

Jim Lane's Field Notebooks Index Contd.

(Revised Index of 31/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1992 on)_15	15	(29-04-95 / 17-05-95)
JL_(1992 on)_16	16	(18-05-95 / 18-12-95)
JL_(1992 on)_16A	16A	(08-11-95 / 11-11-95)
JL_(1992 on)_17	17	(21-12-95 / 19-06-96)
JL_(1992 on)_18	18	(19-06-96 / 03-08-96)
JL_(1992 on)_19	19	(23-09-96 / Mar 97)
JL_(1992 on)_20	20	(Mar 97 / Apr 97)
JL_(1992 on)_21	21	(16-04-97 / 12-06-97)
JL_(1992 on)_22	22	(12-06-97 / Oct 97)
JL_(1992 on)_23	23	(Oct 97 / Dec 97)
JL_(1992 on)_24	24	(Dec 97 / Jan 98)
JL_(1992 on)_25	25	(10-01-98 / 22-01-98)
JL_(1992 on)_26	26	(22-01-98 / 13-02-98)
JL_(1992 on)_27	27	(14 -02-98 / 21-03-98)
JL_(1992 on)_28	28	(30-03-98 / 20-05-98)
JL_(1992 on)_29	29	(23-05-98 / 28-08-98)
JL_(1992 on)_30	30	(Sep 98 / Dec 98)
JL_(1992 on)_31	31	(24-12-98 / 28-01-99)

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

TO BE CONTINUED

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<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1969-70)_1	'1969-70'	(Nov 70 / Jan 70)
JL_(1970-84)_1	1970-71	(6-12-70 / 17-2-71)
JL_(1970-84)_2	1971	(08-03-71 / 21/01/72)
JL_(1970-84)_3	1972/73	(24-01-72 / 15-02-73)
JL_(1970-84)_4	1973	(05-03-73 / 15-11-73)
JL_(1970-84)_5	1973-74	(12-04-73 / 11-06-74)
JL_(1970-84)_6	1973-74	(03-12-73 / 28-03-74)
JL_(1970-84)_7	1974-76	(03-05-74 / 24-10-75)
JL_(1970-84)_8	1974	(26-05-74 / 18-11-74)
JL_(1970-84)_9	1974-76	(28-08-74 / 02-10-76)
JL_(1970-84)_10	1974-76	(21-12-74 / 25-01-75)
JL_(1970-84)_11	1976	(25-10-76 / 27-11-76)
JL_(1970-84)_12	1977-78	(16-10-77 / 21-03-78)
JL_(1970-84)_13	1977-78	(24-10-77 / 19-04-78)
JL_(1970-84)_14	Oct 78-Apr 79	(06-10-78 / 14-04-79)
JL_(1970-84)_15	1979 (Apr-Sep)	(16-04-79 / 19-09-79)
JL_(1970-84)_16	1979-80	(26-09-79 / 23-05-80)
JL_(1970-84)_17	1980	(14-05-80 / 07-11-80)

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JL_(1970-84)_17A	1980-81	(01-12-80 / 15-11-81)
JL_(1970-84)_18	1982-83	(13-03-82 / 18-03-83)
JL_(1970-84)_19	1984	(15-03-84 / 16-03-84)
JL_(1970-84)_20	1984	(20-09-84 / 10-10-84)
JL_(1992 on)_1	1	(03-11-92 / 03-08-93)
JL_(1992 on)_2	2	(04-08-93 / 18-09-93)
JL_(1992 on)_3	3	(18-09-93 / 26-10-93)
JL_(1992 on)_4	4	(27-10-93 / Dec-93)
JL_(1992 on)_5	5	(14-12-93 / 22-12-93)
JL_(1992 on)_6	6	(23-12-93 / 06-01-94)
JL_(1992 on)_7	7	(18-01-94 / 18-03-94)
JL_(1992 on)_8	8	(21-05-94 / 08-07-94)
JL_(1992 on)_9	9	(03-07-94 / 02-09-94)
JL_(1992 on)_10	10	(02-09-94 / 17-11-94)
JL_(1992 on)_11	11	(22-11-94 / 9-03-95)
JL_(1992 on)_12	12	(15-03-95 / 01-04-95)
JL_(1992 on)_13	13	(02-04-95 / 07-04-95)
JL_(1992 on)_14	14	(07-04-95 / 29-04-95)

Handwritten:
018 300 153

Handwritten:
N° 25



NOTE BOOK

No. 561

\$.65
10 Jan 98 → 22 Jan 98

①

Island Pt. gauge - Harvey Esling

— 0.23 on at 1149 hrs

on Sat 10/1/1898
(used line + level)

Delta mouth (Harvey Esling)

at 1218 hrs

Petrels — 30

Gg. TL $\approx$ 600 to the W, 100s to the East

Shel $\approx$ 125

Great Cormorant — 8

Sooties — $\approx$ 35

Comp. Tern — $\approx$ 25

Sibl — $\approx$ 12

BW Stilt — $\approx$ 15

②

Musk Duck - 1

gullies were ...

... ..

... ..

(... ..)

(... ..)

... ..

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... ..

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... ..

(3)

1255' km

1465m Eagle.

Jayne at Island Pt
needs — 0.18 m AHD
at 1646 km on 10/1/88.

(4)

Verse using phragmites

Page 2 reads
- 0.04 m at.

6.40 pm on Sat 10/1/98

Water being put into the
cubing. Mullet (to 25 cm)

feeding (yes not) 4 dead

Light on slab window blowing

.88% for on and day 21 to

Regrowth buried up

3-6 m on upshore side

of jetty. Some green

algae seen at surface

(5)

3 Tattlers + 2 Common Sparrows

100+ eggs (220 cm) scattered
in sandy floor mostly in
at N end of gloughin

Some slight "bliness" (but
not colored) on surface
of water vegetation.

Eggs fresh ^(strong) visible 10+
in vegetation of the garden.

Green algal froth & stems
20 cm wide along ^{superior} edge
of clipped sedge in
North bay.

(6)

Tide high & water pouring
in thru cut in sandbar
at mouth of Herring Creek
at 7.06 pm on
Sat 10/1/98

Herring were plentiful
at 7.04 pm. There
were scores of large (20cm)
mullet at each of
the 11 bags of the
flourgees. Some in
the water below in.
Perhaps 500 + 600
mullet in total.

None dead - all swimming
- brightly.

(7)

Sun 11/1/98

Use strong flashlight

gauge reads $\rightarrow 0.07m$
At 0651 hrs.

Chopped regresses less markedly
greatly increased in abundance
It is now extends 15 m

upstream at S end and
10 m (only 5 m downstream)
at middle end 4 m
at S end of phryganea.

Flora is still ^{slightly} greenish
brown colour. Took 2 specimens
from last night has
large discrepancy.

⑧

Fine - No wind,

One large mullet at S end
of gate feeding on
outgoing water plants
(i.e. feeding upstream?).

One dead mullet (large)
only, on upstream side
of gate (gate 3)

Water looking out fairly fast

Some signs of large fish
actually upstream

Many small shiners & some
small fish on downstream side

(9)

Sheds of fresh salmon
20 + in diameter

2 Tappans

Some slight colorless "slits"
on surface 5 m upstream

7.10 am → 7.35 am

Winnipeg Lake mouth open
and water pouring out. Took
2 point photos (none taken
yesterday) Also photos
(both point and slide (64mm)
of bubble stream of H₂S)
Used tripod with 64mm
photos.

(10)

Vegetation Phragmites gauge
at 0652 hrs on

Mon 12/1/98

reads - 0.065 in AW

Water dripping out.

Fine. V. light → no
wind from south.

Chopped segments extracted
20 m system at S end of
jetty, 15 m at middle
end, 6 m (chopped) at N
end. 2 m end
disposition in bag at N
end.

Bloom is dull, slightly
greenish brown.

except in regions at S end. (11)

- No swimming on fork.
- Fish above upstream of gates (20+ m)
- Many small shags & some small shags on downstream side of floodgates. (0 m +)
- Much fish activity near surface. 30+ m downstream.
- Swans/egrets (8) and ducks, coot, (10) feeding in channel 5+ m upstream of gates as has been noted for past 1+ weeks.
- 2 Turtles.
- 3 dead fish (mullet?) of 10-15 cm on upstream side of gates.

(12)

on 12/1/98

Mouth of Honey Creek

26 0700 - 0720 hrs.

Still open + tide pouring
out.

Last night the tide was
high (given to have been
highest since bar was
opened) and the sea

also flowed into the inlet
at the ~~side~~ NE of the
bar where it last

previously flowed in (small
cove). Width of flow
in was c. 11 m.

Took 2 point plots of the
cut.

Wings shy flapping
at 0730 ~~0740~~ hrs
on Mon 12/1/88.

62 mullet (15-25 cm)
dead - c40 within 6 m of gates.

1 large ^(25-30 cm) ~~Thalassoma~~ dead
at gates (tail appears to be
sheared)

115 m & walked
this distance to count the 62 mullet.

Gage board reading is
- 0.19 m (1 ft) &

0740 hrs (measured with
a tape)

(logged oxygen. Water
surface has colorless
oily appearance and

16

Planning

Note that there are no
fresh water bubs of
any type in the area
where the dead fish are
(~~0-115~~ 0-115 m upstream)

There is a big flock of pelicans
roosting on the 2nd bend.
c. 400 m upstream.

I did not see at the end of
gully (near gauge) as
on previous visit.

No signs of large fresh water
system of the gully from

(17)

at least 100 m.

Sat Apr 2-2-30 pm

~~There~~ were no dead
fish at Wamap flaxfield
There.

5.53 back on log side
Start 5.50 pm

Mullet	Whitetail	Bream
# 2		
Pompano		
# 2		
150 on	rt hand	head.
# 4		
2, 1,		
	6.20 pm	back at job
161		

Pends

Rob Thomas

(20)

1-3 gates were designed
open — definitely the last
designs were not much

2 tone for the outboard
here at right for part
three and back to the sea

about Tenny. — Water Canyon
Paul Fitzgibbon & Stone —
(little bridge)

Also take some boards out.

~~Also take~~ take

about 100

about 100

Mullet	Brown	Whitehead
1		
100		
300		
76		
53		
7		
1		
538		
+1		

539

7 pm cc 300 Pkcs

1 Mullet to E end of long
cayshore island.

169

539

~~160~~

768 mullet + 2 brown

(22)

12/1/98 contd.

Many along shoreline
at 7.30 pm were
feeding - at fairly
high rate. No fish
at the gate or 100
m upstream (on
first survey back)

7.43 pm - 0.08 m
(measured)

in
4 dead mullet
(5-10 cm)

c50 small fish
in stream.

Homage eating flagellum
at 0635 hrs on

Tues 13/1/98

Two patches of pink 1m x 0.3m

off on E bank 4m from
gate. On bed, ^{has brown beds} white ^{supra} ~~supra~~

• 1 abd dead murelet at the
gate

• There were c20 LPC & 1

Great Kyrat at gate (on
broken on ^{high} ~~high~~ ^{green} side) when
I arrived.

36 m of continuous pink on E bank.

20 bright pink 0.3 m wide

66 discoloured " 0.2 m wide

pool in partial brown.

(24)

N-
Strong NW Heavy
onset light drizzle
at 0643 hrs.

Very early plantings
at 0648 hrs.

gauge reads - 0.08 m

Moderate - Strong N-NW wind

flung - Overcast.

- water slightly cloudy out.

- only 1 dead fish (old)
at site gate.

- "logged"
• "loggers" less extensive,

2 m wide along gates.

- bloom is dark dull greenish

brown. No fruit or

seeds. Some "vibrations"

on the surface.

• No grabat edown along
S beach system.

• 6 + spots feeding at
edge 200 m upshore.

• Trackers.

• slight grabat 10 cm
into dune edge in N bay.

• ~~water surface~~ (C → D m)
water surface negative signs

only. Also on dune side

side but there it is

patchy.

• many v. small fish (shady
side) and many small along

on dune side. Some

large snappers also - moving

along dune side of jetty

• some schools of fish

(26)

active 10 + on shore

L

O

O

last 3 pike
glacier (1 of last ship and
2 more). Much strong
NW wind

Approx 1245 - Heavily
on 13/1/88 - "profiler"
Chase eating channel
in front of Lenny
Bismar (VRC) banner
+ Choc.

(26)

Set out 10 + on shore

Liming Inlet north at
0710 - 0720 hrs

Open - water pouring
out a little quantity
lost. Took 3 full
plates (1 of land ships and
2 small). Mud - strong
NW wind

Approx 1245 - Heoo hrs
on 13/1/88 - "profiler"
Close to by channel
in front of Lening
Barrat (LRC) tower
& Choc.

1428 km on 13/1/9

Less 1000 km
- 0.08

1428 km - 1000 km = 428 km

These 428 km
Less 1000 km - 0.07 (2)
= 0.647 km on

Went 14/1/98.

Water meter replaced in
only. Water metering done
out.

Water meter replaced in
Mackay for 15+
in 1998.

(28)

(Myriads of)

Many very small fish (red
fishes as yesterday
morning) on bottom

side. Much getting
at surface for 0-10 m.
Many small sting also.

Clipped regions for 20 m
upstream on S side of
jetty 4 m in middle
& at N end (disjunct)

Some brown (green) on
surface 3 m upstream of jetty

Overcast. Some drizzle
0' right. Very light S wind

Some large fish schools
evident beneath surface
on upstream side (8 m +)

(29)

- Homings inlet mouth
at 0700 - 0710 hrs
- water flowing out strongly.
 - took 4 plank photos.
 - H₂S bubbling (still).

Homings estuary fluorometer gauge
reads ~~0.20~~ - 0.205
m (measured) at 0720
hrs on Wed 14/1/98.

- No wind to speak of (v.
light southerly).
- dried pond again to have
been cleared up.
 - No fish or any birds for
first 200 m. - then
gobies.

(30)

Bright

Prink "beetles bloom"

extends from 20 - 120

m upland on E bank,
up to 30 cm wide

Water upland of the
fluvial still has the
muddy greenness (plus
much heavy microphytes)

of previous days (at
least some muddy -
was it muddy before ??)

No sign of large fish
activity for at least
200 m upstream

A few ducks were in the
first 200 m.

Left at 0729 hr.

Warming of bay, floodgate
at 0635 hrs on
Th 15/1/98

- No fish along bank in first 200 m (except 1 LAC & gels)
- No signs of fish
- Water still has cloudy/milky appearance
- Light NW wind blowing, overcast.
- Immature (insect?) in the deepest regions on downstream side.
- No dead fish.
- Water trickling in
- Pink bacteria along E bank and also W bank. (shorelines)

(32)

• Much ~~very~~ macroalgae
(filamentous?) barbed up
on downstream side of phragmites
and under the road

bridge. It is decaying.
• Appears to have been barbed
up by the generally N winds
of recent ~~light~~ days/s.

It's decaying.

• Found an ACORN sample
bottle on E bank.

• Some cormorants nesting on
bank at 180 m. Still

clones + of phragmites nesting
on opposite bank further
upstream.

Same city phragmites

07 - 0.09 m AHH

(measured) at 0655 hrs
on Th 15/1/98

- Light N wind. Overcast.
- Clipped regrass extends
20 m upstream at S end,
15 m at middle and 3 m
at N end. (+ clipped)
- Blown in dull greenish
brown. Oiliness appears
restricted to first 25 metres
upstream and several metres
downstream.
- No flow through
(water levels even).

(34)

- oil & steam most evident at S end of phragmites on down-hill side - due to wind from N-NE
- Some green froth on top of clumped reeds.
- Many small ships & at least some small fish on down-hill side.
- Some signs of larger fish activity 5+ on up-hill.
- Greater side are gulls, osprey, musk duck, 2 Yb Sparrows.
- Tattlers, Cane Sparrows.

Whimpy Indica most at 0725 hrs -

Indica going out from the

(35)

cut a track to photos.
High tide last night completely
drowned the bar at the E end
to a width of 20 m.

Worms eating plankton
at ~~high~~ low tide 25/1/88
around 12 noon

Telled out by Terry Jinnel
(WRC) because large
numbers of mollusks were
schooling on exposed
sides of these planktonic.
Most were c. 10-20 cm long
some to 30 cm.

Some (10%) were at the
gates trying to get out

(36)

by coming into the water
looking down the jets -
80% were simply
feeding in the first
2-30 m upstream of
the jets. Water
becoming clearer & less
cloudy.

----- (daughter
& son in law of Elaine
Dunnett) stopped. Said
had seen this behavior
in previous summer. Not
aware of fish ever being
dead upstream of these
jets.

Wandering Tuleet mouth
 at 0705 hrs on
 15/1/98. Water
 running fast in the
 center. Light N.W. wind.
 Wave action 15-30 cm
 high.

Wandering using phlogopite
 at 7.20 pm

350 snail at 9
~~(from at the mouth)~~ of
 eleven gullies. Most
 are at the head of the
 gully. None in bays 9 + 10
 and only one at bay 11.
 All bays to get out.

(38)

* No prints at all along
E shoreline. Only
one spot (10 cm x 20 cm)
of prints on NW shoreline.

• Dingle started at ~~7~~
7:35 pm. I left.

Same day photographs
at 7:40 pm on
15/1/98

Hundreds of foot
prints to get out (swung
into water looking in)
at N end of photographs.
Some also at Bay 12.
Dingle.

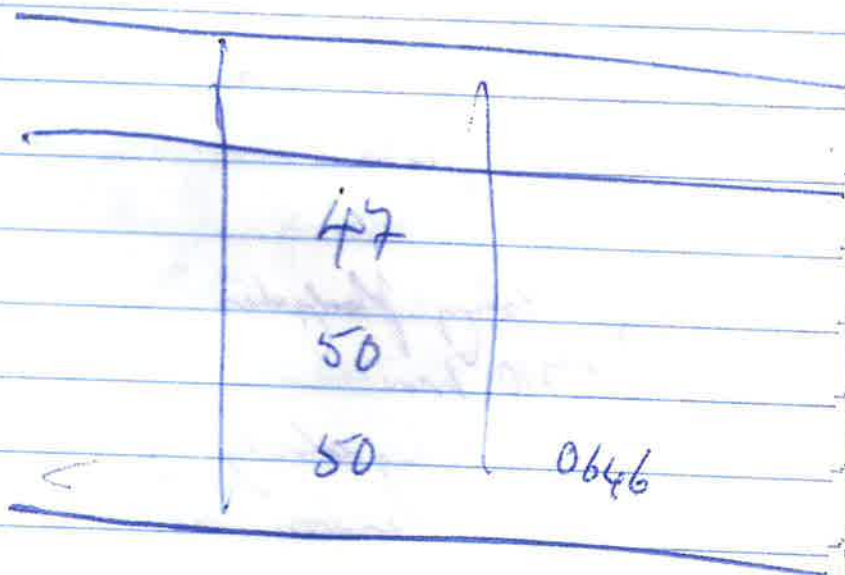
(39)

More heavy plunges
page 2 reads

— 0.08 m ~~at~~

(known) at 0640 hrs.

on Fri 16/1/98.



Strongly. Strong wind
I could not get at gates

(40)

Small fish & slugs on
darker side

Fishes & crabs on
upstream side.

Worms & fish on
a bar open, fish
going out. Took
2 fish photos.

Worms & fish photos
at 0710 hrs.

Water trickling slowly in.
Pike is in evidence on
the bank again.

No dead fish. No
fish molting at gages
or near gages.

16/1/98

Spence 1 pm look
photos of dead molluscs at

Water meadow

Very
plentiful

(41)

Spence using knowledge
at 0631 hrs Jan
Sat 17/1/98

More birds than I have
seen before on migration route
of phalaropes.

In front 200 m are

Pheasants - 5

76 Snipe - 5

Sooty - 1

Sib. - c40 (mostly 36)

PBB - c10

~~LBC~~ LBC - c5

Swan - 12 (incl. large groups)

Coot - 2

(42)

Moorhen - 2

Wf Hen - 4

Large Red Crane - 1

Small Duck - 1

LPC - 11 on platform

Duck - 1 pair + 1 nesting.

All except the LPC are
feeding.

The strong wind of yesterday
has stopped.

1 Goose + 2 Loon 5 years at
the pond.

No wind. Fine. Cool
from yesterday.

Baye ratio ≈ 0.075 in
(approx.)

Water building out.

Measure of small (1-2 cm)
fish ~~off~~ on down line scale
(0-5 m). Some small
along also. Elged
cells showing there are
very conspicuous.

• Begins on up line scale
from 0-1.5 m wide.
Blown is dull, dark,
greenish brown.

• Larger fish section
further down below.

Sege nests ≈ 0.075 m
(approx)

Water bubbling out.

Plugs of soil (1-2 cm)

from top on down to side
(0-5 m). Some soil

along also. Elyat

cells showing above are

very conspicuous.

Plugs on system side
from 0-1.5 m wide.

Blow is dull, dark,

greenish brown.

larger plug below

from the same bottom.

(44)

gals 4	34	0649 hr - thick fog
--------	----	------------------------

gals 7-8	34	thick fog
----------	----	-----------

gals 11	34	" "
---------	----	-----

0653 hr

Took one dead cow eel
from right side of gals

Winnipeg Inlet mouth
at 0705 - 0720 hr

Took gals 17, 18, 19, 20
(3 from top of mound)

- water flowing out.
- ^{notice} strong H₂S smell near old channel. Numerous

* bubble streams. These are turning the seawater milky.

Warming today. Temperature at 0730 hrs. V. slight bubble in. No fresh bubble in the water. Minute progress of water in channel is milky. Pink bacteria still constant along E bank.

(46)

Vase strong phosporic
at 0627 hrs on
Sun 18/1/98

Gauge reads - 0.09 m
M.H.

Hills, dunes, dunes
dunes, green
grass, Bushes,
W.P.H., S.W.,

Coast, University,
Common Sandpiper, T. H. H.

• Some large fish showing
evidence of the gills

• V. light SE damage.
Fish, Coal.

• Water brackish slowly out

- 1. Many small fish and some small shrimp on downstream side of gates
- 2. Bloom in shell, dark, greenish brown
- 3. Seagrass extends ~~to~~ 4 m upstream at S end, 3 m at middle and downstream 4 m at N end of phragmites (upstream side)
- 4. Some large fish actually 100 + m downstream of phragmites
- 5. Oby8 has ~~40~~ a 45 m rabbit jump about 10 times 40 m downstream of the phragmites

(48)

jumps were from 2-4
meters long and at
least 0.5 m high.

By splash!

c 50 mottlet (counted
48) (15-25 cm) swimming in stations

at water edge in N

bay (to north of playground)

seeking oxygen.

c 25% show signs of
change (trying to get
out)

4 dead mottlet - the
water in this small bay.

Also many (100's) of
small fish (2-4 cm) along
edge with the mullet.

3 large mullet swimming
slowly around just beneath
the surface 10-20 m²⁰ from
edge of the jetty.

2 fresh dead mullet at the
jetty (opposite side)

Took 6 dead mullet along
N shore (near 50 m) out
of water. Ranged in size
from 30-45 cm. 3 of the
6 had scales missing -
evidently trying to get out through
jetty

(50)

0740 hrs - Dene
and I watched a Black
Duck swallow a 20 cm
Mullet (yellow-eye) after
swimming for 20-30
secs while a gill net
to take it. Head
first - 1/2 body
out while swimming around.
- couldn't believe it
could swallow it
This was 25 m from
us with sun directly
behind.

(51)

Working looking for fossils
at 0745 hrs on Sunday 18/11/98

- Thousands of small
well rounded and - of water
(Estimated 3-4000)

- Look 64 ASA plates
to end of job.

- large amount - at
0805

↑
left at 0825

1
c 1/2 day had - water

foot still some strongly
when fractured
eg by Capricorn

(52)

0824. back at Vaseu
taking photographs - the
first at Vaseu edge
now about only 3-4.

0945 - 1010 net
with Peter Hunt (Edwin)
Mark Vaseu (A/Reginald Agn)
Time - of Work
Decided to open this
afternoon

1022 hrs Mouth of
Honey Inlet. South
end of cut is only
a few cms deep
Tide flowing in.

Planned to collect
 some Holothuridae at
~~1050~~ 1050 hrs - he
 said he would try to
 organize some Holothuridae.
 He was looking
 at my glasses.

Very early phryganeas

1225 just 9 dead
 mussels 2 under (1 from
 this morning)

• c4 10-15 cm mussels

abundant on surface.

• 1 shell nearly 20 cm mussels

• 1 pc etc c 20 cm mussels

(54)

Wings *estray* *plunged*

1. *gave* *nest* — 0.28 *in*
(*breast*) at 1245 *hr.*

1256-1257
1 *inc* — 150

1258-1259 — 140

1300-1301 — 110

1300 — 11 *hr* — 140

1320 ~ 21 — 30

22 ~ 23 — 70

24 ~ 25 — 0

Vase at King's College
was opened soon after
1 pm - probably around
1.20 pm (VZ)
on Sun 18/1/88

Having at King's College
been opened at ¹²³⁵ ~~1240~~ hrs.
(shortly before I reach
the gauge)

Vase at King's College reads
- 0.09 m (measured)
at ~~1.50~~ 1.50 pm. Water
is flowing out from the
single opened gate.
2 pm - small circle of

(56)

26 dead fish (25
mullet + 1?)

on upstream side of
Vance/Playholes cut along shore
of N bay at 2:08 pm

- c 10-15 fish still
caching 12 m upstream of
gate - over a
shadow? (light) patch.

2:09 pm water still
flowing out thru open gate
1 dead fish on downstream side
of open valve.

Peter Hunt broadcast
at the mouth of

(57)

Wings set at approx
1.50 pm & saw many
mullet swing out to sea

2.23 pm - water flowing
in then out in surges.
Saw a few dozen small
mullet swim out.

2.36 pm water flowing
out the Vase estuary plankton.

2.40 pm Wings ashing
plankton Water flowing in
is now milky.

(58)

2.42 - 2.43 — 0

2.44 - 2.45 pm — 0

2.46 - 2.47 pm — 0

Closed gate 2 (from W)

at 2.55 pm (this was

the only gate that had been opened - by

Water level at 2.57 pm. 20cm

to 0.225 m AHD

3 pm - only 1 small patch

(15 cm diameter) of ~~water~~

pink bacteria on E bank

(first 100 m)

Only c 10 fish (mostly ~~to~~ 10 cm)

dead in first 100 m of

Womans Intake:

3.14 pm water still flowing
out then Venice taking place.

Today 1 or 2 shipping
fish with it.

15 dead mullet (c 20-30 cm)

visible in whole of bay opposite

Estuary Dead Duck at 3.10

- 3.20 pm. From boat
on top of roof of outside,
with binoculars.

4.30 pm water still flowing

out of Venice taking.

Moderate to strong SW wind.

4.50 pm - platoon of birds

catching mullet with throw nets

(60)

5:00 pm Many eel
flourishes. $\approx 10^5$ mullet
at the gates in the incoming
stream (trickle through gates)
and ≈ 10 visible approx
3 on ~~the water~~ in stream
~~from~~ swimming strongly.

5:15 pm Later
flying out from cut
in weather at mouth
of Wharfedale Inlet.
Many hundreds to
low 1000s of mullet (?)
in the water at the
mouth, sitting around,
some flapping out of water.

(61)

56 dead fish - mostly
millet - ~~5-25~~ 5-25 cm
dead at ~~the~~ Vessel
along piling and along
shore of N bay at
5.30 pm.

5.45 pm - Estuary dead
Dove - ~~from~~ Red
increase in number of
dead fish - strong SW
wind.

(62)

Verse using gauge
reads -0.08 m
(measured) at 7.40 pm.
Strong SW wind, cool.

81 dead fish, mainly
mullet, along western
side of phragmites and
abundance of N bay
at 7.45 pm

Water still flowing out strongly
than open gate.

7.57 pm Warnings
phragmites - only
c. 15 mullet lying
to get out through gate

(63)

Water backing in. Muddles
are c 25cm long.

Wining Ilet mouth at
8.08 pm. Tide

flowing out thru the
cut. One ^{fresh} dead

35 cm muddlet at

western edge. Strong SW
wind.

8.52 pm Water still
flowing out - now slowly -
thru the cut in the sand bar

9.01 pm Water still
flowing strongly out thru
open Vase & long gate.

(64)

Very strong fog at
0618 hrs on Mon 19/1/98

Many birds in forest 200 m
upstream.

Great Egret - 9, W. Heron - 6,
S. Gl - 30 Swan - 3
P. B. D. - 30 Coot - 5

Sec I - 1 Bushy - 2
LPC - c20 roosting Msd - 3
LBC - c10 roosting

(measured)
Gauge reads ~ 0.12 m A
and at 0626 hrs

Fine. Light S wind.
Coast still open (opened
yesterday and all four

Boats removed - gate 8
from S end)

Water flowing out strongly

- Bloom on upriver side is
dull greenish brown.

- Some strong & some weak
fish visible on downstream
side - difficult to see
because bloom on upriver
side is now ^{on} on downstream
side due to opening of gate
& release of water.

- 88 dead mullet (5-35 cm)

upriver side of gate & fresh

~~20~~ 20 m of S bank &

shoreline of N bay. at

0639 hrs.

(66)

- 5 dead fish (mullet 10-20 cm)
on shoreline (first 25 m)
downstream of pumphouse (~~and~~ on
N side)
- 3 dead mullet (10-40 cm)
immediately downstream of the
pumphouse
- None on S shore downstream
as far as I can see with naked
eye.
- None further downstream on
N shore as far as I can see

Sept 4	36 cm	0646 hrs In Angpie
Sept 7-8	37 cm	No Angpie
Sept 11	37 cm	0650 No Angpie

- Slight traces of evidence in places immediately upstream of gales.
 - Seagrass now extends only 3 m upriver at S end, 0 m at middle and 1 m at N end.
 - Slight stirring and none only visible at N end of gales on upstream side.
 - No sign of fish activity upstream of the gales ~~from~~ (incl. no straggling fish).
 - No sign of large fish activity downstream of the gales.
- Left at 0656 hours.

0705 - 0715 hrs on
Mon 19/1/88 at mouth of

Womans Inlet. Tide

flowing out. Water colour

approaches that of clear

estuary water and no ~~strong~~
doubt is.

Four dead mullet (30-40cm)

of which I had scales

missing from head.

- Tide flowing out.

- Took photos 0-3 (ie 4
plates - prints) of cat. (New
film)

(69)

Wameys Bay gage

Reads - 0.24 m

at 0739 hrs on 19/1

There were 22 dead mullet

~~22~~ (16 along E shore
1 in channel and 5 at gates)
from 10-35 cm long.

of M. Porbeagle - Strong SE wind
blowing at 0741 hrs.

Wetbed 100 m of E shore.
None seen elsewhere (most
broods but into the sea.)

No large fish clearly upstream
or at the gates.

(70)

Estuary View Shore at 0752 hrs
18 dead fish counted
(from sitting in rubble) in
NW part of bay. None
elsewhere.

Some estuary phryganea
reads — 0.105 in 7445
at 1115 hrs on 19/1/98
Water still flowing out
strongly thru open gate.
No fish strongly upstream.

Boated up from estuary channel
with Terry Bennett — properly.
— found some dead fish.
— met David Hunt.

(71)

110 on N bank
47 on S bank

Number of mallet counted
on both banks (east & west in
the water) on way back from
Basil Hanks' house to floodgates
arriving at 1238 hrs

(stop took approx 5 mins)
Back at the gate

22

53

75

32

110

47

75

232

dead mullet

1258 hrs - water still
flowing out thru gauge

Water level (gauge ready)

is - 0.11 m AHD (measured)
at 1.06 pm.

1.15 pm at Womersley
flats. No more dead
fish (ie no additional)

Only 1 ~~school~~ school of
c10-15 mudlet visible
upstream of the gates
(Honnings)

1.55 pm mouth of
Honnings Culet. Water
flowing very slowly in.
Strand marks along beach
suggests tide has just
turned and is now ebbing

Tenny Browder
018 300 153

74

① 2.50 pm - 2.55 pm

26 dead. from floodgates
to Bird Islands

② 3.05 pm - 3.11 pm

23 dead - (5 birds from
Hards to Esting View Dam (level)

③ 3.12 - 3.16

33 dead (N birds
from Esting View
Dam to Hards)

④ 3.16 - 3.22 pm

137 dead (N birds
from Hards to floodgates)

⑤

3.26 pm / Gently!
- water is
flowing in to Vase
estuary through open gate.

It was flowing out (very
gently) at 2.45 pm!

This is the first flow
in since the gate was
opened yesterday!

The water flowing in
is the same colour as
the estuary water.

Vase estuary floodgate gauge
reads $\checkmark$ - 0.12 m AAD

at 3.29 pm - Breeze ^{moderate}
has dropped - It was light S.

(76)

25 ~~dead~~ dead mullet
at Rose using flange and
20 m along S shore.

9 dead mullet ~~removed~~
along shoreline of N bay

3.35 pm water is now
flowing out from the
open gate!

25 + 9 = 34

Before we removed fish

there were 75 $\Rightarrow$ 41
were removed.

1233 - 1238 hrs

19/1/98 Contd.

2.50 pm - 3.22 pm

(77)

75

75

} Plongelies

110

137

} Plongelies
to Herts

47

26

232

238

+ 23

+ 33

} upstream of
Herts

294

Summary

① 232 → 238 suggests no
more fish have died between
~~12.38~~ 12.38 pm and 3.22 pm

② Total dead fish (most died
yesterday) from Plongelies
to Roding View Dye (level
work) is 294 ≈ c300
mullet - mostly 25-40 cm

(78)

4.03 pm water is
flowing in thru open
gate (Vasee floodgates).

7.54 pm — Little
flowing slowly in
thru cut in sand
bar at mouth of
Homage Inlet.

Vasee estuary floodgates at
8.02 pm on 19/1/98
Water flowing out thru open
gate. Gauge reading
is approx — 0.12 m
AHD.

19/1/98

(79)

Womans estuary floodgates
at 8.10 pm. Some
water leaking in.
c 5 mallet ~~bars~~ (20-30
cm) milking around in
water leaking in (at gate).
No other water proof seen.

Womans estuary floodgate gauge
reads 0.13 m AOD
at 0637 hrs on Tues
20/1/98

Water flowing out from
single open gate
Light - moderate SE wind
blowing.

(80)

gate 4	33cm	0639 hrs.
gate 7-8	35cm	
gate 11	33cm	0642 hrs.

33 dead mullet at the
flapjacks - none on first
20m of S shore.

28 dead along shoreline of N
bay.

Total = 61 dead
mullet at 0648 hrs.

These ~~are~~ are probably
~~the~~ 24-48+ hrs dead

- eyes missing, bloated, disintegrating

(81)

Agel bloom on agave now
is deep dark shelly green
brown!

No sign of fruit already apparent.

Water streamer is same color.

No sign of fruit already
streamer.

Sequias (clipped) now
only at S end of *Agave*
(4m radius from gorge)

0654 hrs - breeze now light
SW!

Mouth of Honey Creek at 0709

hrs on 20/1/88 - water

flowing out then in. Water

(82)

Less the colour samples to
that of these eating water
(brown)

Took photos ^{NOS} 4-9 (prints)
(N^o 4 of house; 5-8 from
top of pile; 9 from
grassy knoll)

Expt 27 (15 minutes)
12 with guest

USC - c50

WfH - 7 S. Gl - c50

SecE - 2 - YSquad - 1

Feeding & Warnings Expt
blue it up to E to Warnings
eating & went to Warnings
eating 0715 - 0720 hrs

⁶⁴
Took several ASA photos of egret
→ Wading egret

(83)

Wading egret phalaropes
- 0026 in (HHS)

at 0735 hrs on
Tues 20/1/98

Modest SE wind.

24 - dead muller on 100 m of shore

4 - " " at phalaropes

33 - Total at Wading egret
phalaropes area

at 0736 - 0741 hrs

There have been about 24 +
hrs (some again found)

V. Slight trickle of water in
the pond running near gates.

(84)

450 on E bank of Vase
along 2nd N of Webster Rd.

110 ~ ~ ~ to S
of Webster Road

3rd on opposite (W) side
of Vase along

Vase along road from
top of bank on top of vehicle
at end of Webster Rd at

0745 - 0755 hrs on

Thurs 20/1/88.

End of Tulliver Rd

at 0759 hrs on 20/1/88

No more dead fish than
counted by boat yesterday

9.32

Paul Fitzgerald

041 794 5706

John Moran

041 792 8714

2.30 pm - water flowing
is reasonably strongly there
over gate (less flow than
before at 4.42 pm (has
been flowing in continuously
over this period)

Strong SW wind at 4.43 pm

Worms eating phytolites

at 7.47 pm on
 Tues 20/1/98. Water
 breaking in gently.
 No fish seen.

Wed 21/1/88

Leaving the Dive at 0620
 - 0625 hrs. Sounded the
 bug from reef with boundaries.

67 dead fish - appear to
 be all mullus - washed
 in surface water.

↑
 no signs of fish
 (ie healthy or struggling).

The same 67 dead fish appear
 to have been dead some time.

(88)

Vase along plankton
reach — 0.75 m AHD
at 0651 hrs on 21/1/99
Water flowing out.
Light SW wind & Fine

July 4	30cm	0651
July 7-8	35cm	
July 11	31cm	0653

25 dead mallet at the
jets and 20 on along S of
bar. 36 along structure
of N bay

Lee of 29 + 36 = 65
(at 065-8 km)

Blow is deep dark
slightly yellowish brown. Some
scurry - volume on
surface.

Some small (1-2 m) fish
on downline side - No
change.

No sign of large fish activity
upstream of the gusher.

→ Tattle.

on downline.

(90)

0705 hrs - Mouth of
Winnipeg Trench - water
flowing out shore out on
sand bar. Water
less colour of Vase water
water.

Winnipeg water / Phragmites
grey mud - 0.265 m
(measured) at 0715
hrs on 27/1/98.

Some put along shore
(10 m) of E shore.

22 dead fish (all) on E bank
8 " " " " " " " " " " " "

30

91

No sign of any
mushrooms of J. etc.
6 seen - just 100
m. mushrooms. No other
books

2 boards put into
guttering (these using plywood)
between 8.30 am and
9.30 am on Wed 21/1/88

These being cloudy this at
1.15 pm the water
level (pagei reading) is
- 0.135 m from

Water is building out slowly

92

The water level on the
estuary side is approx
8" (20 cm) below top of
the 2 boards installed this
morning. The top board is
about 21 cm high so
if it ~~with~~ is only rising
a max of 1 cm of water
in the estuary and will keep
out approx 20-21 cm of
high tide inflow. Ideally
need a board of 0.10 -
0.135 m = 0.035 m

& 3.5 cm high board.
(i.e. $1\frac{3}{8}$ inch high board)
Any board ~~less~~ between
3.5 cm and 20 cm would
be better than present

observation

1.27 pm water flowing
steadily in the cut in
sandbar at mouth of
Hammings inlet.

5.52 pm Vasea using
photograph - water level is
same on both sides. It
is approx 1 cm above bottom
of top (second) band in the
open gateway.

5.58 pm - water flowing
steadily in the cut in sand
bar.

(94)

6.08 pm on 21/1/88

- water level in the
Wannas along flange
No sign of ~~low~~ fish activity

6.15 pm - water level
still even on either side
of the Vasse along
flange

Vasse along flange gauge
at 0715 hrs on 22/1/88
reads

- 0.15 m AHD

Need a 4 x 2"

(from the
5m)

22/1/98

(95)

July 4	31 cm	0720 hr
7-8	31 cm	
11	31 cm	0723 hr

Let's start freshwater now

No wind Fine

No more dead fish

No sign of large fish coming

upstream or down

Water breaking (breaking) out

Plankton of Young Inlet at

0735 hr - glaucous ~~10-13~~ 10-13

- strong gilly out

Worms eating plankton

near

- 0.265 m/s or 3.01 hr