

A copy of 'History in the mating: Banded Stilts do it again!' by 'Clive Minton, Grant Pearson and Jim Lane' (pp.13-15 in *Wingspan*, June 1995) indicates inter alia an intention 'at the time of writing (late April)' to conduct 'banding/colour leg-flagging of the [BaSt] chicks'.

History in the mating:



Banded Stilts do it again!

Banded Stilts — endemic to Australia — are unique among the 214 species of wading bird in the world in that they: nest colonially, lay white eggs (with a few black streaks and blotches), have white downy chicks and put their young into crêches. They also have a special habitat requirement — recently-flooded salt lakes — because the young are reared predominantly on brine shrimps, so opportunities to breed only arise every few years. Only about 20 nesting events have ever been recorded — three in inland South Australia and the remainder in the southern interior of Western Australia.

We, and the ABC Natural History Unit, have been (im)patiently waiting for several years for the next nesting event, determined to move quickly enough to locate a nesting colony at an early stage of the breeding cycle. Most previous nesting attempts have only been identified once chicks have become mobile, or once breeding was over (via the abandoned colony).

Cyclone Bobby dumped 380 mm of rain in the Kalgoorlie area of WA in four days of continuous downpour over 25–28 February this year. Banded Stilts disappeared from all their coastal fringe sites in WA (e.g. Rottnest Island near Perth)

Banded Stilts in colony at Lake Ballard in various stages of plumage.

almost immediately. Everything looked right for a Banded Stilt nesting spree.

Grant Pearson, Clive Minton and Marj Reni of the Victorian Wader Study Group, carried out a 4.5 hour aerial survey from Kalgoorlie on 12 March. Three large salt lakes, 150–250 km north of Kalgoorlie were covered — all previously known nesting locations. All three were full of water (Lake Barlee least so) and looked ideal,

with myriads of small islands dotted evenly throughout. Lake Marmion had no birds. But as soon as we reached Lake Ballard we encountered Banded Stilts on the water — all paired — and about 20 km down the lake a nesting colony. We could hardly believe our eyes! Only 16 days after the rain started there they were, some 2,000 nests on the top of a small island with about 5,000 birds in attendance. At the core of the colony incubation seemed to have already begun.

This observation, and later observations on incubation periods and hatching dates, indicates that the first eggs in the colony must have been laid around 8 March, an incredible 12 days after the start of the rains, and only 8 days after they ceased! Not bad for birds which had to recognise that a 'rain event' had occurred, migrate around 1000 km, find a suitable location, pair, mate, select a nest site, and grow and lay a clutch of eggs weighing almost as much as the female herself!

The aerial survey revealed a total of 10,000 Banded Stilts on Lake Ballard and 20,000 on Lake Barlee, but there was no sign of a colony forming on the latter.

We immediately decided to visit the nesting colony and set up the first stages of a comprehensive research programme. A helicopter was available from Kalgoorlie on 15 March, and this enabled us to spend 8 hours observing activities at the colony, pegging out and photographing a grid, and marking some 250 clutches of eggs to determine information such as clutch size, nest density, incubation period and hatching success. As no-one has previously found a colony at such an



Aerial view of the colony — an estimated 4,500 nests.

early stage, much basic breeding biology of the Banded Stilt was unknown (see the frequent references to such in Vol. 2 of HANZAB).

Since the nesting island was part of a small archipelago of small islands, it was possible to land the helicopter (and then to make the research base camp) some 600 m away from the colony on a rocky knoll (which even had some trees and

The colony had doubled to an estimated 4,500 nests within three days...

shade!), without disturbing the birds. We initially made observations from a distance, but soon found we could sit quietly within 10-20 m of the colony without the birds apparently taking any notice.

There was an unbelievable frenzy of activity. The colony had doubled to an estimated 4,500 nests within three days, and more birds were settling in every minute. Birds seemed to be bustling in every direction. Aggression associated with mates and nesting selection was widespread. Up to 20 copulations were visible at any time — on the water, on land, in the colony, standing, sitting, walking, swimming (and each lasting an aver-

age of 45 seconds!). Incubating birds were leaving the nest and running down to the water to dunk their breast-feathers in the water and have a quick drink before returning to the nest (it was a hot day). Overall it was like a cross between the main street of Tokyo and the 'red light' district of Kalgoorlie!

One of the most surprising observations was that a third of the birds did not have complete breeding plumage, and 10% had none at all, being completely white underneath and lacking the chestnut band on the breast and black patch below it. Yet such plumaged birds did not seem to be inhibited from full participation in activities, including copulation (both males and females) and incubation. It seems that assuming breeding plumage is a secondary consideration to being 'quick off the mark' to take advantage of these rare breeding opportunities (then why have a breeding plumage?).

The research team, together with the ABC film crew, returned to Lake Ballard, by amphibious vehicle and boat, on March 31, and one (or more) of us has been in residence almost continuously ever since. A further aerial survey on March 30 revealed three new nesting colonies on Lake Ballard (but still no nesting, and fewer birds, on Lake Barlee). The

Below left: Banded Stilt eggs. Clutches of 3 or 4 are most frequent, but 2 or 5 sometimes occur.

Below: Pegging, marking and photographing the nests in the colony.



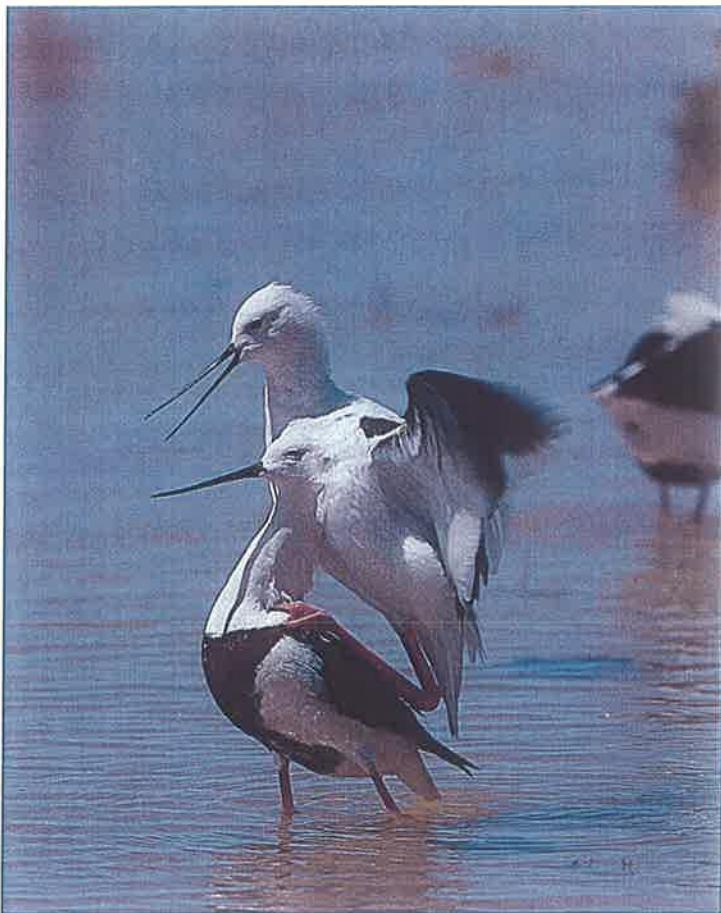
main colony had grown to 20,000 nests (at 10 per square metre — just pecking distance apart), and there were 15,000 nests in the largest of the new sites, only 4 km to the west.

Hatching began on 3 April. It was wonderful to see each family of chicks being led down to the water by a parent, then sailing away like little blobs of white fluff on the water. Most had 2, 3 or 4 chicks, but the occasional bird had successfully hatched a brood of 5. Several families were often all closely associated, but it was always possible to discern the individual parent-offspring relationships, and there was no sign of true crêching (handing over the care of chicks to a lesser number of adults) at this stage or over the next few days when the chicks were still within 3 or 4 km of the colony. On some mornings up to 2,000 chicks would leave the colony in just a couple of hours. Such sights will remain imprinted on our memories forever.

A pleasing feature was the relative lack of predation. The Banded Stilt nesting event at Lake Torrens in 1989 was heavily molested by Silver Gulls, that eventually totally destroyed the last part of the colony as well as taking many eggs and some chicks throughout the breeding cycle. At Lake Ballard a few crows (thought to be Little Crows) started visiting the colony regularly once the chicks began to hatch, but they mainly fed on chicks which were already dead around the colony and were only twice seen to take live chicks (often seen to fail in their attempts). Once a Wedge-tailed Eagle snatched a chick from a group of adults and chicks which were crossing an island in the archipelago.

But, thankfully, not a single Silver Gull appeared. A consequence of their absence was that the colony became littered with 'lost' eggs — ones that had rolled or been blown out of nests, laid in the wrong place, or been left parentless for whatever reason. These quickly went bad in the hot sun, often popped (causing a minor local disturbance in the colony), and must have given a nasty surprise to any would-be predators.

A vast amount of detailed information has been collected on this breeding event and all aspects of the birds' behav-



Banded Stilts mating.

lake areas. It really is a case of 'making hay while the sun shines' or, more appropriately, 'breeding while the brine shrimps last'. Perhaps the most baffling question of all is — How do they know? — especially when they are sunning themselves on Rottnest Island where it didn't even rain!

CLIVE MINTON, GRANT PEARSON
AND JIM LANE
PHOTOS: CLIVE MINTON

...it was like a cross between the main street of Tokyo and the 'red light' district of Kalgoorlie!

...it was like a cross between the main street of Tokyo and the 'red light' district of Kalgoorlie! ✓
iour and this will subsequently be submitted as a paper to *Emu*. The story at the time of writing (late April) is still not complete. The chick crêching process has to be followed, and banding/colour leg-flagging of the chicks carried out. And, who knows, a further round of the breeding cycle may be aided by an unexpected 70 mm 'top up' of rainfall on 10 April, which restored the gradually drying lake almost to its maximum level.

There is no doubt that Banded Stilts are marvellously adapted to take up any opportunity to breed which may arise from a 'big wet' in these ephemeral salt

SA and Vic. Flooding of the Cooper and Darling basins, however, do not seem to elicit equivalent responses. Rainfall may result in influxes of Stilts as the dry wetlands are filled, or in the birds' departure, perhaps because the salinity of wetlands is reduced, or because the birds have dispersed more widely across suitable habitat. Just as their movements to breeding sites can be mystifying, so too are their departures. At Lake Torrens, chicks and adults dispersed within a few days of hatching, moving 50–100 km across the lake. Adults have been recorded abandoning young once the salt lake dried out, and bands of wandering chicks have been recorded numerous times dispersing from breeding colonies along roadways. There is one record from Menzies of 1,400 chicks walking through the town. Unfortunately, some 500 met their end on the busy road, so even they never solved the mystery of their eventual destination.

DETAILS FROM HANZAB



Banded Stilt with little breeding plumage about to brood eggs.

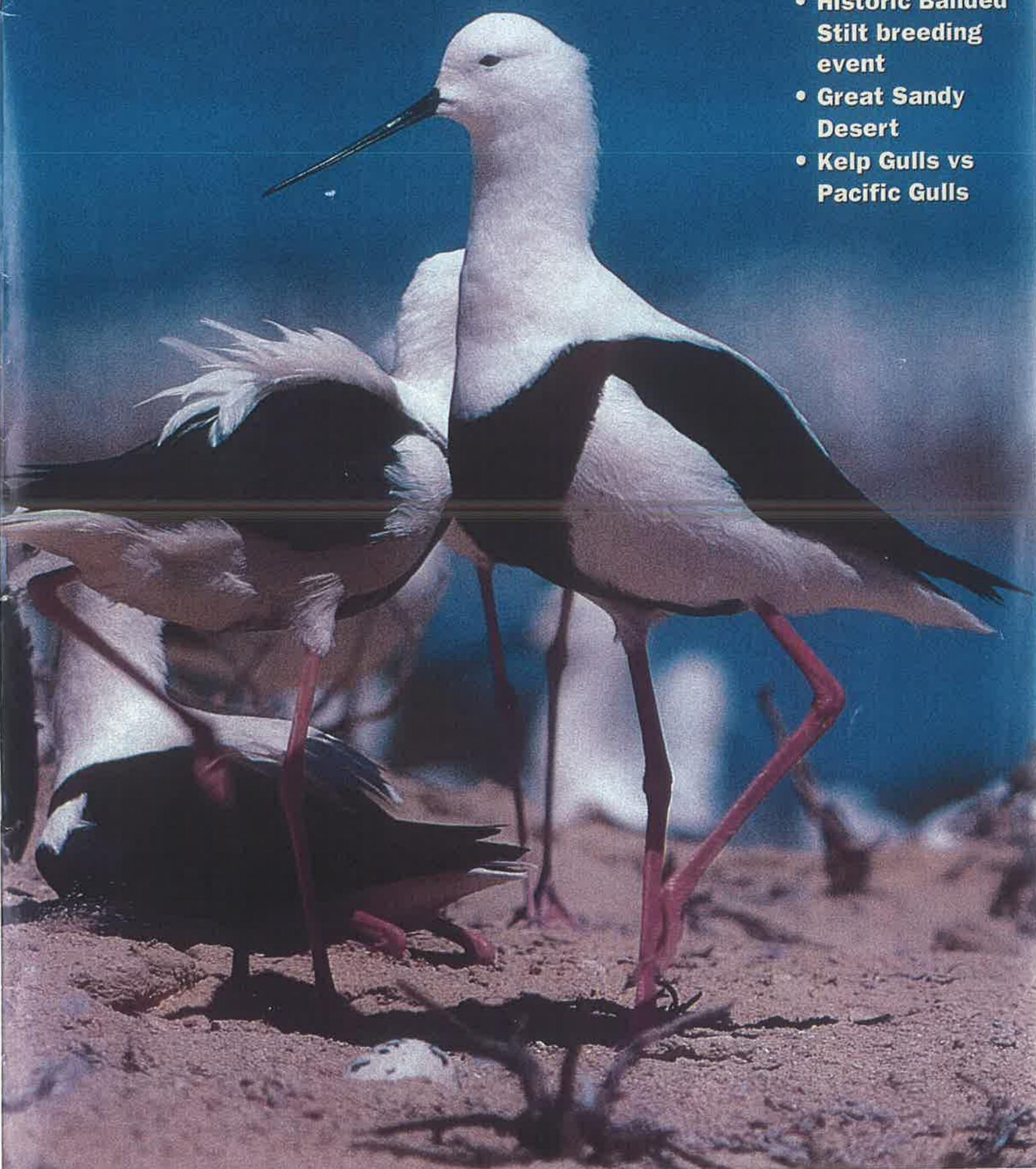
Wingspan

For birds and birdwatchers

Vol. 5 No. 2 June 1995

IN THIS ISSUE

- Historic Banded Stilt breeding event
- Great Sandy Desert
- Kelp Gulls vs Pacific Gulls



Undated page of jottings by JL headed 'Next Ballard Trip (6/95) [June 1995]' that records some preliminary thoughts of JL about the trip to be undertaken to Lake Ballard (and Lake Marmion) by GBP, ACI & ACh in June 1995. Inter alia reads 'I have [leg] flags'. See faxes above for draft (02/06/1995) and revised (07/06/1995) programs.

Decide when + how long -
1st. 120

NEXT BERMUDA TRIP (6/95)

124. 120

- **GP, AC1, ACh**
- air quality? who? when? where? new colonies
locn + no. of shift/young.
- depth, temp, salinity, P, turbidity, etc. + sweeps.
- get samples (faecal markers) + sweeps + other data
- measure 1st colony precisely.
- photos of - water clear = turbid
-
-
-
- pull out gear?
- down load depth?
- trailer wheel.
- my vehicle \rightarrow Perth.
- no workers or time?
- I have flags.
- advice re: beach synth and posture - bin, towel, net.
- how long to flagged?
- establish monitoring sub-project on coast.

- gear
- daily work program.

Two pages of jottings by JL that appear to record several phone conversations with Jeremy Hogarth (ABC Natural History Unit) and Clive Minton (CDTM) in May 1995 and perhaps very early June 1995. 'Message from Jeremy Hogarth Th 18/5/95 at 1310 hrs' inter alia refers to '[ABC crew of Mark Lamble and Campbell Miller] caught one banded chick – didn't get number but did record date, time, location'. JL's discussion with CDTM includes 'flag without bands' [does this mean there was a shortage of leg-bands?] and what appears to be 'Aluminium bands' [does this mean that CDTM / JL discussed possibly using aluminium bands if ran out of incoloy bands?].

Two

Want meadow
- private -

- all birds left 2nd island.

- all nesting at W end of lake.

ABC left that night

- talked about pushing boats + camp at W end. (plan 1)
- boat access (plan 2)

Andy ~~Kelso~~ ^{left} → weekend OK.

Jeremy

^{30/5}

pay for air survey?

- he will get back to me re paying for a flight - probably no.
- Mark will contact me also with info on boat trip.
- how is Ago etc?

Clive

- date coming
- flag without bands
- no phys.

- 4 weeks.

Clive - will do SA + Vet.

Alman Bands

Shift + Wagon

PROJECT

R - 18 mths

WT - go out looking for bands + flagged

- record return to marked areas

(= police proper workflow block + chest bands)

50% juveniles

- Rothest - adults back first, or juveniles

*) Each Band Notes send to Clive

Message from Jeremy Hoggard
Th 18/5/95 at 1310 hrs

- 50 km from Island ^(mark + cam) ^{they found} 1000s of chicks - at least some new flying stage
- ~~Mark will fly to 11:00 Sat~~
- Will fax his maps/notes to me next week and may use
- May bigger the Argo many times
- no predators except with raptor

caught one banded chick - didn't get number but did record date, time, location



'Receipt of Bands' form, issued on 17/05/1995 and signed by GBP on 01/06/1995, for issue & receipt of 200 'Size 08', 'Metal SS' leg-bands with 'Prefix 082' and 'Serial Numbers 95501 to 95700'. All of these bands were subsequently used – on 11/06/1995 at Lake Marmion. This form also records issue & receipt of one pair of small banding pliers.

Australian Bird and Bat Banding Schemes
G.P.O. Box 8, Canberra, ACT, 2601

RECEIPT OF BANDS ISSUED TO:

MR GB PEARSON
WILDLIFE RES CENTRE
PO BOX 51
WANNEROO WA 6065

Authority no : 831 Date bands issued : 17/05/95

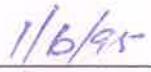
Please find enclosed the band supplies you recently requested. You should check these bands against the computer listing given below to ensure that no errors have been made by the Banding Office Staff. Note any errors on the sheet and return it to the Banding Office as soon as possible. Even if the bands supplied and the listing correspond, this should be signed and returned to acknowledge the receipt of the bands. The number of bands supplied may be adjusted subject to the availability and normal string length of the size required.

SIZE	METAL	QUANTITY	PREFIX	SERIAL NUMBERS	CORRECT
		1	SML	PLIER	
08	SS	200	082	95501 to 95700	

I acknowledge receipt of the bands listed above.



Signature



Date

Fax (16/05/1995) from GBP to Belinda Dettman [ABBBS]. On cover page GBP writes: 'We need about 500 bands – 490 would be fine'. Strange coincidence that 490 was also the number issued back on 23/03/1995 and GBP requested two pairs of small banding pliers on both occasions. GBP's handwriting in both 'Requisition for Banding Supplies' forms (16/5 & 23/3) is slightly different, indicating that the latter is not a photocopy of the former).

Note that both forms requested bands in 'SS' metal, i.e. stainless steel.

Presumably GBP meant incoloy (see JL's fax of 16/05/1995z) and presumably that was what was subsequently supplied (check) by ABBBS.

Incoloy is a type of stainless steel.

'Incoloy® 27-7MO is an advanced super-austenitic stainless steel containing over 7% molybdenum'. 'Excellent resistance in ... seawater, brine and high chloride environments along with higher strengths compared to traditional 6% molybdenum alloys makes the alloy attractive in oil & gas applications'.
<http://www.corrosionmaterials.com/documents/dataSheet/alloyIncoloy27-7MODatasheet.pdf> (downloaded 06/02/2014 by JL).

DEPARTMENT OF
CONSERVATION AND LAND MANAGEMENT
SCIENCE & INFORMATION DIVISION
WILDLIFE RESEARCH CENTRE, WOODVALE
FAX NO (09) 306 1641 TELEPHONE NO (09) 405 5100



Date: 16-5-95

To: Belinda Dettman

At: ABBS

From: Grant Pearson

No of Pages: 2

Message: We need about 500 bonds - 490 would
..... be fine

..... Cheers

..... Grant



AUSTRALIAN BIRD AND BAT BANDING SCHEMES

G.P.O. Box 8 Canberra, A.C.T. 2601

Phone (062) 420007

500321

FAX (06) 2500 314

REQUISITION FOR BANDING SUPPLIES

From: Lynne T. Ferguson

Po Box 51

Wannerkow

Is this a new address? -

no

Please list your requirements in the spaces provided. It is important to state the number of bands in hand for each size ordered so that we can anticipate your future requirements. When the supplies are sent to you, a receipt will be enclosed together with an unused form for your future use. PLEASE CHECK THE SIZE, METAL, PREFIX AND SERIAL NUMBERS OF THE BANDS BEFORE SIGNING THE RECEIPT AND RETURNING IT TO THE BANDING OFFICE. ANY DISCREPANCY BETWEEN THE ITEMS LISTED AND THOSE RECEIVED SHOULD BE NOTED ON THE FORM. Please consult the List of Approved Band Sizes for the recommended band size and metal for each species. Use the following abbreviations to denote the respective metals: SS — Stainless steel; AM — Aluminium; AY — Alloy; ML — Monel and IN — Incoloy.

BANDS

BANDING PLIERS

	REQUESTED	DESPATCHED		REQUESTED	DESPATCHED
Small pliers	2		Large pliers		

LITERATURE AND FORMS

TITLE	REQ'D	TITLE	REQ'D
Bird Bander's Manual		Data Sheets — Type I — Standard: Bird Banding	
Bird Bander's Manual: Current Version Ch.		Data Sheets — Type II — Colour Banding: Birds	
Bat Bander's Manual *		Data Sheets — Type III — Additional Information: Birds	
Bat Bander's Manual: Current Version Ch. *		Data Sheets — Type I — Bat Banding	
List of Approved Band Sizes: Australia: Alphabetical		Banders Diary Sheets	
List of Approved Band Sizes: Australia: Taxonomic			
List of Approved Band Sizes: PNG		Plumage Description Form	
Initial Enrolment Forms		Moult Recording Data Sheets	
Upgrading of Authority Forms		Access to Banding Data Form	
New Projects Form		Publicity Brochure	
Location Code Registration Form		Mistnets: Information and Prices	
This Form		Colour Bands: Information and Prices	
Transfer of Banding Supplies Form		Application to Colour Mark Form	
Trial of Band Size Form			
Data Sheets Despatch/Acknowledgement Form			

* = not currently available

OFFICE USE ONLY

Bands Issued By:	Date:	Bands Despatched on:	OK/Update
Catalogued By:	Date:	Receipt Returned on:	
Details to Catalogue Completed:			

**Fax (16/05/1995) from JL (at Busselton) to GBP (at Woodvale) that reads:
'Plse order another 500 size 8 incoloy leg bands for a possible BaSt banding
/ flagging effort in a few weeks time'. Note that only 490 leg-bands were
issued initially (see 23/03/1995), not 500 as this fax by JL could suggest.**

DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT
BUSSELTON DISTRICT
FAX NO: (097) 521 432

114.
HT.

TO: Grant P URGENT: YES / NO

AT: WOODVALE

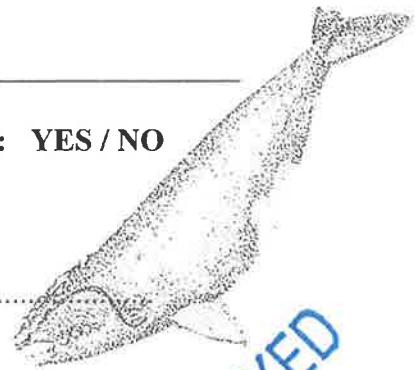
Fax No.

FROM: J-L.

DATE: 16/5/95

Your Ref:

Local Ref:



FAXED

*Please order another 500 size 8 milroy by
bents for a possible Bass bending / flying
effort in a few weeks time.*

P.S. I have the Bushnell telescope with me if you need it
No. of pages inc. this page: 1 tomorrow.

Please call us on (097) 521 677 if this message was incomplete or illegible

Fax (16/05/1995) from JL to John Blyth (editor of WA Bird Notes) with hand-written article titled 'Leg-flagged Banded Stilt' for publication in WA Bird Notes. This article inter alia reads: During the first week of May [1995], Alan Clarke and I [JL] leg-flagged 170 (one hundred and seventy) [BaSt] chicks at various stages of growth' and 'The leg flags are small, made of stiff yellow plastic and located above the left 'knee', i.e. on the tibia'. This was also faxed to CDTM, on 30/05/1995, with a cover note that reads: 'Accompanying is the article that will appear in the June issue of "WA Bird Notes". See (above) the "STOP PRESS article on p.19 of WABN No.74 (June 1995) is a restructured and slightly reworded version of this draft.

DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT
BUSSELTON DISTRICT
FAX NO: (097) 521 432

TO: John BLYTH URGENT: YES NO

AT:

..... Fax No.

FROM: JIM LANE

DATE: 16/5/95

Your Ref:

Local Ref:

As discussed - Thanks

No. of pages inc. this page: 2

Please call us on (097) 521 677 if this message was incomplete or illegible

and desire to other wetlands. V V

*Should you sight ^{most} any of these leg-flagged stilt
we would be ^{most} grateful if you could pass the
details on to me at C.A.L.M.'s Busselton Office
(~~ph~~ 097 521 677 Fax 097 521 432 or mail
% Dept of C.A.L.M., Queen St Busselton #6280).*

*Information we would like is location, date, number
of "flagged" stilt, total number of stilt and any other
information of ~~any~~ possible interest. Also the name
of the ~~observer~~ observer and a contact number or
address.*

~~The stilt flag~~ The leg flags are small, ~~made~~ of
stiff yellow plastic and located above the left "knee",
ie on the tibia.

Thanking you in anticipation!

Jim Lane, Busselton.

16/5/95

113. (16/5/95) 40.

Formerly

LEG-FLAGGED BANDED STILT

Tens of thousands of Banded Stilt have nested at Lake Ballard near Merredin during the past two months following cyclonic rains in ~~January~~ ^{February}.

During the first week of May, ~~the~~ Alan Clarke and I leg-flagged 170 (one hundred and seventy) chicks at various stages of growth.

~~Conditions~~ The lake water level is high and food supply (brine-shrimp) abundant so the ~~majority~~ majority of these chicks should survive to fledge and disperse to other wetlands.

Should you ^{most} sight any of these leg-flagged Stilt we would be ~~grateful~~ grateful if you could pass the details on to me at C.A.C.M.'s Busselton Office (~~the~~ ph 097 521 677 Fax 097 521 432 or mail % Dept of C.A.C.M., Queen St Busselton #6280).

Information we would like is location, date, number of "flagged" stilt, total number of stilt and any other information of ~~any~~ possible interest. Also the name of the ~~observers~~ observers and a contact number or address.

~~The stilt flag~~ The leg flags are small, ~~and~~ made of stiff yellow plastic and located above the left "knee", ie on the tibia.

Thanking you in anticipation! Jim Lane, Busselton.

DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT
BUSSELTON DISTRICT
FAX NO: (097) 521 432

TO: CLIVE MINSON URGENT: YES / NO

AT:
..... Fax No. 03 9589 6901

FROM: JIM LANE

DATE: 30/5/95 Your Ref:
Local Ref:

Accompanying is the article that will appear
in the June issue of "W.A. Bird Notes".

No. of pages inc. this page: 2

Please call us on (097) 521 677 if this message was incomplete or illegible

Send "desires to other wetlands. V V

Should you sight any of these leg-flagged stilt
we would be ^{most} grateful if you could pass the
details on to me at C.A.L.M.'s Busselton Office
(~~ph~~ 097 521 677 Fax 097 521 432 or mail
% Dept of C.A.L.M., Queen St Busselton #6280).

Information we would like is location, date, number
of "flagged" stilt, total number of stilt and any other
information of ~~any~~ possible interest. Also the name
of the ~~desires~~ observer and a contact number or
address.

~~The stilt flag~~ The leg flags are small, ~~made~~ of
stiff yellow plastic and located above the left "knee",
ie on the tibia.

Thanking you in anticipation! Jim Lane, Busselton.

Photos (thumb-prints) of BaSt leg-banding and leg-flagging activities by JL & ACl with ACh on Lake Ballard in late April – early May 1995. See JL's work PC (and backups) for these photos in digital format (scanned from 35mm colour transparencies, i.e. slide film).

Qtl printed 01/02/2014

pt.



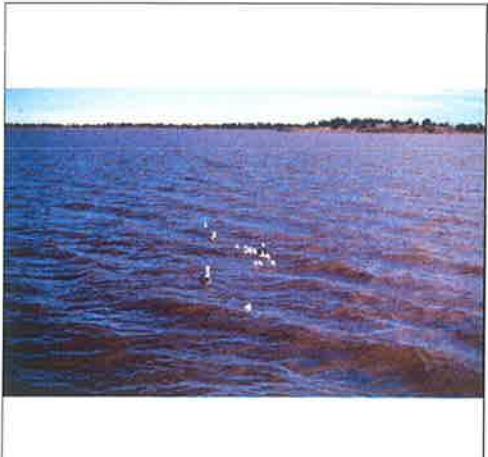
Ballard, 1995.04.07 [3938] BaSt with chicks on water [JAKL].bmp



Ballard, 1995.04.07 [3939] BaSt with chicks on water [JAKL].bmp



Ballard, 1995.04.07 [3940] BaSt with chicks on water [JAKL].bmp



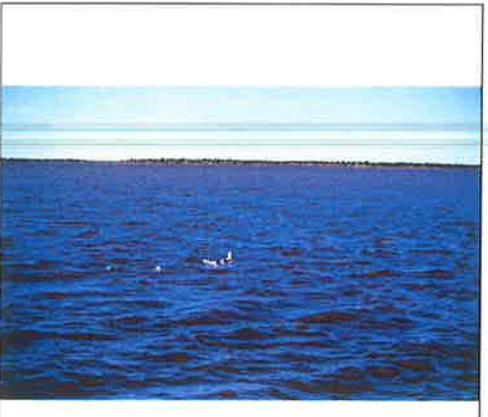
Ballard, 1995.04.07 [3941] BaSt with chicks on water [JAKL].bmp



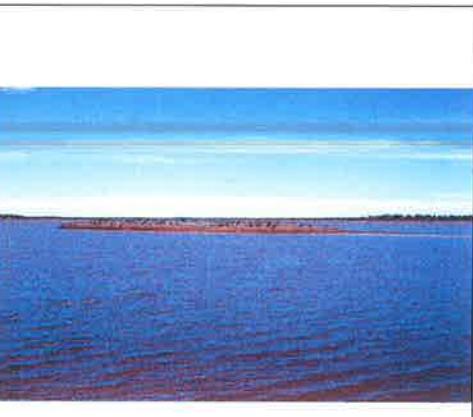
Ballard, 1995.04.07 [3942] BaSt with chicks on water [JAKL].bmp



Ballard, 1995.04.07 [3943] BaSt with chicks on water [JAKL].bmp



Ballard, 1995.04.07 [3944] BaSt with chicks on water [JAKL].bmp

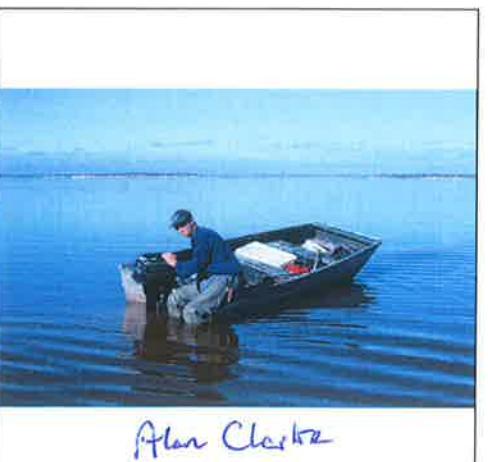


...67] BaSt colony on 2nd Isl, 29d28m07sS 120d59m07sE [JAKL].bmp



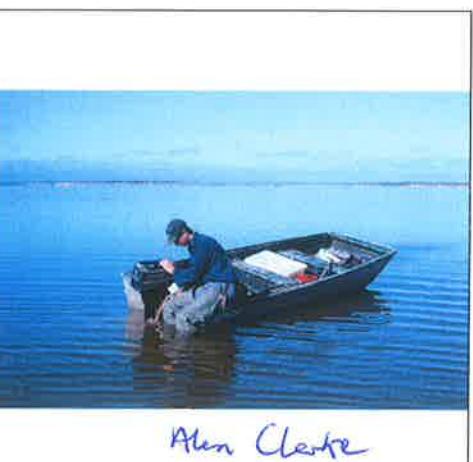
Alan Clarke holding BaSt chick

Ballard, 1995.04.30 [4175] BaSt chick in hand w flag [JAKL].bmp



Alan Clarke

Ballard, 1995.04.30 [4159] Alan Clarke w punt [JAKL].bmp



Alan Clarke

Ballard, 1995.04.30 [4160] Alan Clarke w punt [JAKL].bmp

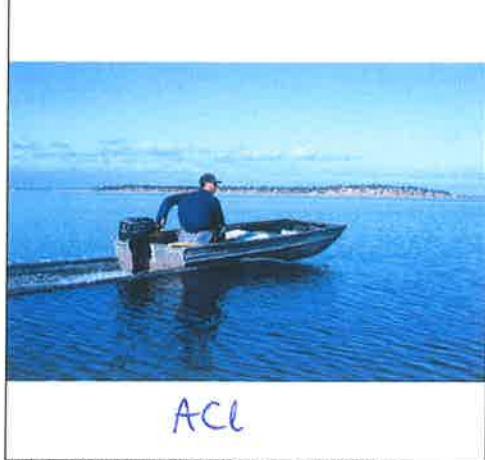


Alan Clarke

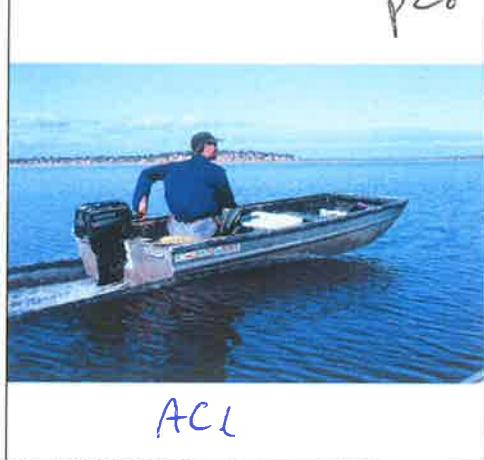
Ballard, 1995.04.30 [4161x] Alan Clarke w punt [JAKL].bmp



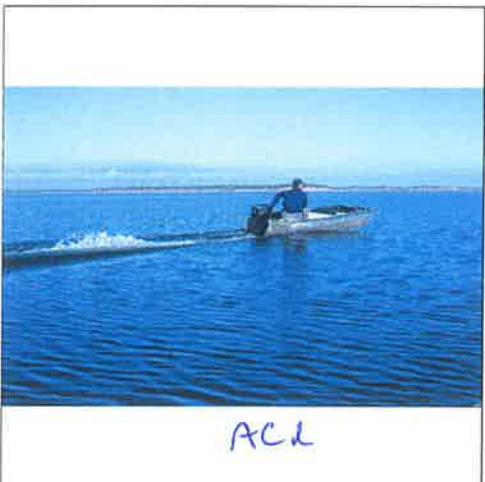
Ballard, 1995.04.30 [4161y] Alan Clarke w punt [JAKL].bmp



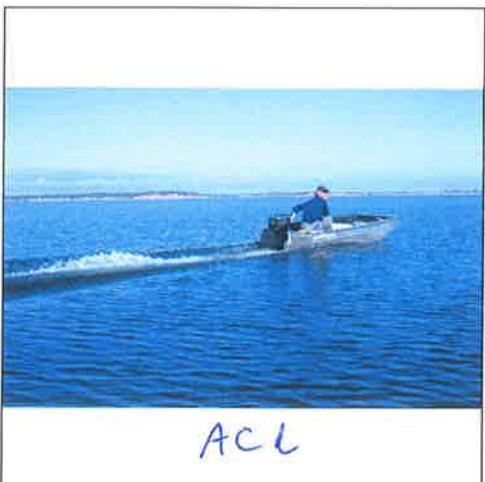
Ballard, 1995.04.30 [4162] Alan Clarke w punt [JAKL].bmp



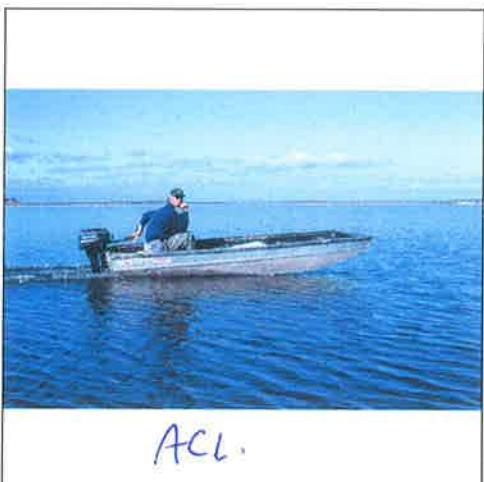
Ballard, 1995.04.30 [4163] Alan Clarke w punt [JAKL].bmp



Ballard, 1995.04.30 [4164] Alan Clarke w punt [JAKL].bmp



Ballard, 1995.04.30 [4165] Alan Clarke w punt [JAKL].bmp



Ballard, 1995.04.30 [4166] Alan Clarke w punt [JAKL].bmp



Ballard, 1995.04.30 [4167] BaSt chicks in tub [JAKL].bmp



Ballard, 1995.04.30 [4168] BaSt chicks in tub [JAKL].bmp



Ballard, 1995.04.30 [4169] BaSt chick in hand w flag [JAKL].bmp



Ballard, 1995.04.30 [4170] BaSt chick in hand w flag [JAKL].bmp



Ballard, 1995.04.30 [4171] BaSt chick in hand w flag [JAKL].bmp



Ballard, 1995.04.30 [4172] BaSt chick in hand w flag [JAKL].bmp



ACL

Ballard, 1995.04.30 [4173] BaSt chick in hand w flag [JAKL].bmp



ACL

Ballard, 1995.04.30 [4174] BaSt chick in hand w flag [JAKL].bmp



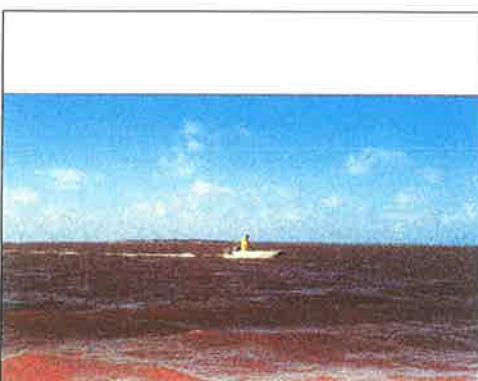
ACL

Ballard, 1995.04.30 [4176] Alan Clarke w punt [JAKL].bmp



ACL

Ballard, 1995.04.30 [4177] Alan Clarke w punt [JAKL].bmp



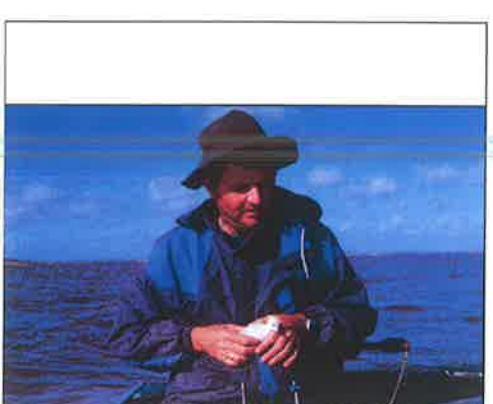
ACL

Ballard, 1995.05.02 [4425] AClarke, punt [ACh].bmp



Jim Lane

Ballard, 1995.05.02 [4426] JAKL bands flags BaSt chick [ACh].bmp



Jim Lane (JL)

Ballard, 1995.05.02 [4427] JAKL bands flags BaSt chick [ACh].bmp



JL

Ballard, 1995.05.02 [4428] JAKL bands flags BaSt chick [ACh].bmp



Ballard, 1995.05.02 [4429] view from Viewing Isl [ACh].bmp

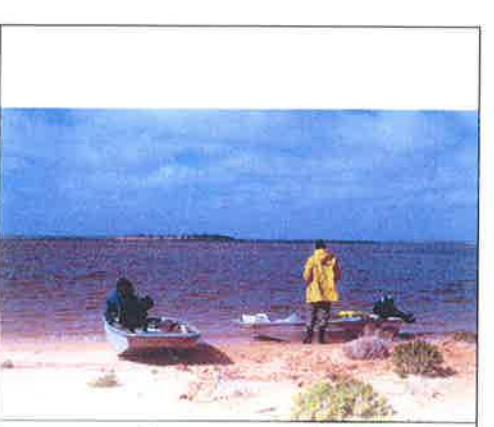


JL + ACL

Ballard, 1995.05.02 [4430] view from Viewing Isl [ACh].bmp



Ballard, 1995.05.02 [4431] JAKL & ACI view from Viewing Isl [ACh].bmp



JL + ACL

Ballard, 1995.05.02 [4432] punts, JAKL, ACI on Viewing Isl [ACh].bmp



JL + ACI

Ballard, 1995.05.02 [4433] JAKL, ACI, punt [ACh].bmp



JL + ACI

d, 1995.05.02 [4434] JAKL & ACI catch BaSt chicks, punt [ACh].bmp



ACI + JL

...d, 1995.05.02 [4435] JAKL & ACI catch BaSt chicks, punt [ACh].bmp



ACI

...lard, 1995.05.02 [4436] JL & ACI catch BaSt chicks, punt [ACh].bmp



ACI + JL

...d, 1995.05.02 [4437] JAKL & ACI catch BaSt chicks, punt [ACh].bmp



JL

Ballard, 1995.05.02 [4438x] JAKL bands flags BaSt chick [ACh].bmp



JL

Ballard, 1995.05.02 [4438y] JAKL bands flags BaSt chick [ACh].bmp



JL

Ballard, 1995.05.02 [4439] JAKL bands flags BaSt chick [ACh].bmp



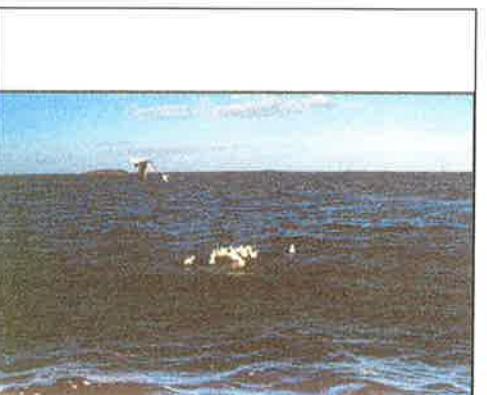
JL

Ballard, 1995.05.02 [4440] JAKL bands flags BaSt chick [ACh].bmp

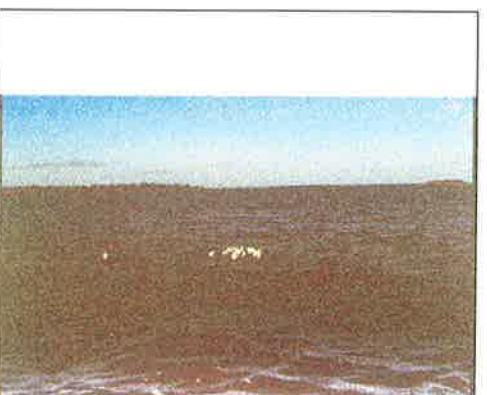


ACI + JL

...lard, 1995.05.02 [4441] JL & ACI catch BaSt chicks, punt [ACh].bmp



Ballard, 1995.05.02 [4442] creche of BaSt chicks [ACh].bmp



Ballard, 1995.05.02 [4443] creche of BaSt chicks [ACh].bmp



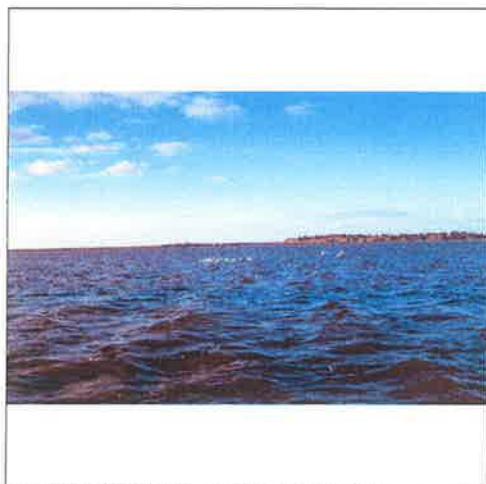
Ballard, 1995.05.02 [4444] creche of BaSt chicks [ACh].bmp



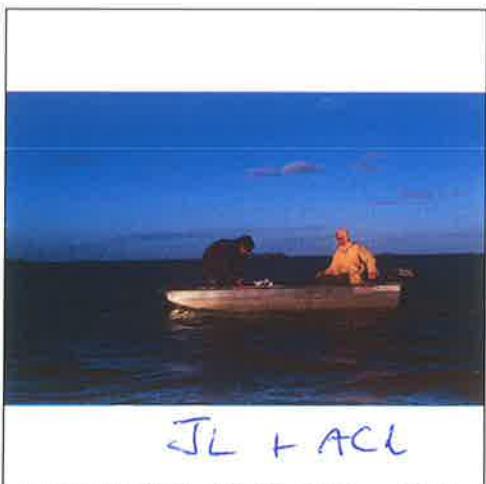
Ballard, 1995.05.02 [4445] creche of BaSt chicks [ACh].bmp



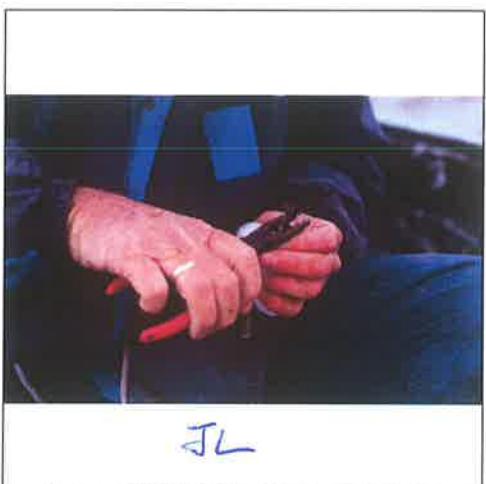
Ballard, 1995.05.02 [4446] creche of BaSt chicks [ACh].bmp



Ballard, 1995.05.02 [4447] creche of BaSt chicks [ACh].bmp

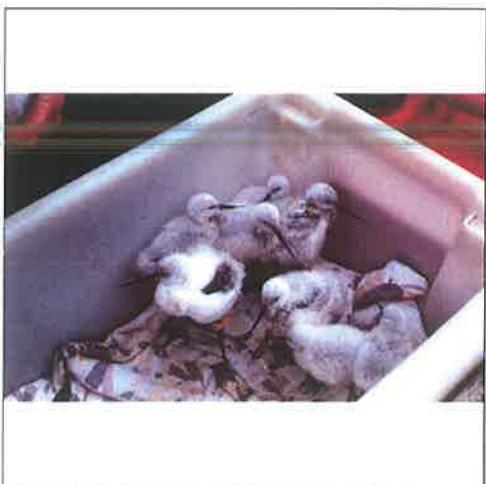


...d, 1995.05.02 [4448] JAKL & ACI catch BaSt chicks, punt [ACh].bmp

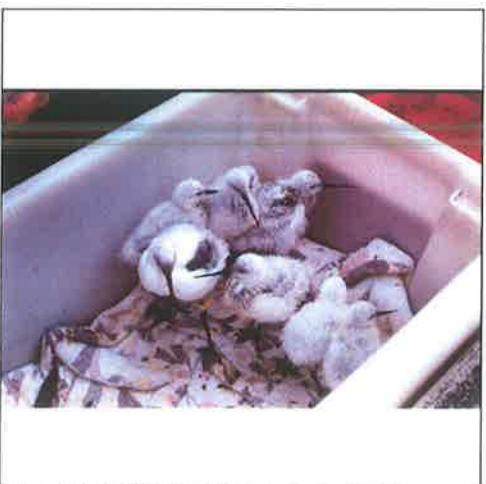


JL

Ballard, 1995.05.02 [4449] JAKL bands flags BaSt chick [ACh].bmp



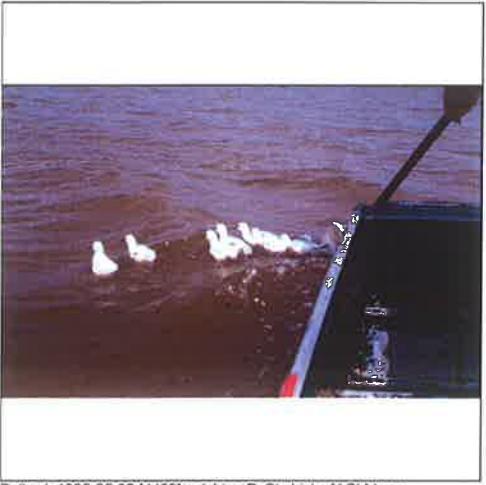
Ballard, 1995.05.02 [4450] BaSt chicks in tub, flagd [ACh].bmp



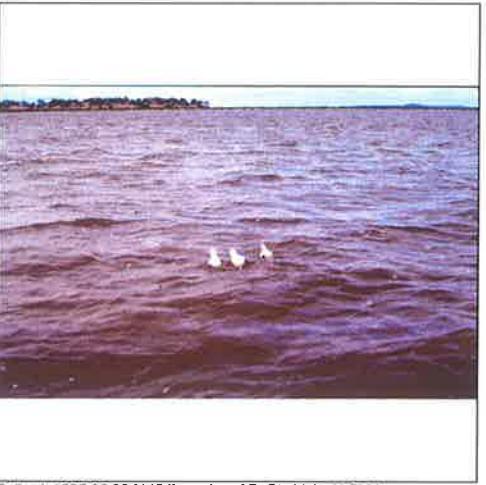
Ballard, 1995.05.02 [4451] BaSt chicks in tub, flagd [ACh].bmp



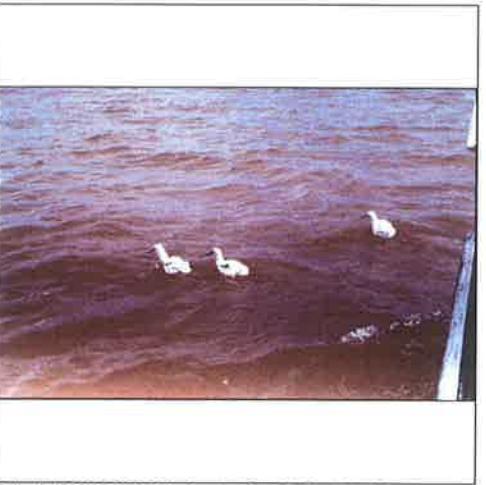
Ballard, 1995.05.02 [4452] catching BaSt chicks [ACh].bmp



Ballard, 1995.05.02 [4453] catching BaSt chicks [ACh].bmp



Ballard, 1995.05.02 [4454] creche of BaSt chicks [ACh].bmp



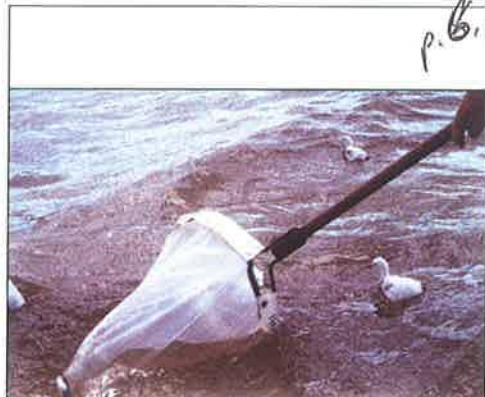
Ballard, 1995.05.02 [4455] releasing flagd BaSt chicks [ACh].bmp



Ballard, 1995.05.02 [4456] catching BaSt chicks [ACh].bmp



Ballard, 1995.05.02 [4457] JAKL catching BaSt chicks [ACh].bmp



Ballard, 1995.05.02 [4458] catching BaSt chicks [ACh].bmp

Photocopies of pages of JL's field notebook covering BaSt chick banding and flagging activity on Lake Ballard during late April – early May 1995 trip with ACl and ACh. For field notes of the entire trip, see the RMCR of all 1995 field notes. JL did not prepare a report on this trip, as these field notes were sufficiently comprehensive. See the Tables at the beginning of this RMCR for details of bands and flags applied each day. For other data and observations concerning the banding / flagging activity and the banded / flagged BaSt chicks, read these field notes.

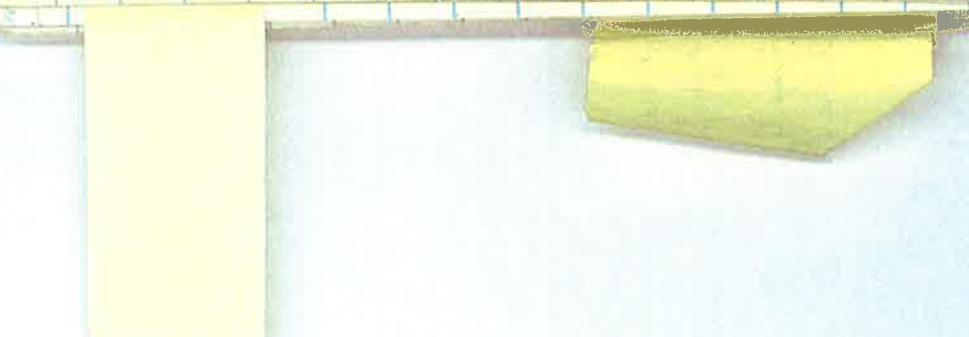
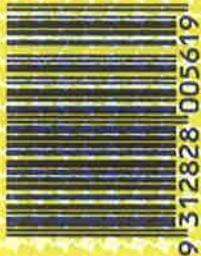
125 for security
Nº 14



NOTE BOOK

No. 561
J. Lane (07) 4055 100

7 April 95 → 29 April 95



Loire Bellard

Fri 28/4/95 contd.

Ticks of Brooks leaving
Rock breeding Island on 28/4/95

1 adult with 1 chick: 1111 = 4

1 in 2 chicks: 11111111 = 9

1 in 3 chicks: 11 = 2

1 in 4 chicks = 0

1 in 5 chicks: 11 = 2

⇒ 17 broods with 38 chicks

⇒ average = 2. chicks/brood

and median = 2 and mode = 2

Loire Bellard

Ticks of Brooks leaving

Rock breeding Island on 28/4/95

1 adult with 1 chick: 1111 = 4

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1 in 3 chicks: 11 = 2

1 in 4 chicks = 0

1 in 5 chicks: 11 = 2

⇒ 17 broods with 38 chicks

⇒ average = 2. chicks/brood

and median = 2 and mode = 2

1 in 3 off cliff

$\frac{3}{16}$ off cliff

Start of
Set 29/4/95
Up Henry main overcast
going up at 0.215 hrs.
off cliff 0.930 hrs.
Bonnehat Virey Island at 0.949 hrs.
1 with 2 off cliff
1 in 2 in
1 with 3 down slope
1 in 3 in
1 in 3 off cliff
1 in 3 off cliff

L. Bellard

Set 29/4/95 Contd

L. Bellard

Set 29/4/95 Contd

1 wall 3 off cliff
1 wall 2 off slope
1 wall 3 off cliff
1 ~ 4 ~ ~
1 ~ 2 ~ slope
1 ~ 3 ~ ~
1 ~ 2 ~ cliff
1 ~ 3 ~ ~ (was 4)
1 ~ 4 ~ ~
1 ~ 1 ~ ~
1 ~ 3 ~ ~
1 ~ 3 off slope
1 ~ 1 ~ ramp
1 ~ 3 ~ slope
1 ~ 3 ~ slope
1 ~ 3 ~ cliff
1 ~ 2 ~ slope
1 ~ 2 ~ cliff
 $\frac{1}{18} = \frac{47}{52}$

1 wall 3 off cliff
1 ~ 4 ~ ~
1 ~ 3 ~ ~
1 ~ 1 ~ ~
1 ~ 3 ~ ~
1 ~ 3 ~ ~
1 ~ 3 ~ ~
1 ~ 3 ~ ~
1 ~ 3 ~ ~
1 ~ 5 ~ ~
1 ~ 3 ~ ~
1 ~ 2 ~ cliff
100% low

100%

Lake Bellwood

29/4/95 Concl

1937/38 325
Napa Valley
Sonoma County

1	wall	1	off	up
1	in	3	~ off	
1	in	2	~ in	
1	~	2	~ in	
1	~	4	~ off	
1	in	3	~ in	
1	~	2	~ in	
1	in	4	~ above	
1	~	3	~ off	
1	~	3	~ in	
1	~	3	~ ~	
1	~	3	~ ~	
1	in	3	~ ~	
1	in	4	~ ~	
1	in	3	~ above	
1	in	2	~ in	
1	~	3	~ off	
18		55		2

Early literary River delta

Early Henry River dates

$$\begin{array}{r}
 13 \cancel{5} / 94 - \sqrt{5} + 1 \cancel{1} \cancel{1} \cancel{1} \cdot \frac{\text{non}}{\text{standard}} \\
 21 \cancel{5} / 94 - \frac{\text{non standard}}{\text{standard}} \\
 3 / 6 / 94 - \text{no } \text{no } \text{no}
 \end{array}$$

—

14/8/94 - lone

16/8/94 - Pearson + N. Watts

卷之三

9/9 - Lesson

$$19 \mid 10 - \text{fusin}$$

110

1. *university* (university)

1 n 4 ~ ~ ~
2 n 3 ~ ~~the~~ type
3 n 2 ~ cliff

$$\begin{array}{r} 14 \\ \times 1 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 14 \\ \times 1 \\ \hline 14 \end{array}$$

"Log Book" records for my
Tropic Runner

Date Trip Odometer Init
10/4/95 V-W case 586 JL
11

1153
13 — 1408
14/4

15

16

17

18

19

20

21

22

23

24

25

L. Bellot

Set 29/4/95 Contd.

Continuation from two pages previously

Date	Trip	Odometer	Init	1	2	Off
10/4/95	V-W case	586	JL	—	4	"
11				1	11	"
12				1	11	"
13				1	11	"
14/4				1	11	"
15				1	11	"
16				1	11	"
17				1	11	"
18				1	11	"
19				1	11	"
20				1	11	"
21	Heavy Rain	1689	JL	—	3	"
22	—	1689	—	1	2	"
23	—	1689	—	1	1	"
24	Bar case	1699	JL	1036	4	15 36
25	—	1699	—	—	—	—

See next notebook for continuation

Jeremy Howell

03 524 2373 (fax)
524 2348 (w)
776 6034 (h)

Kayakle Street Three
0845 - 0900 hrs

1445 - 1500 hrs

ph 090 212677 fax 090 217831

?)
John and
Diane with Observatory

091 935600
091 922294 (fax)

Peterin Hocke
(Lemai Afelt) 383 4777

E.R. Price (First National) Bsn

097 521100
P.O. Box 254 Bsn 6280
\$758.35 / month

No. 15



NOTE BOOK

No. 561

John Lane
C. A. C. & A. Bussell

Sal 29/4/95 → 17/7/95



Lake Bellard size 29/4/95 and

Lake Bellard

Rest not until at 1039 hr.

1 walk 2 off cliff
1 n - 1 n along

1 n 3 n cliff

1 n 2 n along

1 n 4 n cliff

1 n 2 n

1 n 2 n

1 n 3 back 1

1 n 3 n cliff

1 n 3 n along

1 n 3 n

1 n 3 n cliff

1 n 3 n

3 off cliff on their own (one part of 6)

1 walk 2 n cliff

1052 hr R 35 36

Lake Bellard 29/4/95 contd

L. Bellard

29/4/95 contd

1	wall	2	off	cliff
1	w	1	in	ramp
1	w	2	-	off
1	w	3	-	
1	-	3	-	
1	-	3	-	
1	-	1	-	
1	w	2	-	
1	-	1	-	edge
1	-	2	-	off
1	-	4	-	
1	-	2	-	edge
1	w	2	-	off
1	w	3	-	ramp
1	w	3	-	cliff
1	-	2	-	
1	-	1	-	edge
1	-	3	-	off
1	w	3	-	
<u>18</u>				<u>40</u>

1101 h

1	wall	3	% off	
2	wall	Came down & jumped by themselves		
1	wall	2	% off	
1	w	2	-	cliff
1	w	3	-	
1	w	3	-	
1	w	3	-	
1	w	3	-	
1	w	3	-	
1	w	3	-	
1	w	3	-	
1	w	3	-	
1	w	3	-	
1	w	3	-	
1	w	3	-	
<u>16</u>				<u>40</u>

L. Bellard

29/4/95 - back 29/4/95 back

back back

light wind NNE 1235 hrs
- gentle E wind & ~~back~~
overhead cloud.

1382 hrs: Standard bending
082 -
finished 95021

1640 hrs finished bending. Last bender
work area number ~~95127~~ 95127
1715 hrs ~~back~~ we get
back to Camp Island.

and 95110

95058 ~~area~~ not used (bumped into bag)

\Rightarrow total no' benders = 106 105

L. Bellard

29/4/95 - back 29/4/95 back

back of Sat 29/4/95 -

the strong E-SE wind, heavy
cloud and heavy rain overnight.
Span 1" of rain in 3 mins left
on table overnight. All unscaled
rods in 10' in Shrine were declared

closed to heavy traffic for 24 hrs
from this morning (news at 7.00 am)

We stayed in back till 7.15 am

because of the weather. Had
breakfast. Made radio check with
Workshop (Norway) at 0800 hrs.

Finally biffie & got back to
over higher end by Long Island
in the 2 back (12' + 10' point)
with 2 x 8' up outboards at ... hrs.

L. Billek 29/4/95 (contd)

L. Billek

29/4/95 (contd)

whether we observed signs of
nesting - does cloud reducing
but no birds heard from ESE.
Booted down to survey
whole nest to 2nd breeding stage
at - has not found that
birds (young & adults) were
coming off the breeding colony at
a rapid rate. We counted
184 broods (427 chicks) coming
off the island between 0955-1100
and 1130 hrs. Note that
families coming off island much
faster than yesterday as when ~~they~~
it was raining.

Family parties came down either
either by jumping down from
"cliffs" or walking down "steps" -

(~~between~~ between sections of cliff)
or walking down a slope (at
W end of island - ~~steeply~~
the single intact chick
had fallen into the water.
Cliff: parent (possibly "fledgling")
down from cliff to water below
(standing slightly) and called (short
calls visible - throat) and chicks
straddled/fell/jumped into the
water one at a time. On a
few occasions one or more chicks
fell/jumped into water first, then
parent flushed down and if any
remaining chicks, called them down.
On ~~most~~ occasions a chick
would be left behind & run the
top of the cliff and ~~wall~~ -

L. Baileya

29/4/95 comb

L. Baileya

29/4/95 comb

Once approached it ran back up to the nesting area and was attacked by adult adult - no doubt adult in older chicks.
A few songo (2-3 chicks) of chicks came down to ~~the~~ edge of island without adults and I stayed in without and adult not seen by 'em them. Some went here more object in laying their chicks with them (by pushing & calling) others which required a bigger. No predators/scoops seen this morning. After counting ~~184~~ 184 chicks (total number) broods of we stopped for lunch -

After lunch we plotted a straight line course in the direction of (3000') if the largest numbers of Shalt is seen on Throby (27/4) several times. See map to see how far we got before water too shallow. We then headed to nearest beach island & scanned with telescope for Best. Decided to zig zig one way back toward 2nd breeding island catching chicks and banding them on the way. We landed 10 chicks (total number)

L. Ballek

Sun 29/4/83 - bunting

All of these were entirely
downy, except one with
well developed downy feathers
feathers and ≈ 5 with slightly
elongated feathers.
~~of which we found~~
~~on ~~downy~~ nest~~

Common bunting bill g
was once we had done 100+.
We stopped bunting at 1640 hrs
~~as~~ ~~as~~ before ~~as~~
was just to low at ~~as~~
It was away with a
light SE wind with afternoon
- excellent conditions for
catching & bunting (bait for
us and for chick).

TD DO Sun 30/4
- Notes (mine) of Clivio Sanding?
- Band chick
- Weight & bill length from sample
(second how many in brood from
which hatched + band no.)
Need to remember.
- broad wings on water?
- Fly longest.

Short 30/4/95

30/4/95 (contd)

(if no adults or chicks visible but may have eggs - certainly where one egg scattered there this case). Some have adults sitting right (one eggs or chicks visible), some have ~~1 egg~~ chicks visible

0917hrs - first two chicks on right at W end of island. 34 had eggs at 2 chicks in a corner of 3. Picked one egg & dropped it. Picked it up. At this point every chick had another on the right (this) & the bill it was born it kept and began plucking feathers out. Then a few plucked it by an pulling small pieces of "meat" off the chick & swallowing. The other adults (one chick) have just pulled back about 10 m

0830 Left camp island - flat grass - calm, sunny. Within 300 m of 2nd breeding island we were across 1 chick with 3 chicks

1	"	2	"	3	adult
1	"	2	"	4	adult

2 chicks with 4 " " swimming in the water.

Arrive at viewing island at 0905hrs. Many chicks visible in and around this nest - no doubt because of the warm sun shining on the NE slope. Many of the mother adults at the E end of the island are empty

30/4/95 Lark

30/4/95 Lark

On earlier note to ~~the~~ before about
normally.

Male sit fluffy "by it" chick
one walk in & sound note from E to
W out of island.
Female lone preen at ~~near~~
chick (slept on flying island) for a while,
then walked closer to island and
gathered another lone chick in its
feet. On about walked
towards the chick when the mom got it
for comment. The mom jumps back

1c2, 1c2, 1c2, 1c2, 1c2, 1c2,
on the chick & then about walked
away.

0930 hrs - the mom flew off to
the bird island to the south west
(just off?) a chick in its beak. down
on low branch of bush.

2 court flew past me.

2 Shrikes now have island
0935 hrs - just to ~~out~~
library. Heard 300°. I have in
box of spatz & combed chick / today.

0942 - 1 will 3
hrs

2 ~~will~~ ~~7~~
2 in 6

1 in 1

2 in 6, 7, 1c3, 1c2,
2 ~~will~~ 7

4 Cg72, 1c2, 1c2, 1c2,

1c5, 1c6, 1c2, 1c2, 1c2,
1c2, 1c3, 1c2, 1c3, 2c6, 2c6
1c3, 1c4, 1034 hrs, 2c5,
1c3, 1c3, 1c2, 1c3, 1c2, 1c3

30/4/95

cont'd

bands on Rt. flag ~~on~~ left tibia

Band No. Bill wt. Flag?

1c2, 4c7, 1c2, 1c2, 1c3, 3c10, 1c3, 2c5, 1c2,
1c3, 1c3, 1c2, 1c2,
1c2 10.28g

1c8 4.67 - F1

1c2 4.66 - F1

1c0 - - F1

1c3 - - F1

1c4 - - -

1c5 - - -

1c6 - - -

1c7 - - -

1c8 - - -

↗ To right bank ~~between~~ 10.45 km left of 11.44 km.

10.45 km left of 11.44 km.

Ticks: Chickos

↗ To right bank ~~between~~ 10.45 km left of 11.44 km.

band nos. 30/4/95
Combed

family
of
3 with
1 chick

094 new young
092 new bird
150 "day old"
1255 hrs. - 1 chick "day old"
 chick no bnd.

Stopped for lunch on Wade's 1255 hrs.
water clear to bottom. Horizon
Rock of Pennsylvania, some marshing

Present 1.15 pm. Cloud approaching

band no	bill	Flagged?
151	—	FI
152	—	FI
153	—	FI
154	—	FI
155	—	FI
156	—	FI
168	↓	FI
175	↓	FI

band nos. 30/4/95
Combed

Flagged?

band no.	bill	Flagged?
179	↓	FI
180	—	FI
89	↓	FI
90	—	FI
91	—	FI
92	—	FI
Totals		
244	(start bnd)	19 flagged
one chick of 8		19 flagged
" "	" 7	19 flagged
" "	" 11	19 flagged
Final 1601 hrs.		
119	—	3 biggest
		catches with
		story not
Totals: <u>119</u> banded - of		
these, 19 were yellow		
flagged on left table.		

30/4/95 Contd

Granite Ledge - start 1656 hrs

- 1 chick seen
- 2 heard squaking and one seen to drive.
- 1 cat (young) with 3+ tiny chicks on water near nest. (red bird) ^{slipping} Nest was 2.0 m above water level and completely empty.
- 2nd nest
- Cat nest with 6 more eggs, located 2 m in water - scale in my hand needed fresh leaf material in nest (green) - looks like a nest in an old nest.
- Cat with 2+ nest containing 3 tiny chicks (cat tiny)
- 1 Little Green Heron (big)

30/4/95 Contd

- 1 [♂] Monk Dove heard

- 1 Little Green Heron
- ~~3+~~ nest - large nest fence laying. Cat chicks now fledged nest (eighth day but with fresh from heron - Melobucco.)
- Heron bird (Ch 2) and Cigale (1) in the plant

Started like sunny 9 am.

Booked (and Argued) back to Camp Tuk.

Wind was gentle from E except early AM (6-9 am) when there was no breeze.

PM 1.0 The largest (see photos) chicks were fledged. Most were closing wings & were banded.

20/4/95 Cost

For Mon 1/5 Red's Shore

Buy Chapman

- be at our place at 5pm
- bring 2 boxes of birdseed
- 1 egg incubator
- many Vireos in - all ok.
- ✓ food for bird pan?
- 2 L bird milk.
- ~~3 boxes~~: 700g Chicken
- pet Westie (Chris?)
- Clive - 3 DObs

islands, water tank, general
fixing.

Land bird should call no at 5pm
lateral from 5.00pm onward if
not at our vehicle by 5pm.

From Z Sigma back

adults	Chicks									
	1	2	3	4	5	6	7	10	13	
1	1	22	11	1	-	1	-	-	-	
2	-	-	-	-	-	4	4	1	1	
3	-	-	-	-	-	-	-	-	-	
4	-	-	-	-	-	-	-	-	-	

Total adults = 63 ✓

Total chicks = 169 ✓

Total "probable" = 48 ✓

$$\text{Average chicks/adult} = \frac{169}{63} = 2.68$$

* Note that I only counted families

and when there is no confident of
both adult & chick numbers. I did not
count large parties ~~(flocks)~~

(generally 10 → 50 chicks + 5-20

adults)

↑ Compared with 2,579 chicks

probably not island gathering.)

Start 1/5/95 Crotal

1/5/95 Crotal

where Camp Island 0900 hrs
some heavy clouds 0915 hrs

2 hrs (?) flying very fast
clouds so we wouldn't see
birds

birds → rockhopper Eland
Sooty Terns - some cloud

0921 hrs.

1 c 2 off slope
1 c 3 " " "
1 c 2 " " "
1 c 2 " " cliff

Labels broken & chick off nest, not
slope, has incomplete chest band,

1 c 2 off slope

1 c 1 (the adult with example)
60% band

1 c 3 off slope

1 c 2 " " cliff

1 c 2 " " slope

1 c 1 " " cliff

1 c 1 " " slope

1 c 2 " " ring

1 c 1 " " slope

1 adult with 60% chest band, not 2 chick

by edge of cliff, place down to water
while it's rain, then place back to chick, band
then, when back then back to sign & band "jaws"
60% slope

1 c 1 off slope

1/15/95 land

• 4/5/95 land

1 short run down from next to

water and about

1 c 2 in cliff.

0945 hrs.

1 c 5 in cliff

1 c 3 in slope

1 c 2 in cliff

1 c 2 in

1 c 2 in

1 c 2 in slope

1 c 2 in cliff

1 c 3 in

1 short run down & climbing

1 c 1 in

1 c 2 in

1 c 4 in

1 c 2 in slope

1 c 2 in cliff

1 c 6 in cliff

1 c 1 in cliff

1 c 3 in cliff

1 c 3 in

1 c 3 in

1010 hrs.

1 c 2 in slope

1 c 2 in cliff. (37%)

1 c 3 in

1 c 2 in cliff.

1 c 3 in

1 c 2 in cliff

1 c 3 in

1 c 2 in

1 c 3 in

1 c 3 in (46%)

1/5/95
Costa

2 little green cormorants, landed on
rooftop at 21 east. Pulled out about
chicks ~~BB~~

1 c 2 " cliff (35% bare)

1 c 1 " "

1 c 2 " "

1 c 2 " rough

1 c 2 " cliff

1 c 2 " slope (80% bare)

1 c 2 " "

1 " 4 " cliff

1 " 2 " "

1 " 2 " "

1 " 1 " slope

1 " 2 " cliff

1 " 1 " slope (100% bare)

1 " 2 " cliff

26 more until the 60% best bird here
one off cliff into water then went
back to board the shaggle

1/5/95 Costa

1 c 3 " cliff
1 c 2 " slope
1 c 2 " "

1 c 2 " cliff (90% bare)

1 c 1 " "

1 c 2 " "

1 c 2 " "

1 c 2 " slope

1 c 2 " cliff (95% bare)

1 c 2 " "

1 c 1 " "

1 c 2 " "

1 c 1 " "

1 c 2 " "

1 c 2 " cliff

1/5/95 Contd

Block Number

first
block

I caught her & sang & let her off

then ran back & got one night!

ones went back in the direction (Towai)

I & 3 off above
1 c 2 off (10th band)

1146 hrs.

Many female adults are banded
Chicks available (in & near nests) from
E to W end.

Flagged:

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Bands 0.Flagged

353 FL

354 FL

355 FL

356 FL

357 FL

358 FL → Bill 4.56

360 FL

361 FL

362 FL

365 FL

366 FL

368 ♀ FL last bird
banded todayProject Totals this tripTotalFlaggedTotal

29/4	105	—
30/4	119	19
1/5	125	24
<u>Total</u>	<u>349</u>	<u>43</u>

Summary of Birds coming off
last bird todayTotal BirdsTotal ChicksChicks/BirdTotalChicksChicks/BirdTotalChicksChicks/BirdTotalChicksChicks/Bird

Totals — 125 birds ($245 \rightarrow 269$ until
of these, 24 were also flagged.

1. Gosh hawk 8-9 and Clear E chickling
in Buller's nest Aug 30 at 1720 hrs.

Showing of Birds coming off island on 1/15/95

Brnch Size	Number of Birds	%
1	11	22% 22%
2	11	60% 60%
3	11	17% 17%
4	1	2% 2%
5	1	1% 1%
6	1	2% 2%
7	1	60% 60%

For Tues 2/5

- bring scale
- bring for Andy
- Andy's notebook
- \$60
- \$60 birds off island?
- photo & log needed on hot island?
- calculator
- weigh log
- Graveline Dry L + Solty.
- etc.
- make a line

2/5/95

0840 hrs - leave Camp Island
330 F1 -

0925 hrs :
0935 hrs - reached Vining Table
Only 26 Best visible sighted
A small number of down chicks under
and around these birds
One only 15' shaking/walking on
blind.

Approx 130 Best, many with chicks,
sitting in the "parks" (mostly snow!)
at the W end of the island.

1c3 off slope
1c2 " "
1c2 " "
1c3 " "

1004 hrs.

1c4 off slope.
1002 hrs.
1c2 off slope & 2 chicks
Grazing flock from S to "Vining
area". Chicks in down
below wing line. Best rose
up from flat area
1c2 off slope
1c1 " "
94.0

1c2 off slope.
1046 hrs 1 adult & 2 chicks
1c4.0
1c5 N/A 1.95
Adult 165 Bill + Head 45.1
C1 26.0 22.7 - 45.0
C2 22.0 23.4 - 44.5 / 43.6

3 8mm Falcon flew past

2/5/95

(Candy Chapman ID'd 1st 46m)

1c4 off slope.

1002 hrs

1c2 off slope & 2 chicks
Grazing flock from S to "Vining
area". Chicks in down
below wing line. Best rose
up from flat area
1c2 off slope
1c1 " "
94.0

1c2 off slope.
1046 hrs 1 adult & 2 chicks
1c4.0
1c5 N/A 1.95
Adult 165 Bill + Head 45.1
C1 26.0 22.7 - 45.0
C2 22.0 23.4 - 44.5 / 43.6

2/5/95.

~~11.35~~ Adult w/ 3 Chicks

wt	bill	wing	bill + beak
2 A	30.0	25.4	45.2
2 B	27.0	21.6	42.5
2 C	34.0	23.5	45.6

tailluc.

Adult

2 B

2 C

23.35 in + tail on adult for chick.

2 A w/ brood pouches.

Adult w/ one chick 1.40 P.M.
wt bill wing bill + beak
Adult 185g 77.2 205g 115.0 98.6
4 A 32g 23.2 — 45.5 45.4

Exh chick — Bill: 23.3 B-4:45.7

Adult wt: 27g.
44.4

12.05 Adult w/ 3 Chicks

wt	bill	wing	bill + beak	tailluc.
Adult	190g	—	203	94.9
3 A	63g	33.7	—	59.8
3 B	68g	34.8	—	61.1
3 C	57g	31.1	—	57.8

Adult	bill	wing	bill + beak	tailluc.
1	13.3	9.5	—	—
2	—	—	—	—
3	18.2	13.9	—	—
4	19.1	13.6	—	—
5	22.6	16.6	—	—

2/5/95

Adult w. 1 chick 2.13pm

1542 hrs

No's	wt	bill	wing	♂ + lead tail
6 Adult	190.9	72.3	200	108.3
chicks 5/4	83.5	43.1	+	40.8
				57.5

2 brown feathers

♂

All with complete down + fully plu.
Sight on what may be same egg found

1432 hrs. — robust beak/long

372	—	—	406	F1
381	—	—	407	F1
382	F1	—	408	F1
383	—	—	409	F1
384	F1	—	410	F1
385	—	—	411	F1
386	—	—	412	F1
387	F1	—	413	F1
388	F1	389	414	F1
393	F1	392	415	F1
394	F1	416		

not flagged

2/5/95

2/5/95 Cont

2/5/95

Total for 2/5/95
Bands 46 (370 - 415)
(incl)

Flycatch : 28

Progne Tulea.

$$\text{B marked} : 349 + 46 = 395$$
$$\text{Flycatch} : 43 + 28 = 71$$

Stopped banding/flagging and learned for Camp Z.
at 4:50 pm
banded brant at Camp Tulea at
approx 5:20 pm

(We were probably in to strong SE wind
and had only 1 flag each with us)

W/2 took the orange & yellow
(each preen feathers) from each adult
and stuck to ~~the~~ ^{the} brant when
obliged in 70% daylight
(over lake water for the 30%)

Saving of Shot Birds

We collected 5 birds of choice
each clearly a distinct brant with
its own (long) parent. We
had to collect all 5 parent
birds but missed #102. — 00
only got 4. All 4 were
marked with ~~the~~ ^{the} orange &
yellow (and black margin to
upper eye) and black brant.
All 4 also had blue areas of
color on either side of rump
(large brants) (brant pictures)

2/15/95

Adult	Chick	Chick label
Adult 1	Chick 1	
	Chick 2	
Adult 2	Chick #2 a	
(not collected)	" 2 b	
	" 2 c	
Adult 3	Chick 3 a	
	" 3 b	
	" 3 c	
Adult 4	Chick 4 a	
Adult 5	Chick 5 a	

Totals: 4 adults and 10 chicks

Take shot in one of the bands
we lost chick from today (from
banding/banding) the new one
chick will = yellow by

2/15/95

Key scanning with the others

Leche Bollard

Sheet Wuc 3/15/95

Up at 0630 hrs
Breakfast

Sam Pinto Show

Right wing

Only 10 Shift

Water level Queen Lelands
of lake on plane on S side of
Canyon Salado of 0844 hrs

2nd break is taken at 0906 hrs
- only 10 Shift flying and 7 flying
on landing < 10 charts available
- c120 Shift on "spots" (charts) +
at end of shift

- cc 10 bands of charts with Shift on "spots"

The ~~sets~~ Recapped Power on charts in

3/15/95 cont

front of me - on many charts
Conditions: 100% overcast - moderate
→ strong E wind in cool.

416 FL
417 FL

418 FL

419 FL

420 -

421 EC

422 FL

423 FL

424 FL
425 FL
426 FL

427 FL
428 FL
429 FL
430 FL

431

432

433

3/5/95 Cade

458 PI
449 PI
450 PI
451 morning
452 } all flagged

457 }
} all flagged.
456 }

Flagging Sals Total (3/5 AM)

Border: 59 (evening)
Flagging: 57

Net total of "Tropical Island" from
approx 1210 hrs \rightarrow 1300 hrs.

3/5/95 Cade

458 PI
449 PI
450 PI
451 morning
452 } all flagged
457 }
} all flagged.
456 }

+ 4 FL only.

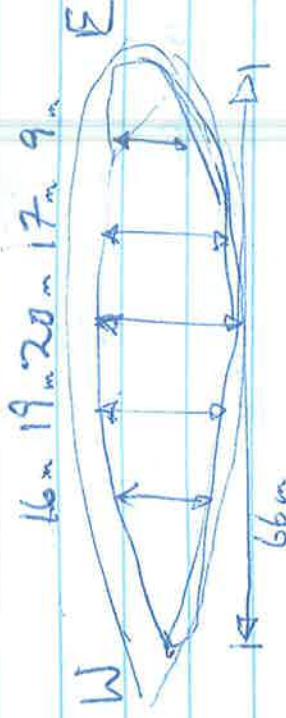
1505 hrs.

+ 3 FL only
+ 10 FL only

Border 2 on Tropical Island

at 1610 hrs
→ was only 1 bird only.
and 2 Abundant
and = 15 on "spis" (small)
at end of island with small
m-s of chicka

Measurements of Nesting Area
66m long.



Off or 5.02 m

$$\text{Total Banded } (3/5) = 59 + 25 = 84$$

$$4 \text{ Flycatcher } (3/5) - 57 + 25 = 82$$

with bands

+ 17 Banded

without bands

$$= 97 \text{ banded}$$

Grand Totals

$$3 \text{ bands} = 395 + 84 = 479$$

$$\text{Flycatcher (with bands)} = 71 + 82 = 153$$

$$\text{ " (without bands)} = 17 \checkmark$$

$$\text{Total Flycatcher} = 170$$

Other species of "banded" seen on Banded
on 3/5
Puffin (1), Wedge-tailed
Eagle (2), Long-tail & also in pairs to
30. Avocet (23 species), 1 Silver Gull
(gullery). No cranes, 1 Stork

Yesterday silver mine was seen
choice - one of 500 and over
in bottom on water, 30m from a
bunch of chubs and feeding them.

Bulky strike:

Under bridge & along Chapman
creek bedrock boulders
from bed of Lake Desch (pinkish
and white) white massive cobble
not to it)

Peterborough - Find in University

Study rock walls at Lake Leffroy:
Pleistocene signum (salt like)

seen as sterile brown weathered
and little from waste dredge
(as bubbly saline water) etc -
1/2 billion plants growth on Lake
Leffroy - many gold from open
pits in middle of lake.

Historic story PhD - was
want to study microfossils
of algae leaves in lake by chance

Start Th. 4 May 95

133

Lot Weekly - Nest
diseases, effects + species

① nest ABHG :-

30	33	35	cm
31	31	37	cm
29	32	30	cm
32	45		
35	48	35	cm
33	34	50	cm

② nest DEKJ

▲ triangular boundaries marked
- 3 sides of triangle

Q nest ABCTH :-

34	29	28	cm
30	33	34	cm
28	34	30	cm
28	30	30	cm
38	25	34	cm

Q nest CDTJ :-

38	31	23	
32	31	33	
31	29	27	
31	35	40	
27	36	29	

Q nest DEKJ

29	35	37	
32	37	29	
30	38	27	

First three pages of a seven page fax (24/04/1995) from CDTM (at Broome Bird Observatory) to JL (at Busselton) with a cover note that reads 'herewith 6 pages of data – some of it partly processed and/or with comments. It will give you knowledge of what we've got & what we still need!'. Inter alia this fax indicates that on 12/04/1995 12 BaSt chicks were 'caught & released [by CDTM] as they left the colony before reaching water i.e. just left nest'. These chicks were weighed but not banded. In addition, 10 chicks were 'caught & banded some 1 km [the large space between 1 and km seems to indicate a range was written]. These 10 chicks (in 4 broods) were also weighed and had bill lengths measured.

Their band numbers were recorded as '11' – '20'. The bands issued by ABBBS to GBP on 23/03/1995 (see below) had 'Serial Numbers' 95011 to 95500, with 'Prefix 082'. So the bands that CDTM was referring to here were bands (082) 95011 to 95020.

They were caught and banded on 13/04/1995 '(probably 0-2 days after leaving nest)' [2 is very faint – maybe 3?].

Note that JL's only copy of this fax has small amounts of important text missing due to cropped borders.

FAX to Tim Lane, CALM Burselton

24/4/95

097-521 432

From Clive Minton at Boone B.O.

Herewith 6 pages of data - some of it partly
processed and /or with comments,
it will give you knowledge of what we've
got & what we still need!

Best of luck,
Clive

~~~~~

Biometric dataAdults (collected with 1 or 2 day old broods)

84.

93.

| Family | Sex<br>(disection) | Bill | TBL   | Wing | wt. | Plumage                                                 |
|--------|--------------------|------|-------|------|-----|---------------------------------------------------------|
| 1      | ♂                  | 74.5 | 110.7 | 205  | 210 | Full breeding plumage                                   |
| 2      | ♀                  | 64.1 | 101.5 | 196  | 197 | * Some white feathers in breast band of fledgling       |
| 3      | ♂                  | 74.6 | 107.4 | 209  | 203 | * Some white feathers still in breast band of fledgling |
| 4      | ♂                  | 74.2 | 111.2 | 210  | 241 | "                                                       |
| 5      | ♂                  | 69.1 | 103.9 | 198  | 209 | "                                                       |

\* No active molt occurring in breast feathers.

? appearance that males are bigger than females?

all five birds had active large double broad patches ie, they had been incubating (even the female one).

Chicks - collected with above adults 1-2 days after leaving nest

| Family | Bill length | Weight |
|--------|-------------|--------|
| 1      | —           | 23     |
|        | —           | 23.5   |
|        | —           | 23.4   |
| 2      | 24.4        | 26.3   |
|        | 20.3        | 26.6   |
|        | 20.2        | 26.3   |
|        | 22.5        | 24.6   |
| 3      | 23.3        | 28.5   |
|        | 25.2        | 27.8   |
|        | 21.7        | 26.7   |
| 4      | 22.5        | —      |
|        | 19.7        | —      |
|        | 23.1        | 26.9   |
| 5      | 21.2        | 25.2   |
|        | 22.5        | 26.5   |
|        | 26.1        | 26.7   |

11/4/95

Average chick weight (only of birds  
in 3 chick broods)  
= 25.8 gm at 1-2 days  
after leaving nest

Chicks- caught & released as they left the colony before reaching water  
12/4/95 is just left nest

| Bill length | Weight |
|-------------|--------|
| —           | 28.5   |
| —           | 29.5   |
| —           | 30.5   |
| 24          | —      |
| 29          | —      |
| 31          | —      |
| 22          | —      |
| 26          | —      |
| 30          | —      |
| 25.5        | —      |
| 27          | —      |

had difficulty walking / keeping up with rest of brood

Average chick weight (all 3 chick broods)  
= 27.6 gm at leaving nest

28 S

| Chicks - caught & banded some |      |                    |
|-------------------------------|------|--------------------|
| Band No.                      | bill | wt.                |
| 11                            | 18.8 | 27 $\frac{3}{4}$   |
| 12                            | 22.2 | 31 5               |
| 13                            | 21.2 | 27.5 $\frac{3}{4}$ |
| 14                            | 18.9 | 23                 |
| 15                            | 19.1 | 26 $\frac{3}{4}$   |

| band No. | wt. from colony | 13/4/95 (probably do after leaving colony) |
|----------|-----------------|--------------------------------------------|
| 17       | 22.0            | 22.5                                       |
| 18       | 23.6            | 30.5                                       |
| 19       | 20.5            | 26.5                                       |
| 20       | 22.6            | 28.0                                       |

4/4 average chick weight  
= 27.4 gm (soon after leaving colony)

88.92.

Brood sizesColony 1, Lake Ballard. 1995. 87.  
41.

as leaving the colony

~~brood size~~ ~~date~~  $\frac{9}{4} \%$   $\frac{12}{4} \%$   $\frac{14}{4} \%$ on water  
1-3km from colony $\frac{11}{4} \%$ 344  
288  
56

| brood size | $\frac{9}{4} \%$ | $\frac{12}{4} \%$ | $\frac{14}{4} \%$ | % | on water<br>1-3km from colony |
|------------|------------------|-------------------|-------------------|---|-------------------------------|
| 1 Y        | 0                | 15                | 16                |   | 9                             |
| 2 Y        | 23               | 40                | 57                |   | 37                            |
| 3 Y        | 24               | 55                | 61                |   | 29                            |
| 4 Y        | 11               | 17                | 16                |   | 6                             |
| 5 Y        | 2                | 3                 | 3                 |   | 0                             |
| 6 Y        | 0                | 1                 | —                 |   | 0                             |

total broods 60 131 153 81

average brood size 2.87 2.67 2.56 2.40

\* probably 1-2 <sup>days</sup> after leaving colony.

JL's recordings (notes) of phone conversation with CDTM in April 1995, after CDTM had left Lake Ballard for Broome. Inter alia, while at Lake Ballard in April 2013, CDTM 'banded [and leg-flagged] 10 chicks (4 families) on water' [methodology described in detail]; 'do 20-40 per day near colony if can't corral'; '7-7.5mm on 'knee'' [presumably checking suitability of leg-band size]; 'did 10 in 2 hours'; 'Flag on right tibia (of the bird) band on left' and 'Equipment [was left by CDTM] at Jeedamya [pastoral station]'.

Note that the BaSt chicks were to have been banded on the right tibia and flagged on the left, not the other way around. See faxes of 30/5, 02/6 & 07/6/1995 above and article in WA Bird Notes June 1995 issue (No.74, p.19) and letter of 23/03/1995 below from ABBBS to GBP.

ClarieConversation of - April 95

091 935 600

- data to be posted to Brent (exchange)
- - - write up ASAP (me, Brent + Clarie)
- on line + ~~copy~~ <sup>FO</sup> <sup>14/4</sup>
- night puffed over - <sup>tools</sup> <sup>2</sup> <sup>1/2</sup> <sup>of</sup> <sup>15</sup> <sup>photos</sup> <sup>of</sup> <sup>each</sup> <sup>of</sup> <sup>15</sup> <sup>quarantine</sup> Fri <sup>D</sup> last week.
  - don't need to do again.
- - also counted addled eggs, dead chicks, + active nests.
- me to exactly <sup>resurvey</sup> ~~survey~~ up Colony 1 <sup>once</sup> ~~once~~ resurveyed. (quarantine 20,000 nests)
- Colony 2  $80 \times (20 \times 5 = \text{av } 15) = 1200$ 
  - $= 12000$  nests.
  - do resurvey exactly.
- ~~\* do~~ <sup>do</sup> aerial survey - other colonies:
  - could find no chicks > 2 days old even 11 days after hatching started.
- additional <sup>boot</sup> ~~boot~~ find - proper engine oil ~~at least 2~~ <sup>very</sup> cars.
- indirect evidence of nestling - "4 out of 5 were males"
- big unknown
  - ① When do family parties start checking?
  - ② What role do sexes play?
- AM ~~glorious~~ <sup>glorious</sup> weather changes
- PM left nest shrub etc returned.
- what proportion of ~~are~~ <sup>are</sup> ~~sharply~~ <sup>sharply</sup> marked
- no evidence of more than 1 parent with chick when leave colonies.
- rain added 13 cm
  - (51 <sup>51</sup> <sup>4 days after nest</sup> cm water depth at shrub in)
- banding:
  - did not breed in colony
  - didn't band any going to water
  - did catch birds going to water for recompence progress!

(2)

- fish = participants came they
- herded 10 chicks (4 females) in water -  
scraped with plastic net — easiest way.
- \* if took whole brood parent left (disagreed)  
+ did not reappear
- 5-10 min to weigh mouse, bird, by fly glue.  
↑ bill length.
- ~~table 2~~,  
began at 1 night, return to brood.
- drop yoyshers you have done before catching the next 2.
- flags : - open minnow + push on  
- dab of glue between 2 ends  
- hold glued <sup>tab</sup> for 1-2 mins - be v. careful  
it doesn't move.
- used more bird bags \*
- do 20-40 to dry near colony of nest coral.
- experts suggested to be very tight.
- 7-7.5 mm on "tongue".
- did 10 = 2 hours.
- Play on right side (of the brood) back on left
- begin at Tropic
- first heron = slender gullish  
and = heron — with bags to Argos.
- Argos = 30 m from where
- 1 boat next to heron. — ~~goats down~~  
is at station
- pelvis on board <sup>is at station</sup> motor — pelvis is.
- boat took is faster.
- electric is on board is NDC test.

(3)

- lots of good water on island
- 2 species at sea in
- 
- weighed 10 chicks of 1 - 5'   
 one chick all 5 eggs over 40 gm ( $\rightarrow$  48)
- leaving Dove Th May 3/4  $\rightarrow$  5 chicks
- not thru Helgoland  $\downarrow$    
 20-25 May
- 
- 3.4
- 2.8
- 2.4      2 days later.
- 2000 per day leaving island

**Undated page of handwritten notes by GBP for JL that read, inter alia,  
Clive [CDTM] was asked to leave the following with John & Cath  
Finlayson at Jeedamya [pastoral station] (1) Leg bands – in a shoulder bag  
marked BANDS'. CDTM did; see his note below of 15/04/1995 for JL.**

date?

148  
83

Jim

John & Paul

Clive was asked to leave the following with Finlayson at Jeedomyer

- ① big Bands - in a shoulder bag marked BANDS
- ② Radio. - Aerial still in the tree.
- ③ Turtor winch cables & chains
- ④ outboard
- ⑤ Argo keys. The Argo to be parked 55-100m east of the track on the south end of crossover lake in scrub for concealment.
- ⑥ Empty Jerry cans & water containers.

You will need 4 litres of outboard oil plus at least 60 litres of unleaded fuel. 2x Jerry cans 1x outboard tank.

Most of our equipment was packed in the ABC tent. The balance under the green tarp. The latter should be re-set to provide more space for cooking & living. Clive has left Argo keys on radio handle (tied) in shears & carabiner at Jeedomyer.

Notes on behaviour etc to come.

I suggest you strung a long rope between two trees & suspend the green tarp from it for shelter for a kitchen & sleeping.

Check that the bags are on the rear of the Argo before using it. lift up the rear deck cover & inspect. spray chains with TAC2 lubricant as you drive along. I will do other gear points later. Tyres have been inflated to ~~100~~ hard. Let the bags in let some air out. Pressure gauge  $\rightarrow$

**Handwritten note (1030am, Sat 15/04/1995) from CDTM to JL. This note was left for JL/GBP with equipment at Jeedamya pastoral station. The note listed, inter alia, 'Bird bands/flags etc.)'.**

Jim

Jim

10.30am Sat 15/4/95

Herewith the following items

76  
77.

Hand winch & claims (star picks) / heavy  
hammer

Radio (with harness to ARGO wired  
to handle) <sup>N.B. Bumpers are</sup>  
<sup>taken out & stored to</sup>  
<sup>fit the lever.</sup>

Empty water containers

Boat Motor (fuel tank in trailer)

Bird bands (flags etc.)

There are two empty Nally boxes in  
trailer.

There are several containers of good  
drinking water on island.

Grant's radio & Mark's pullover etc. are  
in tent.

Best of luck.

Clive

Handwritten notes (only 2<sup>nd</sup> page included here) by JL headed 'Grant's [GBP's] Tasks Sat 8 → Tues 11 April 95'. Inter alia they read: 'No-one should walk thru or otherwise disturb nesting area which has chicks. No banding of chicks [is to be undertaken] (too small)' and 'Keep leg flags & bands & colour bands & glue with your gear and bring back to Perth'. The 'colour bands' were intended to be used to individually mark adult BaSt on nests (see letter of 23/03/1995 below from ABBBS to GBP).

Counts Tasks Sat 8 → Tues 11 April 95.

2. (92)

4. Each day, ~~make~~ make a note of whether you see any adults (or chicks) about (no activity)
5. Take water samples at your standard location on Saturday and Tuesday (top and bottom for salinity, top only for total P and pH and turbidity). Do standard sweep (available) samples ~~out~~ at same time (was it three on ~~the~~ each occasion?)
6. Make a trip to the 2nd breeding colony (3.5 km west) and take wgn. samples from breeding island
7. While boating ~~to~~ between the two breeding islands, measure depths and record positions (preferably with compass and map or photo).
8. Survey Crossover Lake for evidence of breeding activity ~~by~~. In particular search for young on the water (to compare with Bass). Ideally do each day between 5-6 pm. ~~Especially~~ Essential to do on Tuesday (as you leave?). Don't spend more than 1-1 $\frac{1}{2}$  hr on each survey. (I have seen GylL, PeaD, Shel, Padd, MusD, Mand, BbiD, Swen, Cost, 14h Gb, Wftr on the lake).
9. No one should walk thru or otherwise disturb nesting area which has chicks. No bending of chicks (too small).
10. Keep leg flags <sup>& colour bands + glue</sup> & bands with your gear and bring back to Perth.
11. Record any predator activity

**Article 'Banded Stilts Quick off the Mark' by 'Clive Minton, Grant Pearson & Jim Lane' in 'The Tattler, No.3, pp.3-4, April 1995, that inter alia reads: 'We collected lots more data and started some banding/leg flagging. Jim returns on April 26<sup>th</sup> [1995] to continue the studies – especially banding and creche formation'.**

etc). It was a real frenzy of activity. Pairing, fighting, copulating - 20 visible at any moment - like a cross between the main street of Tokyo and the 'red light' district of Kalgoorlie. Particularly interesting was that many of the birds were not in full breeding plumage even - in fact 10% had no breeding plumage at all! Yet these birds were still taking part in all activities even incubating! Needless to say we have a few photos.

About ten days later Jim Lane (from CALM) and the ABC Wildlife Film Unit arrived and spent ten days at the colony and carried out a further aerial survey as well as much research and observations. The initial colony had grown to 20,000 nests at the rate of 10 per square metre and a second colony of 15,000 nests was forming about 3 km away. There were also two smaller colonies. Hatching commenced on April 3rd and data suggests that the incubation period varies between 21 and 23 days.

The white eggs (with a few black streaks and spots) produce lovely fluffy white chicks - both unique for waders. When they are all dry one parent takes them down to the water and away they swim. Grant and I arrived on our return visit to relieve Jim Lane on 8th April and stayed until 15th (last three days on my own - living on an island 30 km from the nearest station was quite an experience in itself). Each morning ca 2000 chicks left the colony - a wonderful, unforgettable sight.

We collected lots more data and started some banding/leg flagging. Jim returns on April 26th to continue the studies - especially banding and creche formation.

#### BYE-BYE WADERS

The wardens at Broome Bird Observatory, Jon Fallaw and Becky Hayward, have been assiduously logging the departure of waders from Roebuck Bay on the first leg of their journey back to their northern hemisphere breeding grounds. Most departures take place between 4 and 6 pm but on really good days flocks may also go earlier in the day (particularly triggered by a rising tide).

So far (21 April) over 20,000 have been counted. Eastern Curlews were the first to depart from March 7th. Most Great Knot went in the last week of March (from 21st March). Bar-tailed Godwits were the main migrants for the first two weeks of April, with males departing first. In mid-April Black-tailed Godwit and Whimbrel took over, followed in the next week by Red Knot, Grey-tailed Tattler, Terek Sandpiper and Ruddy Turnstone.

The most amazing count was a total of 1800 Whimbrel over 6 days. It is rare to be able to find more than 2-300 on any formal count. They must be distributed all round the mangrove borders of Roebuck Bay and only congregate in a compatible location at the departure point in Crab Creek when assembling for migration.

Only Red-necked Stints and the rest of the Curlew Sandpiper to go, migration normally ceases by the end of April.

#### MORETON BAY - AN UNCERTAIN FUTURE - Sandra Harding

Moreton Bay became one of two sites listed under the Ramsar Convention in Queensland in December 1993. In March 1994 it was decided that Brisbane, the city adjoining Moreton Bay, would host the 1996 conference of Contracting Parties for the Ramsar Convention.

Yet there is no management plan in place for Moreton Bay. A Strategic Plan for the waters areas of the Bay provides only a policy guideline and the Local Government Planning Schemes do not extend beyond the line of highest astronomical tide. The Moreton Bay zoning plan which is intended to provide for control of activities likely to cause significant environmental impacts such as dredging, mining and some commercial activities was prepared in December 1993 but has still not been adopted by Government.

How long will it take to see a conservation management plan for Moreton Bay, a Ramsar site? In the meantime, ongoing battles are fought against the threats to Moreton Bay. Some of the recent threats are:

- \* Proposed Belmullet Creek Sewage Treatment Plant
- \* Coral mining around Green Island
- \* Pollution from the Brisbane River - no management plan either
- \* Urban development in areas adjoining mangroves and in reclaimed areas
- \* Port of Brisbane reclamation works
- \* Proposed Manly boat harbour extension
- \* Industrial uses of the Brisbane River mouth

Much of the loss of wetlands in Moreton Bay is insidious, occurring incrementally due to lack of planning and poor management practices. Urban sprawl is extending further along the coast, bringing the pressure of high population living in close proximity to and recreating on the edge or in Moreton Bay. For waders, the loss and continued disturbance of roosting areas fringing Moreton Bay by dogs, boats, bikes and general people presence is having a significant detrimental impact on the numbers of waders supported by Moreton Bay.

There is still several months for the government to put in place a conservation management plan for Moreton Bay before the 1996 Ramsar meeting. We

10. 3, April 1995

The Tattler

3

rugged-up, with long pants, beanies and jumpers. But we soon felt at home lugging keeping cages and dragging cannons back to the trailer.

It was great to visit the RAOU Head Office and we thank everyone there for making us welcome. The new meeting room was put to the test when Danny Rogers and Mike Weston entertained us with their superb Siberian slides and fascinating talk. Another benefit of our trip was the placing of 70% of the AWSG North-West banding data on our computer by Mark Barter. With answers at our fingertips, we now feel more in control of our shorebird banding project.

| WADERS                | New  | Retrap | Total |
|-----------------------|------|--------|-------|
| Masked Lapwing        | 6    | 0      | 6     |
| Lesser Sand Plover    | 5    | 5      | 10    |
| Greater Sand Plover   | 112  | 40     | 152   |
| Red-capped Plover     | 34   | 1      | 35    |
| Black-front. Dotterel | 3    | 0      | 3     |
| Black-winged Stilt    | 21   | 1      | 22    |
| Red-necked Avocet     | 1    | 0      | 1     |
| Ruddy Turnstone       | 14   | 9      | 23    |
| Eastern Curlew        | 1    | 0      | 1     |
| Little Curlew         | 2    | 0      | 2     |
| Wood Sandpiper        | 1    | 0      | 1     |
| Grey-tailed Tattler   | 16   | 14     | 30    |
| Common Sandpiper      | 2    | 0      | 2     |
| Marsh Sandpiper       | 1    | 0      | 1     |
| Terek Sandpiper       | 14   | 2      | 16    |
| Asian Dowitcher       | 2    | 0      | 2     |
| Black-tailed Godwit   | 9    | 0      | 9     |
| Bar-tailed Godwit     | 195  | 31     | 226   |
| Red Knot              | 99   | 12     | 111   |
| Great Knot            | 192  | 15     | 207   |
| Sharp-tailed S'piper  | 12   | 0      | 12    |
| Little Stint          | 1    | 0      | 1     |
| Red-necked Stint      | 492  | 107    | 599   |
| Long-toed Stint       | 3    | 0      | 3     |
| Curlew Sandpiper      | 129  | 18     | 147   |
| Broad-billed S'piper  | 4    | 0      | 4     |
| TOTALS                | 1371 | 255    | 1626  |

GULLS & TERNS

|                  |    |   |    |
|------------------|----|---|----|
| Little Tern      | 18 | 0 | 18 |
| Whiskered Tern   | 2  | 0 | 2  |
| Caspian Tern     | 1  | 0 | 1  |
| Gull-billed Tern | 6  | 0 | 6  |
| Silver Gull      | 18 | 0 | 18 |
| TOTALS           | 45 | 0 | 45 |

These figures exclude banding carried out by the AWSG NW Expedition earlier in the year.

TRAVELLING CANNON-NETS - Clive Minton

Clive Minton was invited to take part in an international team which visited Tierra del Fuego for two weeks in February this year. This southern province of Argentina is the most southerly non-breeding area for northern hemisphere migrant waders in the world (55 deg. south, which is the same as Macquarie Island).

Seventeen thousand waders were found in the Rio Grande area (10,000 White-rumped Sandpiper, 3000 Red Knot, 3000 Magellanic Oystercatcher) and 50,000 in Bahia San Sebastian (30,000 White-rumped Sandpiper, 20,000 Hudsonian Godwit).

Several cannon-net catches were made including one of 850 Red Knot. Five of these already carried bands and colour bands/flags from Brazil and two from USA/Canada.

Extensive food and feeding rate observations were also made on Red Knot (Theunis Piersma, head of the International Wader Study Group, is the world expert on Red Knot). DNA samples were collected extensively by Prof. Allan Baker and his team from Toronto Museum/University (They financed the expedition).

By far the greatest problem was the transport, as excess airline baggage, of a full sized cannon-net set, plus keeping cages, electric fuses, firing boxes etc from Melbourne to Tierra del Fuego (and back!) ✓

BANDED STILTS QUICK OFF THE MARK - Clive Minton, Grant Pearson & Jim Lane.

Clive Minton, Grant Pearson at CALM, and the ABC Film Unit have been "at the ready" for several years to move into action as soon as a rain event occurred which was likely to lead to a Banded Stilt nesting event. No one has ever previously filmed a Banded Stilt nesting event from wo to go.

Cyclone "Bobby" dumped 385mm (15.5 inches) of rain in the saltmarshes area of The Goldfields region of southern central WA in four days of continuous rain over 25-28 February.

Marj Reni (VWSG), Grant and Clive did a 4.5 hour aerial survey from Kalgoorlie on 12 March. They covered lakes Marmion, Barlee and Ballard - all previously known Banded Stilt nesting sites, about 150 to 200 km north or north-west of Kalgoorlie. All of the lakes were full and looked perfect nesting sites with hundreds of small islands. Marmion had no birds, Barlee had 20,000 - all seemingly paired - but no sign of a nesting colony. Ballard had 10,000 and half of these were at a colony which already appeared to have around 2000 nests. This was only the 16th day after the rain commenced and 12 days after the rain stopped. Subsequent information indicated that the first eggs must have been laid around 8th March - 12 days from the start of the rain. During this time the birds had to recognise the rain event had occurred, migrate possibly 1000 km from coastal areas of WA, pair, mate, select a site and produce eggs.

We set up a full scale research program and visited for 9hrs by helicopter on 15th March. By then the colony had grown to 4500 nests. We pegged and photographed about half the area and marked the eggs in several hundred nests (for incubation period, clutch size, hatching success determination

96  
101.

**Australian Bird Study Association Inc. – Mist Net Service' (NSW) 'Stock Price List – Effective from 1<sup>st</sup> April 1995'. Inter alia lists 'Banding Pliers', 'Colour bands', 'Single-colour bands' and Multi-coloured bands'. Also lists 'Computer Program 'Sheba' – Ken Roger's program for sexing birds on measurement' [not used by JL *et al.* for BaSt work].**



**AUSTRALIAN BIRD STUDY ASSOCIATION Inc.**  
**- MIST NET SERVICE -**

**ABSA (MNS)**  
**30 CURRINGA ROAD,**  
**KARIONG NSW 2250**  
**AUSTRALIA**  
**Phone & Fax: 043 404 033**

**STOCK PRICE LIST - Effective from 1st April, 1995**

|                                                                                                                                                                                  |                                                                                                                                                                                                                                      |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mist Nets:</b><br>(see note below)                                                                                                                                            | 25mm (1") x 12m (40') - \$57<br>38mm (1 1/2") x 12m (40') - \$52<br>38mm (1 1/2") x 18m (60') - \$63<br>63mm (2 3/8") x 12m (40') - \$52                                                                                             | 31mm (1 1/4") x 6m (20') - \$39<br>31mm (1 1/4") x 9m (30') - \$45<br>31mm (1 1/4") x 12m (40') - \$55<br>31mm (1 1/4") x 18m (60') - \$72 |
| <b>Bulk netting ( 25mm, 31mm, 38mm and 63mm mesh ) - \$1.75 / metre</b><br><b>Repair thread &amp; Shelf string - \$10 /roll; Netting needle - \$2; Shelf Loops - \$0.20 each</b> |                                                                                                                                                                                                                                      |                                                                                                                                            |
| <b>Pesola Scales:</b>                                                                                                                                                            | 5g x 0.05 divisions - \$118; 5g x 0.1 divisions - \$108;<br>10g, 50g, 100g, 300g, 500g, 1000g, 1500g, 2000g & 2500g - \$108 each;<br>3kg - \$118; 5kg - \$140; 10kg - \$165;<br>Spare Clips - \$2.50 each; Spare Hooks - \$2.50 each |                                                                                                                                            |
| <b>Salter Scales:</b>                                                                                                                                                            | 50g, 100g & 200g - \$49 each; 1kg - \$54; 5kg - \$61; 10kg - \$70; 20kg - \$80                                                                                                                                                       |                                                                                                                                            |
| <b>Calipers:</b>                                                                                                                                                                 | Plastic dial vernier calipers - \$45                                                                                                                                                                                                 |                                                                                                                                            |
| <b>Rulers:</b>                                                                                                                                                                   | Butt-ended 30cm rulers (for measuring wing length) - \$18.50                                                                                                                                                                         |                                                                                                                                            |
| <b>Banding Pliers:</b>                                                                                                                                                           | Large and small sizes ( ABBBS type ) - \$36.50 each<br>Bent Needle-nose Mini-Pliers (used to help remove closed bands) - \$15.50                                                                                                     |                                                                                                                                            |
| <b>Colour Bands:</b>                                                                                                                                                             | Colour bands of sizes up to metal size 8 are available only in multiples of 10 of each colour.<br>Sizes 9 to 15 are available as single bands. Price per 100 <u>single-colour</u> bands:-                                            |                                                                                                                                            |
|                                                                                                                                                                                  | Sizes 1 to 4 - \$20; Sizes 5 & 6 - \$22; Sizes 7 & 8 - \$24; Sizes 9 & 10 - \$27;<br>Sizes 11 & 12 - \$30; Size 13 & 14 - \$33; Size 15 - \$36                                                                                       |                                                                                                                                            |
| <b>Multi-coloured bands - See the back of this price list</b>                                                                                                                    |                                                                                                                                                                                                                                      |                                                                                                                                            |
| <b>Field Data Cards:</b>                                                                                                                                                         | Available only in packs of 1000 cards - \$28                                                                                                                                                                                         |                                                                                                                                            |
| <b>Bird Holding Bags:</b>                                                                                                                                                        | 20cm x 30cm calico bags with side tie - \$1.30 each                                                                                                                                                                                  |                                                                                                                                            |
| <b>Computer Program 'Sheba':</b>                                                                                                                                                 | Ken Rogers' program for sexing birds on measurements. Only available to run in IBM DOS and supplied only on 3 1/2" DS/DD disk - \$15 (including P & P).                                                                              |                                                                                                                                            |

**Variation to Prices:** The Association attempts to maintain stable prices, but reserves the right to vary prices without notice. Import costs vary as a consequence of fluctuations in exchange rates and increases in manufacturer's wholesale prices.

**Postage & Packaging and Courier Services:** Postage and packaging costs are not included in the above prices, except for computer disks. Orders valued over \$120 will be posted by Certified Mail. Courier services can be arranged at the purchaser's cost.

**Discount:** A discount of 10% will be allowed for orders placed by private financial members of the Australian Bird Study Association Inc. for all stock items except field data cards, bird holding bags and computer disks.

**Orders for Mist Nets:** Orders for mist nets must include the Australian Bird and Bat Banding Schemes' (ABBBS) Authority number of the purchaser and a signed and dated certification that the nets will be used for research purposes only. In the case of orders placed by government departments and institutions, the Authority number of the principal researcher will be required together with the above mentioned certification. Orders for mist nets will not be accepted over the telephone.

**Payment:** Please do not send payment with orders. Invoices will be issued after despatch of goods and will include actual postage and packaging costs. Terms of payment are 30 days nett.

**AUSTRALIAN BIRD STUDY ASSOCIATION Inc.**  
**- MIST NET SERVICE -**

**COLOUR BANDS**

**Colour bands are available in the following sizes:**

| ABBBS<br>size | Manufacturer's<br>size code | Internal<br>Diameter (mm) | ABBBS<br>size | Manufacturer's<br>size code | Internal<br>Diameter (mm) |
|---------------|-----------------------------|---------------------------|---------------|-----------------------------|---------------------------|
| 1 & 2         | XF                          | 2.3                       | 9             | 3FB                         | 8.0                       |
| 3             | XCS                         | 2.8                       | 10 & 20       | 4FB                         | 9.5                       |
| 4             | XCL                         | 3.3                       | 11 & 21       | 5FB                         | 11.0                      |
| 5 & 23        | XB                          | 4.0                       | 12, 22 & 27   | 6FB                         | 14.0                      |
| 6             | X3                          | 4.5                       | 13            | 8FB                         | 16.0                      |
| 7 & 24        | 1FB                         | 5.5                       | 14 & 28       | 9FB                         | 20.0                      |
| 8 & 25        | 2FB                         | 6.5                       | 15            | 10FB                        | 22.0                      |

Sizes 1 to 6 are available as split bands only and applicators are supplied at no extra cost for ease of attachment.  
 Sizes 7 to 15 are available in coil form only.

**Single-colour bands are available in the following materials and colours:**

|               |   |                    |   |                                                                                                                  |
|---------------|---|--------------------|---|------------------------------------------------------------------------------------------------------------------|
| Sizes 1 to 4  | - | Celluloid material | - | red, orange, yellow, light green, dark green, light blue, dark blue, black, white, mauve, light pink, dark pink. |
| Sizes 5 to 15 | - | Celluloid material | - | mauve                                                                                                            |
|               | - | Darvic material    | - | red, orange, yellow, light green, dark green, light blue, dark blue, black, white, grey, brown                   |

**Multi-coloured bands (two colours per band) are available in sizes 1 to 8 only:**

Multi-coloured bands are available in two different types as described below. Because of their high cost and relatively infrequent demand, stocks are not generally held by the Mist Net Service. Stock is purchased from the UK manufacturer to fill a specific order to the MNS. Orders must be for at least 10 of each colour combination in each size. Delivery can take up to two months from placement of order. The price of multi-coloured bands is between two and three times that of single-colour bands of the same size.

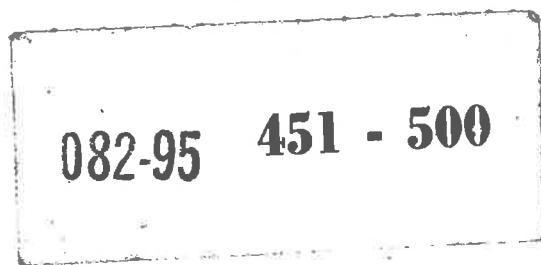
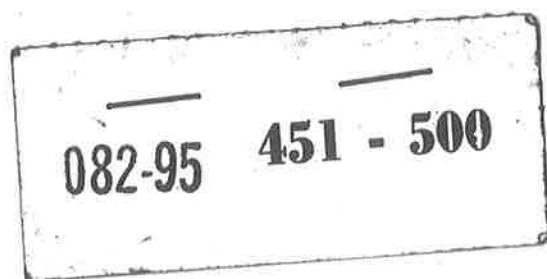
**Narrow striped bands (eg. white/black/white/black) are available in the following colour combinations only -**

|                  |                      |                   |                        |
|------------------|----------------------|-------------------|------------------------|
| white/black      | dark blue/white      | black/light pink  | light green/dark green |
| white/red        | dark blue/yellow     | black/light green | light green/light pink |
| white/dark green | dark blue/light pink |                   |                        |

**Broad striped bands (eg. top half white, bottom half black) are available in the following combinations -**

|                   |                        |                       |                       |
|-------------------|------------------------|-----------------------|-----------------------|
| red/white         | yellow/light green     | light green/brown     | orange/red            |
| red/yellow        | yellow/light blue      | light blue/dark blue  | orange/brown          |
| red/light green   | yellow/dark blue       | light blue/orange     | mauve/dark pink       |
| red/light blue    | yellow/orange          | light blue/mauve      | mauve/black           |
| red/dark blue     | yellow/mauve           | light blue/light pink | mauve/dark green      |
| red/mauve         | yellow/dark pink       | light blue/dark green | dark pink/light pink  |
| red/light pink    | yellow/light pink      | light blue/dark pink  | dark pink/black       |
| red/dark green    | yellow/black           | dark blue/orange      | dark pink/dark green  |
| red/cream         | yellow/dark green      | dark blue/mauve       | light pink/black      |
| white/light green | light green/light blue | dark blue/dark pink   | light pink/dark green |
| white/light blue  | light green/dark blue  | dark blue/light pink  | light pink/mauve      |
| white/dark blue   | light green/orange     | dark blue/black       | black/dark green      |
| white/mauve       | light green/mauve      | dark blue/dark green  | black/orange          |
| white/dark pink   | light green/dark pink  | orange/mauve          | black/red             |
| white/black       | light green/light pink | orange/dark pink      | black/light blue      |
| white/dark green  | light green/dark green | orange/dark green     |                       |

Photocopy of a single label that would have accompanied 50 leg-bands numbered 082-95451 to 082-95500'. These were the last 50 of 490 leg-bands [(082) 95011-95500] supplied to GBP by ABBBS on 23/03/1995 (see below). Look to see if we (JL/ACI) still hold any BaSt (i.e. size 8) leg bands (if so, what numbers?) and/or yellow leg flags and glue (trade name of glue?). [JL did so in Feb 2014 and did not find any leftover size 8 bands or any leg flags.



A supply/receipt of bands form (23/03/1995) that accompanied leg-bands issued to GBP by ABBBS on 23/03/1995. GBP signed acknowledgement of receipt of these bands – and that the band numbers were as indicated on the form – on 10/04/1995. The form indicates that 490 size '08' leg-bands were issued, with 'Prefix 082' and 'Serial Numbers 95011 to 95500'. Thus 490 leg-bands were issued on this date. This form also indicates that the bands were made of 'Metal SS'. Note that 'incoloy' is a type of stainless steel, so 'SS' is not inconsistent with the supplied bands being made of incoloy. See 16/05/1995, above, for more info re incoloy.

47  
Australian Bird and Bat Banding Schemes  
P.O. Box 8, Canberra, ACT, 2601

RECEIPT OF BANDS ISSUED TO:  
=====

MR GB PEARSON  
WILDLIFE RES CENTRE  
PO BOX 51  
WANNEROO WA 6065

Authority no : 831      Date bands issued : 23/03/95

Please find enclosed the band supplies you recently requested. You should check these bands against the computer listing given below to ensure that no errors have been made by the Banding Office Staff. Note any errors on the sheet and return it to the Banding Office as soon as possible. Even if the bands supplied and the listing correspond, this should be signed and returned to acknowledge the receipt of the bands. The number of bands supplied may be adjusted subject to the availability and normal string length of the size required.

| SIZE | METAL | QUANTITY | PREFIX | SERIAL NUMBERS | CORRECT |
|------|-------|----------|--------|----------------|---------|
| 08   | SS    | 490      | 082    | 95011 to 95500 |         |

I acknowledge receipt of the bands listed above.

  
\_\_\_\_\_  
Signature

10/4/95  
Date

**Undated ABBBS 'Requisition for Banding Supplies' form in which GBP requests 500 size 8 , 'metal SS' leg bands be issued to him ('A' Class Authority No. 831). 490 bands were issued on 23/03/1995 (see above) in response to this request.**



**AUSTRALIAN BIRD AND BAT BANDING SCHEMES**  
G.P.O. Box 8 Canberra, A.C.T. 2601  
Phone (062) **500321**  
FAX (06) 2500314  
**REQUISITION FOR BANDING SUPPLIES**

From: GRANT PEARSON  
90 Box 57  
WILMINGTON

Please list your requirements in the spaces provided. It is important to state the number of bands in hand for each size ordered so that we can anticipate your future requirements. When the supplies are sent to you, a receipt will be enclosed together with an unused form for your future use. PLEASE CHECK THE SIZE, METAL, PREFIX AND SERIAL NUMBERS OF THE BANDS BEFORE SIGNING THE RECEIPT AND RETURNING IT TO THE BANDING OFFICE. ANY DISCREPANCY BETWEEN THE ITEMS LISTED AND THOSE RECEIVED SHOULD BE NOTED ON THE FORM. Please consult the List of Approved Band Sizes or the recommended band size and metal for each species. Use the following abbreviations to denote the respective metals: S — Stainless steel; AM — Aluminium; AY — Alloy; ML — Monel and IN — Incoloy.

## BANDS

## **BANDING PLIERS**

|              | REQUESTED | DESPATCHED |              | REQUESTED | DESPATCHED |
|--------------|-----------|------------|--------------|-----------|------------|
| Small pliers | 2         |            | Large pliers |           |            |

## LITERATURE AND FORMS

| TITLE                                                | REQ'D | TITLE                                                  | REQ'D |
|------------------------------------------------------|-------|--------------------------------------------------------|-------|
| Bird Bander's Manual                                 |       | Data Sheets — Type I — Standard: Bird Banding          |       |
| Bird Bander's Manual: Current Version Ch.            |       | Data Sheets — Type II — Colour Banding: Birds          |       |
| Bat Bander's Manual *                                |       | Data Sheets — Type III — Additional Information: Birds |       |
| Bat Bander's Manual: Current Version Ch. *           |       | Data Sheets — Type I — Bat Banding                     |       |
| List of Approved Band Sizes: Australia: Alphabetical |       | Banders Diary Sheets                                   |       |
| List of Approved Band Sizes: Australia: Taxonomic    |       |                                                        |       |
| List of Approved Band Sizes: PNG                     |       | Plumage Description Form                               |       |
| Initial Enrolment Forms                              |       | Moult Recording Data Sheets                            |       |
| Upgrading of Authority Forms                         |       | Access to Banding Data Form                            |       |
| New Projects Form                                    |       | Publicity Brochure                                     |       |
| Location Code Registration Form                      |       | Mistnets: Information and Prices                       |       |
| This Form                                            |       | Colour Bands: Information and Prices                   |       |
| Transfer of Banding Supplies Form                    |       | Application to Colour Mark Form                        |       |
| Trial of Band Size Form                              |       |                                                        |       |
| Data Sheets Despatch/Acknowledgement Form            |       |                                                        |       |

\* = not currently available

OFFICE USE ONLY

Letter (23/03/1995) from ABBBS to GBP headed 'Approval to Undertake Colour Marking' giving approval to attach yellow leg flags to left tibia of 500 'juvenile' Banded Stilt of '1995+ cohort' in the 'Region' of 'Western Australia'.

This letter also approved individually marking 50 adult BaSt with 'master colour over metal' on left tibia and '1 colour' on right tibia in 1995+ in the 'Region' of 'Western Australia'. JL's recollection (30/01/2014) is that no adults were banded, flagged or otherwise marked during the 1995 work on Lakes Ballard and Marmion, but maybe CDTM managed to catch and mark a few. Confirm that no adult BaSt were marked by CDTM at Lake Ballard in 1995 (they had hoped to be able to capture some on nests and individually mark them).

AUSTRALIAN BIRD AND BAT BANDING SCHEMES  
GPO Box 8  
Canberra ACT 2601  
Telephone (06) 2500321 Facsimile (06) 2500314



Canberra Office  
GPO Box 636  
Canberra ACT 2601  
Ph (06) 250 0200  
Fax (06) 250 0399

MR GB PEARSON  
WILDLIFE RES CENTRE  
PO BOX 51  
WANNEROO WA 6065

Authority no : 831

23-MAR-95

Dear Grant

APPROVAL TO UNDERTAKE COLOUR MARKING

I am pleased to advise that your recent application to use a new or revised colour marking technique has been approved. Details of all colour marking schemas now registered for the relevant project are given below. Please check the details to ensure that they are correct.

In undertaking any banding or colour marking you are required to comply with the fauna laws pertaining to the capture and handling of birds or bats in the relevant State or Territory. Only the species and numbers indicated below are to be colour marked in the manner described.

You are required to conduct all colour marking in accordance with the instructions issued by the ABBBS.

PROJECT: 1 Study of Banded Stilt breeding biology

SPECIES: Banded Stilt REGION: WESTERN AUSTRALIA PLACES:  
METHOD: COLOUR BANDS SCHEMA: 29 LEFT TIBIA: MASTER COLOUR OVER METAL, RIGHT TIBIA: 1 COLOUR  
MASTER: ALL NO. APPROV: 50 DETAILS: 1995+ Individual marking: Adults

SPECIES: Banded Stilt REGION: WESTERN AUSTRALIA PLACES:  
METHOD: LEG FLAG SCHEMA: NA NOT APPLICABLE  
MASTER: YELLOW NO. APPROV: 500 DETAILS: 1995+ Cohort marking, juveniles, yellow flag on left tibia

Yours sincerely

E. B. Dettmann

Belinda Dettmann  
Senior Project Officer

Letter (23/03/1995) from ABBBS to GBP ('Authority No. 831') headed 'Approval of New Project' advising that '... your recent application for a new ABBBS project has been approved'. The project is described as 'Study of Banded Stilt breeding biology' in 'Region: Western Australia', 'Locality L. Ballard', 'Locodes: 0831B1' with 'Start Date: 22/03/1995', 'End Date: 30/06/1995' and 'Collaborators' blank. Compare with the Applications and Locode Registration below (21/03/1995), where JL was named as Project Supervisor and CDTM as Collaborator and Lake Ballard was to be registered as number '0593B1'.

AUSTRALIAN BIRD AND BAT BANDING SCHEMES  
GPO Box 8  
Canberra ACT 2601  
Telephone (06) 2500321 Facsimile (06) 2500314



Canberra Office  
GPO Box 636  
Canberra ACT 2601  
Ph (06) 250 0200  
Fax (06) 250 0399

MR GB PEARSON  
WILDLIFE RES CENTRE  
PO BOX 51  
WANNEROO WA 6065

Authority no : 831

23-MAR-95

Dear Grant

APPROVAL OF NEW PROJECT

I am pleased to advise that your recent application for a new ABBBS project has been approved. Details of this project are given below. Please check the details to ensure they are correct.

The Banding Office now issues bands for individual projects. I enclose a pink band supply form on which you can request supplies of suitable bands if you do not have these already.

I also enclose copies of locode registration sheets for your new project.

PROJECT DETAILS

---

PROJECT: 1 Study of Banded Stilt breeding biology  
SPECIES GROUP: RECURVIROSTRIDAE SPECIES: Banded Stilt ,  
REGION: WESTERN AUSTRALIA , LOCALITY: L BALLARD LOCODES: 0831B1 ,  
START DATE: 22/03/95 END DATE: 30/06/95  
GOALS: ECOLOGY ,  
HABITAT: INLAND WATERS ,  
COLLABORATORS:

---

Regards

E. B. Dettmann

Belinda Dettmann  
Senior Project Officer

**Fax (21/03/1995) from GBP to Barry Baker at ABBBS.** Cover sheet reads 'Some details on objectives not included. Jim Lane to advise' and 'Bands required: 500 size 8. Could you direct to CALM Kalgoorlie please'. Two 'Applications' and a 'Locode Registration Sheet' were attached.

Note that the 'Application for a Colour Marking Authority' clearly indicated that it was prepared by GBP on behalf of JAK Lane (an 'A' Class bander with ABBBS Authority No. 0593). The Locode for Lake Ballard was indicated by GBP to be 0593B1 and 'Signature of Applicant' was 'G Pearson for Jim Lane'.

Note also that the 'Project Proposal Application Form' specified 'Jim Lane, Authority No.593' as 'Project Supervisor' and 'Collaborators' as 'Clive Minton'. 'Signature of Applicant' was 'GB Pearson for Jim Lane'. The 'colour banding schema' to be used on BaSt adults was described in this application as 'Colour combinations [unspecified] for adults'.

The 'Locode Registration Sheet', dated 21/03/1995, specified 'JAK Lane, Auth. No.0593' as the 'A' Class Bander and requested registration of 'Locode: 0593B1' (the other details were 'Code Name: Ballard 1', 'Location: Lake Ballard WA' and coordinates '29 degrees 27 minutes South Latitude and 121 degrees 01 minutes East Longitude'). See attached Google Earth image (downloaded 31/01/2014 by JL) showing location with these coordinates. The coordinates are not as accurate as they could be, though it's only a matter of 1-2 minutes of Lat and Long.

**Was a Locode subsequently registered for Lake Marmion? If so, what was it? (note that banding was not envisaged there initially).**

DEPARTMENT OF  
CONSERVATION AND LAND MANAGEMENT  
SCIENCE & INFORMATION DIVISION  
WILDLIFE RESEARCH CENTRE, WOODVALE  
FAX NO (09) 306 1641 TELEPHONE NO (09) 405 5100



Date: 24/3/95

To: Barry Baker

At: ABS

From: Great Tasman

No of Pages: 6

(including face sheet)

Message: Some details on objectives not included

Join force to advise

→ Bonds required 500 size 8. Carib

You send draft to CHCM Heyselie

Please: Many thanks

Great Tas

**Australian Bird and Bat Banding Schemes**  
**Nature Conservation House**  
**153 Emu Bank BELCONNEN ACT**

GPO Box 8  
CANBERRA ACT 2601  
Telephone (06) 2500321 Facsimile (06) 2500314  
Ref:master:cmaapp



## APPLICATION FOR A COLOUR MARKING AUTHORITY

Bander JAK LANE Authority No. 0593  
(NB. must be the 'A' class bander in charge of the Project)

(Please give complete details as requested below. Do NOT put "all encountered" or similar. You must list all species and give approximate numbers of each species to be colour marked for this application to be considered)

| Species     | Species Number | Number to be marked |
|-------------|----------------|---------------------|
| BANDED 8411 | 147            | 500                 |
|             |                |                     |
|             |                |                     |
|             |                |                     |
|             |                |                     |
|             |                |                     |
|             |                |                     |
|             |                |                     |

What colour marking method do you propose to use?

Colour banding ( ) ✓ ( )  
Plumage/Fur Dyeing ( ) ( )  
Patagial Tagging ( ) ( )  
Other (specify) \_\_\_\_\_

What are your reasons for wishing to undertake this colour marking program (eg. to recognise individual birds/bats, to recognise birds/bats from a particular colony, etc.) ?

To monitor dispersal and movements of young

To study pairing and nesting behavior of adults

At what location(s) do you propose to conduct this colour marking study ?

(Please provide the Location Code(s) if the site is already registered with the Banding Schemes ; if not, use the attached sheet to register the Locode)

Locode 059381 Location Checkcode Lake Bellard  
Locode \_\_\_\_\_ Location Checkcode \_\_\_\_\_  
Locode \_\_\_\_\_ Location Checkcode \_\_\_\_\_  
\_\_\_\_\_

How long do you intend to continue the study and how frequently will you be attempting to observe the colour marked birds/bats ?

Duration of nesting activities observed daily for periods of up to 10 days

Are you colour blind ?

Yes ( )

No (  )

If so, which colours do you have difficulty discriminating ?  
\_\_\_\_\_

Are there any reasons why a particular colour should be excluded from your colour marking schema ? (eg the bird's leg colour or the colour the habitat favoured by the species)

No

#### FOR COLOUR BANDERS ONLY

Do you have a preference for a colour banding schema ? If so please give details after considering the standard schemas available and the movement habits of the species involved. (see Banders Manual chapter 15).

Yellow tibia band - Derwick for Juveniles

Color combinations for adults

Signature of applicant

Clayton J. Jim Lane

21/3/95

## AUSTRALIAN BIRD AND BAT BANDING SCHEME

GPO Box 8  
Canberra ACT 2601  
Telephone (06) 2500321 Facsimile (06) 2500399

## PROJECT PROPOSAL APPLICATION FORM

1.

Project Title..... Banded Stilt.....

Project Supervisor..... Tim. Lane..... Authority No. 0593

Collaborators..... Cline Minton..... Authority No. ....  
..... Authority No. ....

2. Background (Reasons why you want to band the birds specified in this project?)

Significant lack of data on breeding biology.

3. Aims/Objectives (What do you expect to achieve from this project?)

- Attach separate sheets if necessary

## 4. Methods (How do you intend to achieve the aims/objectives stated above?)

Observations, photography  
Color marking  
Banding

Estimated Number of Birds to be Banded.....10.....100.....500.....1000....>1000

## 5. Study Site

Lake Balford

\* Location code details should be provided on location registration sheets.

## 6. Expected Commencement and Completion Date

March 95 June 95

Signature of Applicant Chowan Jr. Date 21/3/95

It is done

For office use only:

Project Title:..... Project No:.....

Species Group ID:.....

Approval:.....

## LOCODE REGISTRATION SHEET

This copy to be submitted  
to the banding office

Project Title.....

Authority Number..... Project No \*\* .....

\*\* If already allocated.

LOCODE:..... CODE NAME:..... (UP TO 10 CHARACTERS)

LOCATION:..... (UP TO 40 CHARACTERS)

STATE:.....

LATITUDES: N S DEGREES..... MINUTES..... SECONDS.....

LONGITUD: E W DEGREES..... MINUTES..... SECONDS.....

ELEVATION:.....(m) ABOVE SEA LEVEL SPATIAL RESOLUTION \* .....

LOCODE:..... CODE NAME:..... (UP TO 10 CHARACTERS)

LOCATION:..... (UP TO 40 CHARACTERS)

STATE:.....

LATITUDES: N S DEGREES..... MINUTES..... SECONDS.....

LONGITUD: E W DEGREES..... MINUTES..... SECONDS.....

ELEVATION:.....(m) ABOVE SEA LEVEL SPATIAL RESOLUTION \* .....

LOCODE:..... CODE NAME:..... (UP TO 10 CHARACTERS)

LOCATION:..... (UP TO 40 CHARACTERS)

STATE:.....

LATITUDES: N S DEGREES..... MINUTES..... SECONDS.....

LONGITUD: E W DEGREES..... MINUTES..... SECONDS.....

ELEVATION:.....(m) ABOVE SEA LEVEL SPATIAL RESOLUTION \* .....

\* Area within which the study will operate (specify ha or km)

**LOCODE REGISTRATION SHEET**

This copy to be retained by  
bander for personal records

**Project  
Title**.....

**Authority Number**..... **Project No** \*\* .....

\*\* If already allocated.

**LOCODE**:..... **CODE NAME**:.....(UP TO 10 CHARACTERS)

**LOCATION**:.....(UP TO 40 CHARACTERS)

**STATE**:.....

**LATITUDES**: N S DEGREES..... MINUTES..... SECONDS.....

**LONGITUD**E: E W DEGREES..... MINUTES..... SECONDS.....

**ELEVATION**:.....(m) ABOVE SEA LEVEL **SPATIAL RESOLUTION** \* .....

**LOCODE**:..... **CODE NAME**:.....(UP TO 10 CHARACTERS)

**LOCATION**:.....(UP TO 40 CHARACTERS)

**STATE**:.....

**LATITUDES**: N S DEGREES..... MINUTES..... SECONDS.....

**LONGITUD**E: E W DEGREES..... MINUTES..... SECONDS.....

**ELEVATION**:.....(m) ABOVE SEA LEVEL **SPATIAL RESOLUTION** \* .....

**LOCODE**:..... **CODE NAME**:.....(UP TO 10 CHARACTERS)

**LOCATION**:.....(UP TO 40 CHARACTERS)

**STATE**:.....

**LATITUDES**: N S DEGREES..... MINUTES..... SECONDS.....

**LONGITUD**E: E W DEGREES..... MINUTES..... SECONDS.....

**ELEVATION**:.....(m) ABOVE SEA LEVEL **SPATIAL RESOLUTION** \* .....



## AUSTRALIAN BIRD & BAT BANDING SCHEMES

### LOCODE REGISTRATION SHEET

#### A CLASS BANDER'S DETAILS:

Name: JAK LAND Auth No. 0593  
Address DEPT CALM Po Box 51  
WANNAEROO  
State WA Postcode 6065

Date: 21/3/95

LOCODE: 059381 CODE NAME: Ballard 1 (Up to 10 characters)

LOCATION: Lake Ballard WA (Up to 40 chars.)

STATE: WA

LATITUDE: N S DEGREES 29 MINUTES 27 SECONDS 00

LONGITUDE: E W DEGREES 101 MINUTES 01 SECONDS 00

ELEVATION: \_\_\_\_\_ METRES ABOVE SEA LEVEL

LOCODE: \_\_\_\_\_ CODE NAME: \_\_\_\_\_ (Up to 10 characters)

LOCATION: \_\_\_\_\_ (Up to 40 chars.)

STATE: \_\_\_\_\_

LATITUDE: N S DEGREES \_\_\_\_\_ MINUTES \_\_\_\_\_ SECONDS \_\_\_\_\_

LONGITUDE: E W DEGREES \_\_\_\_\_ MINUTES \_\_\_\_\_ SECONDS \_\_\_\_\_

ELEVATION: \_\_\_\_\_ METRES ABOVE SEA LEVEL

LOCODE: \_\_\_\_\_ CODE NAME: \_\_\_\_\_ (Up to 10 characters)

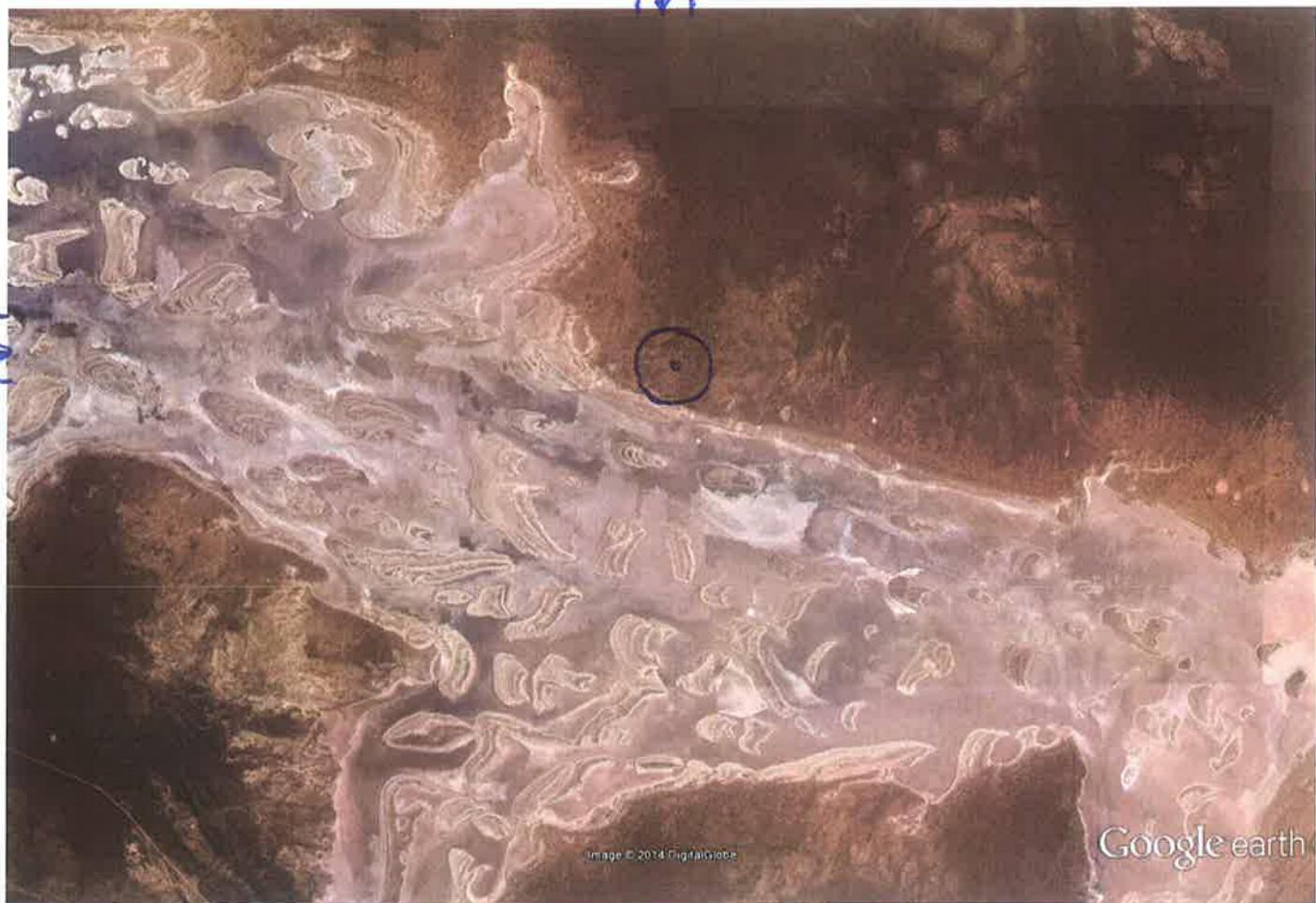
LOCATION: \_\_\_\_\_ (Up to 40 chars.)

STATE: \_\_\_\_\_

LATITUDE: N S DEGREES \_\_\_\_\_ MINUTES \_\_\_\_\_ SECONDS \_\_\_\_\_

LONGITUDE: E W DEGREES \_\_\_\_\_ MINUTES \_\_\_\_\_ SECONDS \_\_\_\_\_

ELEVATION: \_\_\_\_\_ METRES ABOVE SEA LEVEL



Google earth

miles  
km

Image © 2014 DigitalGlobe

Google earth

10



Google Earth image downloaded  
on 31/01/2014 with position of  
 $29^{\circ} 27' S$ , ~~121~~  $121^{\circ} 01' E$

marked on it.

31/01/2014

Note that these woodmades do not  
accurately indicate location of  
Best breeding colonies or chick bending  
locations on Little Bellard in 1995.

\*\*\*\*\*  
\*\*\* ERROR TX REPORT \*\*\*  
\*\*\*\*\*

TX FUNCTION WAS NOT COMPLETED

TX/RX NO. 1002

CONNECTION TEL

062500321

CONNECTION ID

START TIME

21/03 09:49

USAGE TIME

00'00

PAGES

0

RESULT

NG 0 #018

062500314

FAX NO

**Fax (20/03/1995; cover sheet and page 2 only) from JL to GBP that lists equipment for use at Lake Ballard.**

The list under 'Banding' indicates that JL wanted '20 leg bands of each colour' for 'This trip if possible' and 500 yellow leg flags' 'certainly for next trip'. GBP has marked both with 'Y' for 'yes'. The 'leg bands of each colour' were intended for use in individually colour-marking nesting BaSt adults (see fax of 21/03/1995, above). The 'yellow leg flags' were for flagging BaSt chicks. Other banding/flagging items listed are 'Pliers', 'Band removers' and 'Banding box.'

The list under 'Hide' includes 'Chicken netting trap', 'Fence wire', 'Fishing line' and 'Steel rods'. All or most of these items would have been intended for use in trapping (alive) individual adult BaSt on nests, for individual colour marking.

DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT  
BESSELTON DISTRICT  
FAX NO: (097) 521 432

36.

TO: GRANT PEARSON URGENT:  YES  NO

AT: WOODVILLE

Fax No.

FROM: JIM L.

DATE: 20/3/95

Your Ref: .....

Local Ref: .....

*As discussed, please have someone (pay if necessary)  
re-latch the gate, angle latching type.*

No. of pages inc. this page: 6

Please call us on (097) 521 677 if this message was incomplete or illegible

**FAXED**

2

## Communication

- Y HF Radio
- ? VHF portable radio
- Y aerial wire
- Y Batteries

## Recording

- Y Tape recorder
- Y Batteries AA, 9 volt
- Y Tapes

## SURVEY EQUIPMENT

## HIDE

- Y 1.8m pegs
- Y Hessian
- Y hammer
- Y Tie wire
- Y Knee pads
- Y Chicken netting trap
- Y Fence wire
- ? Fishing line
- ? Steel rods

## Banding

- Y 20 leg bands of each color ← This trip if possible
- Y 500 yellow leg bands flags ← certainly for next trip
- Y Pliers
- Y Band removers
- Y Banding box
- ? Binoculars
- Y Telescope
- Y Tripod
- ? Dumpy Level
- ? Staff
- ? Tripod

## Observation/ Survey

- Y Camera, film, lenses, battery
- Y Note book, pens
- Y GPS
- Y Tape recorder, tapes, batteries aa
- Y Maps, local 1:250,000, 1:100,000, Noah

Gas Raffle

Monthly 21/91

**ABBS 'Approved Band Size List' (No.20 – December 1986). First page plus page listing 'Species No. 147 – Banded Stilt – Band Size 08 – Metals SS'. Note that 'incoloy' is a type of stainless steel.**



## AUSTRALIAN BIRD BANDING SCHEME

### APPROVED BAND SIZE LIST

(Number 20 - December 1986)

#### ALPHABETICAL ORDER - COMMON NAMES

Contained in this list are all bird species which have been recorded for Australia with their respective RAOU numbers and band sizes as approved by the Australian Bird Banding Scheme. The list also contains similar details for those species which have been recorded for the Australian island territories; Christmas Island, Cocos-Keeling Islands and Norfolk Island.

This listing gives species in alphabetical order based on their common names. Common names are as given in the 'Recommended English Names for Australian Birds' (Emu 77, Supplement 1978). An alternate list, based on taxonomic order, is also available from the Banding Scheme and can be requested using the standard 'pink' form.

This list provides the approved band sizes for those species where it is believed that adequate testing has taken place to confidently recommend a band size. Where no band size is given in the list, extreme caution should be exhibited in selecting and testing an appropriate sized band. A Trial-of-Band-Size form must be submitted as soon as possible after such a band size trial takes place.

Trial-of-Band-Size forms should also be used when a bander believes a revision of a recommended band size is warranted. Band size trials should not be undertaken (especially with stainless steel bands) unless suitable pliers are available to safely remove unsuitable bands (see Bander's Manual for further information on band size trials).

N.B. At present there is no band available which can be safely used on Gang-Gang Cockatoos. For this reason a MORATORIUM has been placed on the banding of this species.

In cases where there may be variations in tarsus size within local populations, the alternative band size is given in brackets (see for example, Shining Flycatcher and Eastern Curlew). The bracketed size should only be used if the first size proves unsuitable. Great care should be taken when banding these species and if you expect to encounter them be certain to carry with you calipers for measuring the tarsus and appropriate band-opening pliers.

Where tarsus size varies geographically, different band sizes are recommended and indicated with (\*). Further details of these variations in recommended band size are given on the final page of this listing.

AUSTRALIAN BIRD BANDING SCHEME

| SPECIES<br>NO. | COMMON<br>NAME            | SCIENTIFIC<br>NAME                 | BAND<br>SIZE | METALS |
|----------------|---------------------------|------------------------------------|--------------|--------|
| 854            | ABBOTT'S BOOBY            | <i>SULA ABBOTTI</i>                | 12           | SS     |
| 924            | ADELIE PENGUIN            | <i>PYGOSCELIS ADELIAE</i>          | 29           | SS     |
| 351            | ALBERT'S LYREBIRD         | <i>MENURA ALBERTI</i>              | 11           | SS     |
| 279            | ALEXANDRA'S PARROT        | <i>POLYTELIS ALEXANDRAE</i>        |              |        |
| 949            | ANTARCTIC PETREL          | <i>THALASSOICA ANTARCTICA</i>      | 16(09)       | SS     |
| 84             | ANTARCTIC PRION           | <i>PACHYPTILA DESOLATA</i>         | 06           | IN     |
| 985            | ANTARCTIC TERN            | <i>STERNA VITTATA</i>              | 06           | AY     |
| 675            | APOSTLEBIRD               | <i>STRUTHIDEA CINEREA</i>          | 07           | AM     |
| 128            | ARCTIC JAEGER             | <i>STERCORARIUS PARASITICUS</i>    |              |        |
| 952            | ARCTIC TERN               | <i>STERNA PARADISAEA</i>           | 06           | AY     |
| 831            | ARCTIC WARBLER            | <i>PHYLLOSCOPUS BOREALIS</i>       |              |        |
| 939            | ASIAN DOWITCHER           | <i>LIMNOODROMUS SEMIPALMATUS</i>   |              |        |
| 946            | ATHERTON SCRUBWREN        | <i>SERICORNIS KERI</i>             | 01           | AY     |
| 912            | AUDUBON'S SHEARWATER      | <i>PUFFINUS LHERMINIERI</i>        |              |        |
| 197            | AUSTRALASIAN BITTERN      | <i>BOTaurus POICILOPTILUS</i>      | 11           | SS     |
| 104            | AUSTRALASIAN GANNET       | <i>MORUS SERRATOR</i>              | 13           | SS     |
| 61             | AUSTRALASIAN GREBE        | <i>TACHYPTERUS NOVAEHOLLANDIAE</i> | 09           | SS     |
| 212            | AUSTRALASIAN SHOVELER     | <i>ANAS RHYNCHOTIS</i>             | 10           | SS AM  |
| 8              | AUSTRALIAN BRUSH-TURKEY   | <i>ALECTURA LATHAMI</i>            | 13           | SS     |
| 176            | AUSTRALIAN BUSTARD        | <i>ARDEOTIS AUSTRALIS</i>          |              |        |
| 49             | AUSTRALIAN CRAKE          | <i>PORZANA FLUMINEA</i>            | 06           | AY     |
| 496            | AUSTRALIAN FERNWREN       | <i>CRATEROSCELIS GUTTURALIS</i>    | 02           | AY     |
| 235            | AUSTRALIAN HOBSEY         | <i>FALCO LONGIPENNIS</i>           | 08           | SS     |
| 240            | AUSTRALIAN KESTREL        | <i>FALCO CENCHROIDES</i>           | 08           | SS     |
| 281            | AUSTRALIAN KING-PARROT    | <i>ALISTERUS SCAPULARIS</i>        | 25           | SS     |
| 705            | AUSTRALIAN MAGPIE         | <i>GYMNOHIMA TIBICEN</i>           | 09           | SS     |
| 415            | AUSTRALIAN MAGPIE-LARK    | <i>GRALLINA CYANOLEUCA</i>         | 06           | AY     |
| 317            | AUSTRALIAN OWLET-NIGHTJAR | <i>AEGOTHELES CRISTATUS</i>        | 05           | AY     |
| 106            | AUSTRALIAN PELICAN        | <i>PELECANUS CONSPICILLATUS</i>    | 17           | SS AM  |
| 173            | AUSTRALIAN PRATINCOLE     | <i>STILTIA ISABELLA</i>            | 06           | IN     |
| 930            | AUSTRALIAN RAVEN          | <i>CORVUS CORONOIDES</i>           | 10           | SS     |
| 207            | AUSTRALIAN SHELDUCK       | <i>TADorna TADORNOIDES</i>         | 12           | SS AM  |
| 319            | AZURE KINGFISHER          | <i>CEYX AZUREA</i>                 | 04           | AY     |
| 50             | BAILLON'S CRAKE           | <i>PORZANA PUSILLA</i>             | 05           | AY     |
| 890            | BAIRD'S SANDPIPER         | <i>CALIDRIS BAIRDII</i>            |              |        |
| 24             | BANDED FRUIT-DOVE         | <i>PTILINOPUS CINCTUS</i>          |              |        |
| 588            | BANDED HONEYEATER         | <i>CERTHIONYX PECTORALIS</i>       | 02           | AY     |
| 135            | BANDED LAPWING            | <i>VANELLUS TRICOLOR</i>           | 06           | IN     |
| 147            | BANDED STILT              | <i>CLADORHYNCHUS LEUCOCEPHALUS</i> | 08           | SS     |
| 469            | BANDED WHITEFACE          | <i>APHEOCEPHALA NIGRICINCTA</i>    |              |        |
| 596            | BAR-BREASTED HONEYEATER   | <i>RAMSAYORNIS FASCIATUS</i>       | 02           | AY     |
| 32             | BAR-SHOULDERED DOVE       | <i>GEOPELIA HUMERALIS</i>          | 08           | AM     |
| 153            | BAR-TAILED GODWIT         | <i>LIMOSA LAPONICA</i>             | 07(08)       | IN(55) |
| 940            | BARBARY DOVE              | <i>STREPTOPELIA RISORIA</i>        |              |        |
| 246            | BARKING OWL               | <i>NINOX CONNIVENS</i>             | 11           | SS     |
| 249            | BARN OWL                  | <i>TYTO ALBA</i>                   | 11(27)       | SS     |
| 879            | BARN SWALLOW              | <i>HIRUNDO RUSTICA</i>             | 02           | AY     |
| 175            | BEACH THICK-KNEE          | <i>BURINUS NEGLECTUS</i>           | 11           | SS     |

**Bird band cartoon, reproduced in 1990 in ABBBS's 'Bander's Bulletin'.**

Bob C/- Shortland Wetlands Centre, PO Box 130 Wallsend, NSW, 2287 for more information and to receive the project's newsletter.

## Phone Number

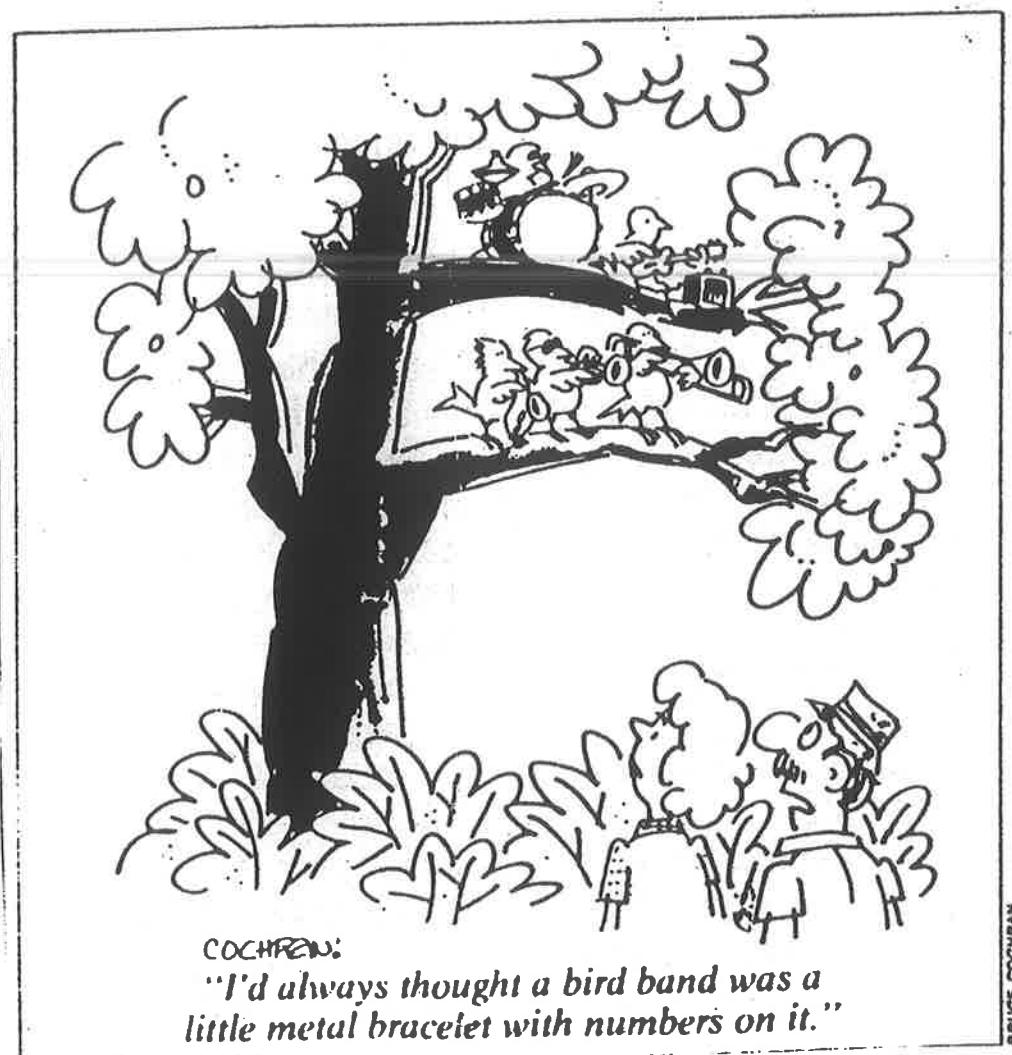
residents of the ACT and nearby areas would know Telecom has decided to move the 2 in Canberra's STD area code to the first digit of our telephone numbers. So if you come to us and call us please dial 2466180. There is no change for those people calling STD.

## Annual Banding Authorities

al time is almost with us again. The renewal notices will be sent to all banders in mid-June, giving banders up to six weeks to fill in the forms and return them by 30 June 1990. If you have not received your renewal notice by the end of May please contact the Banding Office.

Please remember to submit all your outstanding data with your renewal. Indeed it would be greatly appreciated if banders could submit data now - prior to the rush period.

ough



COCHRAN:

*"I'd always thought a bird band was a little metal bracelet with numbers on it."*

## AUSTRALIAN BIRD & BAT BANDING SCHEMES

GPO BOX 8 CANBERRA ACT 2601

06 2466180

### BANDER'S BULLETIN

No 9 March 1990

So much has happened in the banding office since the last bulletin that this edition is behind schedule! Perhaps one bulletin a year is about the right periodicity. Please let us know your views on this.

Much activity has been aimed at improving the accessibility of the ABBBS records from the CSIRO administration. All of the CSIRO records (banding, retrap, public recoveries) have been transferred to microfiche - the information that was once housed on seventy metres of shelf space has been condensed into one small file-card box. Copies of the fiche are available for loan, either as sets or in part and banders are encouraged to take advantage of this easily-transportable facility. Note that data protection requirements will be stringently applied to these data. David Purchase has started a consultancy to computerise over the next 18 months or so, all of the CSIRO Recovery Reports which includes many of the scheme's most useful records. The results may be published as a series of maps. David has also been involved with a project to computerise species movements of >100 km for Volume 1 of the RAOU Handbook of Australian, New Zealand and Australian Birds, with maps prepared by Kim Lowe. This material is now at the publishers and will be a splendid testimony to the efforts of many, many banders.

Jamie Pook was appointed in December as the new Secretary, replacing Bruce Male, who has been promoted into the Endangered Species Unit of the ANPWS. Bruce has been the Secretary since January 1988 and has made a substantial contribution to the continuing development of the ABBBS. We wish Bruce all the best in his new position. Jamie comes originally from Victoria and completed a Graduate Diploma in Resource Management at the Canberra College of Advanced Education in 1989 and has been an active bander in the ACT and Inland NSW since 1986.

We would like to take this belated opportunity to wish banders all the best for the remainder of 1990, and look forward to completion of our 36th year of operation on 30 June.

Jamie Pook  
Secretary

Kim W Lowe  
Co-ordinator

**Various papers (09/06/1989 – 25/08/1989) inter alia including ABBBS's approval of an 'A' Class Bird Banding Authority for GBP on 27/07/1989. This Authority was for work on ducks and other waterbirds by GBP for Stuart Halse of CALM – work unrelated to GBP's work with JL & CDTM on breeding Banded Stilt in WA in 1995.**

## DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT



**STATE OPERATIONS HEADQUARTERS**  
50 HAYMAN ROAD COMO  
WESTERN AUSTRALIA  
Phone (09) 367 0333  
Telex AA94616  
Facsimile (09) 367 0466

**HEAD OFFICE**  
HACKETT DRIVE CRAWLEY  
WESTERN AUSTRALIA  
Phone (09) 386 8811  
Telex AA94585  
Facsimile (09) 386 1578

PAGE

2

CONTINUED FROM PAGE

1

DATE OF ISSUE 26/06/89  
DATE OF EXPIRY 30/06/90  
VALID FROM 01/07/89

*ASL*  
LICENCING OFFICER

LICENSEE: MR BB PEARSON  
ADDRESS : WA WILDLIFE RESEARCH CENTRE  
CALM  
P.O. BOX 51  
WANNEE POO

GRANT BUTLEY

6065

## DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT



STATE OPERATIONS HEADQUARTERS  
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WESTERN AUSTRALIA  
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Facsimile (09) 386 1578

PAGE 1

LICENCE NO. B8000172

| DATE | TIME | RECEIPT NO. | AMOUNT |
|------|------|-------------|--------|
|------|------|-------------|--------|

## WILDLIFE CONSERVATION ACT 1956

## REGULATION 23

LICENCE TO TAKE AND MARK FAUNA FOR  
RESEARCH PURPOSES

THE UNDERTAKEN PERSON MAY SUBJECT TO THE CONDITIONS ENDORSED HEREON TAKE FOR THE PURPOSES OF MARKING AND TO MARK AND RELEASE THE UNDERTAKEN SPECIES OF FAUNA IN THE MANNER AUTHORISED UNDER THE AUSTRALIAN BIRD AND BAT BANDING SCHEMES.

SYD SMITH  
EXECUTIVE DIRECTOR

## CONDITIONS

- 1 THE LICENSEE SHALL COMPLY WITH THE PROVISIONS OF THE CONSERVATION AND LAND MANAGEMENT ACT, WILDLIFE CONSERVATION ACT AND REGULATIONS, NATIONAL PARKS REGULATIONS AND ANY NOTICES THAT ARE IN FORCE UNDER THESE ACTS AND REGULATIONS.
- 2 NO FAUNA SHALL BE TAKEN FROM ANY NATURE RESERVE, WILDLIFE SANCTUARY, NATIONAL PARK, TIMBER RESERVE OR STATE FOREST WITHOUT PRIOR APPROVAL IN WRITING FROM THE EXECUTIVE DIRECTOR.
- 3 NO FAUNA SHALL BE RELEASED IN ANY AREA WHERE IT DOES NOT NATURALLY OCCUR, NOR HANDED OVER TO ANY OTHER PERSON OR AUTHORITY UNLESS APPROVED BY THE EXECUTIVE DIRECTOR, NOR SHALL THE REMAINS OF SUCH FAUNA BE DISPOSED OF IN SUCH MANNER AS TO CONFUSE THE NATURAL OR PRESENT DAY DISTRIBUTION OF THE SPECIES.
- 4 ONLY AUSTRALIAN NATIONAL PARKS AND WILDLIFE SERVICE APPROVED RINGS OR BANDS OR OTHER METHODS OF MARKING SHALL BE USED UNDER THIS PERMIT.
- 5 THE LICENSEE SHALL CONTACT THE LOCAL DISTRICT WILDLIFE OFFICER PRIOR TO COMMENCING ANY TRAPPING ACTIVITIES.
- 6 THIS LICENCE MUST BE CARRIED BY THE LICENSEE AT ALL TIMES FOR THE PURPOSE OF PROVING THEIR AUTHORITY TO TAKE FAUNA WHEN QUESTIONED AS TO THEIR RIGHT TO DO SO BY A WILDLIFE OFFICER, ANY OTHER STATE OR LOCAL GOVERNMENT OFFICER OR ANY MEMBER OF THE PUBLIC.

## SPECIAL CONDITIONS

- 7 THE LICENSEE IS AUTHORISED TO USE HAND CAPTURE, TRAPS, A MIST NET AND A CANNON NET.

## SPECIES

Birds

FEE: 0.00

S/L 54-84306-01A



## AUSTRALIAN NATIONAL PARKS AND WILDLIFE SERVICE

### AUSTRALIAN BIRD AND BAT BANDING SCHEMES

G.P.O. Box 8

Canberra, A.C.T. 2601

Phone (062) 466180 Telex AA62971 Fax (062) 473528

Our ref

Your ref

MR GB PEARSON  
WILDLIFE RES CENTRE  
PO BOX 51  
WANNEROO

WA 6065

27 JULY, 1989

Dear GRANT

An ANPWS 'A' Class Bird Banding Authority with endorsement:

MIST-NETS AND CANNON-NETS

has been approved in your name. Please now apply to:

The Executive Director,  
Department of Conservation & Land Management,  
PO Box 104,  
Como WA 6152

for a permit to trap, band and release birds in:

Western Australia

You should also send to him the enclosed copy of your application for an ANPWS Bird Banding Authority.

When you receive your State/Territory permit would you please send me a copy of it or write to tell me the number of the permit and the date it was issued. I will then enrol you into the Australian Bird Banding Scheme and send you your ANPWS Bird Banding Authority.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Bma." followed by a period.

E. Bruce Male  
Secretary



# AUSTRALIAN NATIONAL PARKS AND WILDLIFE SERVICE

## AUSTRALIAN BIRD AND BAT BANDING SCHEMES

G.P.O. Box 8

Canberra, A.C.T. 2601

Phone (062) 466180 Telex AA62971 Fax (062) 473528

Our ref:

Your ref:

### COLOUR MARKING AUTHORITY

MR GB PEARSON  
WILDLIFE RES CENTRE  
PO BOX 51  
WANNEROO

WA 6065

6:15 PM WED., 26 JULY, 1989 PAGE NUMBER: 1

AUTHORITY NO: 831

This is to certify that the person whose name appears at the top of this form (hereafter called the 'holder') is a registered bander with the ABBBS and is authorised to undertake the colour marking procedures described below subject to the following conditions:

1. The fauna laws pertaining to the capture and handling of birds or bats in the State or Territory in which the holder is operating are to be observed at all times.
2. Only the species and numbers indicated are to be colour marked and in the manner described.
3. The holder is required to conduct all colour marking in accordance with the instructions of the Secretary, ABBBS.
4. This authority is renewable annually and expires on 30 June 1990.

SPECIES: PACIFIC BLACK DUCK REGION: WESTERN AUSTRALIA PLACES: VARIOUS  
METHOD: NASAL SADDLES SCHEMA: INDIVIDUALLY CODED OR NUMBERED NASAL SADDLES  
MASTER: YWPO NO. APPROV: 100 OTHER DETAILS: 1989+ P = PALE OR LIGHT GREEN

SPECIES: GREY TEAL REGION: WESTERN AUSTRALIA PLACES: VARIOUS  
METHOD: NASAL SADDLES SCHEMA: INDIVIDUALLY CODED OR NUMBERED NASAL SADDLES  
MASTER: YWPO NO. APPROV: 100 OTHER DETAILS: 1989+ P = PALE OR LIGHT GREEN

SPECIES: PINK-EARED DUCK REGION: WESTERN AUSTRALIA PLACES: VARIOUS  
METHOD: NASAL SADDLES SCHEMA: INDIVIDUALLY CODED OR NUMBERED NASAL SADDLES  
MASTER: YWPO NO. APPROV: 100 OTHER DETAILS: 1989+ P = PALE OR LIGHT GREEN

A handwritten signature in black ink, appearing to read "Bruce Male".

E. Bruce Male  
Secretary



Application to Transfer an ANPWS Bird Banding Authority from 'B' or 'C' Class to 'A' Class

Please submit to:

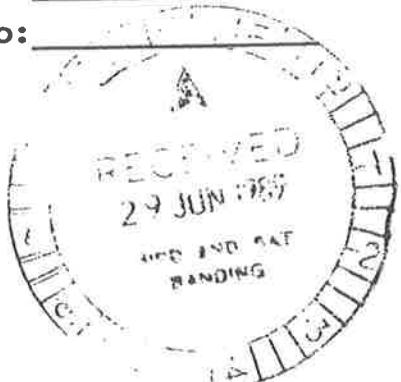
AUSTRALIAN BIRD BANDING SCHEME,  
GPO BOX 8, CANBERRA ACT 2601

1. Would you please supply the following personal details for our records:
  - a. Title (Dr/Mr/Mrs/Ms/Miss/etc) \_\_\_\_\_
  - b. Given Names Grant Butley
  - c. Surname Pearson
  - d. Address Po Box 51 WANNEROO WA 6065
  - e. Age 40 f. Occupation Technical Officer CALM
  - g. Telephone (09) 4055157
2. What is the number of your ANPWS Bird Banding Authority 831  
What endorsement(s) do you hold? (5)(A) Mistnets and (1)(B) Common nets
3. What is the name of the 'A' Class bander whom you have been assisting? JAK LANE  
Authority Number 593
4. What new endorsement(s) do you need for this project?  
NONE

Please nominate two referees who hold the necessary endorsement(s):

Name: Mr J Lane Auth No: 593

Name: Dr COT Minton Auth No: \_\_\_\_\_



5. Please provide the following information about the project for which you require an 'A' Class Bird Banding Authority:

a. The species or type of bird which you will be banding: WATERFOWL including Ducks Herons Spoonbills Ibis Coot Swan

b. the proposed duration of your project: ONGOING

c. the location of your banding site (State, latitude, longitude and elevation):  
WA. 31 08 S 116 03 E  
Metropolitan Lakes to be determined

d. The aim of your project: - Breeding success of ducks in brackish and saline lakes - to determine  
Proportion of ducks that breed  
likelihood of an egg producing a fledged duck  
whether ducks take advantage of spatial variation in vegetation  
salinity and/or composition and abundance of the invertebrate fauna.

6. If an 'A' Class Bird Banding Authority is issued to me I accept the requirements of the Secretary of the Australian Bird Banding Scheme pertaining to the use of bird bands supplied by the Scheme. I also undertake to return to the Secretary of the Australian Bird Banding Scheme, if requested to do so, any bird bands and other equipment supplied to me by the Scheme.

Signature

Date

9.6.89

PROJECT APPROVED

DATE 30/6/89

**Cover sheet on front cover of black lever arch file (A4) of GBP with handwritten label 'Australian Bird & Bat Banding Scheme. Schedules etc.' on its spine. Cover sheet (by JL) describes content including Australian Pelican and Banded Stilt materials.**

More pages of GBS Plan (revised)

are many to do with ABSBS

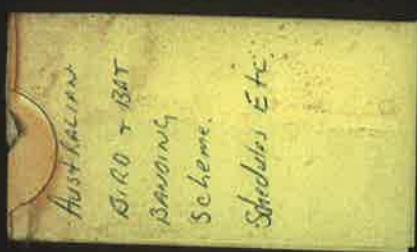
Project, involving Bedside Shift Checks  
and the Bellant / Marion  
unit

Plan next and Project of Month

Notes.

02 May 2012  
R

- The given material in this file has been reduced
- Some of the given material has also been reduced to photocopy sheet
- Project file copies of 01/12/2012



These papers of G B Pearson (retired)

are mainly to do with ABBBS

Projects, including Banded Stilt chicks

Banded & Lesser Bellard / Mernon,

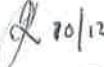
Pelican research and projects of Stuart

Hobson.

 02 May 2012

• The pelican material in this block file has been REMOVED

• Some of the pelican material has also been moved to pelican research  
program files / boxes

 20/12/2012