.

1115 1000 birds flushed off
egg, cooed once & settled
again

1116 Chie headed back to us
 $\frac{1}{2}$ colony almost took off,
cooed, resettled on island

from edge of lake

1303 we rose to peg out the

colony. A. B. C. D. E. F

G. H. I. J. K. L.

M. N. O. P. Q. R.

S. T. U. V. W. X.

peg 5m
apart

Lake Ballard

Wed 15/3/95 cont

(10)

1105 Chris went on to top
of island.

1115 1000 birds flushed off
egg, circled once + settled
again

1116 Chris headed back to us.
 $\frac{1}{2}$ colony almost took off,
circled, resettled on island

from edge of lake

1303 we rose to peg out the

colony. A. B. C. D. E. F

G. H. I. J. K. L.

M. N. O. P. Q. R.

S. T. U. V. W. X.

peg 5m
apart

Labrador

Wed 15/3/95 cont

(11)

The shift was with a wetsuit (sewer)

We had finished by 1313 hrs.

~~We~~ 7 back to our rest point
on edge of lake

Went back on ~~#~~

3 photographed ABHG, BCJH, CDJE,
DEKJ, EFLK in that order

with 28 mm lens + 64 ASA, 2 photos
per square (5m x 2.5m). - all
had pink tape

Chris + Mary did GHNW, HION, IJPO,
JKQP, KLRQ, in that order,

with Chris 28 mm lens + slide film,

2 photos per square - with ^{mangle} brown tape

Lake Ballard

Wed 15/3/95 contd

(11)

The shift was with a whoosh (several)

We had finished by 1313 hrs.

~~We~~ ⁷ back to our next point
on edge of lake

Went back on ~~#~~

I photographed ABHG, BCJH, CDJE,
DEKJ, EFLK in that order

with 28 mm lens + 64 ASA, 2 photos
per square (5m x 2.5m). - all
had pink tape

Chris + Mary did GHNH, HION, IJPO,
JKQP, KLRQ, in that order,

with Chris 28 mm lens + slide film,

2 photos per square - with ^{mange} brown tape

Labé Ballard

Wed 15/3/95 12 Contd

Then we marked allometry
with pink then ~~top~~^{orange} brown tape,
QRXW (pink) PQUV (^{orange} brown)
OPVA (pink) NCUT (^{orange} brown)
MNTS (pink) with Clive taking
all the photos, 2 per square
(Clive took 3 photos in one of the
squares of the last line)

1435 under tree near helicopter, just
finished writing above

Pegged approx $\frac{1}{2}$ the colony but
probably $\frac{3}{4}$ of the eggs i.e.
a lot of the nests outside
the pegged area were 1 egg clutches.
I assume 150 nests per square
and 15 squares then we saw
2250 nests in marked area.

Labé Ballard

Wed 15/3/95 (12) contd

Then we marked allometry
with pink then ^{orange} brown tags,
QRXW (pink) PQUV (^{orange} brown)
OPVA (pink) NCUT (^{orange} brown)
MNTS (pink) with Clive taking
all the photos, 2 per square
(Clive took 3 photos in one of the
squares of the best line)

1435 under tree near helicopter, just
finished writing above

Pegged $\frac{1}{2}$ the colony but
probably $\frac{3}{4}$ of the eggs is
a lot of the nests outside
the pegged area were 1 egg clutches.
- If assume 150 nests per square
and 15 squares then we saw
2250 nests in marked area.

(13)

Labrador

Wed 15/3/95 Contd

⇒ 4500 nests total.

Approximate when all
birds took off at 1518
The 4 of us marked nests
with 1 or 2 eggs (wrote
1 or 2 on eggs) marked
1534 and known back
to nest point on N shore.

By 1537 the most birds had
returned to nest.

Estimate we marked 200-250
nests in ~~area~~ area to S+W
of W peg.

(13)

Lake Ballard

Wed 15/3/95 Contd

⇒ 4500 nests total.

Approach to land & all

birds took off at 1518

The 4 of us marked nests

with 1 or 2 eggs (wrote

1 or 2 on eggs) marked

1534 and moved back

to rest point on N shore.

By 1537 hrs most birds had
returned to nest.

Estimate we marked 200-250

nests in ~~these~~ area to S+W

of W peg.

Labre Belled Wed 15/3/95 Cont'd (14)

We worked till ...
and then moved back to
guardians HION and NOAT
and marked every egg in
every nest

It took 16 mins to mark the
eggs

The birds moved back on
at 1608 hrs.

Into helicopter island at 1620

Labre Belled

Wed 15/3/95 Contd

(14)

We worked till ...
and then moved back to
guard the HION and NOAT
and marked every egg in
every nest

It took 16 mins to mark the
eggs

The birds moved back on
at 1608 hrs.

Out helicopter island at 1620

During flight from
Belknap to Kelowna

Wed 15/3/83 cont'd

(15) HANZAD account of Best

- need dependant
- 25 ASA film, naffy pins
- make 4 x 6 sheets,  hessian to cover 6 sides +
over top. Use large safety
pins + cut slits for camera
etc.
- depth gauge
- test out the question + work
out best distribution ways of
ensuring -
- 2 x 2 way radios.
- my Dost ref collection,
partic like Tormen acs.

Landet back at Kelowna
at 1758 hrs.

Wed 15/3/95 contd

16

Eggs for pesticides?

Clevers better than 50:50

- 4 days rest week
- 4 days hatching
- 4 days fledging
- lot of helicopter funds
(parked for checks)
- ~~aminy~~ to be here now
- \$1500 to recompense
expendit so far.

(17)

John --- ? is warden
at Boone

Andy Clegane will provide name
of station owner on north side
— re tracks in.

We should do fix wing rehab of
Jellard and Barber early next
week (from Wal)

Contact Chris Norton

091 935 600

Boone Bird

Observatory — much of the
time — till May 2nd.

(from Fi 17th March)

Like Torrens account ~~is~~ in

a was in ANIT, American

Natural History magazine

(Natural History Bulletin)

also in Birds International.

Kalbarrie Airport

Wed 15/3/95 Contd

18

Subsequent re-nesting?
(another go after rain &
creek)

Once the chicks hit the water
they should be feeding themselves.

Banding / Color Marking.

If can have chicks - the
more the better - colour
flag ~~band~~ will yellow (from Drome
or Melbourne).

Can you band them?

Put band on one tibia + flag
on other Tibia

Get birds + flags now.

(incubating) 500-1000 birds from

Kelowna Airport

(19) Phone

Wed 15/3/85 lunch

Mark B. B. B.

03 288 0252 (work)

or home 03 803 3330

+ ask for yellow flag
involvement from W.R. (has been
posted) please get die
leg flag team to make
500-1000 ~~leg~~
leg flags (~~leg~~)

Urgently get B. B. B. by Fax
+ ask for formal approval
for leg flags (yellow is W.R.)
(any discussed with Chris)

Berry Baker

Kalbarri
Airport

Wed 15/3/95 Contd

on mouse (eg Mike Weston
on Hooded Plover)

Spotlighting or funnel traps

(20)

over nest (eg *Oryzomys*
+ all such waders)

to catch & colour mark adults

to study single nests/pairs

to obtain marked adults to
study pair behaviour at nest.

Or coloured sticks by nests
to identify each from hide.

Use colour bands not flags
for these adults - from ABBS
mist netting - wrap
round, not butt end, plus
a dab of glue (tube of solvent
cement (for flags + bands)

(21) Kelowna Airport

Wed 15/3/95 Contd

Fledged chicks — where do
they get to and what
plumage are they in?! at
known ages!

Green for landing chicks??

Chris thinks 1st landing
will be about March 28th.

Me do P-4 Tues 21/3
with ~~Alan Clarke~~ ^{Alan Clarke} He meets me
at Island Pt at 0930.

~~Tues 21/3~~ ^{PM} Wed ~~22/3~~ 9
fly to Kelowna (Covey Inlet)

(22)

Beddy & shuteles? for me.

Tony Skat

— Grants Am

— ABC N1+U ok.?

~~Andy Wilkins~~ works for Dave
Person — ok next Tues

BILL PHILLIPS Th 16/3/95

ANCA 062500777

agreed get Link Butlers doc
to him by 17/4.

He need in Bsn this weekend

Get to PD next week

Get back from PD 2 weeks later

Walk thru LACS system.

(23)

Film for 1 roll/day guestbook
ministry

Thermometer

life jacket

Cenozo, droppers ~~the~~ + colored
tape.

* tracing? , cards.

~~test~~ things, pillow *

new shirt / pants

* sleeping bag liner

large plastic bags.

1 large pad + chip board

Field guides — insects (Williams)

— aquatic plants (Seintz)

binocular straps.

watch band.

camera batteries

thread.

mosquito netting?

Small tools + batteries

short fat candle.

basin boots + dubbin

scales (eggs + tadpoles)

"Waders" + Dettlars?
(Hale?) book

"Eggs" book

How collect samples for DNA testing?

Birds' gull nest census methods
(+ Abrolhos?)

Me ~~pick~~ up photos - Wed!
view

Janet garden sketches from home.

neggy pins

Bunker Bay (Dunborough) ^{Sun} 19/3/95

(25) Sun 19 March 95

Marshall, Bennett, Chloë & I swam
at Bunker Bay (near Dunborough) in
PM and collected samples of

- seaweeds (Sea Nymph Amphibolus
antarchica)

- trochid shell (top shell)

(Family Trochidae - Austrocochlea

- periwinkle

rudis

(Family Littorinidae)

Nodilittorina?

like Melanopha unifasciata

- Tube worm (Family Serpulidae)

Order Sedentaria ^{sp} Phylum Annelida.

"sub section" Polychaeta,

Genus Galeolaria?

Harvey Estuary

21/3/85

26

Tues 21/3/85 I left Ben in
ute + met Allen Clarke at Island Point

Island Pt gauge read +0.10 m
AHD at 1010 hrs.

1108 took water sample from
surface at Site 7 (~~near~~ in Harvey
Estuary, near mouth of Harvey river)

Calibrated Hannon against
"35.3 ppt" standard - it was
spot on - no adjustment needed.

Site	Time	Dyptol	Sal
7	1118	0.1	>42
}	}	0.2	}
		0.4	
		0.6	
		0.7	
			>42

Hervey Estuary + River

(27)

Tues 21/3/85
Contd

Sta	Time	Depth	Seal
-----	------	-------	------

Birds around delta.

Pelo - 17 + 65

Siwens - 3 + 3

Gnlt - 5

Common - 1 + 3

Grey Teal - c16 + 5 + 150

Caspar Tern - 1 + 3 + 1

Shel - 20 + 50

Yb Sp. bill - 30

BW Skt - 2

P.O.D - 20

virtually all of sand bars (and all of sand flats) are covered by water. All roosting sites (seal bars) fully occupied by birds.

light → moderate N wind blowing

Hervey River

Tues 21/3/95 Londa

28

Sta	Time	Depth	Sal.
0.0 km	1135	0.10	34.6 vv
		0.20	>42
		0.40	>42
		0.60	>42
		0.80	>42
		0.1 gni	35.5 vv

0.5 km

Swampy - 1 in Met. depth.

Sect - 2

Gyre -

PABO -

Coot -

LBC -

Whistling birds at Green Egret - 1

flocks of WC flying overhead
to upstream.

Darter - 4

Met. depth still looking yellowish (stressed)

swampy habitat

(29)
Harvey River

Tues 21/3/95 Contd.

Stn	Time	Depth	Sal
0.54	1151	0.1	3.6
}	}	0.2	19.0 v
		0.4	>42
		↓	↓
		1.0	>42
↓	1156 3500	0.1	4.1
1.04	1207	0.1	2.3
}	}	0.2	3.8 v
		0.3	18.5 v
		0.4	40 40 vv
		0.6	>42
		0.8	"
↓	1213	0.1	2.4
1.54	1228	0.1	2.1
}	}	0.2	2.4
		0.3	2.4
↓			

Henry River

Tues 21/3/95 Contd (30)

Stn	Time	Depth	Sal
1.5 K	}	0.40	12 v
contd		0.60	38.2
}		0.80	41.6
		1.00	> 42.0 ^(42.1)
	1231		
hole at 1.8 K	1237	0.1	1.8
}	}	0.2	1.9
		0.3	2.0
		0.4	11 vv
		0.6	35.4
		0.8	38.5
		1.0	38.7
		1.2	39.1
		1.4	40.0
		1.6	40.6
		1.8	41.5
		2.0	41.7
		2.2	41.8

(31)

Star	Time	Dyst	Sol
hole at 1.8k	1241	2.3 2.4	41.8

2.0 k.	1245	0.1	1.7
		0.2	"
		0.3	"
		0.4	9 v
		0.6	33.0 v
		0.8	38.2
		1.0	38.8
	1248	1.2	39.2

hole at 2.1k.	1250	0.1	1.6
		0.2	1.6
		0.3	1.7
		0.4	10 v
		0.6	36.2
		0.8	37.8
		1.0	38.1
		1.2	38.5
		1.4	39.3

Henry River

Tues 21/3/95 Cont'd

(32)

Stn	Time	Depth	Sal
hole at 2.1 K Cont'd		1.6	39.7
		1.8	40.5
		2.0	40.8
		2.2	40.9
		2.4	40.9
		2.6	41.6
	1256	2.8	41.9

hole at 2.3 K		0.1	1.7 1.7
		0.2	"
		0.3	"
		0.4	8 W
		0.6	34.2
		0.8	37.4
		1.0	38.5
		1.2	39.4
		1.4	39.7
		1.6	39.9

Ittervey River

Tues 21/3/95 cont'd

(33)

Sta.	Time	Depth	Sal
hole at 2.5K	↓ 1305	1.8	40.1
cont'd		2.0	40.2
↓		2.2	40.2
2.5K	1309	0.1	1.5
↓	↓	0.2	1.6
↓		0.3	1.7
↓		0.4	1.7
↓		0.5	22.5
↓		0.6	32.5
↓		0.6	32.5
↓		0.8	37.3
↓		1.0	38.4
↓		1.2	38.8
↓		1.4	39.0
↓		1.6	39.2
↓	↓	1.8	"
↓	1313	2.0	"
		3	

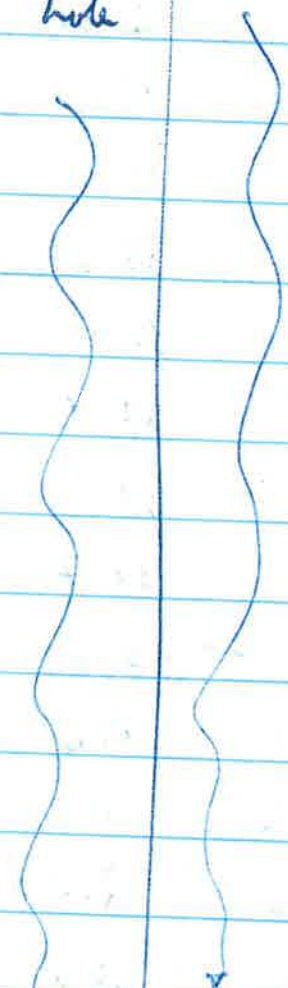
Henry RiverTues 21/3/95 Contd(34)

Stn	Time	Depth	Sal
hole at 2.845	1317	0.1	1.6
		0.2	"
		0.3	"
		0.4	4 v
		0.5	16 v
		0.6	25.5
		0.8	33.9
		1.0	36.5
		1.2	37.1
		1.4	37.5
		1.6	37.7
		1.7 1.7	37.9
3.045	1324	0.1	1.6
		0.2	"
		0.3	2.0
		0.4	3 v
		0.6	27.4

Harvey River

(35)

Time 21/3/95 cont'd

Stn	Time	Depth	Sal
3.0K	1327	0.8	33.3
cont'd		1.0	35.8
3.3K	1331	0.1	1.5
hole		0.2	1.5
		0.3	1.7
		0.4	1.8
		0.5	2.0
		0.6	3.3
		0.8	11.3
		1.0	17.8
		1.2	26.0
		1.4	28.0
		1.6	29.0
		1.8	29.3
		2.0	"
	1334	2.2	29.5
		2.3	29.5

Harvey River

Tues 21/3/95 Cont'd

(36)

Stn	Time	Depth	Sal
3.5k		0.1	0.7
		0.2	"
		0.3	"
		0.4	"
		0.5	"
		0.6	2.1
		0.8	8 v
		1.0	13.7
		1.2	22.2
		1.4	24.0
		1.6	25.0
		1.8	26.1
4.0k	1347	0.1	0.6
		0.2	
		1.4	0.6

Harvey River

Tues 21/3/95 Lenth

(37)

Station	Time	Depth	Sel.
4.34	1353	0.1	0.6
hole	↓	↓	↓
↓	1355	2.4	0.6

From top of silt section put down to water surface was 0.80 m at 1358 hr.

4.54	1401	0.1	0.6
↓	↓	↓	↓
↓	↓	1.2	0.6
↓	1405 hr	top	%
↓		top	ms/L
↓		102	8.2
↓		bottom	25.7
↓		83	6.9
↓			23.1

Harvey River

Tues 21/3/95 Cont'd

(38)

Stn	Time	Depth	Sal.
(?) hole at	1312	0.1	0.5 0.5
4.4 K		↓ 1.3	↓ 0.5

	Time	Depth	%	mg/l	%
4.0 K	1420	Top	112.7	9.2	26.3
		Bottom	77.4	5.8	23.3

Stn	Time	Depth	Sal.
3.75 K	1429	0.1	0.6
(estimated from photo)		0.2	"
		0.3	"
		0.4	"
		0.5	0.7
		0.6	0.6
		0.8	1.4
		1.0	11.6
		1.2	15.2
		1.4	17.1

Henry River

(39)

Tues 21/3/95 contd

Sta	Time	Dryall	Sed
3.75 k contd ↓	↓ 1433	1.6 1.7	17.6 18.3
3.5 k gru	1437	Dryall Top 34.3 Bottom	% 113.5 9.1 26.1 24.8
3.0 k gru	1445	Top Bottom	105.0 63.2 8.4 4.8 26.4 25.3

ND: used Yestel Intelligent D.O.
meter. (Model

back to site 3.5 k, took
surface water sample and
measured grain with Hamon -
in situ read 0.6 ppt

Estuary
Hervey ~~Island~~

Tue 21/3/95 Lond 40

200 m S of Island Pt,
100m ~~read~~ read ~~read~~

1511 hrs	0.2 m	> 42 ppt
		42
		42

Took sample for
salinity check

Restarted point
standard of "35.3 ppt" - spot on
again!

Island Pt gage read
+ 0.25 m ~~at 1537 hrs~~
at ~~1537~~ 1537 hrs.

Estuary
~~Herring~~

Tue 21/3/95 Contd (40)

200 m S of Island Pt,

~~Herring~~ ~~read~~ ~~read~~

1511 hrs	0.2 m	> 42 ppt
	0.4 m	> 42
	0.6 m	> 42

Took surface sample for
salinity determination.

Retested Herring gull
standoff of "35.3 ppt" - spot on
again!

Island Pt gull read
+ 0.25 m ~~at 1537 hrs~~
at ~~1537~~ 1537 hrs.

Tues 21/3/95 lunch

(41)

Also got no butterflies in the
drowse net.

~~Ex~~ Feb 25th went morning in Harry
Rice

Went from 2.5 hr to
5.5 hr and caught zero moths
Warm day - conditions perfect
Concrete bank - took dragonfly &
caught 2

Moths down in off 2nd band
in road cut caught moths all
season

The algae rising from the bed
of the river is Oscillatoria.
This is the first year has
seen it growing up the river
(can see it "bubble" up from
deeper waters in river)

Tues 21/3/95 Contd (42)

Oselle Lake is usually over
bed of estuary but never
before in Nov (this had
also)

It rises to surface on
"good hot days" - its full
of bubbles of "air" that
cause it to lift.

" It lifts off bed of estuary
about this time each year.

High tides with cause death
of pigments forming the southern
section of the estuary.

Coals ~~very~~ very few now - "they
have gone out from the cut"

(43)

Tues 21/3/95 Contd

Boordlang Island (Peel Inlet)

1705 - counted 62 young
estimate maybe 120-150

1707 - counted 75 adults
estimate may be 120-150

1711 - 3-5 adults with very
bright breeding colours on ground
in a small group at centre
and west side of area.

1717 - Group of ^{c30} adults at S end
of colony are standing/sitting over
y. young, pink, red chicks.

high Tens of juths and 1-2 Ravens

Bonin I. contd

Tues 21/3/95 ⁽²⁴⁴⁾ contd

close to end in amongst (jacks)
the phalaropes.

most of the young are fully
feathered (though not in length)
and their bills are mostly
about $\frac{1}{3}$ adult size length.

1722 we are still approx 150
west of the nesting area.

No dead chicks or adults seen

Left at 1727 hrs.

(45)

Tues 21/3/95 contd

1800 hrs Creary Lagoon - (Peel Inlet)

W. Stilt — $5 + 3 + 5 = 13$

Silver Gull — 3

Petrel — ~~12~~ $12 + 7 = 19$

Little Egret

Great Egret

Cory Duck

Sheldrake — $33 + 10$

YB Spurdock — 31

"Egret" — 22

Seaside Ibis — 1

Duck — $52 + 20 + 40 + 26$

Swan — 1

Common Loon — 17

Finish 1824 hrs

B

In Renth



Wed 22/3/95

~~long to gent~~ ✓ 238 ~~sa ny~~ ~~Thy~~
~~stap~~ ~~stet~~ ✓ ~~can be~~

~~shut~~ ✓

~~coch~~ ✓

~~screen~~ ✓

~~down~~ 5.50 ✓

~~ring~~ ~~less~~ ~~pm~~ ~~re~~ ~~vita~~ ✓

~~in~~ ~~gent~~ ✓ ✓

~~ring~~ ~~Bark~~ ~~QDC~~ ~~re~~ ~~in~~ ~~in~~ ~~in~~ ✓

~~trick~~ ~~band~~ ✓

~~on~~ ~~los~~ ✓

~~thence~~ ✓

~~Ring~~ ~~thence~~ ✓



(47)

Thurs 23/3/95 (Penth)

~~from~~ → ~~gent~~ ✓

~~QBE~~ & ~~CD~~ ~~insurance info~~ ✓

telephone wire?

* ~~refs (pp)~~ from ~~Kendall~~ ✓

Bathes report

Tony Stark

~~base secret re DNA~~ ✓

Complete ~~refs~~ ~~from~~ ~~home~~ ✓

~~Camouflage~~ & ~~beering compass~~ ✓

Kenn plant, ladder, walking, down books

Scrape window paint.

Chloro methyl pieces?

ceramics looks (Chloro)

~~Rory Vero~~ ✓

28 m - lens

Verendah?

~~stopping pens~~ Target bag seen ✓

~~my~~ ~~break~~ them to see if Fri yes
it so comp at Woodstock.

~~\$20.00 to Viscount~~ ✓

~~AAA batteries~~ ✓

get rid of gear.

* ~~droppers~~ ✓

* white tape

Chloe's marker looks

~~against spine room door~~ ✓

~~Front door looks~~ ✓

Hines Laser - wife

15 Wilkes Ave Oss Rd 2442777

Leica Instruments

166 Keshing Rd Leesville 382 3822

* Nikon Instrument 240 1205

Unit 3 16 Abrams Rd Duluth

* Graphic Supply & Repair 401 7196

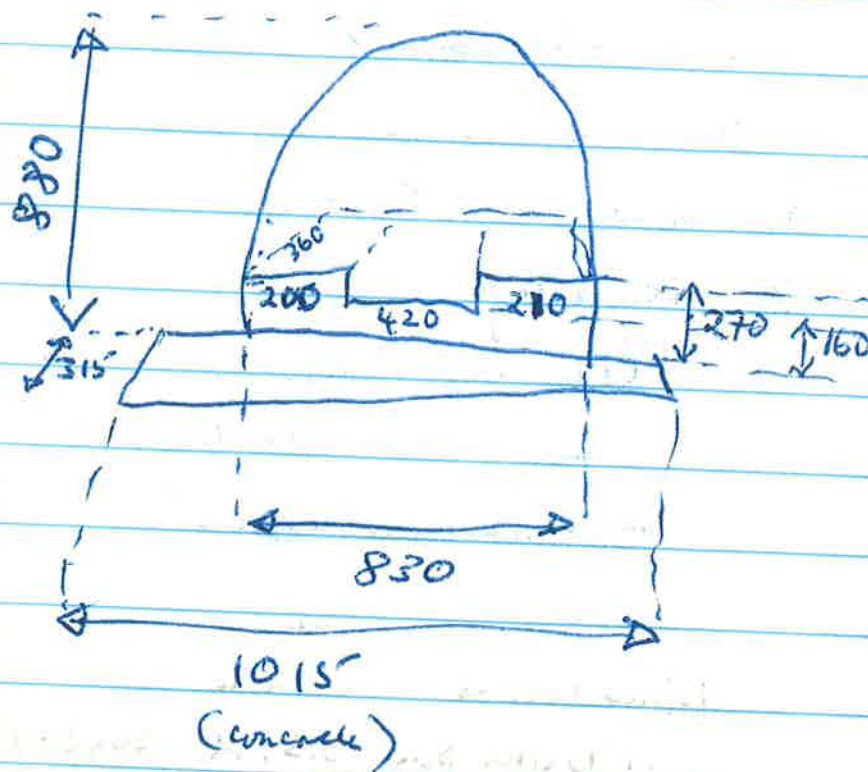
46 Balanus Rd Heathridge

PMH 444 0233

Unit 5 14 Main St Oss Rd

(49) and 1.170 to marketplace base
from floor

1300 well to well



50

UVit - Laser.

33 Corant St Woodlands

244 2046

Thurs Corant (23/3/95) (Perth)

Take photos + viewer.

CLOTHES ON LINE!

Ben Model.

097521908

Roll of wire for stakes (plastic)

~ type ~

Computer cleared (spirit)

~~Thurs 23/3/95~~
still at 30 pm Th.

Shops, 7 Finlay Pl

Wingene

409 8552

stuck bag for pillows

~~Gate Way~~

~~Photo of Setty's headlight~~ ✓

(51)

Batters → Pete

(in Parth)

Fri 24/3/95 See ~~Thursday~~ end

→ ~~Paxton Wood with papers~~ ✓

~~films to Churchill (ambered)~~ ✓

~~prints from Churchill~~ ✓

~~films back from Churchill.~~ 10.15 ✓

~~28 mm lens accepted~~ ✓

~~eyeglass ring~~ ✓

~~print verandah~~ ✓

~~fill hole in Chob's~~ ✓

~~photo Sally's headlight~~ ✓

~~shiny pens~~ ✓

Woodville

Batters report

~~Briefing from KMW~~ ✓

* map the Saeedy island

~~AWZ voucher \$20.00~~ ✓ ✓

~~8m x 20mm paper + 4 elbows.~~

~~non toxic pens.~~ ✓

air ticket ✓

(52)

wood
about to BSN (+ some one)
for bookable

concrete flash +

~~General~~
~~Business~~

pulling ship ✓

X Security of lake water last week -
watering

John for Sally ✓

booked? ✓

'pink hole in glass well.

Sunglasses - Mike's wife

(Summer) Lassett Common
Chari's Serran - Noddies etc
at Abundant - Ron Weller
student



Ring Arrange book

ne 3.40 pm QF 439

Alon Am.
44254

Kal → Park

→ 4.50 pm

090 212 677

(Cord
1000)

(53)

Fri 24/3/95 Conks

Many low to mid

~~Hasty Hunter~~ at batteries.

~~Data Refs - line to front~~
~~+ 2 others~~

~~Indigenous state~~

Seeds to put in photos.

Main papers for Mon meeting.

Fow bell ✓

Truck license & sticker

Fri 24/3/95 contd

54

AAB's method for species identification



- Random start position
- Pick point on horizon
- one well ahead other pushes him
- stop every 5 m & measure Δ

- at least 20 ^{tringles} per colony

- choose area of 1 ha for transect program and multiply by true area afterwards.

- can change between mid program.

- measure in decimals of metre
eg 0.95 m

- record all measurements in notebook in case transect fails.

(each number is 7 bytes)
eg 0.88

(55)

Fri 24/3/95 contd

If last egg laid (incubation
began) on 15/3/95 (our
helicopter visit) then hatch date
 $= 15 + 21 = 36 = 5^{\text{th}}$ April

Inspect slides of quail to determine
clutch size frequency.

Saturday (25/3)

~~trucking~~ ✓

~~store loads~~ ✓

Chloro's well

~~tools~~ → shed ✓

~~gear~~ out of shed for boat & wife

~~tools~~ ✓

~~rego~~ *

~~hatch boat~~ ✓

~~took gear~~ to boat
~~& wife~~

~~photo Sally~~

~~→ petrol station~~

~~✓~~ ✓
Vat to
point vendor

In lead

on Gray stuff

2005

2 nets

(250

micron)

MS recommends



+ extra info after

56

(57)

I drove to Busselton
on Sat 25/3,

arriving home (27
Margillie Rd) at

approx ~~7 pm~~
6.30 pm

(58) 2nd Bsn

~~Shore~~ ✓

27-28/3/95

Mon 27/3 ~~Empty~~ ✓

~~Form processed~~ ✓

✓ ~~Letter to landlord~~ ✓

~~Medicals~~ ~~Beysnether~~

~~Medicals~~ ✓

noise in sign

~~Roe~~ ✓

~~Butcher report~~ ✓

* ~~fax to A.K.~~ (fax 3349466) ✓

Records

~~and fax to Bsn~~ ✓

~~Washing~~ ✓

~~Miss slide - butcher report~~ ✓

~~contact sent~~ ✓

~~computer form~~ ✓

~~3349466~~

Beth Reid

Mr. Beverly Lamond 523702

✓ Tanning? (age 19) West Bsn?

Duness St Medical Centre (Dr Healy - good)
Retreat (Dr Jarvis) (Dr Robinson - v. good)
Dr Cranshaw - good

- dodgy ones near Hospital (in Medical Centre)

At B51.

Tues 28/3

28/3/95

(59)

see previous, and

~~basement~~ ✓

is the next P-14 survey? ✓ (Waste) ✓

(should be Th 6/4)

CASH

~~Hospitality Inn~~ \$50 each.

~~Right 7m. Canna 215~~

~~From~~ NPWCA ~~from~~

Since ✓ the ✓

Room 11 ~~Funerals~~ 3.15

(After tomorrow night) ✓

Hemmer (medical)

pay 101?

flash?

(60)

At Jsn + Perth

28-29/3/95

Costs of leg flaps, air survey, vehicle
to Kal, campy note, hotel note,
corral gear, extra vehicle/trailer hire?,
food for vols,

Dr Jerris 521 411 eggs BP str
" Boston

~~The Dental Clinic~~
~~on McDonald~~
~~St. - Ductus St.~~

School system
is not
for birds.

Wed 29/3

~~gear from Vols~~ ✓

~~Corner St. start!~~ ✓

~~reports to PG?~~ ✓

~~working before 8 am!~~

Flight - Leedy areas!

cardboard → new ~~prints~~ → Dadi

paint in Chlou?

Ring Vols from Kal

Ring Agent re rent \$380 ~~more~~ ✓
~~Leaving?~~

At Perth

Checklist of my gear.
map is lost from Greville's photos.

29/3/95 (61)

Pay ship & Peterson 10000 → Vero.

Jack Long?

Chapman → bank

more cash.

Louise

#375

not

weathered

not in ad

no

known

✓

AGB Claude Riviere - 361 4174⁺

* HART!

weeding if hot autumn → Val

~~Weeding~~ → ✓

Reinhold for Margie? started on Sat 27

2 weeks before Wed 15/3/95

Still from Port Hedland?

25/2

~~Not weeding!~~ ✓

(62) Perth → Kalgoorlie Wed 29/3/95
^

Grant + I left Woodvale
at 1130 hrs on Wed 29/3/95
in Greg Greyling's "old" Landcruiser towing
tandem axle trailer (covered wagon)
with 10ft + 12ft punts and 2 x 6WD.

Took photos of vehicle + trailer
just before Southern Cross (stopped
by police! - caution for Grant)
and at petrol station at
Southern Cross.

Arrived Kalgoorlie airport at
1850 hrs. Had a beer with
John Meyer. Met Mark Larnble
and Campbell Mitter off
Qantas flight arrived 1910 hrs
from Perth (they came from Melbourne
today).

Had dinner at Hospitality Inn

Ring downie Gyllett then Vel ne winds 63

Ring at Goodwin
and say 1.30 pm here.

and made plans for trip and
flight in morning. 30 rooms
at 2145 hrs.

Film - have 8 rolls Estimate
100 ASA
4 " 64 ASA Kodak normal
2 " 25 ASA "

16

front will use 2 rolls of the 100 ASA
on flight.

090 212677

CALM Kelly - Harner St

~~John from Pat~~; ~~by bank from Benny Baker~~
maybe by flogs from Chick and/or Mark
Baker. No ~~Anna sticking~~

(64)

12 noon start time

June - -

+ last train

Start time

0845 hrs.

- confirm 1445 hrs

or make a time that suits us

- weekend?

Meet Gert + Merv at CPM

office at 10.30 - 11.30 hrs.

(have to leave for ~~Teedanya~~
Teedanya by 12.00)

(090) 313 019

John Finlayson

batteries, hat, insect screen.

Clive + Pat Merton

165 Dalgetty Rd

Beermans Vic 3193

Batteries? ✓

Kelgoorlie

Th 30/3/95

(65)

If miss 2 scheduled calls.
If ~~the~~ miss 12 noon and
following 0845 hrs will
then put emergency procedures
into practice.

* Jane will come in to office
on Sat + Sun for 12 noon shifts
1.25

Convent - meets myc with loan.
0239 → sell call phone. 2
call off - 182

Red phone frequency - 5270
090 212677 8070!

Jan Keely offered to have
someone take supplies up to us if
need be next week.

~~66~~

Th 30/9/95 contd

Corrected forward

Corrected reverse

Carbonld.

383 2512

- 0.0 0.0 at house (Teedanga Str.) 27.4
- 0.1 0.1 at grid 27.3
- 0.2 0.2 at airstrip 27.3
~~26.9~~
- 1.5 1.5 cross creekline 25.6 *
- 2.3 2.3 thru gate ~~24.8~~
25.1
- 4.3 4m — 1504 hrs.
- 5.3 5.3 K - windmill + tank 22.1
~~21.8~~
- ~~5.5~~ ~~5.5~~ ~~5.5~~ } 0.6 km of wrong track + return.
- 5.3 ~~5.9~~ K - " + " 22.1 ~~21.8~~
- 7.4 ~~8.0~~ K - thru gate 20.0 ~~19.7~~
- 12.8 ~~13.4~~ K - track off to left (S) 14.6
(don't take)
- 13.9 ~~14.5~~ K - thru gate 13.5
- 16.9 ~~17.5~~ K - windmill + tank 10.5
- ↑
17.5 K? (this turned out to be a wrong turn)

30/3/95 contd

0.6 hr of wrong way
and return. (67)

17.8 ~~17.8~~ - ^{wrong way} ~~mind~~ - ~~from back~~

16.9 ~~18.1~~ - back at windmill + tent 10.5

- go west.

17.5 ~~18.2~~ - tent on hill 9.9

17.6 ~~18.8~~ - a bend in road 9.8

18.4 ~~19.6~~ - fork (bends to right) ~~8.7~~
go straight on 9.0

18.8
~~19.2~~ ~~20.0~~ - hit track (wide) head. 8.6
307°

20.4 - shake with flags ~~7.9~~
shaking ~~8.2~~

(Turn? talk with?)

20.1 ~~21.3~~ - head. 7.3

20.4 ~~21.6~~ - bends
bend now. 7.0

21.1 ~~22.3~~ - Twin hills tent (wide) 6.3

with milk + mesh
yard (circular)

(68)
Th 30/3/95 Contd

~~22.2~~
~~23.4~~ trace off to right 5.2
go straight on

~~24.8~~
~~26.0~~ reach fence (with gate) 2.6
don't go thru gate
head south along fence line
 $\Phi(194^\circ)$

~~26.3~~
~~27.8~~ Tent with mess around 1.1

~~26.5~~
~~27.7~~ Stockgates (in x marks) 0.9

~~27.4~~
~~28.6~~ K Reached lake (with ~~plenty~~
of water) -- K short of
Lake ~~Della~~ * could go no
further with 4WD's

$\Rightarrow$ total from Teedanya = 28.6
wrong turns $\left\{ \begin{array}{l} - 0.6 \\ - 0.6 \end{array} \right.$
27.4 K

Summary of Th 30/3/95 takeoff at 0700 hrs.

Grant + Mark left Hospitality Inn at 0630. Drove to airport. Charters Cesna 210 + flew to Bellard, then Barlee. Nesting area at Bellard appeared 3x larger than on 15/3/95. Found 2 (?) other v. small colonies further W near N shore. Only a few hundred (?) Bats on Barlee and no sign of nesting. Flew back to Kelg. arriving ---- (1030?).

Meanwhile Campbell + I had breakfast at Hospitality Inn, then drove to CALM office. Picked up coloured leg bands and glue. Photocopied maps, borrowed Bellard aerial photos. Did shopping (independent) then back

(70)
Th 30/3/95 contd

to CARM office + met Grant +
Mark there approx 1115 hrs. More
last minute preparation then
drove to Margie's (Grant + me in
CARM vehicle with trailer - Mark +
Campbell in Budget hire 4WD Toyota
personnel carrier full of camera gear)
Stopped briefly then drove on to
Teedemys Homestead arriving at
1420 hrs. Met owner John
Finlayson. He took us inside
+ gave advice on best route to
follow to lakeside.

Left homestead at 1445 hrs
and drove generally WSW. See
road log of previous pages
for route in (and 250,000 mps)
Stopped ... to about of

Th 30/3/95 (71) contd

Lake Ballard when fence line ran into water. I waded ahead till too deep to wade (contd height & sloping off) at edge of lake next to Ballard. Waded back. After much discussion decided to make camp 100 m back from water. Grant prepared dinner while Mark & Campbell & I (at 1700 hrs) loaded 2 punts with camera & other gear and boated in one across flooded area to sand dune 600 m from Ballard. Unloaded gear & boated (using 10' punt) back to Grant at overnight campsite.

By this time it was approx 1750 hrs and dusk.

The lake we were next to

(72)

The 30/3/95 Contd

Was fresh with flooded shrubs
(a few trees) and green water.

At deepest point (guessed) it
was > 1 m depth (--- m)

Many single + paired ducks scattered
over the lake — spp incl

Pearl, Gt TL, Musc, Mand,
Coot, small grebe. (each

seen at all times 2-5 birds
at once). Mand swam off

with body low and head low on
water — ~~then~~ leaving nest?

No young seen. Describe water?

Had dinner (Cup-a-Soup,
Spag. Bolognaise) around ~~1835~~ 1815 -
1845 hrs around open fire.

Sat + talked around fire
(+ dried trousers, socks, boots).

Th 30/3/85 cont'd 73

Went off to bed under mosquito
net at c 8.45 pm. Campbell
arrived 9.15 pm. Made at
1015 hr.

I went on
fine and did day's notes (these).

Note that there were very
few mosquitoes — I had ^{only} one up
till 11.15 pm. A few other

flying insects (beetles, cricket,
+ small diptera) but certainly
not in nuisance numbers.

Used some fresh water
from our jerry cans + replenished from
freshwater lake (for cooking at least).

Went off to bed at 11.30 pm.

Tomorrow

photos of camp + logistics
stickers.

(24) Fri
Start 31/3/95

Pressure gauge + by Argo boat in
~~glacier~~
brown briffence

0935 - photos of creek
nest (with chick!) has
9 worm (incubating eggs)

Set cell

* 0201 is Woodwell

* 5001 is Como Communication

* (plug in + sockets to it) do us

Set up aerial + earth. Make off
volume $\frac{2}{3}$. Connect to ^{cell} battery
terminals.

Press set cell code then push lever
down to s/c (brown). That is transmission.
If they receive at other end you will hear
4 rising notes.

Fri 31/3/95 ⁷⁵ ~~Unit~~

Our radio call sign is "Research 182"

Channel 9 is Kalgambie ^{high} (8070) for street
6 " Woodvale ^{high} (8270) for street.

If you are self calling you can
use any frequency and the base
(as Woodvale) ~~the~~ scans all of
them. Kalgambie scanner is not
working at the moment.

If you are receiving in at street time
you ~~just~~ use the appropriate (agreed)
frequency.

76

Fr 31/3/95 Contd

1330 hrs set up table at W
end of island and began collecting
along with binoculars.

1351 hrs - 70 along waters

start 1354
edge on E side of island - Several pairs
flocks heading S from island - copulating in water.

1, 4, 1, 1, 1, 2, 2, 1, 3, 3, 3, 2, 4, 5, 2, 5

2, 3, 2, 2, 1, 2, 1, 1, 1, 1, 3, 1, 2, 1

2, 1, 2, 1, 3, 3, 2, 1, 2, 2, 2, 3, 1, 2, 3, 4, 1

1, 3, 2, 2, 3, 1 end ~~Page~~ 1404

⇒ in those 10 mins, the above
is a sample (approx 70%) of flock
size flying from colony. ~~the~~
~~the~~ ~~that~~ ~~that~~ flocking were
0.5 - 1.5 m above water

during this period there were birds steadily returning from the

Fri 31/3/95 77 contd.

direction and birds on the water
in classes etc. — mostly in
twos, some in 3's, some in 1's.
eg 1, 1, 1, 2, 1, 2, 1, 2, 3, 2, 2, 2, 2, 2

2413 in — 24 along island shoreline
section (E)

Note that moderate E wind has
been blowing all day (& all last
night). Water of Bellund is
muddily brown over virtually entire
visible area (from island) — probably caused
by ~~more~~ wave action on sediments.

1440 — only 5 along E shoreline section
of island.

(78) Fri 31/3/95 Contd

1446 hrs — for the past 10 min ~~was~~ or so many more birds seem to be leaving than returning — which didn't appear to be the case before.

1449 18 birds along E shoreline sector of island — some washing, preening, copulating, feeding. Most are standing in shallow water.

1501 There's notice that there is less frenetic activity going on in colony than on last visit (15/3).

The colony appears to be at least 2x as large as on 15/3.

1402 — 1 Rooster feeding at edge

Fri 31/3/95 ⁷⁹ London

of our tide island.

1st [concrete - 28 m long - film.
type

2nd [mudstone piers (2)

3rd [mudstone piers - ^{drummers} ~~plys~~
2m pipe square]

Count x 3

1 Walked to end of our island and set down at
~~15:38~~ 15:38 hrs. 3 Red-eyed plovers
on our shoreline.

No frantic behaviour going on in colony
as was the case on 15/3. 95-98%

of birds in the colony were sitting quietly.
Those not sitting included some standing resting with
head tucked behind; some preening.

A few birds attempting (at least) moult in
colony.

Many unattended eggs on slopes below colony were

80
Frc 31/3/95 Contd.

1550 areas walked across & reached
east end of little intermediate island
Sat down again to observe.

Moved forward & sat again at 1556 hr.
Observed eggs on this island have
been present since 15/3.



hole



typical predation signs

4.25 we moved in to plots

quiet

4.44 we got back to edge of island

4.46 all birds back on nests

(81)
Fri 31/3/95
Contd

sent approx 1710 hrs.

finished at 1721 hrs

ADCD EAGLE JUKL MNOP

in ~~SE~~ direction

(83)

most of

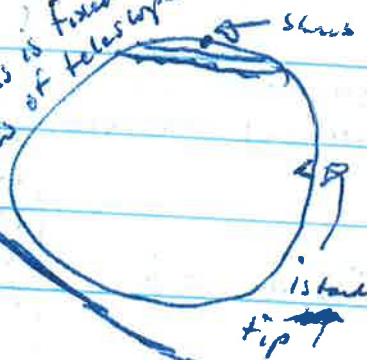
Sat 1st April 95: I spent the day on
Camp Island counting skitt in + out of colony ^{at}
every hour.

~~7 4 1 2 3~~

Started at 6am with
notebook - no good.

Restarted at 0612
with tape recorder.

This is fixed
view of telescope



0612 hr → 0622 hr
(197 → 338 on tape)

IN	OUT
1122111111112111111121	121131281311141413118111111111
125111211211111211231	12122121331212131123212334
332211226111211121	111412
11122112111113121211	
121121522111112321	
2211211121331511123	
1111111121122331112	
2111	

Total: 119

Total: 217

84

Sat 1/4/95 contd.

0710-0712 hrs.

0710-0712 hrs. ~~136~~ 136 on beach section.

95% ~~preening~~ preening, 4% washing
a few feeding - & chasing in shelter

IN		OUT
2 2 1 1 1 3 1		232131422214111211222131112
21213123111216	(10) (20)	11211131113111112252221
		42122511342521311143222212
		231114212(15)11141522111121
Total : 62		12521113231112534311213814
		21
		TOTAL : 298

↑ 0700 → 0710 hrs
(339 → 499 on Apr)

0810 - 0812 Ls - p2 on E beach section

all morning except 2 working, 6 feeding

and 1 for attempting murder

Temp 0817_h = 16.7°C

08224 16.2°

g) thermometer is stored in shade 0.5 m above ground

0800 → 0810 hrs.
(499 → 699 on tape)

Sat 1/4/85 Under

(85)

IN	Out
253153311622122	26142331212334111 2088 (25) 33
3131113313312211	211211311 (10) 431114211121121
12132111113212112	41 (10) 3111121 (10) 22221114312
3	51216 (30) 311212232221521
	1113
Total: 98	Total: 290

2. Grey Teal seen fly by earlier.
2. Starling heard approx 8.30 hrs

0830 Wind dropped to light.

0840 Sun started to shine

(earlier this morning it was almost continuously overcast with medium → strong E wind)

0858 Raven

1 disturbed along
- dropped - to centre - they (Base)
all lifted - then he flew out -
they settled

0910 - 0912 hrs only 12 birds on E beach section
(6 walking, 3 feeding, 3 preening)

0914 hrs - 18°C in shade.

(86)

0900 → 0910 hr

(755 → 876)

(first part
by way of
2nd side)

IN	OUT
22211241114214112	322311113432222311122121
131421213117321	21112543121122152431
	13211531122112111232136
	4 (36) (26) 3213
TOTAL: 66	TOTAL = 200
	2

Attempted copulation in deep water near
inland at 0910 hr.

0930 hr - Mark female moved in on S
end of colony - much disturbance

1010-1012 hr — 22 ^{Dist} ~~Dist~~ in E beach sector

5 working, 11 feeding, 1 attempting to mount,
1 avoiding mount, 4 preening

1013 hr — Temp = 18.5°C

1000 → 1010 hrs.
(876 → 009 on type)

1/4/95 Contd

(87)

IN	OUT
111211132112311211	11213131141111211113151211
4111215512115111	22111921111221212211111211
23211111141111	1143221111212212136213121
Total: 84 birds.	1131127512112221123211
	234312
	Total: 192 birds

1 correct flying post

TODO: height of island - colony
shelter on!

1110-1112 hrs

21 birds

back
feather
renewed

on back
sector

(4 working, 5 preening, 1 - heavily moulted)
(1 mostly moulted, 10 feeding)

1113 hrs - temp = 20.8 °C

1100 → 1110 hrs 009 → 162 on type

IN	OUT
111211212411221211221	2231112222122214117231121
11121231221131	211131(25)2121131112143321
Total: 63	1112131212212162121212
	(12)8232412116113311214
	4111532121
	Total: 232

(88)

Sat 1/4/95 Contd

1210 - 1244 hrs 43 birds on E beach section

16 preening, 13 nesting
13 feeding, 1 chasing

1215 hrs - temp = 22.9 °C

1200 → 1210 hrs 162 → 350 on type

IN

OUT

3111111121156113111212
2111118221211

131122211131221121327
312142112223112113162
1122112122121113122212
1111311

Total: 65

Total 125

1 Gannet on water

Male Laysan left island (breeding)
at 1055 hrs

Sat 1/4/95 Contd.

(89)

1310-1312^{hr} - 59 birds on E sector of beach.

incl 29 preening, 10 washing
7 feeding 1 attempting to roost
1 avoiding roost.
(extra 11 left.)

1316 hr - 22.2°C^{air} temp.

1300-1310 hrs		(764 → 380)
IN		OUT
2.11111111511113121112		112312123222131211252212121
32112231112121111		333112211112212(10)11412321
111111412113113213		141121221213552
2		
Total = 97		Total = 133

1414-1415 hr

Typed count of E sector of beach

37 birds → preening 18+1+2+2 = 23
feeding 1+1 = 2
washing 3+2+1+4+1 = 11
drinking 1 = 1

At 1417 hr - temp = 23.7°C

90

Lebe Bellerud count

Sat 1/4/95 Contd

1400 → 1410 hrs

(830 → on type)

IN	OUT
2112121141111432312111	111221131111233122412222
2221521211231111312	1215211521121511115212
111223111231112221	12

Total: 102 ✓

Total: 91

1515 hrs - Temp is 23.5°C

1500 - 1510 hrs

(20 →

on Ke type

IN	OUT
112116121211121111111321	211123231121111132211
112411122221321121113	411214145211233111233
1113113	11311122232221113111
	222

TOTAL: 85

TOTAL: 119

Sat 1/4/95 Contd

(91)

1510 → 1512 hrs.

39

Birds on E beach sector

preening (23)	preening: 2+1+4+3+3+2+2+2+2
washing (8)	washing: 1+1+3+1+2
dabbling in water (2)	dabbling in water: 1+1
walking (4)	walking: 2+1+1
standing (1)	standing: 1
drinking (1)	drinking: 1

39

Start type at 199 at 1600 hrs.

Temp at 1611 hrs = 23.8 °C

ABCD EFGH IJKL MNOP

Distributed the birds

4.25 → 4.32 hrs

ie 7 mins

Photos 28 → 31 incl
of Ekta 100 ASA
in old camera (more)
with 28 mm lens.

did laying rate
gradients in sequence

4.41 → 4.48 hrs - 10 quadrats

ie 7 mins

a repeat of yesterday's photos but
without tape. mainly to see if any

hatching yet - NO. Count also did usual

check of middle row of 5 quadrats - NO

hatching

Used
new roll
100 ASA (photo
2-21)

(92)

Sat 1/4/95
Cov. 1/4

1600 → 1610 hrs.

(199 →

IN	OUT
111311511241111314	21211321452113112
1212211211122111	4131122111111313121
1111121324116223	21112112211221131113
11	2122311114111221
	212
TOTAL: 91	TOTAL: 130

1610 → 1612 hrs birds in ^E Duck section

* preening 2+1+3+2+2+1 = (11)

* wetting 1 (1)

* washing 1+1+1+1+4 (8)

feeding 3+2 (5)

dipping (Pung?) 3 (3)

28 birds
in total

Sat 1/4/95 ⁹³ contd.

1714 hrs — Temp = 22.9°C

1702 → 1712 hrs (760 →

IN	OUT
221121111221211	22221111111121111111
21111922313212111	12311212142118111322
124221121142211211	1111211
41	

TOTAL: 92

TOTAL: 77

1712 → 1713 hrs

Ecumen beach section

preening: 9,2 = ⑩
washing: 1,4 = ⑤

16 birds only

1745 hrs Heard 2 Greenbeaks calling.

Quercus photographed ^{at} 4.25 → 4.32 pm were
ABHG, BCIT, CDTI, DEKT, EFLK, QREW,
PQWV, OPVU, NOUT, MNTS in that
order.

(94)

Sat 1/4/95 Contd

1800 → 1810 hrs

C887 → on tape

IN	OUT
12286311(12)12112522	1143121113121
11111311111221111115	211
1141	

TOTAL: 89

TOTAL: 26

Midge rising 6.00 → 6.10 pm

1810 → 1812 hrs
Bugs on E back sector

Absolutely none!

Note that the breeze was a light → gentle E
wind in the afternoon and dusk.

Temp at 1812 hrs was 21.5 °C

Sunset was at 5.57 pm.

Sat 1/4/95 ⁽⁹⁵⁾ Count

Summary of 1/4/95 counts

Time	IN	OUT
0612 - 22	217	119
0700 - 20 ¹⁰	62	298
0800 - 10	98	290
0900 - 10	66	200
1000 - 10	84	192
1100 - 10	63	232
1200 - 10	65	125
1300 - 10	97	133
1400 - 10	102	91
1500 - 10	85	119
1600 - 10	91	130
1702 - 12	92	77
1800 - 1810	89	26

of Bees flying IN and OUT of colony
(to & from the RSE)

1/4/95 contd

(96)

Mark "Lemble"
saw "Gross" flew in to
west of colony, colony lifted in
- ~~was~~ were from N end to S
end - as it lifted the Redpolls
took off from other side &
harassed the raven - they
drove raven off (followed it
for several hundred meters) (one
dropped out early, the other 2 kept
harassing it). ~~The~~ Raven didn't
get below approx 20'. (It
came in, did a circle, then
the Redpolls came in and it
flew off). Approx 80%
of the colony went up. They
went up and straight back down,
no flying about. They lifted
20-30'.

1/4/95 Contd

(97)

The "crow" flew in from direction of Lago on debris stone line. It flew straight to colony, then curved around to W side end in $\frac{2}{3}$ up from S end of island - it had a minimum height of approx 20'. It didn't get near to ground. The mass lifting of the Skuas may have put it off but plovers also had a go at it. They "were bombing it" and appeared to hit it. None of the Skuas attempted to chase or harass the "crow".

~~There~~ Best heard calling around campsite island continuously after dark till at least 9.50 p.m.

Do table of bird numbers on E beach section at hourly intervals on 1/4/95

98

~~Sept 2~~ (1)

Clare will be in Kaly
in 10 days (from 2/4)

(2) Kaly even says ~~was~~ ^{was} trying
5270 if can't get ^{100's} on 8070
on Monday

Redemptor from Mike Charles (Woodside)
at 1208 has been 2/4/85



9 312828 005619