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25/2/08 - 23/2/09

MARKRITE

ALL WEATHER

WATERPROOF NOTEBOOK 110

(1)

Varroc W 25/2/08

TIME

upstream -0.125m 11.25am

downstream +0.34m 11.30am

fish gate open

Allowing up

downstream +0.35m AHD 11.40am

up stream 1.45m below 1.0m AHD

depth -0.45m AHD 11.45am

gates leaking over top of stop boards

brown dudes No. ?

Roger Heap

0771 7936

(2)

START 8.30 NINE 25/11/08

SORT FIELD entre lake 4.45

gear depth @ B = 0.57m.

pH 7.91 @ 21.0°C

Calibration

7-10 slope

-58.5mV

-11mV

finish Warrana 9.~~45~~ pm.

7.15am. store depart Warrana 26/11/08

Nine Mile Breakfast.

8.20 ~~in~~ method.

spectators crabs (shrill!)

(3)

Yarrawa 1420 26/11/08

depth @ A = 1.03m.

looked for nesters 1430-1800

back @ accom 1815

Dinner

departed accom 7.30

listen for birds until 9.15

back @ accom 9.30pm.

NINE	385552	6376435
NINE01N	385712	6376625
NINE02N	385682	6376633
NINE03	385~~682~~520	6376~~633~~726
NINE04N	385791	6376799
NINE05N	385820	6376773
NINE06N	385703	6377012
NINE07N	385586	6376949

YARN	0487446	6196684
YARN01	487759	6196186
YARN02N	487736	6196189
YARN03N	487704	6196179
YARN04N	487691	6196197
YARN05N	487679	6196182
YARN06N	487660	6196198
YARN07N	487622	6196198
YARN08N	487615	6196184
YARN09N	487587	6196197
YARN10N	487419	6196273

5

YARNUP GPS points

YARN12N	487689	6196674
YARN13N	487707	6196661
YARN14N	487850	6196574
YARN15	487894	6196447

(6)

YARN11N 487425 6196282
YARNEDGE 487395 6196282

Yarnup 27/4/08

Start 0800
searching 0830
finish searching 1030am.
PH sample @ WPS YARN15 PH = 4.79 @ 17.3°C
travel to back Pleasant View
lunch.
pH, data entry, phone calls etc.
Calibrate PH
slop 7-10
-55.7mV
-11mV
10.00 buffer read 10.25 @ 16.8°C.
walked around south and West side from 2.50 - 4.30pm. refueled
drove to north side walked again
to flush birds for 1 hr. Returned to
vehicle. Cooked dinner.

(7)

Lake Pleasant view.
listened for bittern on 27/11/08
4 places along eastern trail.
no calls. played bittern tapes
left lake at 9.15pm and arrived
and unpacked car @ 9.45.
finish 10.00pm.
start 0745
start - leave allam 7.50am.
pleasant view 8.30am
depth @ C = 1.1m. 11.40am.
pH Calibration
7-10
-55.6mV
-10mV
before 10.00 read 10.25 @ 18.0°C

pH 6.67 @ 24.0°C

(8)

Mettler — cup shape. similar size

photo 356 old nest no canopy

depth in D = 1.01 m

pH 6.74 @ 18-9°C

cook dinner

observed 5-6 LPC colonies (1 active)

Bittern. bittern NC possible nest flooded.

Little bittern nest flooded

circled entire lake.

nests of bittern found in tall narrow lines of bearmes and this Mel. sp. bearmes mostly open.

nesting in garrica sp.

lake will be better for breeding (Bitterns) in a month.

Drive to Bremer.

finish Bremer Bay 10:30 pm.

(9)

Bremer 29/11/08
start 8:30 notes, GPS down load
work dishes

METTØ1N	646418	6172027/250
METTØ2B (Beaumea)	646466	6172217
no No. 3		
METTØ4N	646485	6172342
METTØ5N	646486	6172433
METTØ6N	646521	6172544
METTØ7N	646630	6172599
METTØBB	646657	6172645
METTØ9N	646810	6172467
METT10N	646798	6172074
METT11N	646542	6171692
METT12N	646472	6171729
METT13N	646423	6171816
METT14N	646472	6171914
METT15N	646566	6172023
METT16N	646591	6172015
METTC	646482	6172015

(10)

Yulilup 29/11/08

depth 0.45m below top of ~~[illegible]~~ dropper.

pH 8.79 @ 26.1°C

boat with electric motor

survey for 3 hours.

pack up 3.30pm.

travel to Esperance

stay with Roger's family overn

arrive 8.30pm.

wash bikes

Buy - water

shampoo, soap.

wholemeal Pita

bananas

carrots

carrots tetra juices

Tomatoes broccoli?

K corn flakes chicken?

UHT milk

FILL TRUCK

H_2O

Book Albany Hotel

SAVE YELL / GPS

(11)

SUNDAY 30/11/08

start 2.00 pm.
shopping, vehicle washing
more gear. H_2O ↑ etc.

Start 4.00 pm.
one little bottom.
SW Hen nests × 2
BBD, +

depth @ B = 2.36 m.
pH = 9.00 @ 19°C

finish 9.15 pm.

(12)

MONDAY 1/12/08

start 0830

put boat in with electrical motor. very useful. flushed birds from Mel. Thickets on left (North end)

2 × FREDS, 13 bm Billed D. Chestnut teal. HHG. Shoveller etc.

ESPI

depth @ A 0.76 m

pH 9.77 @ 23.3°C

no nests new or old.

one undetermined nest not finished

drive to Albany BLE Hotel

finish @ 7.15 pm

TUE 2/12/08
start 0830
Redrying Varnish 9-10am.
Denmark shopping etc.
Boats launch. start on lake with boats and electric motor.
Boat Harbour 1

depth @ A = 1.07m
pH 8.93 @
Calibrate WTW320 @ 23.2°C.
Slope 7-10
-58.1°C.
-12mV
Buffer 10.00 read 10.07 @ 22.5°C
heard Aussie Bittern calling (no tape)
then plonged, tape and AB responded.
finish 10pm. @ accom.

(14) 3/12/08

start 0830
Travel to Boots Harbour and
scrapped together and for Boots.
bottoms. found Black Bream nest.
where AB was calling previous
night

travel to Lake Davies.

Lake Davis
depth 4.43 m. ?✓
pH 8.93 @ 22.8°C.
Calibration of WTW 320
slope 7-10
-57.8 mv
-11 mv
buffer 10.00 read 10.11 @ 21.4°C

2+ active HHG nests 1 w 2+ eggs
white bumpy.

PBD × 12
HHG × 15?
silver gull × 4

arrive Home 7.30 pm.
finish 7.45

(16)

start 0830 14/12/98

finish unpacking and clearing sorting gear.

Waterproof Paper

(17)

WETLAND DATE

START TIME FINISH TIME

METHOD eg. Ground survey wading + boat

CONDITIONS

OBSERVERS

HABITAT - SURVEYED - area direction
- CONDITIONS

LISTENING - position TIME etc.

WATER LEVEL

SAMPLE pH

WATERBIRDS

NESTS

PHOTOS.

GPS TRACK saved, WPT saved.

(18)

5/1/09

Vasse gates upstream gauge.
10:54 am.
measured 0.80m down to water
from mark on wall of +0.75m AHD
depth = -0.05 AHD.
fish gate open and water is
flowing into the estuary.

Wonnerup bridge 11:06 am.
measured 0.785 down to water
from +0.50m AHD
depth = -0.285m AHD
large reppies building along
gates reaching ¼ of width of
channel and the dark opposite
gate 50-100 metres of gates 20m
from gates running back giving as
normal in ground level.
one dead swan possibly juv
not fully size not yet black plumage

(19)

OSBORNES LODGE 98566289
Jane + Jeremy.

Waterproof Paper

Yarnup

3.00pm start at edge of lake
with pure electric motor

begin at outflow
HHG ~ near edge near tall beaver.
little grass birds herd.
reed warbler
much duck.
swamp hen 2.
swamp harrier
sunny, warm, SSE WIND 15 knots 30 deg

YARN15N small patch of beaver
400 from water 1.5 to top of rush.
possibly LB old 3-hydro.
30cm diameter 20cm deep - loose.

YARN16 swamp sparrow ~~nest~~ last this year? no fresh material
at top of nest 15cm from H_2O
exposed this beaver top of rush 1.2m.
nest D = 400mm

YARN17 This years swamphen new material swamphen feathers. purple.
20 cm from water. 400 D nest.

Yarn18N not swamp hen duck possible
little Bittern? not finished.
300cm from water 20cm Diameter.
1.5m to top of nest. new, green leaves folded around.

YARN19N old nest partly formed
large amount of material 0.5m above water 1m to top of nest. 30cm = D.
no bird shape.

YARN20N MUSK DUCK NEST WITH HOOD + RAMP
DOWN + 3 EGGS nest 20cm from H_2O top of ramp 1.5m.
EGG LENGTH = 70.01 mm
WIDTH = 45.88 mm
GREEN TINGE TO EGG
EGG 2 L: 72.01 mm EGG 3 NOT MEASURED
W: 47.00 mm

YARN21N – NUMEROUS NESTING ATTEMPTS
1-3 YRS OLD
APPROX 300 m from WATER

YARN22N – SWAMPHEN NEST. THIS YEARS
RAMP. EXPOSED POSITION
BASE 300 mm from WATER
BAUMEA TOP 1.2 m from NEST

YARN23N – OLD MUSK DUCK NEST BOWL SHAPE 200mm DIAMETER
300mm from WATER
SMALL ISLAND OF BAUMEA 3m x 3m
1.2m TO TOP OF SEDGE FROM NEST

4 x MUSK DUCK

YARN24N – OLD SWAMPHEN NEST, 1.2m FROM TOP OF SEDGE
+2 adult 350mm WIDE. IN PATCH OF BAUMEA WHERE
+2 more. ROGER FOUND SWAMPHEN NEST

WATER DEPTH (ALL NESTS): 700mm

~~YARN24N~~ 400mm FROM WATER
cont 1.2 m TO TOP BAUMEA
YARN25N BOWL WITH CANOPY
20-25cm DIAMETER
WHITE DOWN, ONLY MADE OF BAUMEA
NEAR OPEN WATER SECTION
NO RAMP

YARN26N little grebe lined this year
feathers in nest, 500mm from water
800mm depth, in collapsed baumea.
3m × 1m island. 1m to top of veg.
228

Dropped GPS into water. TURNED OFF
YARN27N possible little bittern nest
in tallest baumea and thickest in that
area on east side. Most of this area
is sparser than north area of YARN26N,
not good enough for photo-ble photo.
Swamp Harrier nest in tall baumea.
ble photos finished nearly 1900hrs
2 WFH

left water edge at 0715.
back at B+B at 7.40 pm.
shower - dinner was nearly no
wanted. finish dinner at 9.20

drove back to swamp began listing
at YARN26N on shore at 9.45
listened for 10 mins no Bittern.
initiated calls with no reply
finished 10.10
moved to east side listened
from 10.15 - 10.30 pm - no reply.
back at acorn 11.00 pm.

left B+B @ 6.00am. 9/1/09
listened at YARN26N for 30 min.
arrived at B+B 0700 hrs.
heard Moor duck, little Grass bird and
Swamp hen.
wind conditions calm.

start 0845.

Yarrump 0900hrs. 9/1/09

depth @ B = 0.85m.

pH 6.35 @ 22.3°C.

Calibration 7-4 buffer 7 read 7.07 @ 16.4°C

-56.7 mV @ 16.0°C

-13mV

buffer 4 read 3.99 @ 16.0°C

LPC 2, teat grey 2, coat 3.

Boat Harbour 1 9/1/09
Marsh D. 2+1
LPC 9
Black Brow 101+2

start at south swamps (Boat area)
1.30 pm. start
lots of swamp hen activity
1 x Com. Reed warbler.
good look Baemea, but not really that
great here crake x 1 BOA15C

BOA15N swamp hen
b. Bitentata with B. Sinsea.
swamp well formed bowl (covered)
400 x 300 10cm above water.
egg shell, feathers.

BOA16N? baemea bed.
not a nest bowl lots of work
swamphen nest (bowl) underneath.
egg shell

Finish resulting survey 1500 hrs.
Good drink travel to NE area.

depth @ A = 1.01m
pH = 8.90 @ 27.3°C.

start 4.20 on NE side
used boat for cover. heavy
gornia near edge 50m thick
breaks out into
INDT BOAIAVST BITTERN
400mm deep B. Jurvein at edge of Gornia.
calling 4.47pm.
Most bittern seen + calling.
little grebe bird call + seen

BOAIOJN crake nest OLD
Coarser island 10cm D
300from water 1.5ft top of sedge
beside of gimsons water 400deep.

9/1/09

Arrive Bittern heard calling 2+ booms at 5.50pm from area near road where we tried to walk in.

Found exact bittern 200m - 150m sitting in 350mm H_2O on edge of small pool. in B. Sedges.
Flew off to East near tall sedge lime green.

Spotters crake call at BOATTAILSLEDGE.

near typha
6+ Pacific Black Duck
Chamers Red swatter.
Blue Bill Duck 6. 5 males 1 female.
Swamp hens 4
little grass birds x4 approx.
grade? dit dit - dit dit
finished at eg 7.10pm.

9/1/09 (29)

W/Teach southern end 9.45-1055.

BOB I

Entered 10.00 - NOV

Mark dock.

50-100 m away Little Bittern regular calls to left of V. Point

BUST Bittern 4 booms

calm wind

2nd BUST Bittern further away.

finish 1115 hrs.

start 0800 hrs. 10/1/09

Waterproof Paper

Pleasant View 11.25 pm start searching
from gauge vault towards Rock.
platform with swamphen feathers
yellow shell.
depth @ C = 0.96 m.
DC entered west of inflow near
granite rock little grass birds
swamphen x 2 Reed warblers

PLEA05N
1 predated egg greenish tinge
length 79.81 mm
width 53.02
nest 1 300 mm from water
300 deep to water
300 long 200 wide
white down.
2nd nest some higher white down
smaller slightly, adjacent
concreted building support.

3x Reinwardtia
little grass birds 2
3x spotted crake
swamp hen x1

Blackduck flushed from reed island
PLE706N Blackduck nest 8 eggs
down, very round well formed.
300 mm from water 400 D. 1.5 m to
east side of reed island. tops of reeds

flushed on DUST Bittern
seen by Chrome
flushed crake brown green yellow
from B. juncus, fringe
PLE708N nest? B. Juncus only.
in B. articulata 10 cm from H_2O
20 cm D roof created by leaning B.A.
no down egg shell etc!

mesh dark nest PLLA09N
2 × large eggs, { with 48.02
85.00
2 { 47.08
81.00

1 egg broken possibly hatch
300mm deep H_2O
400 high from H_2O
250 D.

one L. Bittern flushed from CPS
PleaLB headed WNW. 2ND LB
seen in reed tops 20m from BRNG
in SE direction
B. Juncens and B. Arcuatus
400m deep. open water nesting
seen back islands of B. Arcuatus

L. Bittern nest dead followed by
20m away newer nest
LB PLLA9LBNEST nest correct
PLLA9LB[illegible] nest.

nest 200-D 300 from water
B articulator leaning over nest
0.5 m in from edge made of BA
with flanges not active.

Hardhead duck flushed
from nest 10 eggs white
brown. etc. beautiful brown.

finished 2.30 pm.
feed 2.30 - 3.15.
start western ridge 3.35 pm.

Banyan hen nest 3 eggs
back wind well formed.
200 from water 1.5 to top of reeds.
PLEIAION.
some clumps of bracken.
Hardhead nest with 9 eggs
closed bird in edge of bracken.
finished packing 5.30. feeder car 5.45
start down 6.45 at Martin end.

(34)

start listening 8:20 pm. 10/1/09
north end, daylight SW wind 10 knots
1 calling regularly.
spatters water call. x 2
little green bird

Dark Bittern calling 8:35 pm.
from area secluded during day in
west side. 500 m away.
called again 8:41
4 Herons 8:56.
finished listening 9:45.
TONY BUSH finish 10:30
@ HOTEL.

BUSH152@WISSDOT.COM.

35

WAYNE 2.

RMB 593 KOONUP
6395.

(36) 11/1/09

start 0815 writing notes

travel to Pleasant View.
calibrate pH
buffer 7 read 6.79 @ 20.4°C
-57.7 mV
-11 mV
buffer 10 read 10.12 @ 22.5°C

pH = 6.64 @ 23.9°C

at travel to Cape Ritchie
pay, set up tents, have lunch.

travel to Yellowknife start 1400hrs.

Yellilup 11/1/09 (37)

0.502 4mgg D (3m mark)

0.505 3mgg E (3m mark)

$\Delta = -0.003$

~~0.155~~ HE112 (5.268m)

0.155 gauge E (3m mark)

$-\ 1.381$ top of dropper

$= -1.226$

gg D = 1.998 m $-0.002 + -0.003 =$

-0.005

E = 2.995 − 1.226 = 1.769

dropper = LH 1.769 m.

dist top drop. to H_2O = 0.280

water = 1.489

0.155 gauge E (3m mark)

$-\ 0.843$ top of new gg angle

$= -0.688$ LH of TOP of angle

E = 2.995 − 0.688 = 2.307 m

(38)

Mettlers lake 11/1/08
start walk 1745.

MEL04N
Duck nest down egg shell.
of 4 eggs or no.

near the 4m nest clump
Mark duck nest METT20N
1 egg, good roof 20D
no hom. egg cold.

MEL05N big Garvin no nest.
20 cm of water at base.

METT06N no nest 10 cm of H_2O

METT21N nest not well concealed
1 egg hatched, but predated
fine bill penetrations.
pink egg beak together 46 mm long ≈
mark duck x 1

Waterproof Paper

Mett-22N duck nest egg shell
down, not much.
open water
wood duck 2
Mock duck 2
PBD 8
gray teal 10
mangrove 4
HHG 2
WPH 2

Mett23N green nest
15 cm of water, roof, lots of
down, egg shell.

Mett01N down no egg or shell
looks raided, exposed.
LDC sitting on eggs or old nest.
depth gauge D = 1.03m.
standing on finished at 7.00.
gauge D → hard little Bottom at 7.05
from L13 nest area.

Mettler
pH 6.67 @ 29.0°C

Heard bittern bittern
8.15 × 2 while eating dinner
heard again at 8.38 while
walking out.
LB stopped calling 8.45 pm.
still conditions
light SE wind in afternoon
and evening

finish listening 9.40
back at Cape Richie 10.15 pm.

(41)

Mether 12/1/09
start life from Rubio 0805
start in lake at 8:45am.

little bittern seen 5m from
nest very briefly.
nest is 300 from water
15cm wide 2m to top of edge
nest is 1.2m from flooded nest!

photo 416-413 Swamphen nest 3 eggs

PHOTO 417 Swamphen nest
no eggs two ramps

METT25N crake nest on pond.
10cm from water white poo on edge.
pitty up off water 10m ∴ Dis
at METT14N.
13 LPC nests with 3-6 eggs each.
1 nest ~~no eggs~~ found week 11.25

(42)

METT26N

large beam platform
semi suspended. 300 from top of H_2O
15 cm wide. near Mel. sp. tree

width

METT27N

sweepstakes 20m east of GPS point
38 main 2nd line.

Waterproof Paper

go back to Cape Ritchie
pick up tents + pack.
have lunch.
travel 5 hours back to Burns.
pick John in at ESPLANADE
HOTEL

Home 6.15 pm.

start 13/1/09 08.45 hrs.

RJ @ WETLANDS - OLEARIA. ORIS

file Yellitop work write up.

(42)

23/2/09

start 0800.
left Burra airport 0825.
Two passes over south side of Vanse and Wormanap bays and Wormanap inlet + headwater.
Took shots of dung areas. and water areas.
finish 0915.

45

5.2 Weston Mi works
portside Marine