

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.

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<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 (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)

Nº 17

\$0.650



NOTE BOOK

No. 561

21 DEC 95 → 19 JUNE 96

① J. Lane ①

CALM

Busselton 6280

ph 097 521 677

Lea
Note Lea's B'Day is 23/11
Therefore Vase & Mary
profiling date of Nov 1987
(Verniques & Jim) is the
earlier of the two Nov dates
(see travel claim)

(2)

28 200 15 count
 Cynet count on Vasse Estuary was
 conducted on 22/12/93 commencing
 1230 hrs and concluding 5.40 pm.

Summary (22/12/93)

very small downy	4 +
small downy	18
small to med downy	4
medium downy	66
med to large downy	29
large downy	249
large downy to feathered	103
small feathered	23
medium feathered	115
large feathered	155
	766

(3)

Thurs 21 Dec 95

Vance Estuary floodgate gauge.

at 0920 read + 0.21 m

Start at 0950

2 lf

1 mfg.

4 lf

3 mfg

3 mfg

8 lf

2 ld → f

1 mf

10 mf

2 lf

??
mld → f

1 ld → f

1 lf

2 md

1 ld

2 lf

3 ld → f

4 lf.

Stop.

1110 hrs at first pond

3 mf	3 lf
5 ld → f	1 md
4 lf	9 m → ld
1 ld → f	4 md
2 lf	1 mf
1 mf	1 lf
2 ld → f	2 ld → f
2 lf	1 lf
2 ld → f	3 lf
8 lf	1 lf
3 ld → f	1 lf
4 lf	3 ld → f
11 lf	4 md
5 ld	3 m → ld
2 lf	1 lf
3 mf	1 mf
5 mf	

Tiger Snake

Tiger Snake

5

3 ld $\rightarrow$ f

2 mf

4 ldf

1 lf

4 lf

1 mf

3 mf

2 lf

2 lf

1 mf

3 lf

2 ldf

2 ld

2 mf

2 lf

5 ld $\rightarrow$ f

1 mf

5 ld

3 ld

1 lf

2 lf

1 lf

2 ld $\rightarrow$ f

1 lf

2 lf

~~2~~ 6 mf

5 mf

4 lf

7 ld $\rightarrow$ f

2 mf

1 mf

2 ld

6 ld

6

13 ld

2 ldf

8 ld

6 ldf

5 ldf

7 ld

3 mf

1 lf

1 mf

2 mf

5 mf

5 mf

3 lf

5 lf

2 lf

3 ldf

2 ld

4 lf

2 ldf

3 lf

2 lf

3 lf

4 ldf

6 lf

2 ldf

4 lf

4 ld

5 lf

3 ld

1 lf

1 ldf

4 mf

4 ld

2 lf

5 mf

⑦

5 mf

1 y

5 y

1 mf

3 ld

9 y

1 mf

3 y

5 ld

2 y

5 ld → f

3 ld → f

3 y

2 mf

6 ld → f

8 ld → f

Grouse

5 large downy grouse
in Mullup Cr

Finish (Ford Rd) 2:05
pm

8

Shoreline - Vase Estuary 21/12/95

V. Small downy

small downy

small → med downy

medium downy

32144

14

med → large downy

93

12

large downy

78

152532613824347355

large downy → feathered

94

4212635368

213512232334252752

small feathered

10

medium feathered

85

1311031351121112165213

1552545112

large feathered

156

11422321211243221543

248212442284112311311

364512159323

TOTAL : 439

⑨

c 1200 adults counted
by Grant.

(10)

Cygnets counts - Uesse Estuary

	22/12/93	21/12/95
V. Small downy	4+	
Small downy	18	
Small → med. downy	4	
medium downy	66	14
med → large downy	29	12
Large downy	249	78
large downy → feathered	103	94
Small feathered	23	0
medium feathered	115	85
Large feathered	155	156
Totals	766	439

Conclusions

- ① "small feathered" not a good age class

(11)

③ appear to be fewer eggrets produced in 1995 than 1993

~~Typically due to winter~~

~~④ winter flooding of nests~~

④ data does not support theory that flooding of nests in winter had dramatic adverse impact on number of eggrets produced (though does not disprove either)

⑤ data indicates there was later nesting in 1993 than in 1995. This is contrary to expectation that flooding in 1995 would have ~~prevented~~ resulted in a second, later nesting effort. But

note that ^{rainfall} nesting in 1993 was late and nesting ~~was~~ later than ~~the~~ was ~~for~~ probably therefore later than usual in 1993.

(6) There will not be a problem of 100% of late eggs on Vorse Estuary in early 1996 — this is an unexpected result.

(7) need to view all water level and rainfall data for 1993 and 1995 to form up an explanation of results.

note that ^{rainfall} nesting in 1993 was
late and nesting ~~later~~ later than
was ~~for~~ probably therefore
later than usual in 1993.

(6) There will not be a problem
of 100% of late eggs on Vase
Island in early 1996 — this
is an unexpected result.

(7) need to view all water level
and rainfall data for 1993
and 1995 to firm up on
explanation of results.

(13)

Fri 22nd Dec 95

Port George side

Calibrated Wam against 36.0 ppt
standard.

Water sample taken at pump
(not opening) at 1130 hrs
= 27.8 ppt.

Where channel enters harbour
(at 1140 hrs) = ~~2~~ 37.9 ppt.

Large pool at Harbour side
(at 1150 hrs) = ~~2~~ 1.5 ppt.

Nov 27 Dues

Vona Estuary floodgate gauge
reads 70.26 m at 0835 hr.

reads 70.26 m at 0835 hr.

→ water level below all banks

~ all flap valves closed

type of water can be similar in

ocean side, to maintain

~~Gruppe C - 49 P. 25 von 49~~

... 1990-2000 ...

[illegible]

Nov 27 Dec 95

Voss Estuary floodgate gauge
reads +0.26 m at 0835 hr.

- water level below all boards
- all flap valves closed

- water level fluctuates on
ocean side.

~~at 0835 hr - top 0.25 m of the~~
~~top 0.25 m of the~~

Time	Depth	Temp	Sal
0835	0.1	10.5	30.0
0845	0.2	10.5	30.0
0855	0.3	10.5	30.0
0905	0.4	10.5	30.0
0915	0.5	10.5	30.0
0925	0.6	10.5	30.0
0935	0.7	10.5	30.0
0945	0.8	10.5	30.0
0955	0.9	10.5	30.0
1005	1.0	10.5	30.0

(18)

Fri 5 Jan '96

Salinity Reading

Tested Hemon against 36.0 ppt
standard at 1040 hrs.

It read 35.9 ppt - I adjusted
it to read 36.0 ppt.

Stn	Time	Depth	Salinity
Tied to pylons on upstream side of Vance hydroelectric (creek)	1043	surface (0.1)	14.4
		1.0 m	14.4
		2.0 m	29.0
		1.4	22.9

(15)

Fri 5 Jan '96

Salinity Profiling

Tested Hannon against 36.0 ppt
standard at 1040 hrs.

It read 35.9 ppt - I adjusted
it to read 36.0 ppt.

Stn	Time	Depth	Salinity
Tied to pylon on upstream side of Vance bridge (control)	1043	surface (0.1)	14.4
		1.0 m	14.4
		2.0 m	29.0
		1.4	22.9

Σ. 21	2.0	1.6	27.7
			26.2
	8.0	0.8	14.5
Σ. 21	0.1	0.2	14.5
Σ. 21	5.1	0.4	14.5
		0.2	14.5
Σ. 21	1.0	7.2	18.6
Σ. 1050	2.0	1.8	28.3
Σ. 21	2.0		

Palm Tree	1103	2.0	0.1	14.3
Σ. 21	8.0	0.2	"	
Σ. 21	0.1	0.4	"	
Σ. 21	5.1	0.6	"	
Σ. 21	4.1	0.8	14.4	
Σ. 21	2.1	1.0	14.4	
Σ. 81106	8.1	1.1	14.4	

dead tree	1109	0.5	0.1	14.3
power pole			0.2	"
Palm tree			0.4	"

(16)

Σ	2.0	1.6	27.7
	8.0	0.8	26.2
Σ	0.1	0.6	14.5
Σ	5.1	0.4	14.5
		0.2	14.5
Σ	1.0	1.2	18.6
Σ	1050	1.8	28.3
Σ	2.0		

Palm Tree	1103	0.1	14.3
Σ	8.0	0.2	"
Σ	0.1	0.4	"
Σ	5.1	0.6	"
Σ	4.1	0.8	14.4
Σ	2.1	1.0	14.4
Σ	81106	1.1	14.4

dead tree	1109	0.1	14.3
power pole		0.2	"
Palm tree		0.4	"

(17)

	0.6	0.6	14.3
		0.8	"
		1.0	14.5
III		1.2	14.5'

(2) of V+L	III	0.1	14.2
		0.2	14.2
		0.4	14.3

Σ. 41 1.0 0.6 2014.3

" 2.0 0.8 14.5'

" 4.0 1.0 14.5

" 6.0 1.2 14.6

4. 41 8.0 1.4 14.8

4. 41 0.1 1.6 17.5

4. 41 1.0 1.8 20 18.6

Σ. 41 1.0 2.0 20 19.0

" 5.0

" 9.0

(3) of U+L	1125	0.1	14.0
		0.2	"
		0.4	"
		0.6	14.3
		0.8	14.5
		1.0	"
		1.2	15.3
		1.4	16.3

(3.5)	1134	0.1	14.1
		0.2	14.1
		0.4	"
		0.6	"
		0.8	14.5
		1.0	15.1
		1.2	"
	1136	1.4	15.3

(19)

(4) of
U+L

1141.5

0.1

13.6

0.2

13.6

0.4

"

1142.0

0.6

"

(5) of
U+L

1147.5

0.1

13.3

0.2

0.4

0.5

13.3

(6) of
U+L

1155

0.1

12.0

0.2

12.0

0.4

12.0

5/1/96 ⁽²⁰⁾ Contd

(7) of U/L	1202	0.1	10.4
		0.2	
		0.4	
		0.6	
		0.8	10.4

Stack at floodgates at 12.28 hrs.
Went back in vehicle.

Water level at Vase Floodgate
gauge reads + 0.21 m.

- Water level slightly higher on east side
- slight knock out
- All boards in
- ~~Water~~ level below all boards
- All flap valves closed

5/1/96 (20) Contd

(7) of	1202	0.1	10.4
U+L		0.2	
		0.4	
		0.6	
0.5	1204.0	0.8	10.4

Stack at floodgates at 12.28 hrs.
Went back to vehicle.

Water level at Vase Floodgate
gauge reads + 0.21 m.

Water level slightly higher on east side
- slight back out

- All boards in
- Water level below all boards

- All flap valves closed

(21)

Note that 1 or more flap
valves will be opened this afternoon.

	1314	0.1 pos	27.0
over side of flaps		0.2	31.5
		0.4	33.5
		0.6	33.8
		0.8	34.0
		1.0	"
		1.2	"
	1317	1.3 1.3	34.0

under powerline (4 wires)	1320	0.1	33.6
		0.2	"
		0.4	34.0

Q

		0.6	34.1
		0.8	34.3
		1.0	"
	1323	1.0 1.1	34.3

little island
on right

	1328	1.0	33.5'
		0.1	33.5'
		0.2	33.5'
		0.4	"
		0.6	33.7
		0.8	34.2
	1330	0.9	34.1

under
bridge
(centre)

	1334	0.1	33.2
		0.2	"
		0.4	33.4
		0.6	33.4
		0.8	33.8
		1.0	34.0

(23)

	1.45	2.0	1.2	34.0
	2.45	8.0	1.4	
		1337	1.4	34.0
Ocean entrance	1343	0.1	34.6	
(just open)		0.2	"	
		0.4	34.7	
		0.6	"	
		0.8	"	
	1345	1.0	"	
Downing flange	1348	0.1	34.5	
		0.2	"	
		0.4	"	
		0.6	"	
		0.8	"	
		1.0	"	
		1.2	34.6	

5/1/96 (24) Contd.

	1.4	34.5 V
		35.5 V
1353	1.6	34.6 V
	1.8	34.7 V

Wannings Estuary floodgates

Needs + 0.02 m at [redacted]

1430 hrs

- all banks in
- water level lower on estuary ^{side}
- water trickling in.
- all flap valves closed

(26)

5/1/96 Contd

Wonnemup

Cover gauge (E end)

Q28 m at 1701 hrs

top - 7.6 ppt
bottom - 7.6 ppt

Wonnemup
Phosphate

1722	0.1	34.4
	0.2	34.5
	0.4	34.6
	0.6	34.6
	0.8	34.6
1726	1.0	34.8

(27)

6/1/96

Ford Rd. (Vine Estuary)

Tester against 36.00 ppt standard. It read
36.2 ppt. Reset at 36.0 ppt.

depth = 38 cm

top = 1.0 ppt

bottom = 0.0 ppt

7.03 am

0 opposite Wilmoth's entrance (next to
fenced off chunk of trees)

depth = 35 cm

top = 5.9 ppt

bottom = 5.9 ppt

7.22 am

End of Sewage Pumping Station
 (W edge of Port George land)
 (c 15 m beyond cross water level
 recorder)

depth = 39 cm

bottom = 6.1 ppt

top = 6.1 ppt

time = 7.35 hrs.

⑥ opposite 8 Vess A Suez Colony

depth = 34 cm

bottom = 8.8 ppt

top = 8.8 ppt

At last 2 stops & there is
 much "clipped" Ruppia ~~bottom~~

(29)

6/1/96 cont.

accumulated near shoreline
(floating band circ. 5 m wide)

The further out the water
is largely clear of growth,
sediment very disturbed, bottom
v. uneven (at last stop at
beach) ... Still
many waterbirds (incl. ducks +
owls) on the estuary. They
are presumably harassing the
Rays as food supply

Verse Estuary fluorogates read
+ 0.21 m at 0817 hrs.

- all boards in
- flap valves 7 + 8 (from S)
open

(29)

6/1/86

cont.

accumulated near shoreline
(floating band c.c. 5 m wide)

The further out the water
is largely clear of growth,
sediment very disturbed, bottom
v. uneven. (at last stop at
beach) ... Still
many waterbirds (incl. ducks &
owls) on the estuary. They
are presumably harvesting the
Ruppia as food supply

Vase Estuary fluorometer read
+ 0.21 m at 0817 hrs.

- all boards in

- flap valves 7 & 8 (from S)
open

Vase Estuary +

30

- water level below all boats
- water level higher on ~~estuary~~ side
- slight backing out
(flood valves were opened
yesterday afternoon)

6/1/96

Island Pt (Heavy Estuary)
gauge reads

- 0.12 m at 1004 hrs.

Didn't have 2 ppt + 36 ppt
standards but instrument was
calibrated yesterday.

(31)

Herring River

6/1/96
Cont'd

Sta	Time	Depth	Sal (ppt)	Temp
0.0 km	1043 hrs	0.1	8.8	28.8
		0.2	10.0 ✓	28.5
		0.3	20.5 ✓	28.1

depth	mg/L	o/o	Temp
0.1	—	97.6	28.8
0.3	—	100.1	28.5

0.5 km	1057 hrs	0.1	4.3	29.4
		0.2	4.3	29.3
		0.4	8.0 ✓	28.7
		0.6	26.5	28.2
		0.7	32.9	27.1

Depth	mg/L	%	Temp
0.1	—	101%	29.2
0.7	—	101%	28.1

Harvey River

6/1/96 ⁽³²⁾ contd

Slight flow downstream (clearly visible)

Sta	Time	Depth	Sal	Temp
1.0 km	1108 hrs.	0.1	3.6	29.0
		0.2	3.6	"
		0.4	15.0 v	28.7
		0.5	28.0	28.5
		Depth	mg/L	% Temp
		0.1 m	—	98.1 v 29.2
		0.5	—	91.1 28.6
1.5 km	1117	0.1	3.0 3.0	29.1
		0.2	3.2	28.9
		0.4	5.0 v	28.6
		0.6	30.8	28.4
		0.8	34.9	27.4

(33)

Hemery River

6/1/96 Contd

Stn	Time	Depth	Sal	Temp
105	Depth	mg/L	%	Temp
km	0.1	—	99.5	28.0
Contd	0.8	—	98.5	27.7
Wade at	1127	0.1	3.1	28.7
1.8k		0.2	3.1	28.7
		0.4	3.3	28.6
		0.6	32.4	28.6
		0.8	34.2	28.2
		1.0	34.8	27.9
		1.2	35.3	27.7
		1.4	35.5	27.5
		1.6	35.6	27.7
		1.8	35.9	28.1
	Depth	mg/L	%	Temp
	0.1	—	95.5	28.8
	0.4		97.3	28.6
	0.6		130 v	28.5

6/1/96 (34) Contd.

	Depth	mg/l	%	
Wale at	0.8	—	110 ✓	28.1
1.8 is	1.0	—	44.5	27.8
Contd.	1.2	—	53.5	27.5
	1.4	—	44.5	27.5
	1.6	—	32.1	27.6
	1.8	—	0.1	27.9
			=	

variable O₂ probably due to boat drifting E & W

Shr	Time	Depth	Sal	Temp
2.0 hr	1153	0.1	2.4	29.2
		0.2	2.5	29.1
		0.4	2.65	28.8
		0.6	31.4	28.9
		0.8	34.2	28.6
		1.0	35.1	28.4

35

Heavy River

6/1/86

Contd

Sta	Time	Depth	Sal	Temp
Hole at 2.1 km	1200	0.1	2.2	28.1
		0.2	2.4	29.0
		0.4	2.7	28.8
		0.6	29.4	29.3
		0.8	33.4	29.1
		1.0	34.0	29.0
		1.2	34.6	29.0
		1.4	34.7	29.0
		1.6	34.8	29.0
		1.8	34.8	29.0
		2.0	34.9	29.0
		2.2	34.9	29.0
		2.4	34.9	29.0
		2.6	35.0	29.1
		2.8	35.1	29.1

Sat 6/1/96 ⁽³⁶⁾ Cont'd

	Depth	mg/l	%	Temp
2.1 W	0.1	—	102 v	29.0
hole control	0.2	—	103	29.0
	0.4	—	103	28.9
	0.6	—	104	28.9 29.2
	0.8	—	89 v	29.2
	1.0	—	49	29.0
	1.2	—	26	28.9
	1.4	—	27	29.0
	1.6	—	22.5	28.9
	1.8	—	21.2	29.0
	2.0	—	19.0 v	29.0
	2.2	—	18.5	29.0
	2.4	—	17.1	29.0
	2.6	—	3.3	29.0
	2.8	—	0.1	28.9

(37) Harvey Lane

6/1/86
contd.

	Time	Depth	Sal	Temp
2.3K	1225	0.1	1.55	29.2
hole		0.2	1.7	29.1
		0.4	1.8	28.9
		0.6	10.0 v	29.3
		0.8	32.4	29.6
		1.0	33.7	29.7
		1.2	34.0	29.6
		1.4	34.2	29.6
		1.6	34.0	29.6
	1231	1.7	34.2	29.7
2.5K	1234	0.1	1.3	29.4
		0.2	1.35	29.3
		0.4	1.5	28.9
		0.6	2.0	28.7
		0.8	26.5	29.2
		1.0	31.8	29.8
		1.2	32.3	29.8

Stn	Time	Depth	Sal (ppt)	Temp
2.5k		1.4	32.5	29.9
Cont'd		1.6	32.8	30.0
		1.8	32.9	30.0
hole at 2.8k	1245	0.1	0.97	29.2
		0.2	0.98	29.1
		0.4	1.0	28.7
		0.6	1.1	28.6
		0.8	1.55	28.2
		1.0	26.5	28.9
		1.2	29.6	29.9
		1.4	29.5 30.5	30.1
		1.6	30.5	30.1
		1.8	30.5	30.1
		2.0	30.7	30.2
		2.2	30.8	30.2
		2.4	30.9	30.2

(39)

Time	Depth	mg/L	%	Temp
	0.1	-	97.5	29.2
	0.4	-	97.5	28.9
	0.6	-	99.2	28.6
	0.8	-	99.2	28.2
	1.2	-	10.0	29.6
	1.6	-	12.2	30.1
	2.0	-	<u>-0.5</u>	30.1
	2.4			
1300 hrs.	<u>1.0</u>	-	27.0	29.8


 broke on boat said he caught
 a few mackerel here last year
 and had seen a couple of
 creels! just before we arrived!

Sh	Time	Depth	Sal	Temp
3.04	1305 hrs	0.1	0.77	28.7
		0.2	0.83	28.5
		0.4	0.86	28.4
		0.6	1.07	28.3
		0.8	4.5	28.2
		1.0	23.4	28.6
		1.2	29.0	29.5

3.34 hole	1316 hrs	0.1	0.49	28.4
		0.2	0.50	28.3
		0.4	0.48	27.8
		0.6	0.70	27.3
		0.8	4.5	27.3
		1.0	10.9	27.9
		1.2	21.1	28.4
		1.4	24.1	28.9
		1.6	25.3	28.8

(41)

	Depth	mg/l	%	Temp
hole at	0.1	—	92.9	28.8
3.34	0.6	—	91.0	27.7
contd.	1.0	—	52.0	28.1
	1.2	—	11.5	28.6
	1.4	—	—1.1	29.0
	1.6	—	—1.1	29.0
	<u>0.8</u>	—	70.0	27.8

Stn	Time	Depth	Sal	Temp
3.34 3.5	1330	0.1	0.39	27.9
K		0.2	0.39	28.0
		0.4	0.39	27.7
		0.6	0.45	27.4
		0.8	0.57	27.2
		1.0	13.0	27.9
		1.2		
		1.1	16.7	28.2

6/1/96 (42) Lmbl

Stn	Time	Depth	Sal	Temp
4.0 K	1405	0.1 0.1	0.33	29.8
		0.2	0.33	29.6
		0.4	0.33	29.4
		0.6	0.32	28.4
		0.8	0.32	28.3
		1.0	0.32	28.2
		1.2	0.32	28.0
		1.4	0.32	27.9
		1.6	0.34	27.7
		1.8	1.7	26.7
		2.0	24.0	26.3
		2.2	27.2	25.7
	1413 hrs.			

Depth	mg/l	%	Temp
0.1		103	28.3
1.0		97.5	28.0
1.4		96.1	27.9

(43)

6/1/96
Cont'd

	Depth	mg/L	%	Temp
4-OK	1.8	—	85.4	27.1
cont'd	2.2	—	-0.8	25.6
	2.0	—	-0.4	25.8

Sta	Time	Depth	Sal	Temp
4-34	1425	0.1	0.33	29.0
hole	hrs	0.2	0.33	29.2
		0.6	0.33	29.2
		1.0	"	"
		1.4	"	"
		1.8	"	"
		2.0	0.33	28.2 29.0

Depth	mg/L	%	Temp
0.1	—	106	29.2
1.0	—	103	29.2
2.0	—	88.3	27.9 29.0

Square section post ~~for~~ - water
level is 1.13 m below top
at 1435 hrs.

Sta	Time	Depth	Sal	Temp
4-4 or hole (on bench)	1435	0.1	0.32 0.32	29.3
		0.4	0.32	29.5
		0.8	0.32	29.6
		1.2	0.32	29.4
		1.6	0.32	29.4
		1.8	0.32	"
		2.0	0.32	29.3
		2.2	0.32	29.3
		2.4	0.32	29.3
		2.6	0.32	29.3
		2.8	0.32	29.4
		2.9	0.32	29.4

(45)

Stn	Time	Depth	Sal	Temp
-----	------	-------	-----	------

We didn't stop at 4.5 hr (dehbrake)

Holent	1451	0.1	0.31	30.3
--------	------	-----	------	------

4.8	hrs.	0.2	0.315	30.3
-----	------	-----	-------	------

K		<u>1.8</u>	0.315	29.6
---	--	------------	-------	------

		<u>1.0</u>	0.32	29.7
--	--	------------	------	------

mmmm

Depth	mg/l	%	Temp
-------	------	---	------

<u>0.1</u>	—	108	29.9
------------	---	-----	------

<u>1.0</u>	—	103	29.7
------------	---	-----	------

<u>1.8</u>	—	102	29.5
------------	---	-----	------

it didn't stop

Stn	Time	Depth	Sal	Temp
Hole	1502	2.6m	0.32	30.0
at		↗		
Siren		bottom.		
Marker				
21.14685				

Back at 4.0 k at 1601 hrs.

Depth at surface (0.1 m)

Was 0.325 ppt. Sample
of water was taken for analysis.

(memory)

Blotter near hole at 2.8 k not
there at 1615 hrs

(47)

Stn	Time	Depth	Sal	Temp
Hole at 1.8 km again (for interest only)	1628	0.1	1.8	30.2
		0.2	1.8	30.2
		0.4	2.2	30.4
		0.6	25.5	29.7
		0.8	31.5	29.2
		1.0	33.3	28.6
		1.2	34.6	28.2
		1.4	34.9	28.1
		1.6	35.0	28.0
		1.8	35.7	28.2
		<u>0.1</u>	1.75	29.9

200 m SW of Island bank	1727	0.1	38.3	30.8
		0.2	38.3	31.0
		0.3	38.3	—

(48)

6/1/96 contd

Isobut Pt gage reads

- 0.08 m at 1746 hrs

Vase Entry float gage
reads + 0.22 m at
1948 hrs.

- 2 floats valves closed open
- no flow in or out
(due to boards)

Vasse Estuary floodgate gauge
reads oppose + 0.05 m
at 1440 hrs on Sat 27/1/96.

~~3~~ Flap valves ~~6~~ 7 and 8
still closed over. Water pouring
into estuary. c40 cm deep
over boards (mostly removed) in
Bay 7; c5 cm deep over boards
(~~over~~ at least one removed)
of Bay 8. Water level on
~~the estuary side at low~~.

Cynthia Spencer Sat 30/3/96

Re 2 Dovett St Dsn

- retion is off mains

Retion = 5 stages 1-5 operational

- bushes (esp. roses) not so keen on bone water because alkaline

- needs resetting after power failure (or can install batteries)

- says in coverage

- I need to set it.

Don't turn main on at
when retion is on
& cut bushes
off.

Bone: turn legs on one at a time.

Wood: don't use small cut yard
pieces. Use Bark'sia heap.

Ducted vacuum: don't use (if it
blocks under the house it is very
difficult to clear).

54

Sat 18 May 96

Ute runs

Lees Nullahs — 26873.3 km

→ Jendelot → Chemist → Jendelot ~~22~~

↳ = 911.8 k

Took off 8.04 am (exactly)

Landed c 8.55 am.

Closure 172, door off

Doug Congdon, me, & pilot Andrew
Doot

Passes made at 400'

Clear sky, 30°C overnight,

Little/no wind, sunny, perfect!

Jendelot — ~~to~~ Chemist ~~22~~ 916.5 k

(55)

Left Braselton at hrs
on Tues 11/6. Arrived Baltimore at
at hrs.

Wed 12/6 - Crawley in AM, Woodville PM

Th 13/6 - Madlands $\rightarrow$ Woodville^{in AM} Left
Woodville at 3.40 pm and drove to
Geraldton, arriving at Hospitality Inn at
approx 8.30 pm.

Fri 14/6 ~~the~~ CAM office Geraldton in
the morning. Left Geraldton at
1.15 pm and drove to Uskess Lodge
(Class 2 phone calls) arriving there at
7.40 pm. Stayed in workers
quarters overnight.

Sat 15/6

Met Henry Bielewski at 7 am and
he drove me to evaporator ponds to
look for Bender Shilt.

(55)

Left Brusselton at _____ hrs
on Tues 11/6. Arrived Balmibeth
at _____ hrs.

Wed 12/6 - Crawley in AM, Woodside PM

Th 13/6 - Middlesbrough ^{in AM} → Woodside. Left
Woodside at 3.40 pm and drove to
Geraldton, arriving at Hospitality Inn at
approx 8.20 pm.

Fri 14/6 ~~the~~ CALM office Geraldton in
the morning. Left Geraldton at
1.15 pm and drove to Uskeas Lodge
(Clean 2 phone cells) arriving there at
7.40 pm. Stayed in workers
quarters overnight.

Sat 15/6

Met Henry Bielawski at 7 am and
he drove me to excretion point to
look for Bander Skilt.

Useless Loop

15/6/96 ⁽⁵⁶⁾

7.30am - at Useless Loop Exporter ^{Ponds}

Sheld 1 LBC + 1

Grebe 1 Red Heron.

Poyston 2 + 2

Cep Tern 2 Pink SNI

Bt G 6 + 2

Pomarine Gull

Silver Gull

Wf Chet

fish

algae

2 Pelican + 3 + 9 + 2 + 1

Greenlets.

2 Large Bird Cormorant + 1 + 2

Osprey

1 red fox

1 WHIT + 2 + 1

1 Gosh

(57)

Sat 15/6/96
cont

Henry Bielawski:

↓ Evaporator ponds
concentrator "
↓ crystalliser "

No birds on the concentrator or
crystalliser.

Photo taken of evaporators

inlet at Clough Bar

face at Warren Point

Salt loading facility

accommodation

Left Moelens loop at 1020 am.

58
15/6/96
Contd

1040 hr - photos of old (closed)
gypsum mining area on road out
of Hockley Loop. Gypsum mining
discontinued due to low price.

1300 hr - photos of electric fence
across Taillefer Estuary (Parr
Peninsula - near Shell Beach.
(Project Eden)

Mail info on Pelicans (HANZAB) + Shark Bay colony info to
Dolphin Centre at Monkey Mia



Photos of pelicans { End of 1st film
Start 2nd film
"Barrida" = salt pan

(59)

Sat 15/6/86

1640 hrs - Dry Lagoon (Kremer ^{Contd.}
Person National Park).

Get water edge were 7 Bant G,
also 2 Lesser Tern, 3 Pacific Gulls
1 Large Pied Cormorant.

Canon recommended tyre pressure
for sandy track into Dry Lagoon
is "16 PSI or until tyres
show a bulge."

Arrived at Denham at 5.30 pm and
booked into Shark Bay Hotel/Motel.
(it was raining).

60
Sun 16/6/96

Left Denham at c 6.45 am.

Stopped at Stromatolites centre at

bottom of Idameini Bay - photographed
stromatolites etc (to end of 100 ASA
Ektachrome). darkest bay in area!

Came to White Bluff just S of Gladstone

Tide low; appears to be wide intertidal
area in bay. No mangroves evident.

Gladstone at 1125 hrs: no shade trees,
no mangroves, no reeds, 7 camps
(canoes/tent), 1 toilet.

First appearance of *Carex* ??
(*Eragrostis*) ?? in patch on either
side of Hwy c 10 km N of Woomah
Roadhouse.

(61)

Lake M'Leod

16/6/86 contd

Tropic Air

Pilot Paul

took off at 1.50 pm (landed
at 3.25 pm.) Flew up W side
of Lake M'Leod.

2.21 pm Reached S end of "lagoon"
area. The whole of Lake M'Leod

from the southern end of the lake
to the "lagoon" is covered to
a shallow depth by water. Can
tell "lagoon" area (i.e. lagoon to S
of mangrove fringed lagoon) by change
in colour. It is obviously deeper
than the rest of the lake.

2.23.30 pm Reached northern end
of first lagoonal area.

2.24.26 Egret, c12 Pelican,
2 Swan, 2 Cormorant

Lebe M Good control

16/6/96 (62) control

2.26.-pm flock of c 90 pelicans
and c 20 gulls. They were
flying SE from where normal
channel reached megarine fringed lagoon

2.27.46 pm c 60 large Pied Cormorant at
upwelling - where water is actually coming
up.

1 pel, 1 Cormorant

2.29.55 c 90 pelican on E shoreline
of m-f lagoon

--- c 25 Pel

--- c 130 Pel ~~from water~~

c 80 Pel (initial flock)

2.32.- pm

2.32.20 pm c 100 Black Swan

2.34.11 pm c 300-400 Swan

2.35.08 pm ground to E is
dry.

SKIP A PAGE →

(63)

Sun 16/6/96

McNeil Clayton c 4pm $\rightarrow$ 5.20 pm

View from top of vehicle at entrance
to town Antlers Dams.

Sacred Ibis 25+

Sparrows 3+

Warblers 2

Sparrows - mixed Ibis 25+

5.15 pm White-f. Heron - 17+5+2+27

U. Duck (Padd?) - 5+2

Swamp Hen - 1

Silver Gull - 5+

Photos from hill. (near
end of old 64 ASA)
film in 2nd camera.)



This was an initial reconnaissance of
access to W side of McNeil
Clayton.

(54)
16/6/96 contd

Summary of Lake M'Leod aerial survey.

The only birds seen ~~seen~~ in the mangrove-fringed lagoon area, incl. canals, were:

$$\text{Pelican: } +c90 + 1 + 90 + 25 + 130 \\ = c350.$$

$$\text{Large Pied Cormorant: } 2 + c60 + 1 = c65$$

$$\text{Egret: } c25$$

$$\text{Black Swan: } c100 + c350 = c450$$

No birds in lagoonal area immediately south. Continuous water from S end of Lake M'Leod to mangrove-fringed lagoon and upwelling. Dry further N and NE.

See bird + marked route and times on B+N air "map". This was the ~~the~~ water-bird survey.

(25)

Lebe McLeod Cont'd

Sun 16/6/96

At approx 2.36 pm I ~~stopped~~
~~looking~~ concentrated on taking
photos (64 ASA Kodachrome 36 exp)
of the mangrove fringed lagoon &
upwellings. Then we flew
back to Cameroon down the middle
of the lake. Took photos along the
way. Saw approx 10-15 Banded Stilts
on ~~the~~ northernmost "banks" in centre
of lake. No other birds seen.

Note vegetation becoming established on
banks (see photos). Took
photos of salt works. Also photo
of lesson landed on lake by
stork/mindener who wanted a piece.
(plane dug in & broke wing).

Pencil marks on 1:250,000
maps show how far north the

Lake McLeod Creek

Sun 16/6/86 66

bursts are (I have only marked ~~3~~²
those on the W side of the lake,
but there are some further north)

Wide-graded track up W
side of lake to "grassy" area due
E of Cape Caer. Appears to
be serving v. large area to obtain
material for road & bursts (?). Vehicles
& people at "grassy" site. Still
a v. poor track further north.

Climbed into Ngapahilly In Cameron at
5.50 pm on Sun 16/6/86.

(67)

CARAWATON

17/6/96

To do Mon 17/6

~~Pay phone bill~~

~~Check out?~~

~~Mike's birthday~~

~~Phone Keanthe~~ ✓

~~Barker Ridge scene?~~ ✓

~~Dunedin Salt visit?~~ ✓ Fri

~~Mail~~

~~postcard~~

~~film~~

~~McNeill Clapper~~

~~Cash - CASH - Mastercard~~ ✓

~~water~~ ✓

"22"

Steve

Regina Flu ^{Steve}

Dunedin Salt

091 436 825 (other)

Direct is 091 ~~825~~ 436 869

CANADIAN

(68)

17/6/96

ring 7
via Glen Florrie

Nemere 12-1 pm.

all week.

(5⁶ km?)

Cross Henry River & head s
to get to Yeddygge.

has fence around -

- go past G F household
towards Warrar

see gap.

1:250,000 Edmund.

Dampier Salt

Regina Flugge 041 436 869 direct.

King her

Thurs evening - 853 173 h. *

re

Fri am - Leon Stande

Inspection

W 436840

(69)

McNeill Chapman Creek.

17/6/86

McNeill Chapman with DWD Mike Mahoney

0945 hrs - from Rialto Tj.

- c 50 S. I. S.

- c 25 S. I. S.

(Access from Hwy, over Brownage)
McNeill Chapman on my own.

Start at 1.07 pm

1.13 pm - DF Cuckoo Shrike in foraging
Cuckoo. Pk (64.05.0) of Acacia.

~~Arriving~~ Babblers

PaRD - ~~2~~ 19

Heard - ~~1~~ 14

WHY - 1 + 11 + 84

PeaD - ~~8~~ 24

GTL - ~~10~~ 57

Sibl - c 10

- Cuckoo (downwind "phew")

McNeill Chapman count

Mon 17/6/86

70

Count

✓ Brown Songbirds

✓ Pied Silt - flock of 76 resting
feeding in fine, flooded sedge. ^{immature} 40% have juvenile head plumage.

✓ Spring checked Honeyeater
seen

✓ Pectoral Cuckoo ~~(seen)~~ (seen & heard)

42 ducks counted (all spp)

Black Swan - 4

Honeyeater, yellow head, B/W check stripe, ♂ in late
2 copulating. (White-plumaged Honeyeater)

Y-b sparrowbill - 1

Chest Egret - 2

Snow-on Ibis - c120 (counted 96)

Glossy Ibis - 1

Northern Woodhewer over marsh.

Drooping adults

(71)

McNeill Chagson Contd.

(Australian Wading)

17/6/96

Little Falcons hovering & catching
food over marsh.

c 15 Sacred Ibis

1 Sharp-shinned hawk perched on a tree
for c 15 mins. Hawk dove for 15-25"
secs, then hovered overhead (flying
into moderate wind), 1-3 m above
treetop water, legs hanging down,
dropping to look each time it surfaced -
Hawk didn't appear to tire. Hawk gave
up after 15 mins. Water red/brown
in visibility. Ducks nearby weren't
bothered.

Few cattle tracks/dung. Chagson
ground seems relatively (?) uneven.
No cattle seen.

McNeill Clogson Contd

17/6/96 ⁽⁺²⁾

Saw 1 kestrel fly by close with adult dragonfly in its claws. It landed on a low (~~2m~~ $\approx 1m$) Encalypta "seedling" and proceeded to eat it.

There is a lot of cattle dung (not fresh) under & around the seedling Encalypts out on the marsh.

What is the *Recurv* (see photo) that is single stemmed, resprouting (grey), ~~0.5~~ $0.5 \rightarrow 1.5$ m high & scattered over the marsh? at densities up to $3/m^2$.

Rabbit dung & droppings on sand dune (vegetated) peninsula.

McNeill Cleypen Contd

17/6/96

(73)

Australian Hobby (last year)
- 1 ~~Perigone~~ ~~Falcon~~ ^{perching} ~~resting~~ in

Eric coohiba at edge of marsh.

Flashed over marsh & along edge of coohiba
then perched on 1 m high ~~Acacia~~ in marsh.

- 1 ~~Brahmany~~ Kite overhead at 1602 hrs.

Back at vehicle at 4.20 pm. Last
photo (auto exp) trees of fence line
(64 exp 50th 36 exp).

Scattered Legumin (Macclerbeckia cunninghamii)

brushes in the marsh area I looked at.

Note that this is v. close to the northern

limit for Legumin in W.A.

(buff bit)

1705 hrs - juvenile Pied Butcherbird

landed on rope in front of windscreen

while I am working notes on top of

Brown Range.

N'Neill Cloghan Count

17/6/96

(74)

Summary of N'Neill Cloghan Bird Date 16-17/6/96

	Counted	Estimated
Snowed Ibis	25+	25
Shrew - n Ibis	96	120
Glossy Ibis	1	1
Y-b. Spoonbill	1	1
W.f. Ibis	96	120
Great Egret	2	2
Black Swan	4	4 4
Black Duck	25 19	25
Grey Teal	57	60
Pink-e. Duck	24	25
Hardhead	14	15
Coot	1	1
Silver Gull	<10	15 15
Swamp Ibis	1	1
Pied Shit	76	76
Booby-like	1	1
16 spp		4 492
waterbirds		

Stayed at Ngapahatya Inn (Cormoran)
again on 17/6/96.

(75)

Ganarum → Mardiga 143 km
M. → Yenerie 256
Y. → Turnoff ~~c 38~~ 36.5 km
335 km
Turnoff → Glenflorie Hotel c 85' ✓
420 km.

Glenflorie Str: 099 430583

Listen for Rocks on radio?

Turnoff → Henry R. = 47 km
Henry R. → Yeddygga ~~Turnoff~~ = 13 km
60 km

Y. Turnoff → Yeddygga (Lg) c 18
c 78 km from
Henry

(76)

9 am at Mungla: rang Tulas 18/6/96

Glenflore Station had rainfall:

5 mm yesterday + 2^{mm} 10' night.
lots of debris - take them.
(on road in from Hwy)

Sasha Grey

Claim #2 for phone call from
Mungla to Glenflore station

Brother in law is fencing "the claypan"
(Yardjagga) at the moment. I will
see him. Husband is coming
in with the trucks tonight.

No sign at turnoff to Y. Claypan. Go past
a small claypan, then come westwards,
then turn south (to Tom Well & beyond)
Said I would call into herestead
on way to Koolberrina tomorrow.

(77)

Tue 18/6/96

0.0 Turn off NW Crashed Hwy

c13.5 km throo homestead turnoff

14.6 km - white weldmesh gate

15.1 track joins in on right at
5.30 (hrs) angle.

24.8 Another white weldmesh gate next
to NW Crashed Hwy! Wrong track,
turn back

34.5 Back to turnoff of 15.1 km.

Sign says "Colerflon HSD
45 MLS" (barely legible)
Took this track.

39.1 Gate.

39.5 Track comes in from right.

40.6 Grid.

51.7 bare area on S side of road
and sign saying "Remed Well"

Expect Henry River at 67.5 on odometer
approx

60.1 km: gate

65.4 km - 2 white juncos on creek Xing.

68.8 : track off to right (is this
the Belland Well turnoff?)

Expect yardy-jiff turnoff at about 81.8 km
on odometer

74.1 Old wooden yard & old cattle
drailer on S side of road. Large
ben tree. Question??

78.25 Gateway (no gate) (Enc)

78.6 knuckle of major road near
Xing.

78.9 orange & white cereals

79.2 Dentonville, tent & yard.

81.0 gateway.

(79)

expect ^{1/2} claypan at approx 107.4 km

87.3 middle of river with a few
white gums.

88.2 end of diversion across paddock

... → crossed "claypan"

89.4 km - track off to right (S)
I took this track

94.0 km - tent on W side (abt) (Tomb Well?)

101.9 km - gateway.

103.2 - end of 30 m rock shelter

107.0 new
fence across track, down
left (E)

108.7 " " fences camp + trailer

... : stamper assembly

109.7 region fence (new) + head NW

110.2 wrong side of fence - tombels

110.7 start again down W side of
new fence.

net fence.

115.1 km back at starting point
 (where first lost fence) so fence
 is $115.1 - 107.0 = 1.0$
 = 7.1 km long.

There is an airstrip on SSW side of
 Y. Cleyer. (1530 km)

Pallid Cuckoo (heard)

Brown Kingbird ("") + seen

Chiming Wedgebill "Pan Pan Pillelil."

1 Yb Sparrowbill

c10 WFTern + 3

5 GgTil. + 3 + 2 + c40

1 Am Oriole

1 Pa BB + 1 + 2 + 3

3 Emus 2 kangaroos

1 Whistling Kite

(81)

- Small dragonfly with red body.

Bearing to N end of Range from vehicle
is 67° (i.e. "ENE")

1 4-20 pm start walk on E side

White plumed Honeyeater in Eucalypt
of claypan
Moree Ducks heard. (18 seen)



11 Galahs flew over

Plots of caern "Biological Survey Mark"

BRNR 14 Established Sep 1985.

Woodcock phone number.

BF Cuckoo Shrike

Megpie later.

Red-brown lichen water c 15 cm
deep

1 Red breasted Noddy + 1 + 1

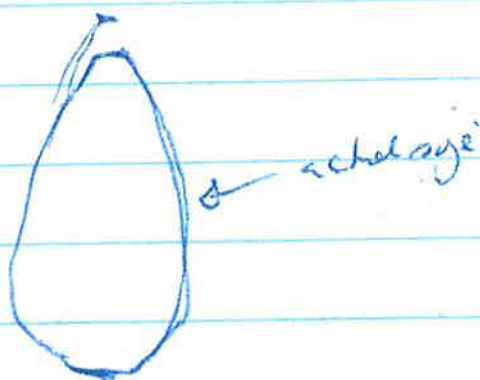
nest under grey leaved shrub, 40 cm
from water edge and approx 4-5 cm
above water level. Nest 8 cm

in diam, cup shaped with twigs
ligning it. One single egg

O shape.

Many black streaks
& lines.

off white background
colour.



Brush was 70 cm tall

Pardalipate in Enechypat. - soft call.

↑ Striated (check)

(83)

Geopelia cuneata

Diamond Doves

" Red eyed " doves — 2

Cook's - Euc. vicia

Eucalyptus dominant — average 3-6 m high

Gross (in seed) average 0.7 m and

is dominant indicator

Swamp Grass Eriacina benthamii "rubens"

Pipit like bird in Eucalypt has brown back

↳ Rufous Singlets Cincloramphus methuensis

Channels up to 30-40 cm deep.

"beetles" clashing to & from on surface.

Indigogras.

scattered Acacia 0.5-1.0 m

in shrub form. Iron phytolites.

Also scattered ajile stem Acacia

to iron — similar in appearance to

those of McNeill Claypan but tops not

chewed.

84
Tue 18/6/96

Cattle hoof prints + dung, not
fresh.

Finished at 5.28 pm a few
minutes before sunset

~~Flashed~~

Brown Falcon

3 Bristles on bare stony area +3!
(7 outside fence!)

Camped at Tedjigagge Claypan
overnight. Used Teyentini,
wire bed and campfire of fence
(Jim Gray) - he had gone to
Glenflour Homestead for a few days.

(85)

Start W 19/6/86

Continued Survey of Yeringga Clays
started yesterday afternoon -
0755 hrs

Vehicle is - 65° to N end of Bates Ridge
- 91° to N end of low ridge immediately
E of Clays -

- No frogs seen or heard today (or
o'night from camp)
- fine sedge fringing channels is
flowering (2 photos)
- Swamp Grass (*Crinia benthiana*) is
"in leaf" (all of it) & is also flowering
- floating & leafy "clover" stands
erect 15 cm above water. It
shoots up from runners.
- c15 Corrells in the Run. + 20
(short bills) R Little Corrells

19/6/96

(86)

♀ or immature White Winged Tattler

- grey back; dark tail, wings heavily marked white & buff longitudinally, light grey belly / chest, dark line longitudinal thru eye, wings "showing" "showing" wings in flight. (In flight) dark straight short pointed bill — 2

- Black fronted Petrel — 3

- dark brown cow & calf ($\frac{1}{2}$ cow height) in fenced area ("Duckman cross")

- photo of horse/donkey skull.

- coolibah is not in flower.

- 3 goats + 70.

back at vehicle - edge of bush.

White breasted Tattlers — 2 - in flowering spiny leafed shrub

Singing Honeyeater

(87)

19/6/96

c10 ~~2~~ Zebra Finches - (incl 08³⁰)

Pygmy Whistler ♀

Dirty Gable Gannet (♂) a/c 0918 hrs on
1188 AM (AOC)

Willie Wagtail.

1000 hrs.

Walked to top of range on E side of Clappan.

1020 hrs photo of "bryanna" - 1.1 m long
on top of range to E of Y. Clappan.

1040 back at vehicle.

140° to N end of low range

63° to N " " Dulce Range.

Start at 1048 hrs.

♂ ♂ Redthroat

In Gannet - small, grey above, prominent buff

chin. V. pale belly / vent. Bigger than Thrush

~~was seen in the area~~

19/6/96 (88)

Scolding
Coot - noisy chattering, noisy rapid flight.

- small group of Cessnas to 5m

↑ 10 trees

Redthroat cwt.

- ~~now describe~~ Hornbill (?)

- in line. "Red-faced" finch, olive green above, lighter o-g below, white spotting on ~~the~~ throat + flanks. (2) ^{5/5} Star Finches

- large orb weaver spider, white above

- "Horseman" type butterfly, also white butterflies

- grasshoppers

- White-throated ff. cater caught, beaked + swallowed whole a 1-2 cm long caterpillar

- crow / raven - ark ark ark ark (more rapid than Aust. Raven) Little Crow

- birds do settle to sleep (at least some)

- can't see aquatic insects (escapes)

(89)

19/6/96 Contd

"buddies" of yesterday -

- larger greyish dragonfly
(larger than red one)

- copulating blue and brown ^{damselflies} ~~dragonflies~~
resting on ~~Swamp~~ grass



Can't see legs of water beetles
rest on floating plant. (at
water surface)

"flock" of c 60. - fairly passive.
Each approx 1 cm long. (or less)

- large dragonfly has bluish thorax & light
grey abdomen.

- pond spider (??) 2 legs back, 2 wide,
2 up, 2 down at front.



One seen resting on top
of another.

Yedigöze (laguna) with W 19/6/96 Cont.

- some channels are at least 50m long
many are only 20-30 m long.
 - followed one channel for at least 100 m
from well out into Y. lagoon in
Southerly (generally) direction right
back to edge of surrounding "plain"
This was a main "feeder" channel.
 - 2 Rufous Whistlers + 1 (♀♀/juv)
 - Woodswallows (3) Grey above (dark),
lighter grey below, black underbill coverts,
white end to tail feathers, black face, lighter
coronet, blue bill. Black-faced Woodswallow
 - "Nardoo" leaf is commonly 2-3 cm across.
- Back to vehicle at 1028 hrs End of
Survey

1715 Chemin du Pas du Loup

La Devèze

Ronde de Malpant

83300 Dragnignan

France

(91)

Leaf

7

Birthday