

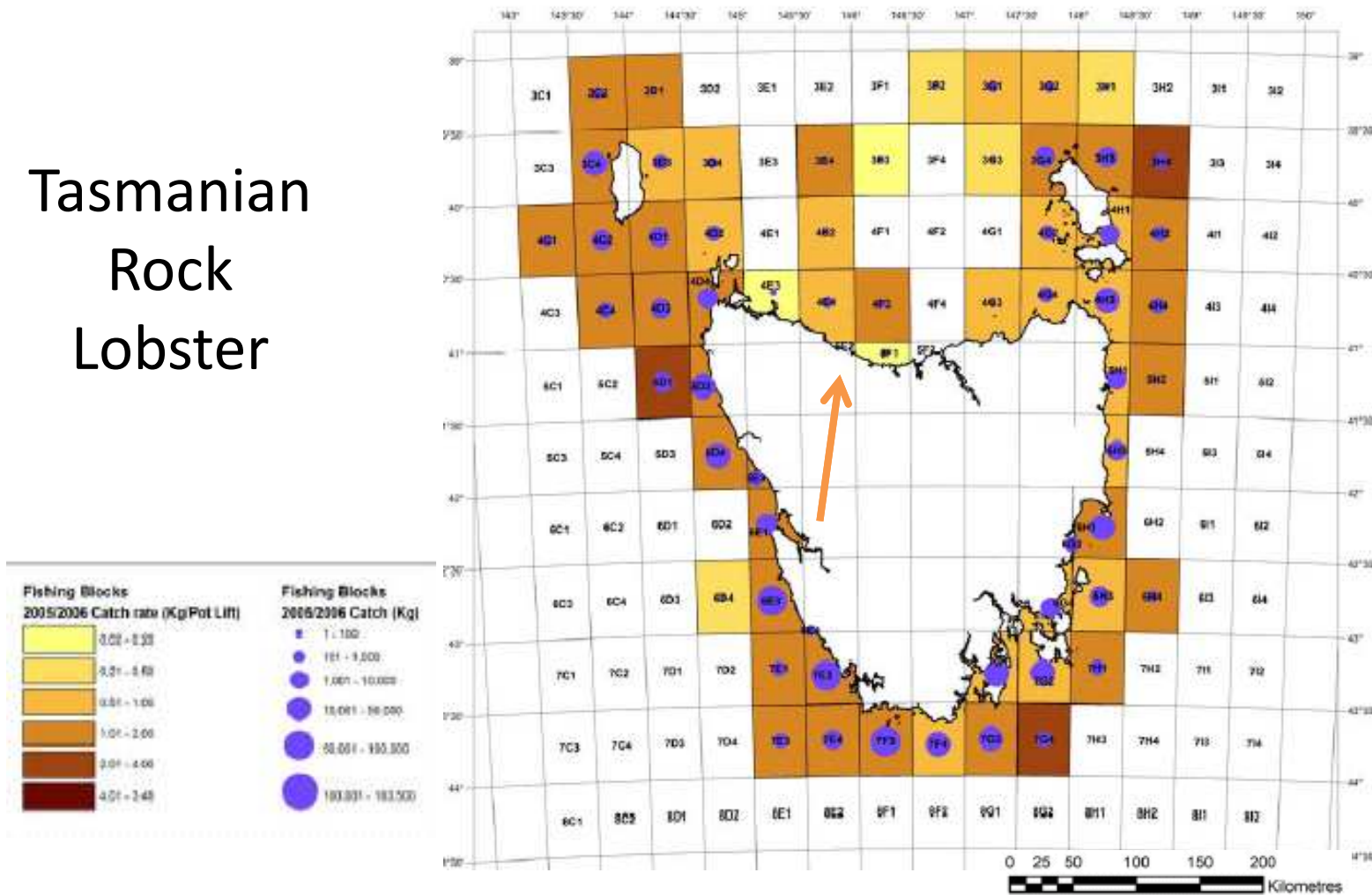


# Commercial Fisheries

# Commercial Catch 2005/06

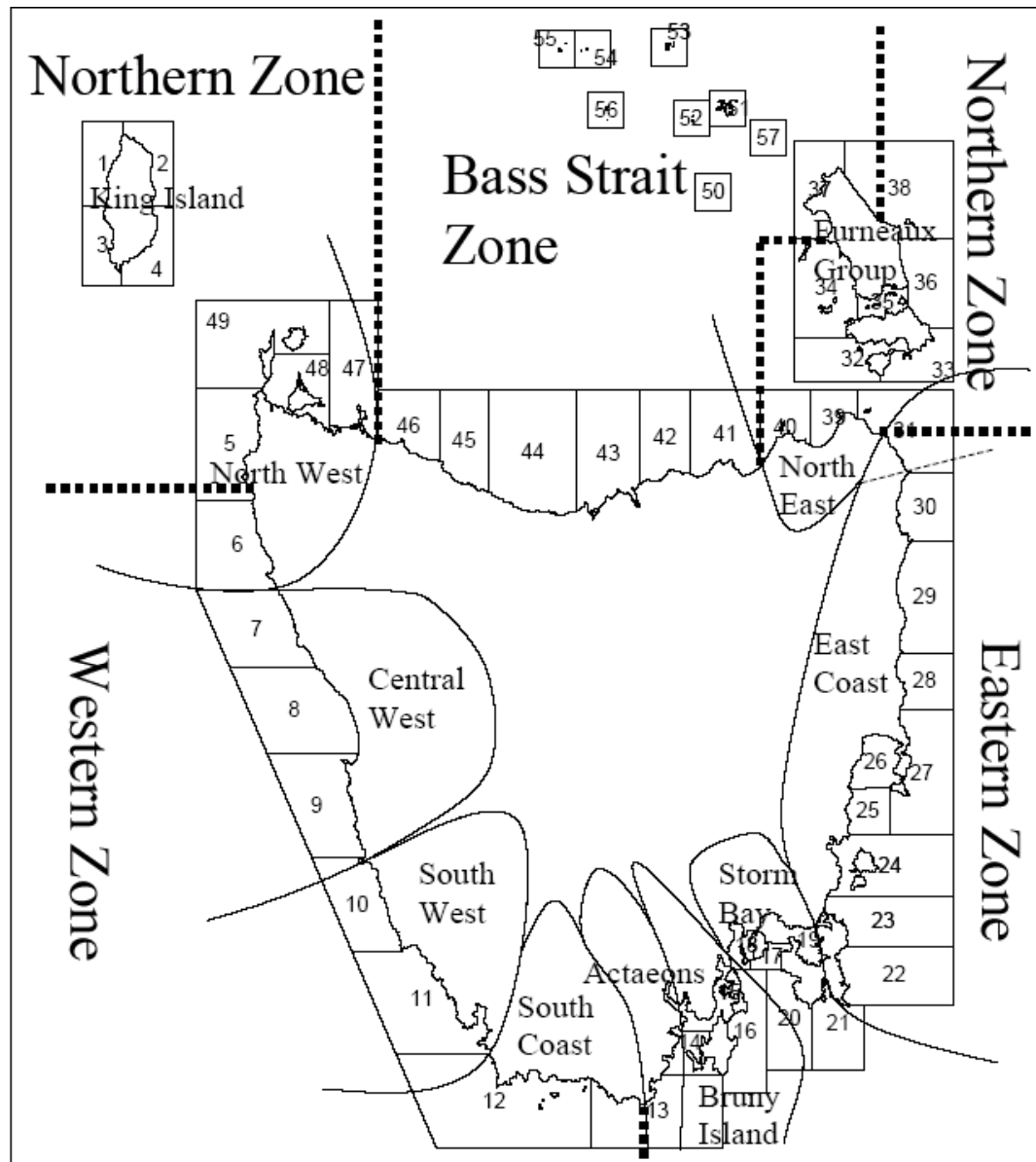
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## Tasmanian Rock Lobster



The Tasmanian Aquaculture & Fisheries Institute provide statistics on fish catch, they use statistical blocks as shown to report based on returns from fishers  
The blue dots show how much, the colour how easy, note zero catch vicinity of outfall

Source: TAFI [http://www.utas.edu.au/tafi/PDF\\_files/RL\\_Assess\\_0506\\_FINAL\\_cover.pdf](http://www.utas.edu.au/tafi/PDF_files/RL_Assess_0506_FINAL_cover.pdf)



Abalone slightly different reporting, note Bass Strait zone and blocks around the islands And along coast. Block 42 (about 50km x 50 km is the effluent out fall

Source TAFI  
[http://www.utas.edu.au/tafi/PDF\\_files/AbaloneStockAssessment2005.pdf](http://www.utas.edu.au/tafi/PDF_files/AbaloneStockAssessment2005.pdf)

CATCH Levels  
1975 to 2005

| Year | 37 | 38 | 41 | 42 | 43 | 44 | 45 | 46 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | Total |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| 1975 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     |
| 1976 | 0  |    | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1     |
| 1977 | 1  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1     |
| 1978 | 0  |    | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1     |
| 1979 | 1  |    | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4     |
| 1980 | 1  |    | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1     |
| 1981 | 2  |    | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3     |
| 1982 | 1  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1     |
| 1983 | 1  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1     |
| 1984 | 0  |    | 0  | 0  | 1  | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 5     |
| 1985 | 0  |    | 2  | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4     |
| 1986 | 1  |    | 1  | 0  | 4  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 8     |
| 1987 | 2  |    | 2  | 0  | 8  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 14    |
| 1988 | 0  |    | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4     |
| 1989 | 8  |    | 19 | 11 | 34 | 1  | 5  | 14 | 0  | 24 | 0  | 41 | 4  | 0  | 6  | 0  | 167   |
| 1990 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1     |
| 1991 | 17 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 14 | 5  | 28 | 1  | 0  | 17 | 15 | 96    |
| 1992 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1     |
| 1993 | 19 |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 21 | 4  | 37 | 1  | 0  | 6  | 8  | 95    |
| 1994 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     |
| 1995 | 52 |    | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 46 | 2  | 44 | 0  | 0  | 0  | 5  | 149   |
| 1996 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     |
| 1997 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     |
| 1998 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     |
| 1999 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     |
| 2000 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     |
| 2001 | 0  |    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2  | 2     |
| 2002 | 0  |    | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2     |
| 2003 | 6  | 0  | 1  | 2  | 2  | 0  | 0  | 2  | 0  | 7  | 2  | 36 | 2  | 0  | 7  | 2  | 70    |
| 2004 | 3  | 0  | 4  | 4  | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 42 | 5  | 2  | 7  | 0  | 70    |
| 2005 | 6  | 0  | 4  | 1  | 2  | 0  | 0  | 0  | 0  | 8  | 0  | 35 | 5  | 3  | 3  | 0  | 69    |
| mean | 4  | 0  | 1  | 1  | 2  | 0  | 0  | 1  | 0  | 4  | 0  | 8  | 1  | 0  | 1  | 1  | 25    |

Source TAFI  
[http://www.utas.edu.au/tafi/PDF\\_files/AbaloneStockAssesment2005.pdf](http://www.utas.edu.au/tafi/PDF_files/AbaloneStockAssesment2005.pdf)

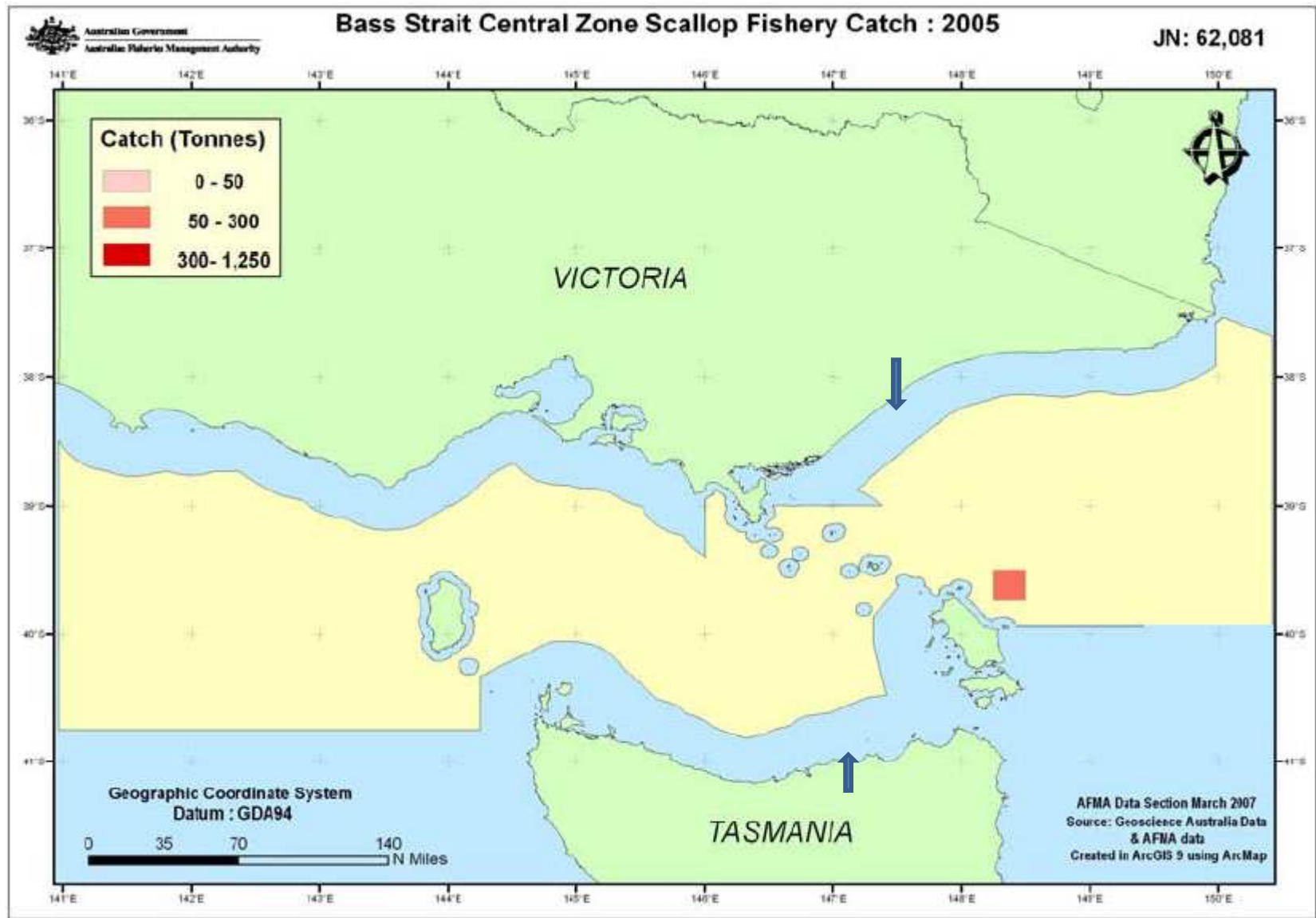
The last thirty years the average near the effluent is one tonne a year (block 42) but can't tell how close. The island are the heaviest fished.

# TASMANIAN ABALONE FISHERY 2005

Blacklip 2,379.682t

Greenlip 122.514t

Bass Strait Blacklip 70.0t

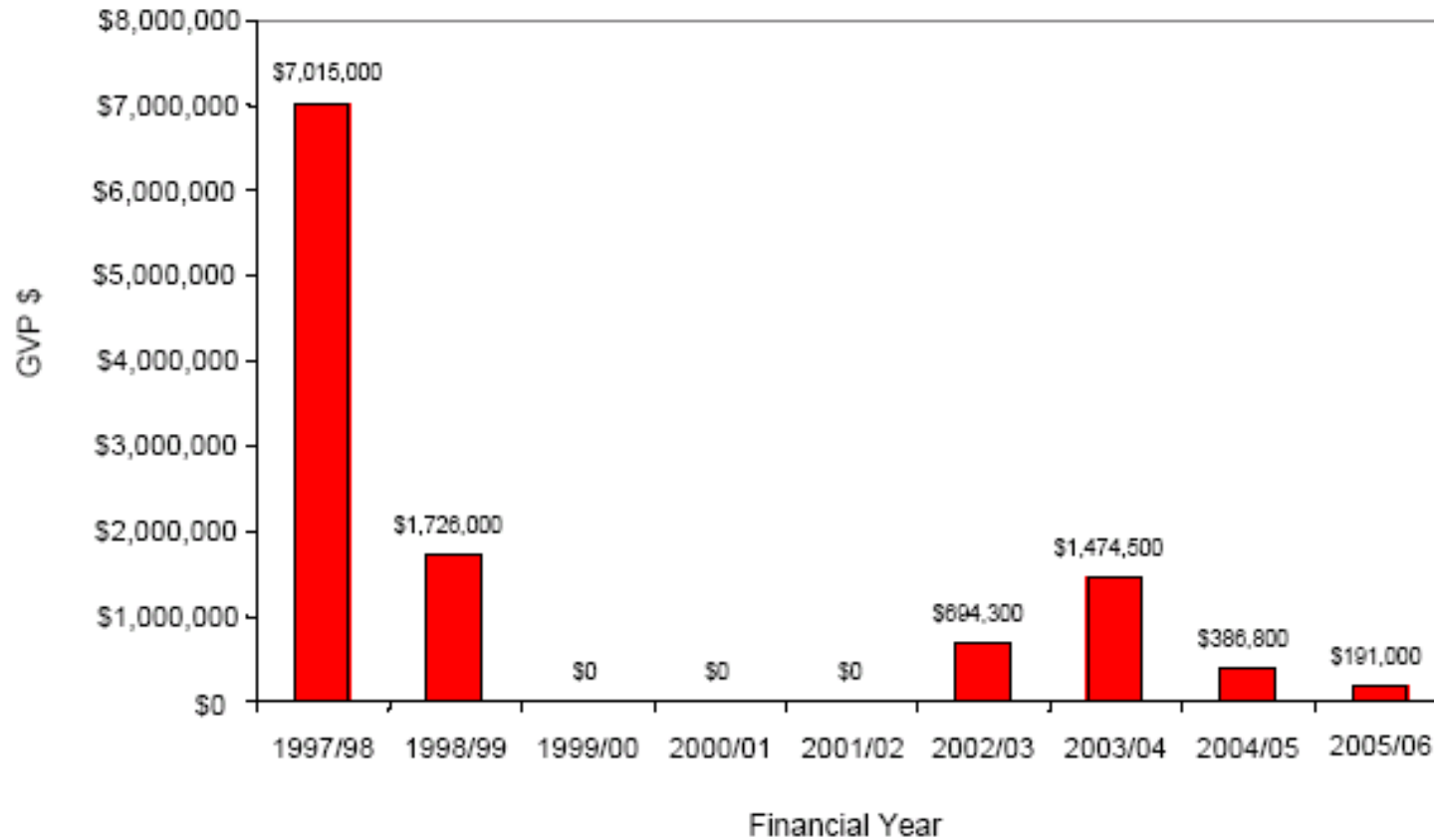


This is the Commonwealth scallop fishery, note the location of the catch and the two treated effluent outfalls

Source: AFMA BSCZSF Data Summary 2006 [http://www.afma.gov.au/information/publications/fishery/data\\_summ/docs/bass\\_2006.pdf](http://www.afma.gov.au/information/publications/fishery/data_summ/docs/bass_2006.pdf)

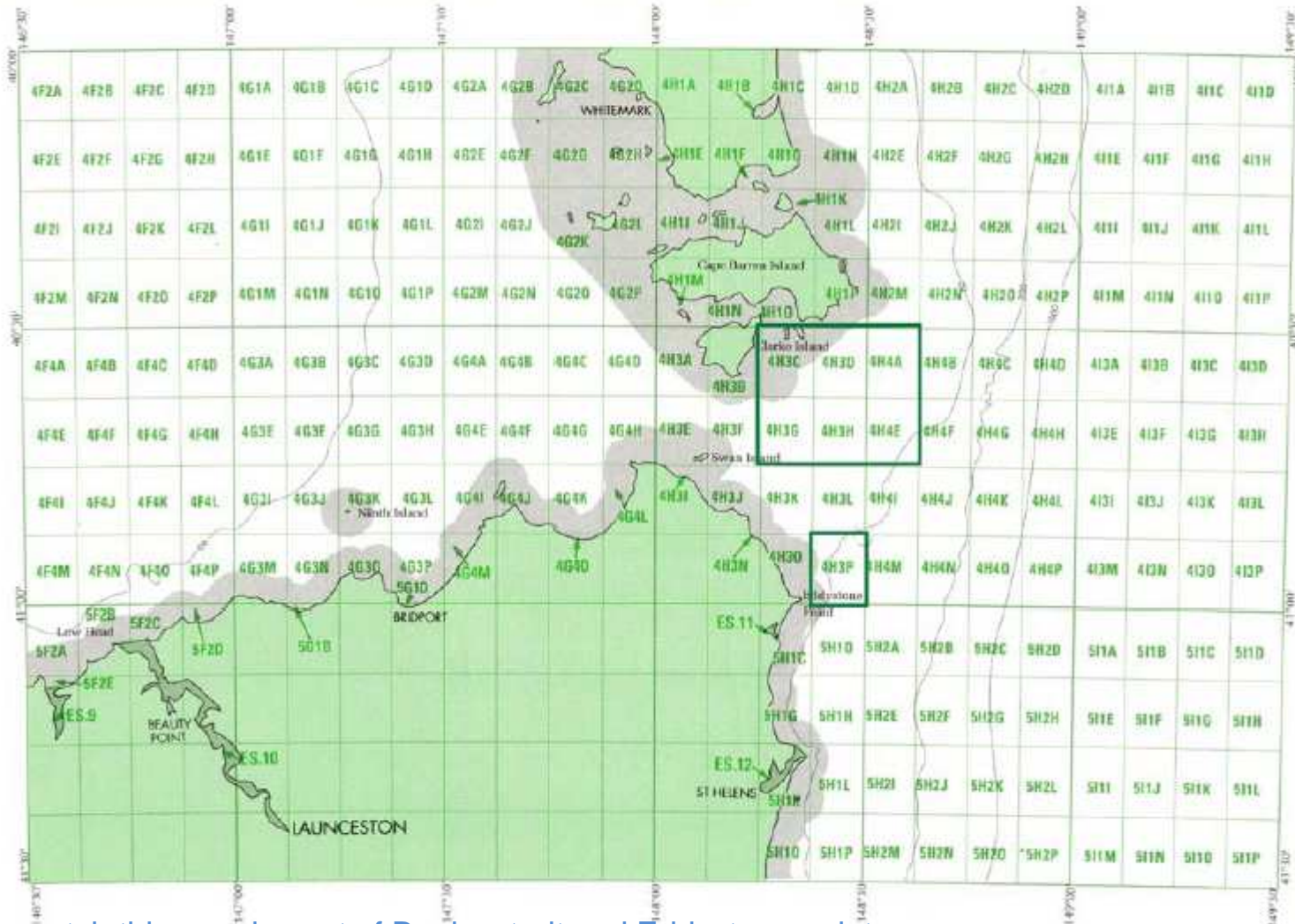
Source: Location of Victorian Outfall Gippsland Water, Map:

## Commonwealth Bass Strait Scallop Fishery



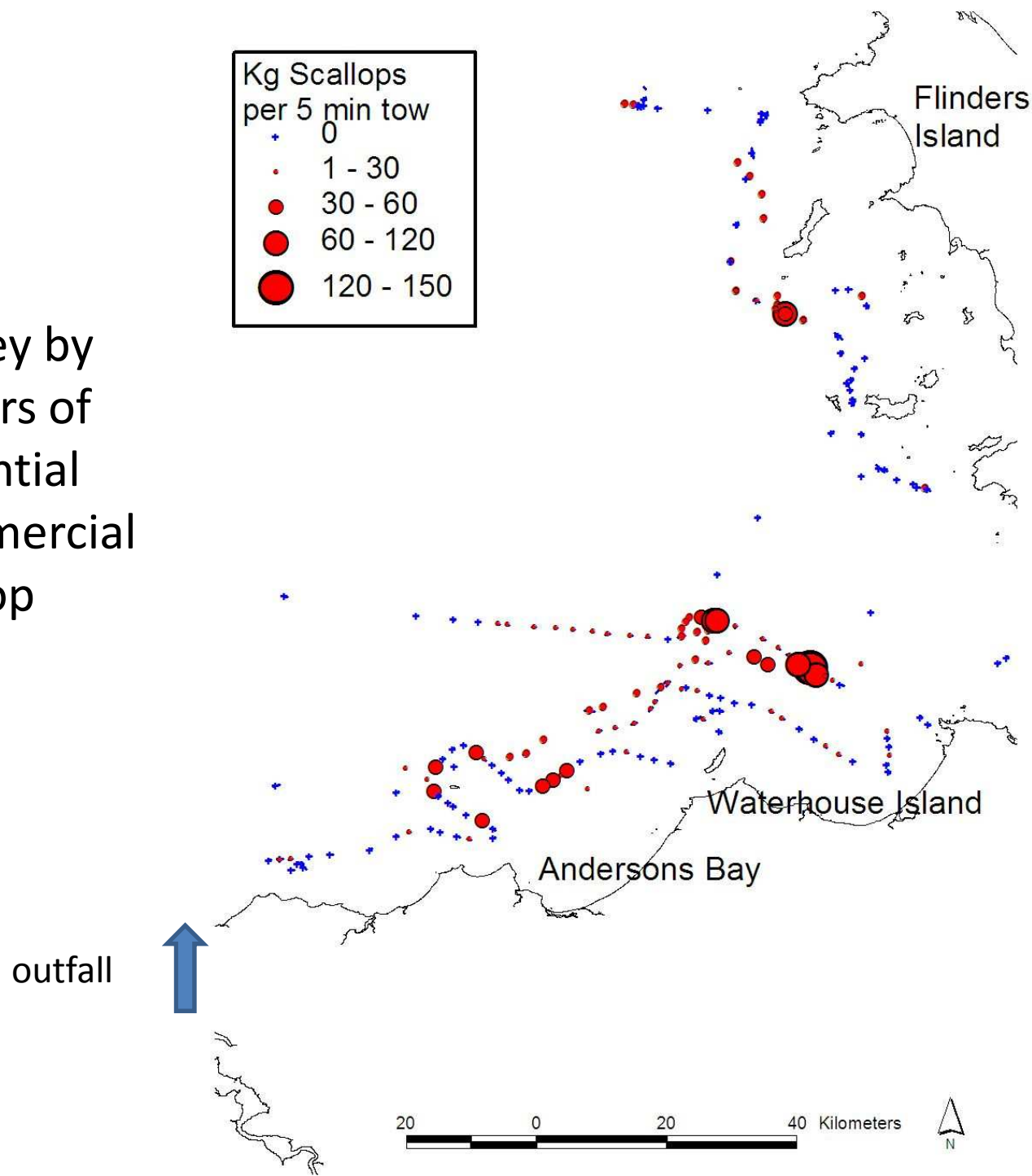
The fishery was closed due to over fishing from 1999/00 to 2001/02

# 2007 Tasmanian Scallop Fishery



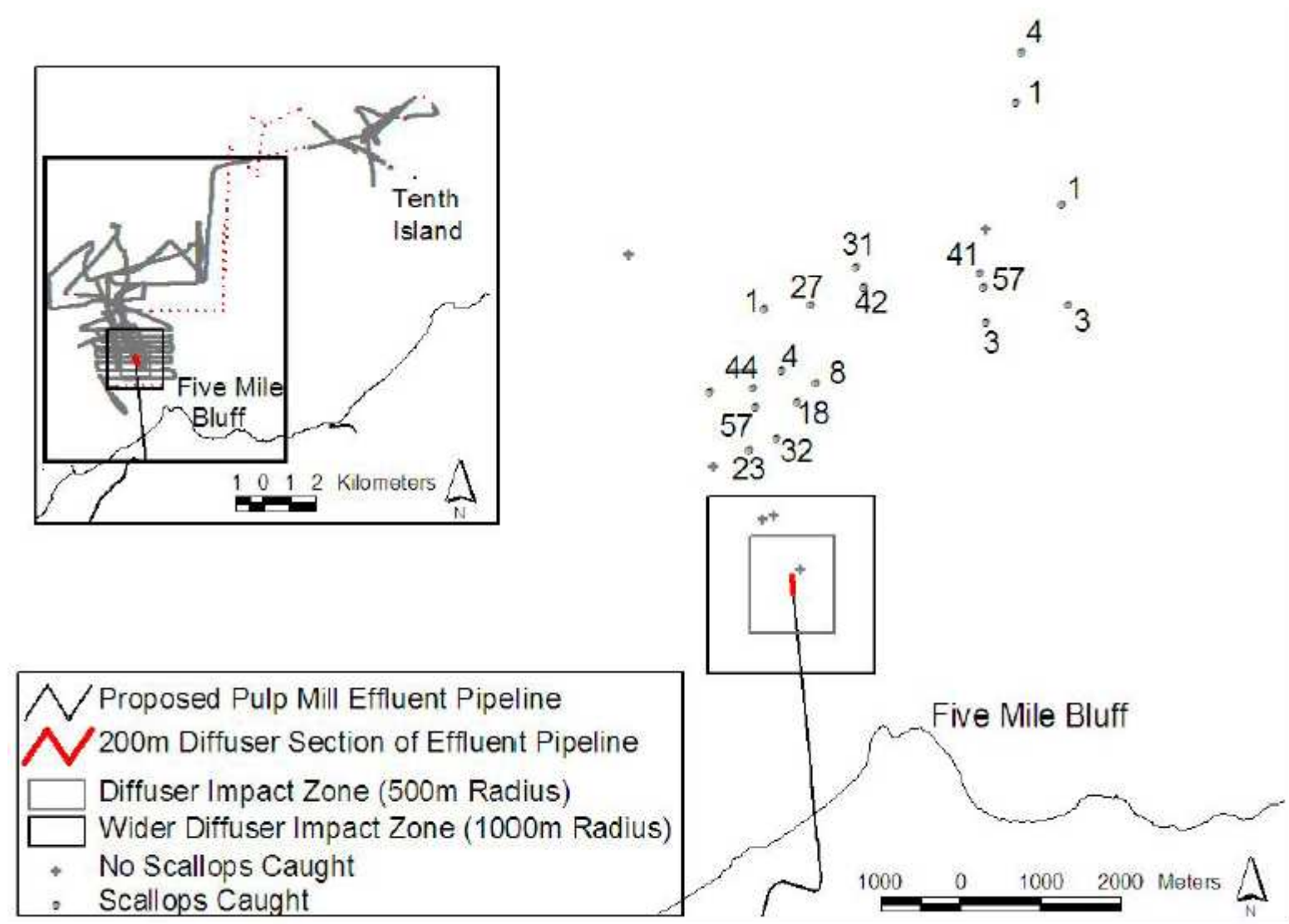
The catch this year is east of Banks strait and Eddystone point, there has been no catch in Bass Strait since before the fishery Closed due to overfishing in 1998/99

2005  
Survey by  
Fishers of  
potential  
commercial  
scallop  
beds



Source: TAFI 2006,  
Current knowledge  
of the  
Tasmanian Scallop  
Resource  
Industry Survey  
Data  
June 2005 to  
December 2005  
Julian Harrington,  
Malcolm Haddon,  
Jayson Semmens  
University of  
Tasmania

## LATEST SURVEY FOR SCALLOPS NEAR OUTFALL



Report specifically undertaken to check but found no commercial scallop beds, confirms previous surveys

Source TAFI 2007 SCALLOP DREDGE SURVEY WITHIN THE VICINITY OF THE PROPOSED BELL BAY PULP-MILL EFFLUENT PIPELINE DIFFUSER Jayson Semmens and Julian Harrington July 2007

# FINDINGS

A total of 22 sample tows were conducted within the region between 1.6km and 5.7km north of the proposed diffuser

Low densities (<60 scallops/5 minute tow) of scallops were caught within these sample tows over an area of approximately 3.5km x 1km.

The majority (88%) of scallops caught within this region were smaller than the legal minimum size for commercial scallops (<90mm) .

A range of substrate types that were not suitable for scallops and/or dredging, were observed within this search region, on both the vessel sounder and within sample dredge tows :

- 1) Large hard (rocky) outcrops of up to 5 meters in height.
- 2) Low profile hard bottom, characterised by flat rocks.
- 3) Regions covered with small hard rocks (15 – 20cm diameter).

Given the low densities of predominately undersize scallops observed within this area, this region could not currently be fished commercially, and as such could not be described as a productive scallop bed.

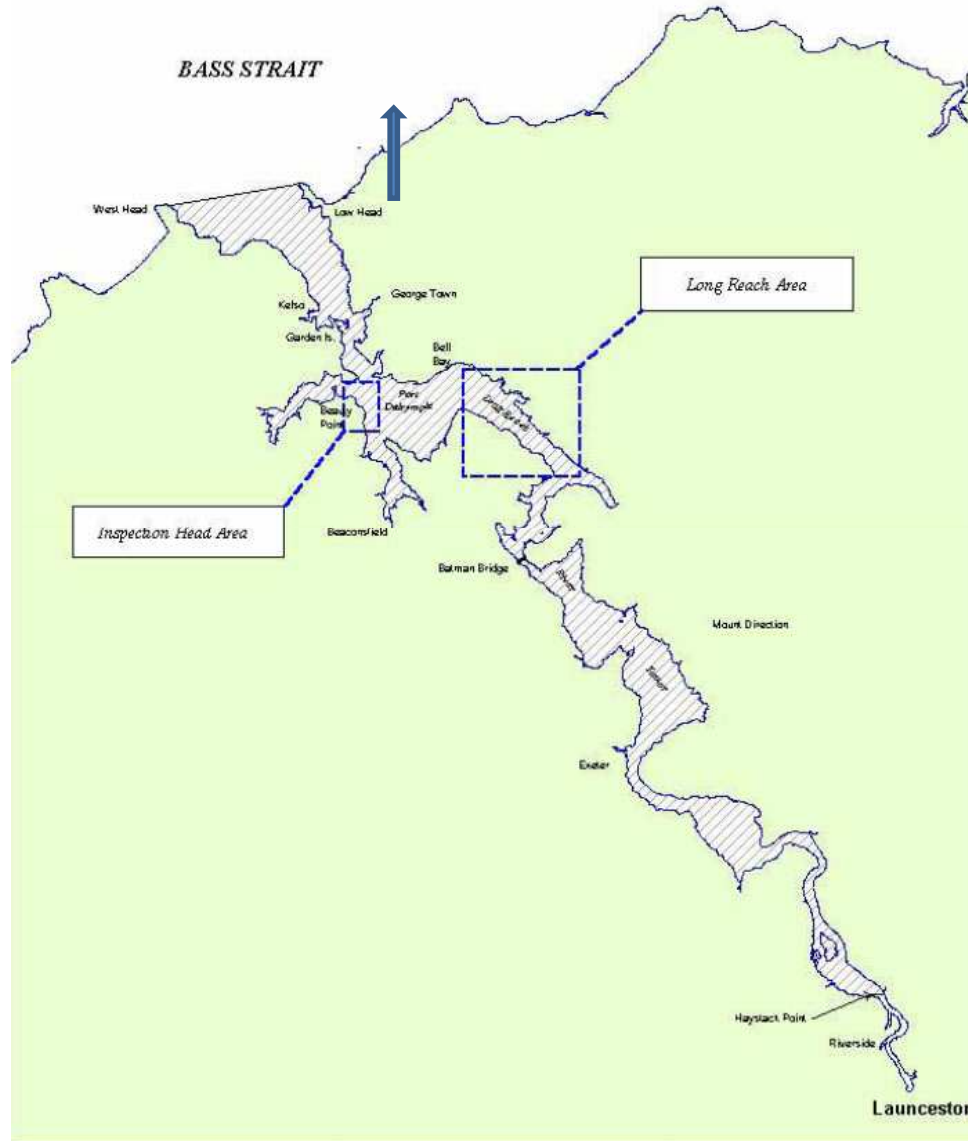
Given the large areas of unsuitable scallop habitat, it is also unlikely that this area will, on its own, ever support a commercial scallop bed.



Map 1.1 - Area Covered by the Tamar Estuary Marine Farming Development Plan

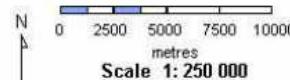
DEPARTMENT of PRIMARY INDUSTRIES, WATER and ENVIRONMENT

AQUA - CULTURE NEAR OUTFALL



No fish farms near 5 Mile Bluff, only opposite the mill in the Tamar

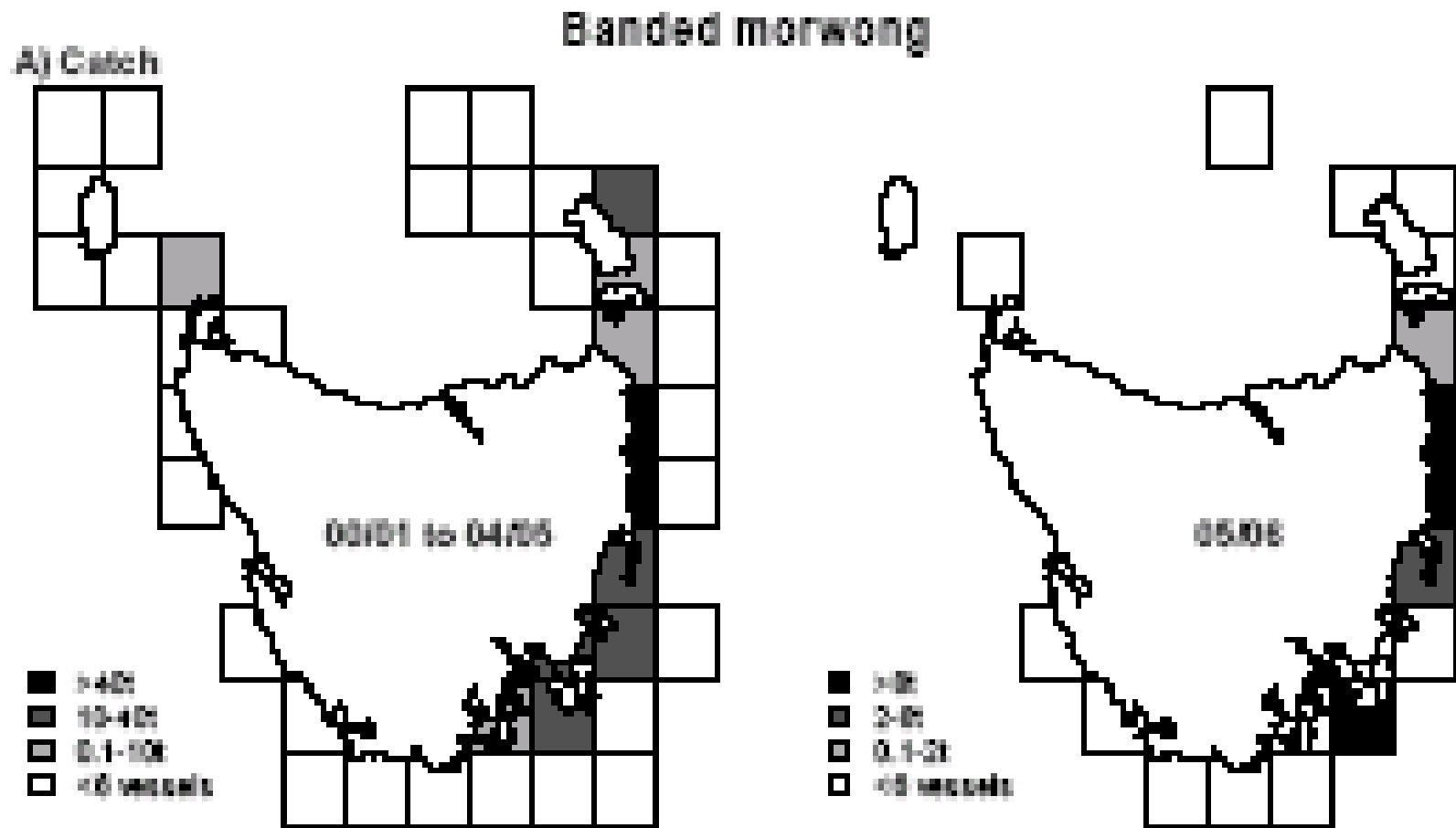
1 centimetre represents 2500 metres  
Horizontal Datum : Australian Geodetic Datum, 1966  
Australian Map Grid (AMG) Zone 56  
Horizontal accuracy: coastline detail is within 12.5 metres of true position



| Legend  |  |
|---|--|
| Area covered by the Marine Farming Development Plan |  |
| Study area  |  |

Source DPIW Marine Farming Development Plan Tamar Estuary July 2000

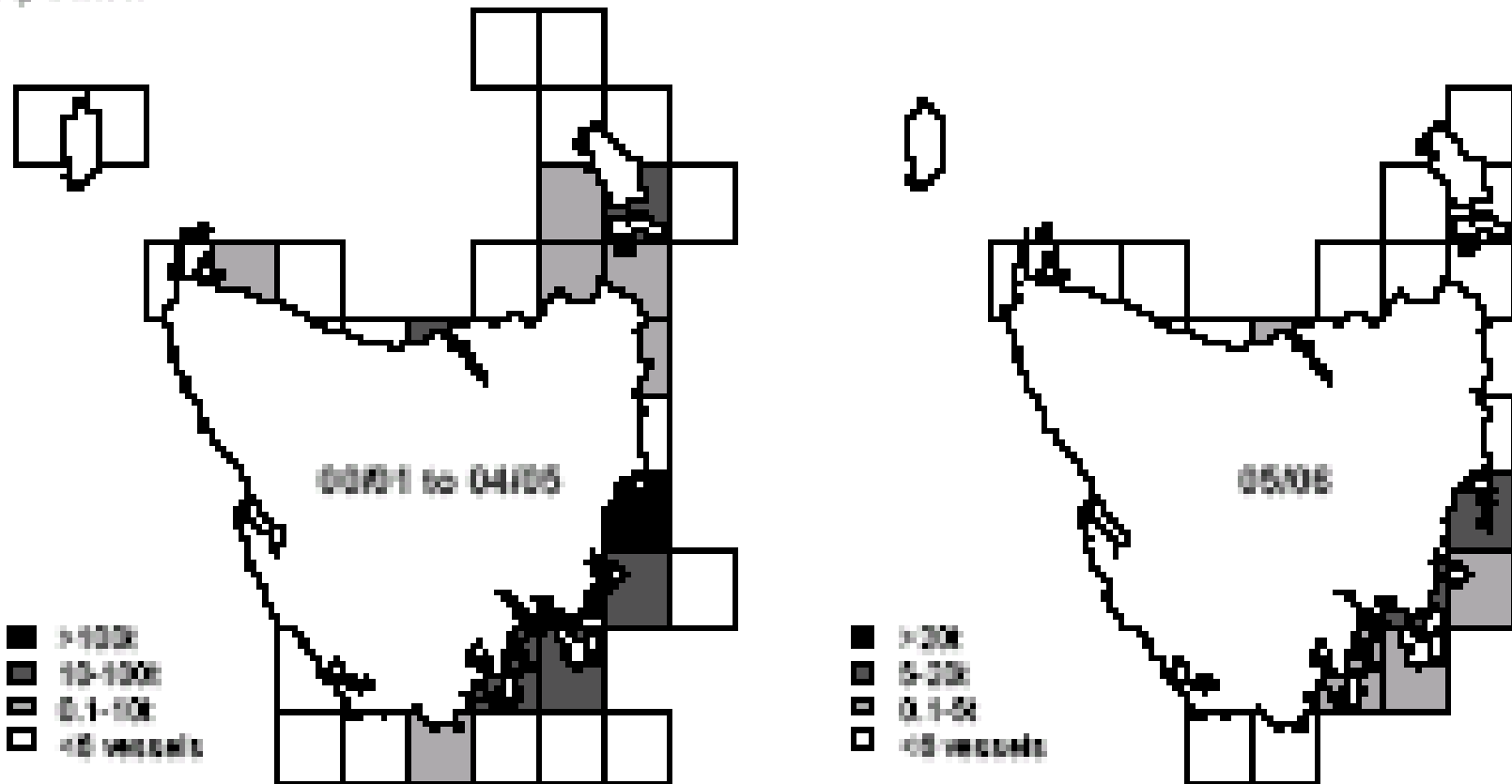
# TASMANIAN SCALEFISH FISHERY - 2006



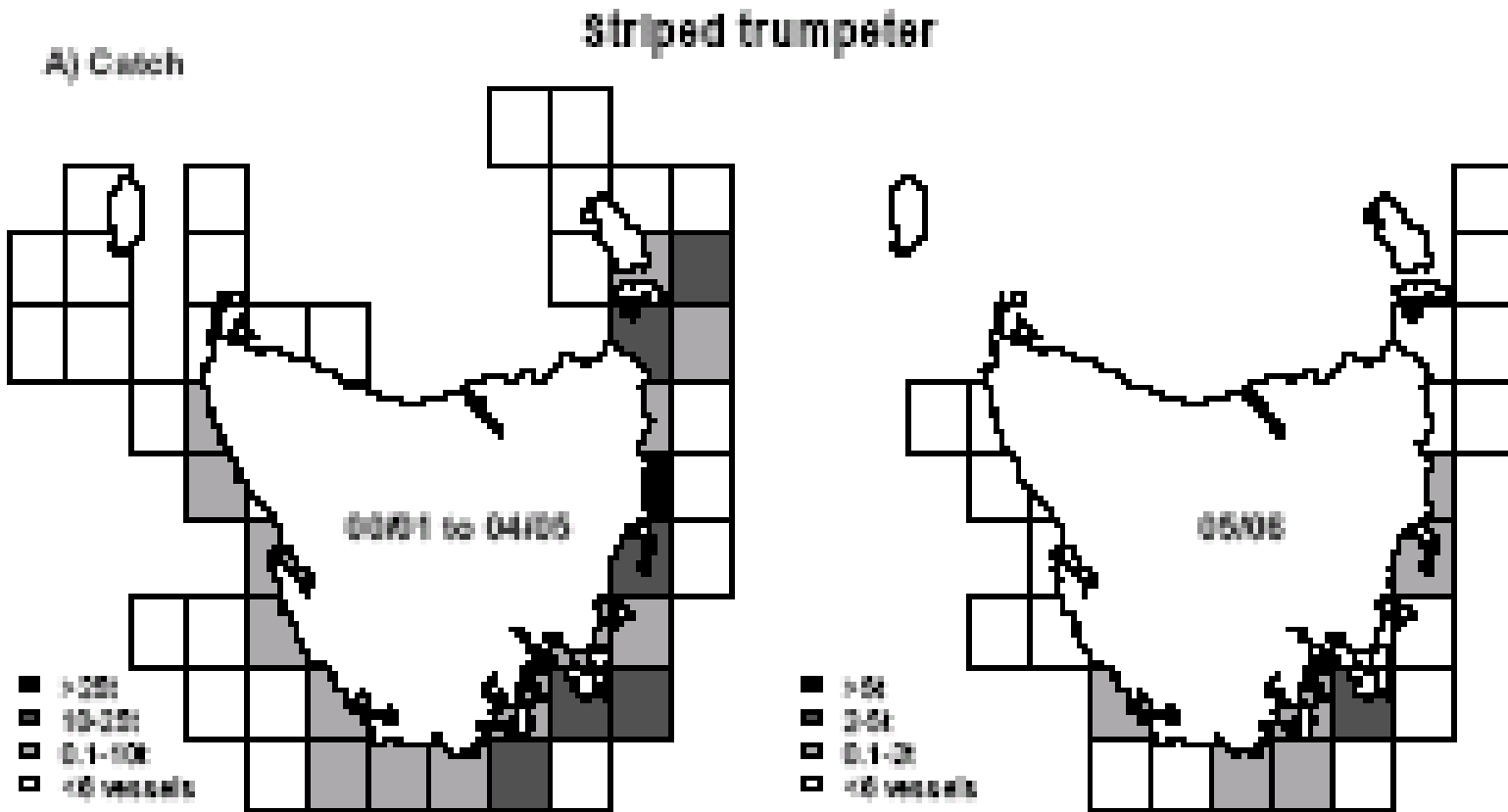
The left map is last 5 years, right hand last reported year,  
colour equal catch quantity, no colour or square equals NIL

A) Catch

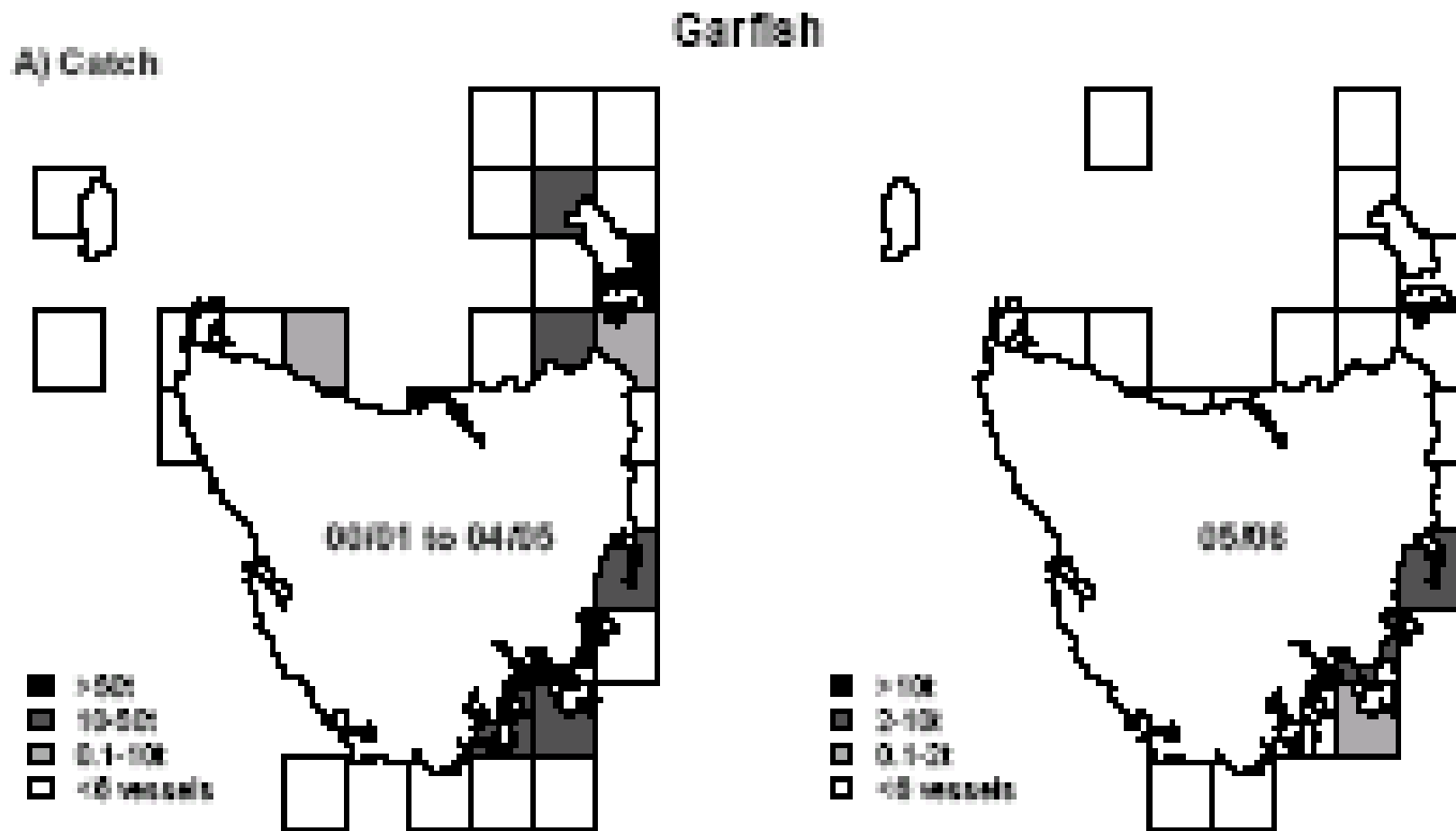
## Calamary



The left map is last 5 years, right hand last reported year,  
colour equal catch quantity, no colour or square equals NIL



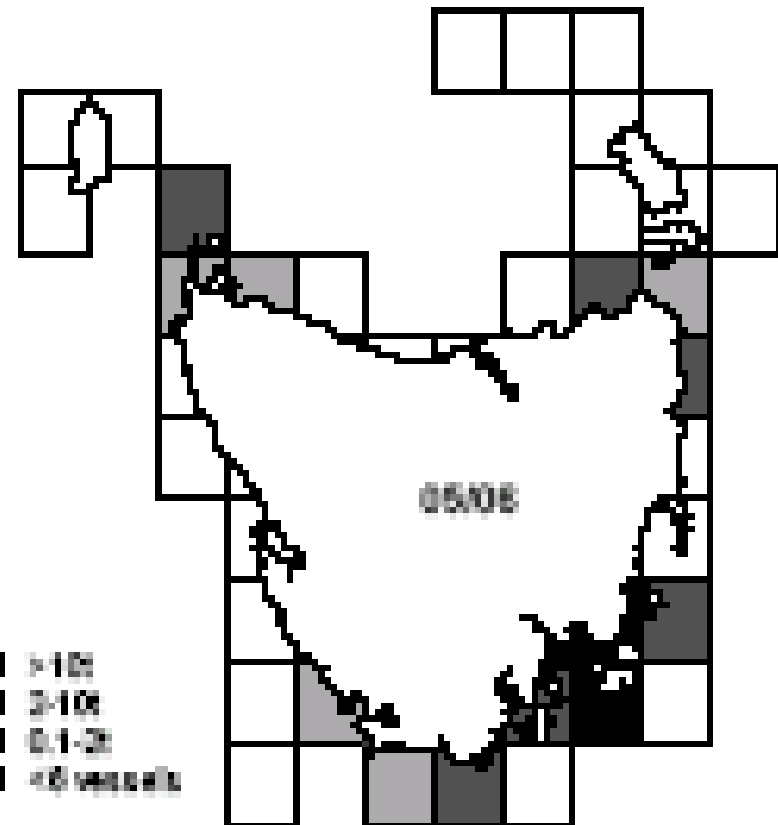
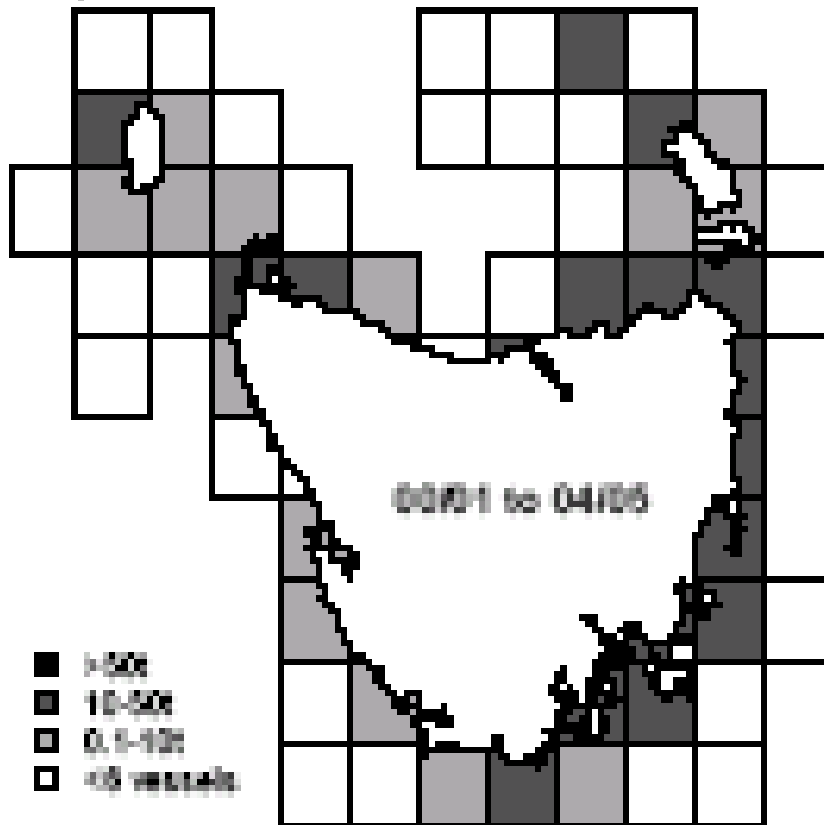
The left map is last 5 years, right hand last reported year,  
 colour equal catch quantity, no colour or square equals NIL



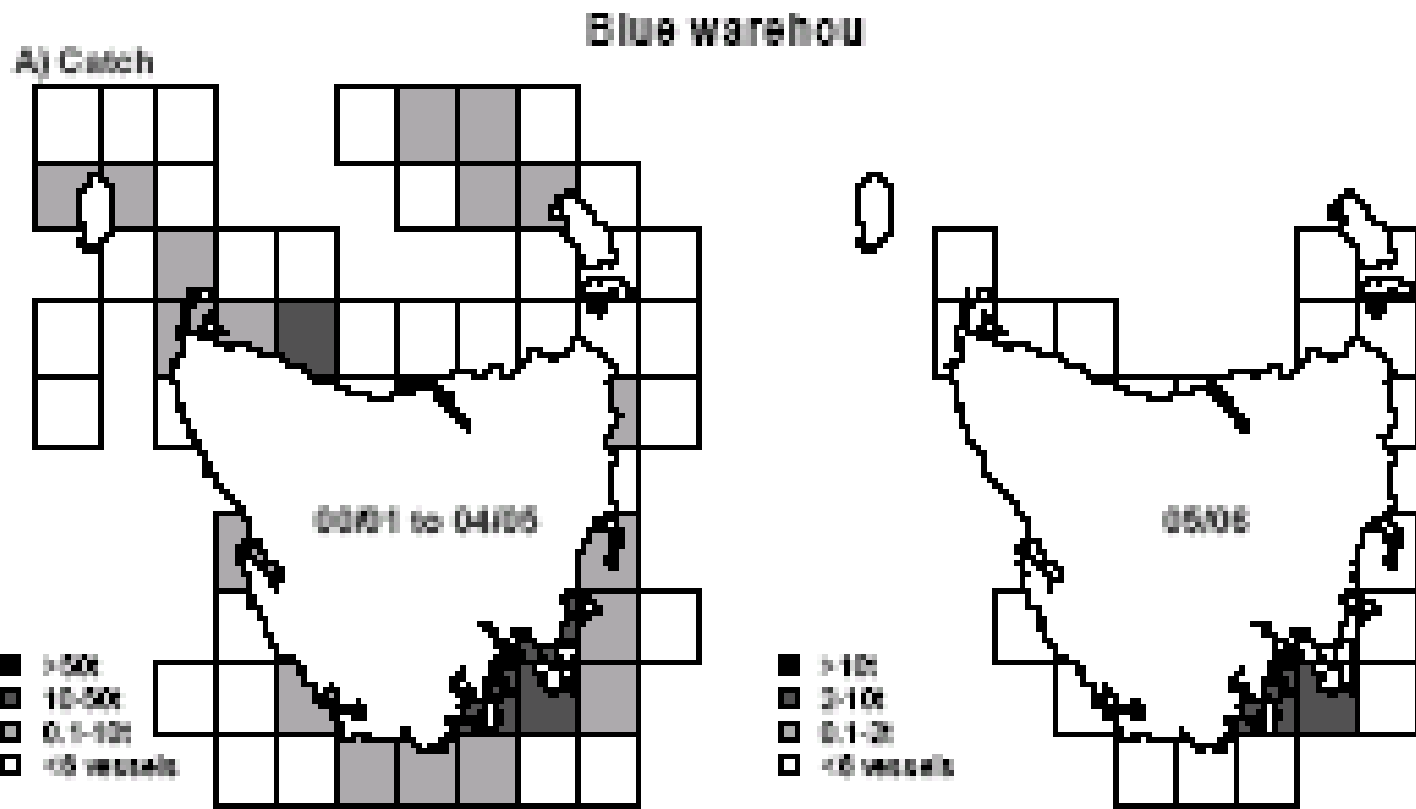
The left map is last 5 years, right hand last reported year,  
 colour equal catch quantity, no colour or square equals NIL

## Wrasse

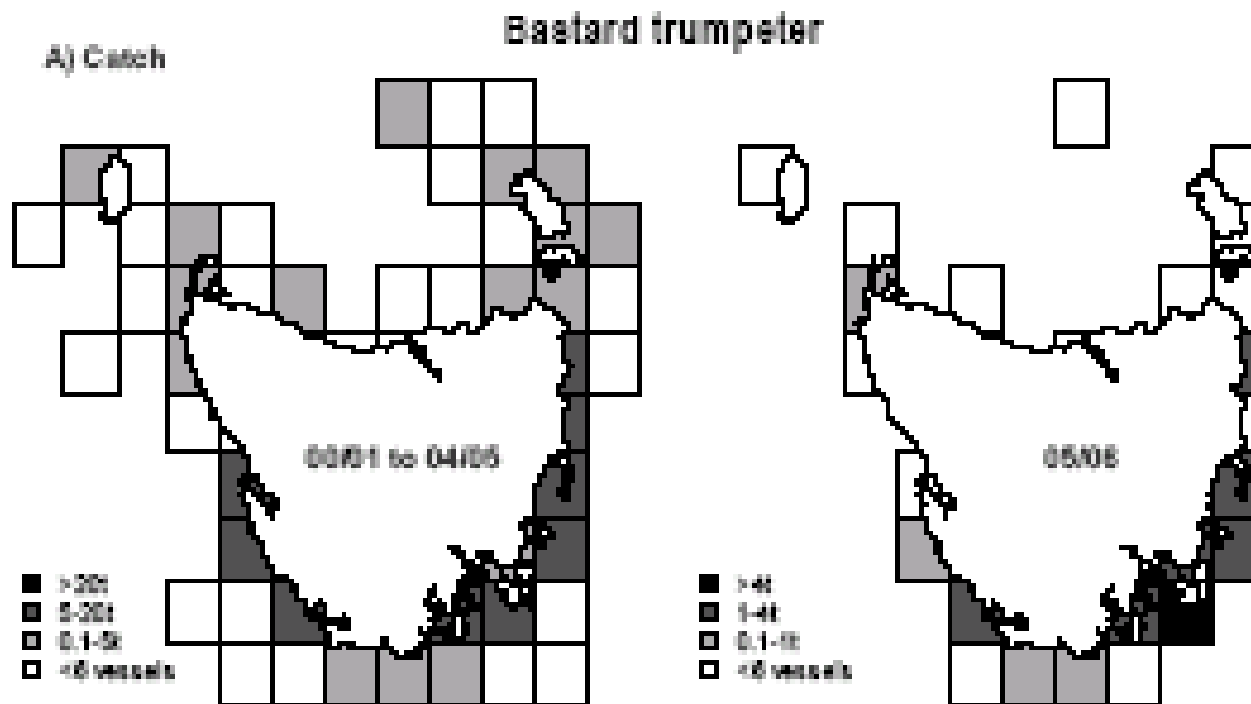
A) Catch



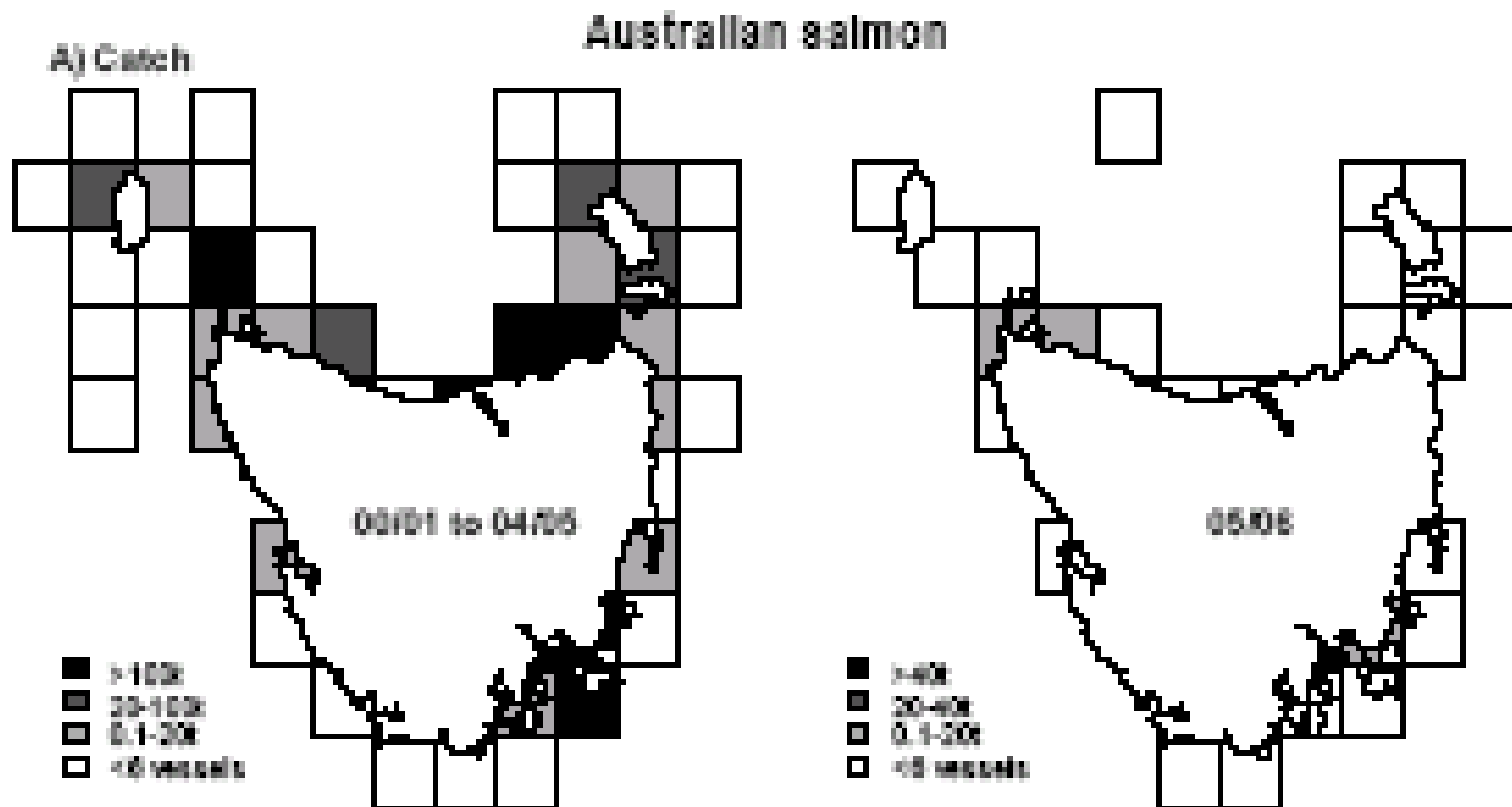
The left map is last 5 years, right hand last reported year,  
colour equal catch quantity, no colour or square equals NIL



The left map is last 5 years, right hand last reported year,  
 colour equal catch quantity, no colour or square equals NIL



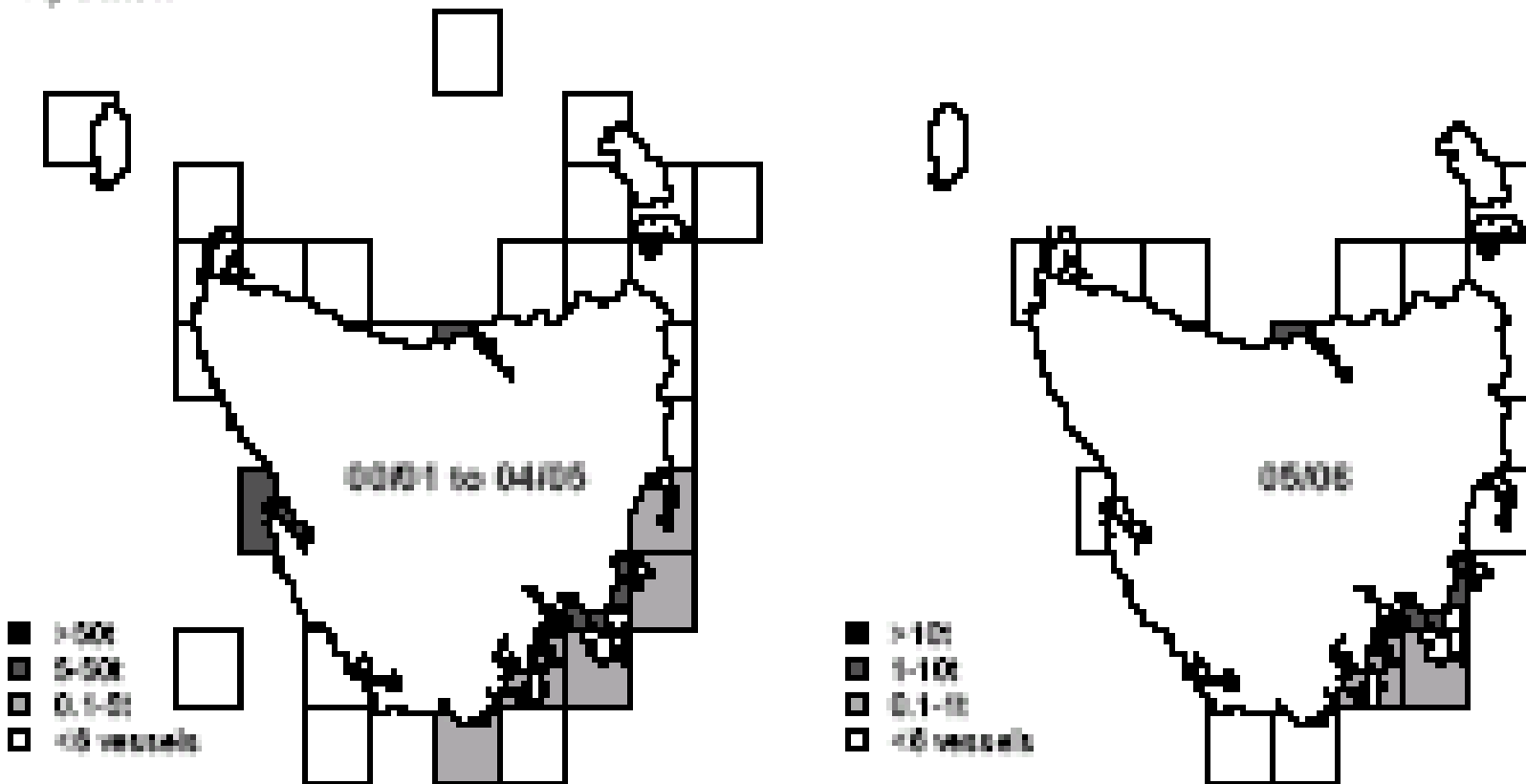
The left map is last 5 years, right hand last reported year,  
 colour equal catch quantity, no colour or square equals NIL



Australian Salmon are caught using nets off the Beach at 5 Mile Bluff it is the closest Commercial fishery and has been extensively studied

## Flounder

A) Catch



Flounder is another commercial fishery close by but not in the immediate area of the outfall