

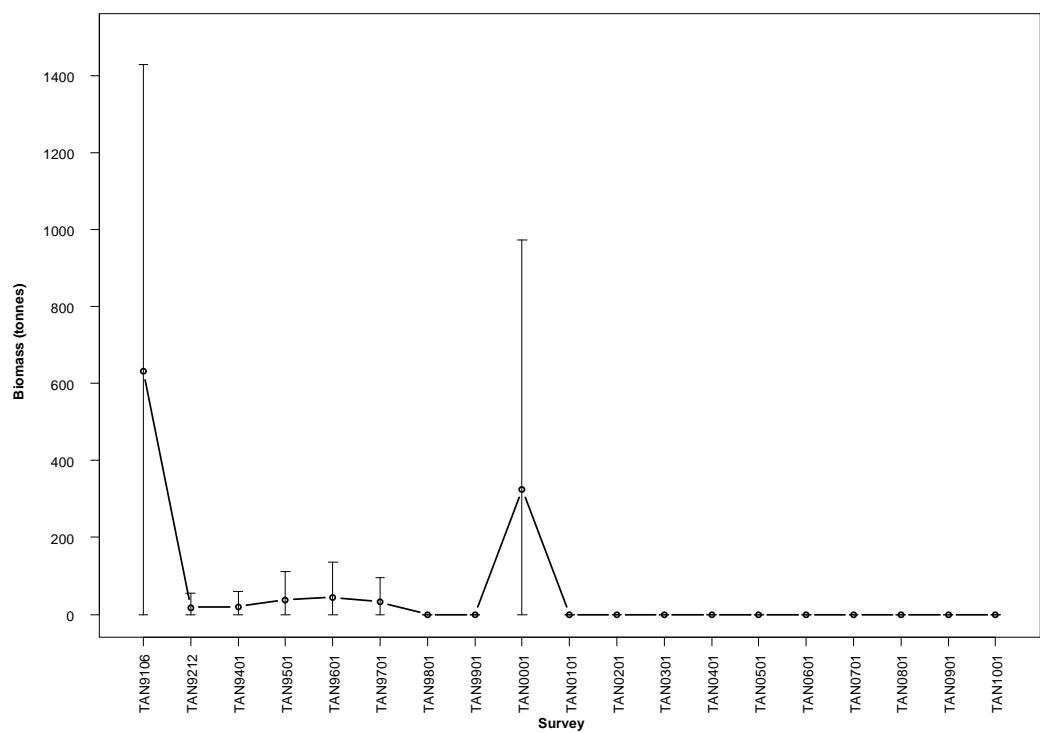


Number of surveys caught 1992–2010 (out of 19):	8
Total catch weight (kg):	1 013.0
Number measured	0
Length range (mean) (cm)	—
Number weighed	0
Length-weight parameters a, b (r^2)	—

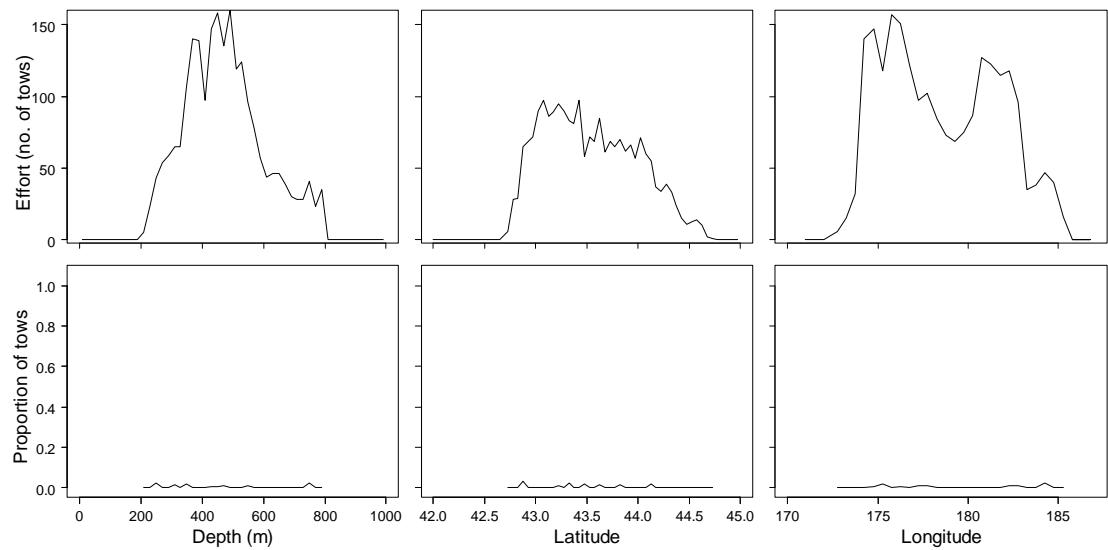
The core survey area and depth range **is not** appropriate for this species. It occurs in midwater. Biomass of this species is **poorly** estimated in the core survey area. Biomass has **decreased** since the start of the time series.

Relative biomass estimates

Year	Biomass (t)	cv (%)
1992	631	63
1993	18	100
1994	20	100
1995	37	100
1996	45	100
1997	32	100
1998	0	—
1999	0	—
2000	324	100
2001	0	—
2002	0	—
2003	0	—
2004	0	—
2005	0	—
2006	0	—
2007	0	—
2008	0	—
2009	0	—
2010	0	—



Distribution



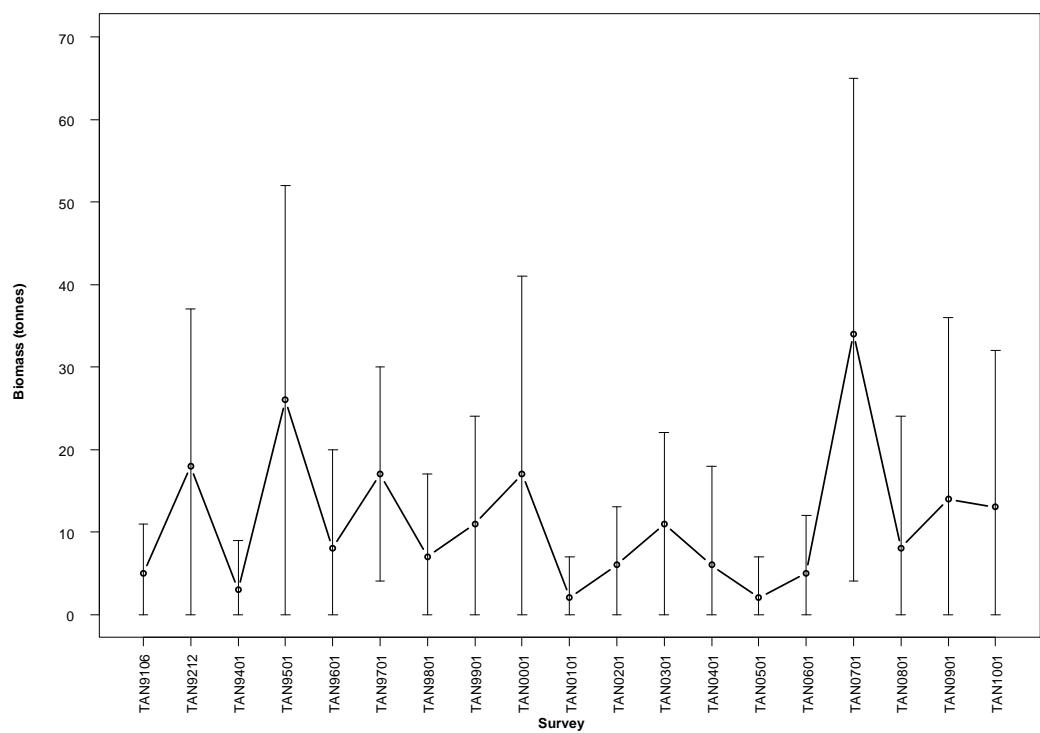


Number of surveys caught 1992–2010 (out of 19):	19
Total catch weight (kg):	71.6
Number measured	3
Length range (mean) (cm, TL)	53–53 (53)
Number weighed	3
Length-weight parameters a, b (r^2)	—

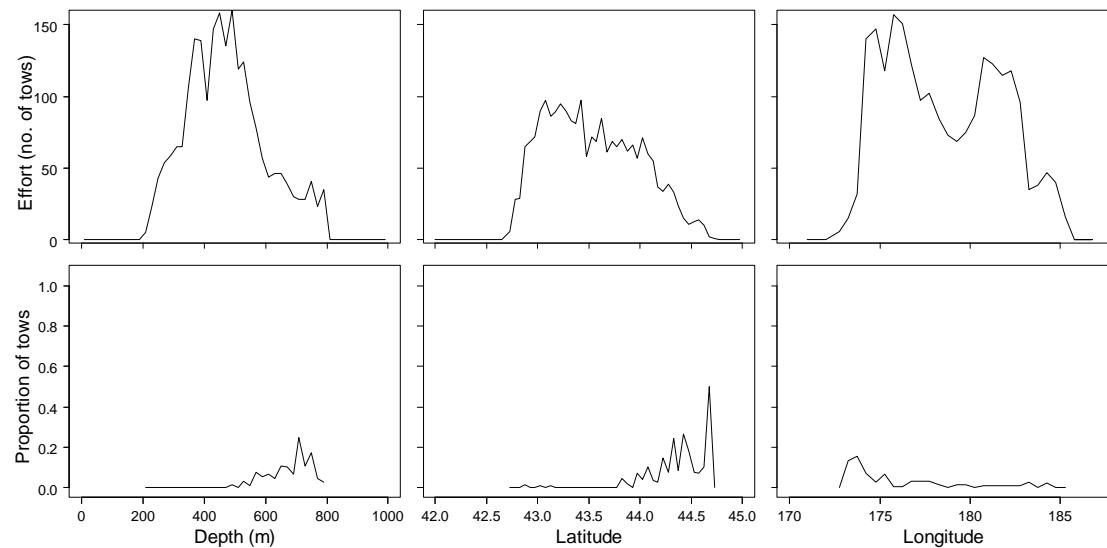
The core survey area and depth range is appropriate for this species. Biomass of this species is **poorly** estimated in the core survey area. Biomass **shows no clear trend** since the start of the time series. Catch rates are highest in the **south**.

Relative biomass estimates

Year	Biomass (t)	cv (%)
1992	5	55
1993	18	51
1994	3	93
1995	26	50
1996	8	79
1997	17	38
1998	7	72
1999	11	60
2000	17	72
2001	2	100
2002	6	66
2003	11	50
2004	6	100
2005	2	100
2006	5	71
2007	34	44
2008	8	100
2009	14	80
2010	13	71



Distribution



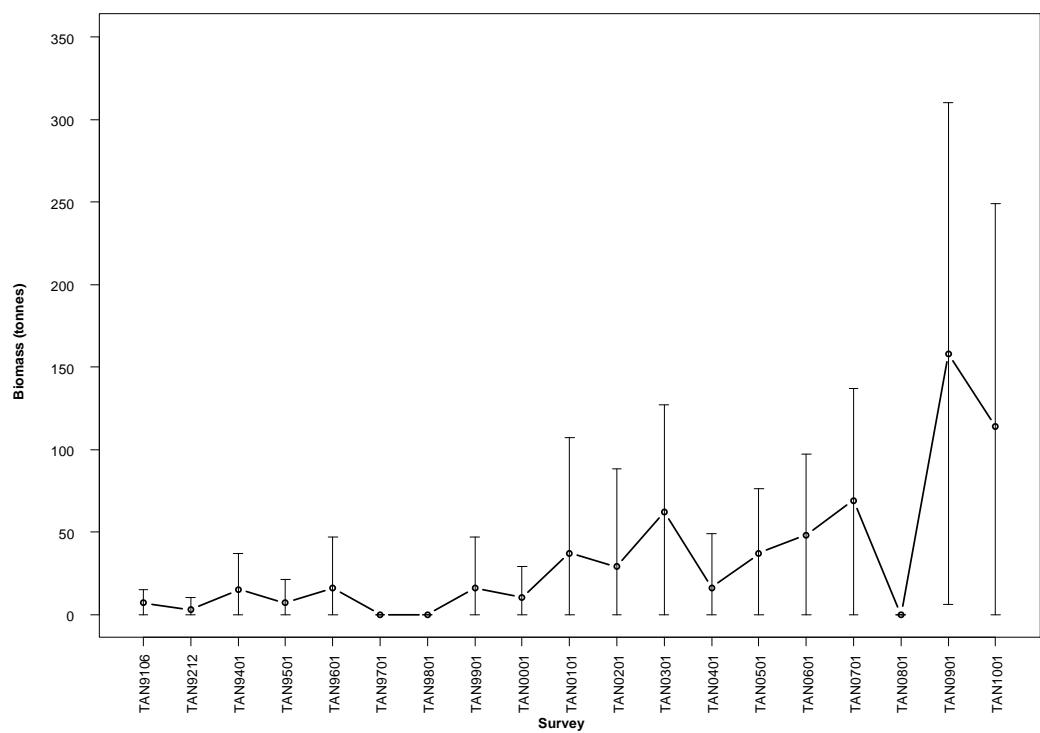


Number of surveys caught 1992–2010 (out of 19):	16
Total catch weight (kg):	268.8
Number measured	226
Length range (mean) (cm, TL)	37–77 (53.6)
Number weighed	136
Length-weight parameters a, b (r^2)	—

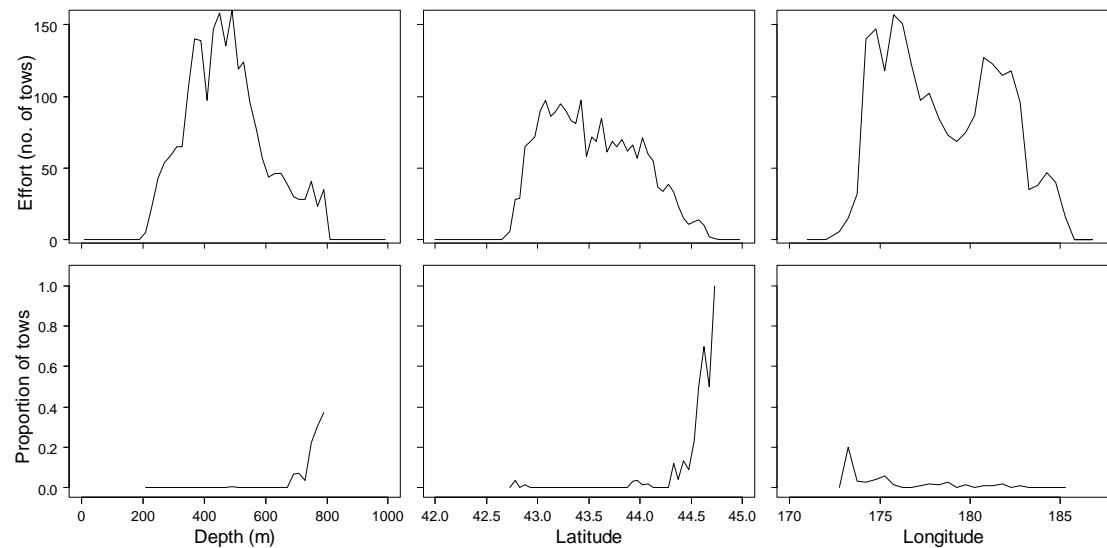
The core survey area and depth range is **not** appropriate for this species. It is found **deeper than 800 m**. Biomass of this species is **poorly** estimated in the core survey area. Biomass has **increased** since the start of the time series. Catch rates are highest in the **south**.

Relative biomass estimates

Year	Biomass (t)	cv (%)
1992	7	62
1993	3	100
1994	15	70
1995	7	100
1996	16	100
1997	0	-
1998	0	-
1999	16	100
2000	10	100
2001	37	95
2002	29	100
2003	62	53
2004	16	100
2005	37	51
2006	48	50
2007	69	50
2008	0	-
2009	158	48
2010	114	60



Distribution



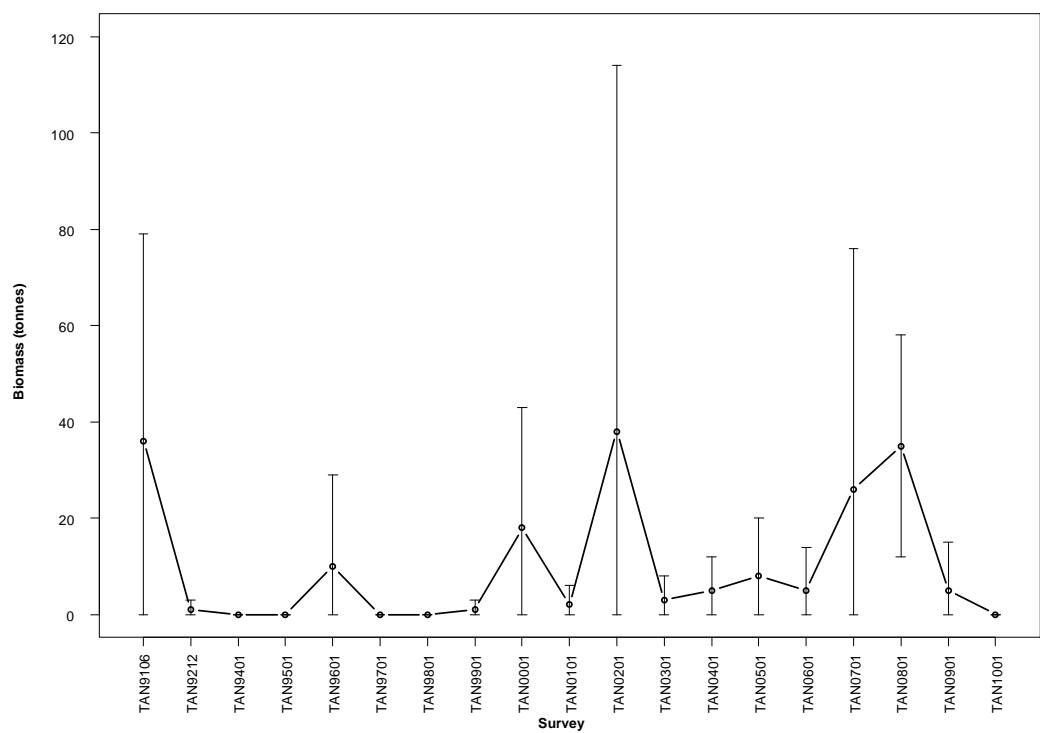


Number of surveys caught 1992–2010 (out of 19):	14
Total catch weight (kg):	111.9
Number measured	7
Length range (mean) (cm, TL)	47–53 (51.3)
Number weighed	2
Length-weight parameters a, b (r^2)	—

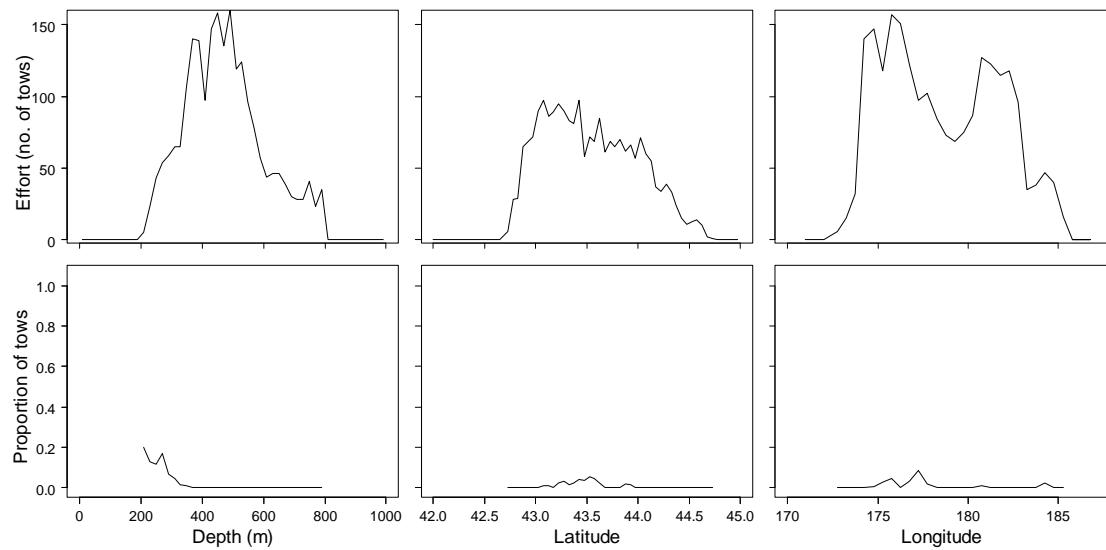
The core survey area and depth range is **not** appropriate for this species. It is found **shallower than 200 m**. Biomass of this species is **poorly** estimated in the core survey area. Biomass **shows no clear trend** since the start of the time series.

Relative biomass estimates

Year	Biomass (t)	cv (%)
1992	36	59
1993	1	100
1994	0	-
1995	0	-
1996	10	100
1997	0	-
1998	0	-
1999	1	100
2000	18	68
2001	2	100
2002	38	100
2003	3	90
2004	5	71
2005	8	72
2006	5	100
2007	26	93
2008	35	33
2009	5	100
2010	0	-



Distribution



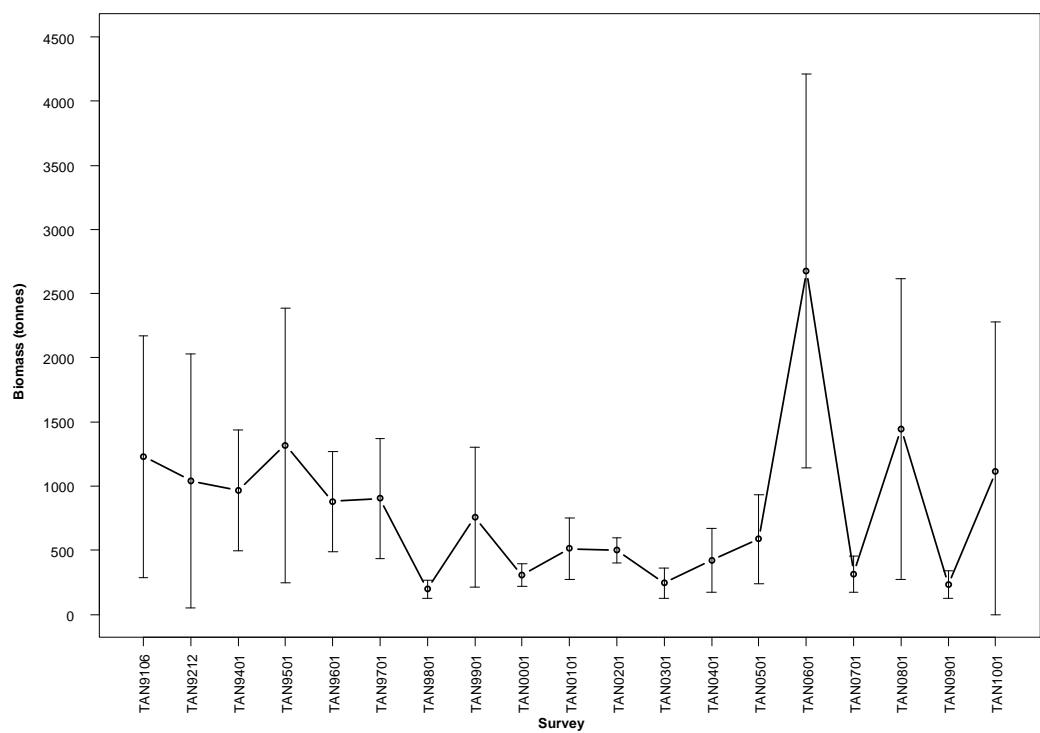


Number of surveys caught 1992–2010 (out of 19):	19
Total catch weight (kg):	11 967.4
Number measured	15 889
Length range (mean) (cm, ML)	8–41 (23.3)
Number weighed	1 471
Length-weight parameters a, b (r^2)	0.016761, 3.100632 (92.83)

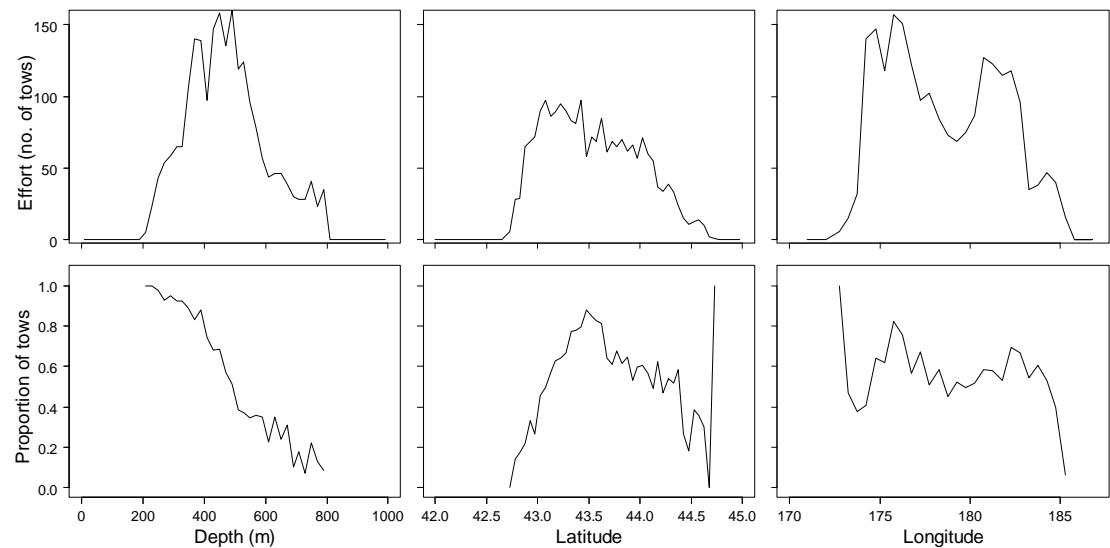
The core survey area and depth range is **not** appropriate for this species. It is found **shallower than 200 m**. Biomass of this species is **well** estimated in the core survey area. Biomass has **decreased and then increased** since the start of the time series. Catch rates are highest in the **west**. Length frequencies are usually **unimodal**. Mean length has **increased then decreased** since the start of the time series.

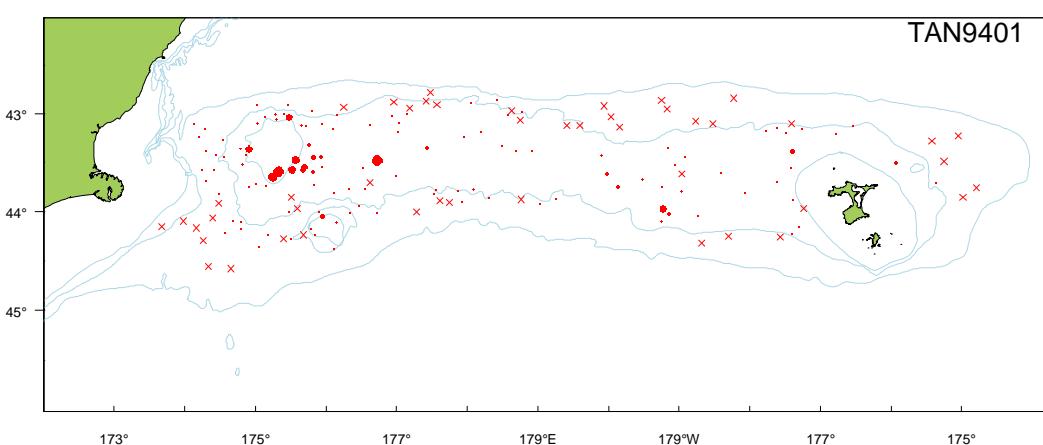
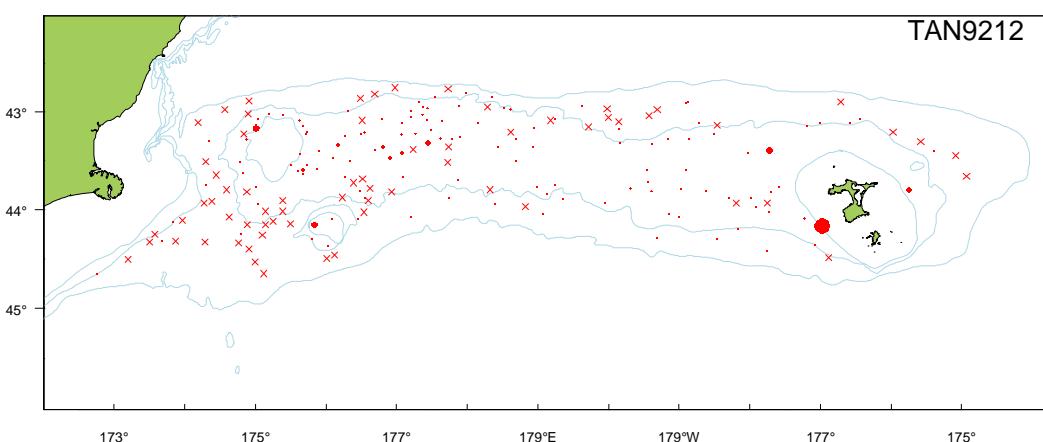
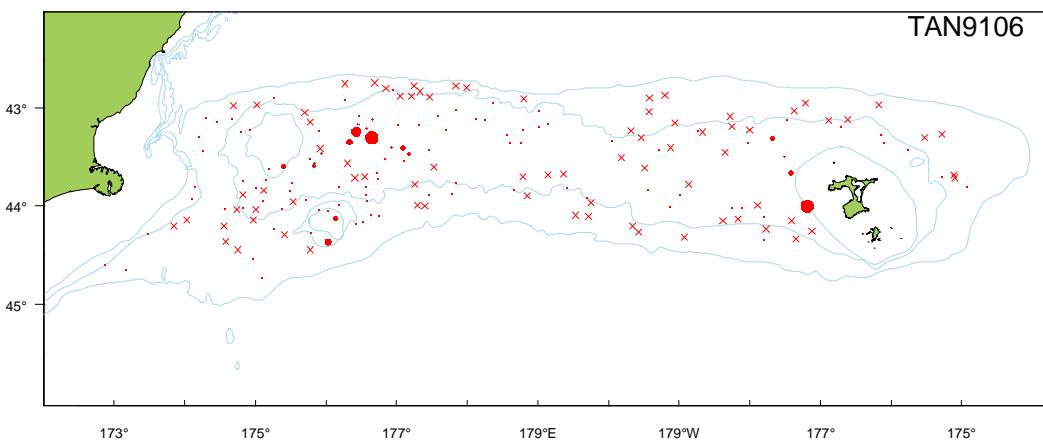
Relative biomass estimates and length summary

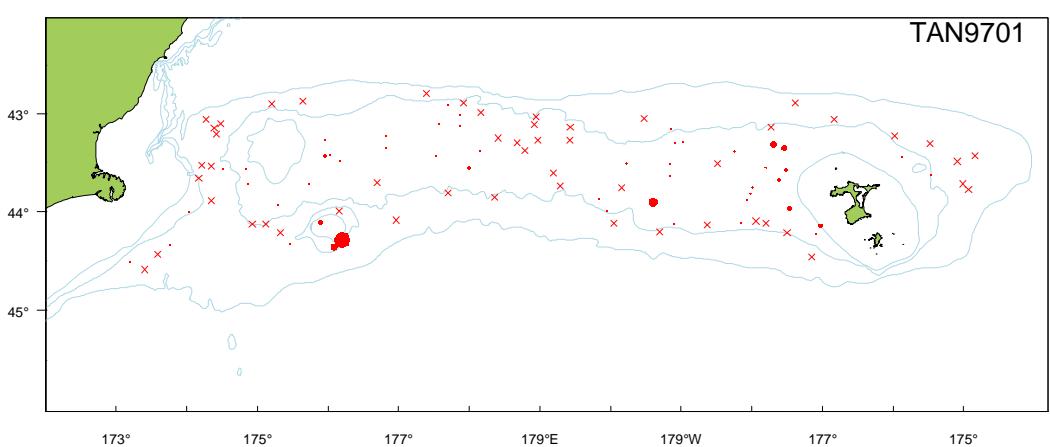
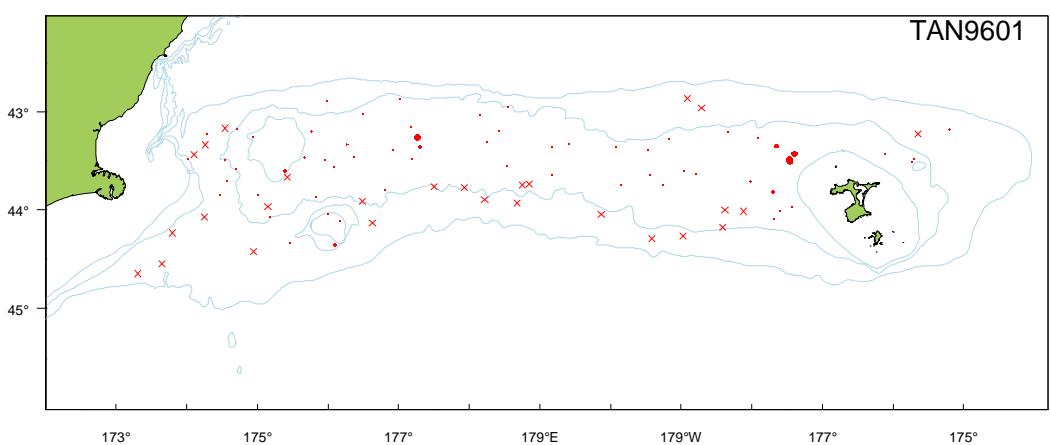
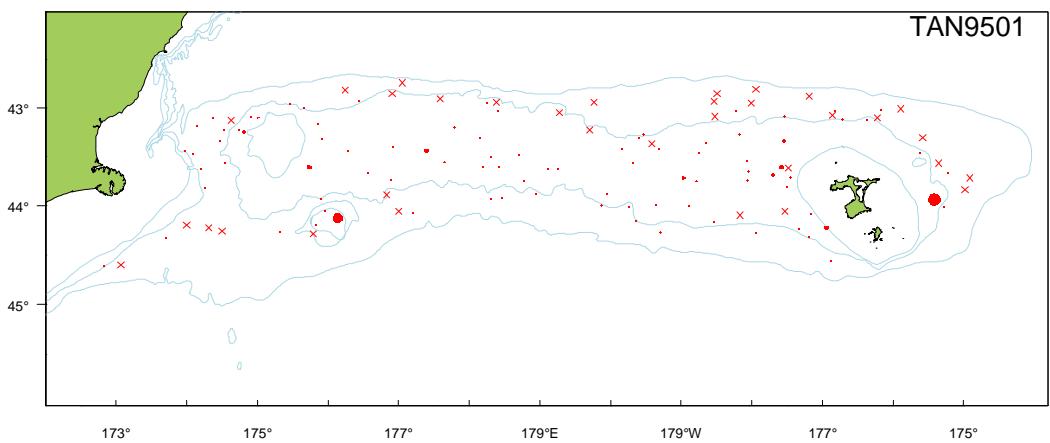
Year	Biomass (t)	cv (%)	Length (cm)			No. measure d
			Min.	Max.	Mean	
1992	1 231	38	11	39	22.2	1 584
1993	1 042	48	11	38	22.1	1 743
1994	967	24	9	40	23.3	1 251
1995	1 318	40	10	40	21.6	1 407
1996	879	22	13	40	22.4	873
1997	904	26	16	38	24.7	942
1998	197	18	9	38	25.7	194
1999	755	36	12	36	24.7	880
2000	307	14	8	35	24.3	523
2001	512	23	14	37	25.1	655
2002	499	10	15	37	25.6	664
2003	245	24	15	38	25.6	349
2004	420	30	10	38	22.8	477
2005	589	29	13	41	24.9	456
2006	2 678	29	12	38	22.9	1 369
2007	316	22	16	39	26.1	446
2008	1 444	41	13	36	22.0	951
2009	230	23	18	36	25.2	233
2010	1 112	53	9	37	23.0	575

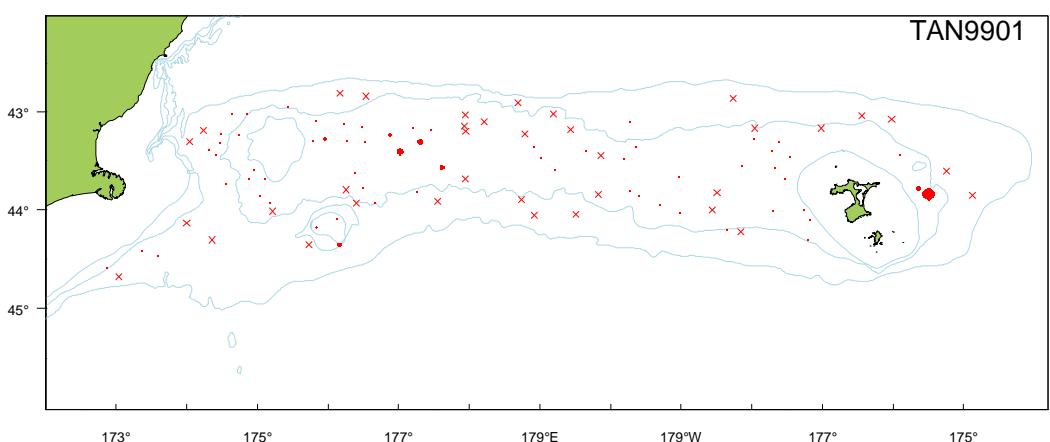
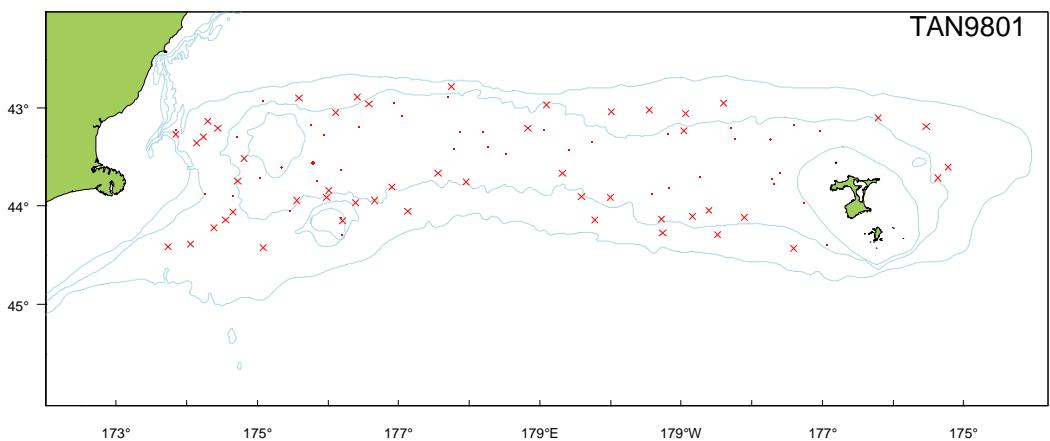


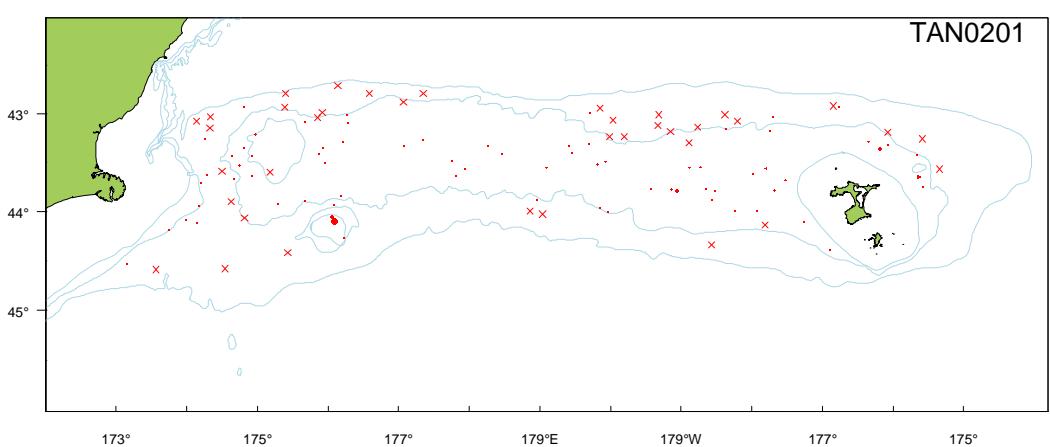
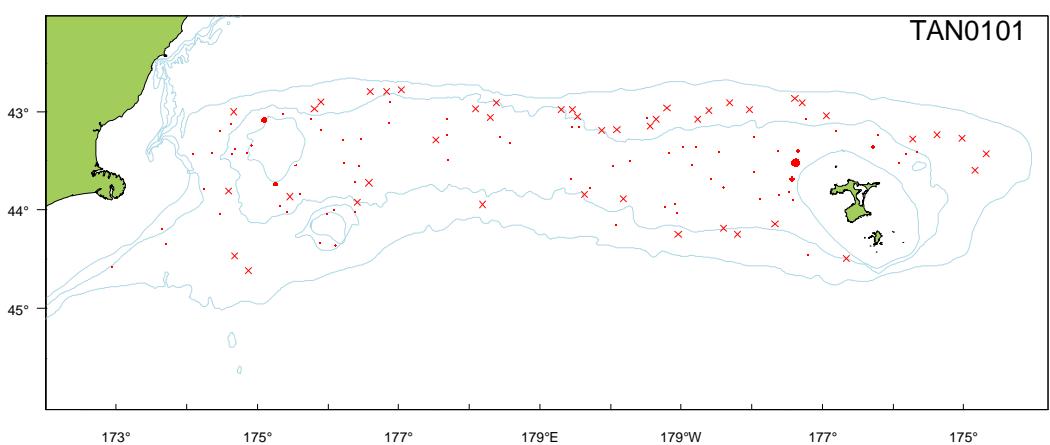
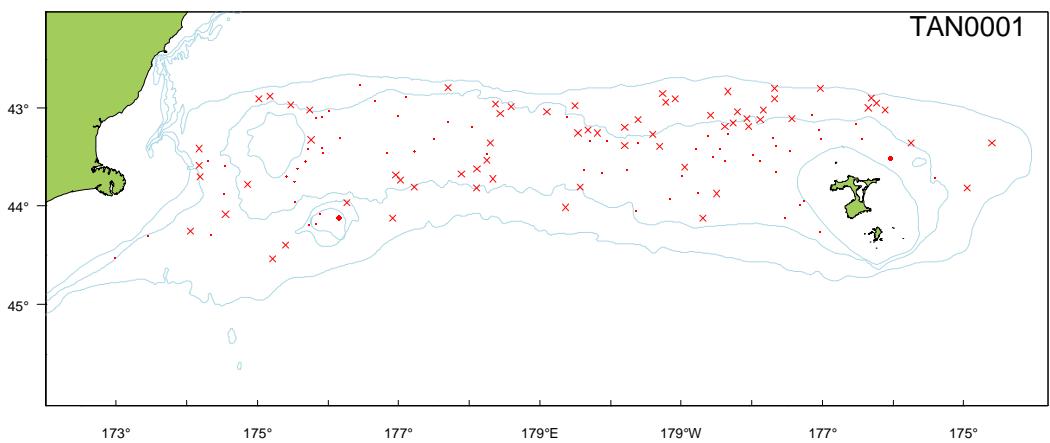
Distribution

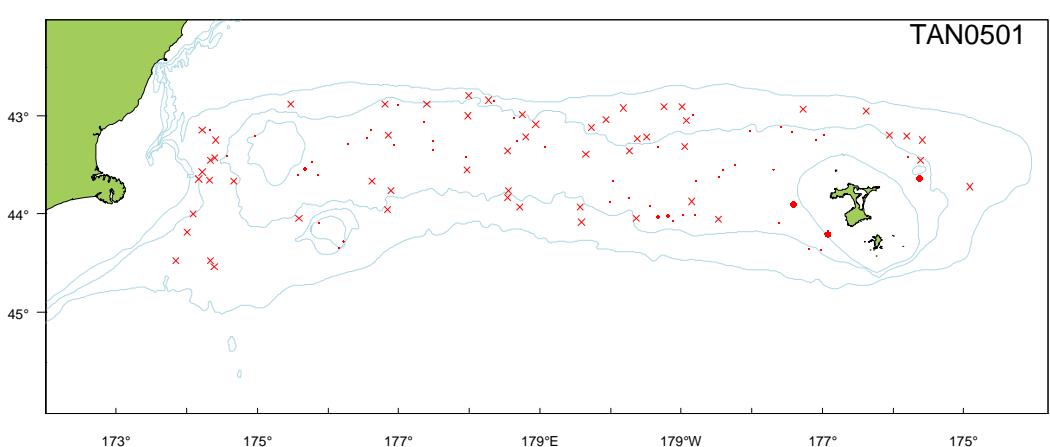
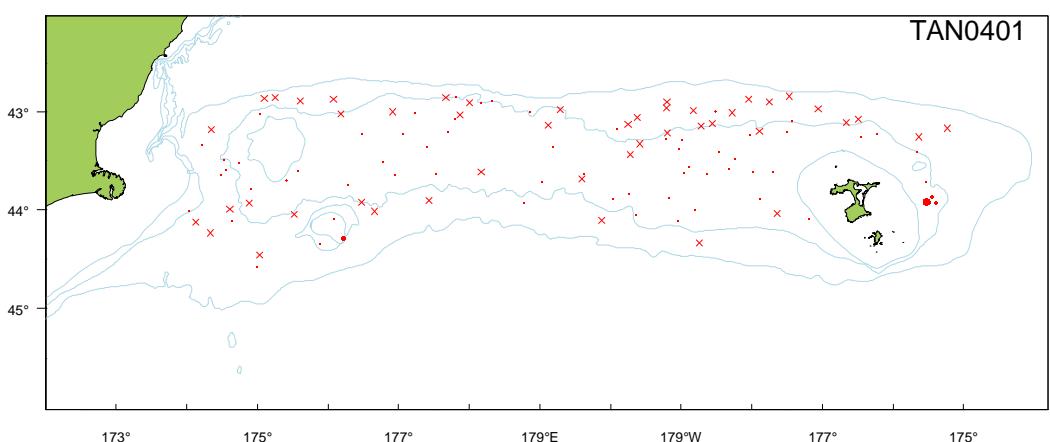
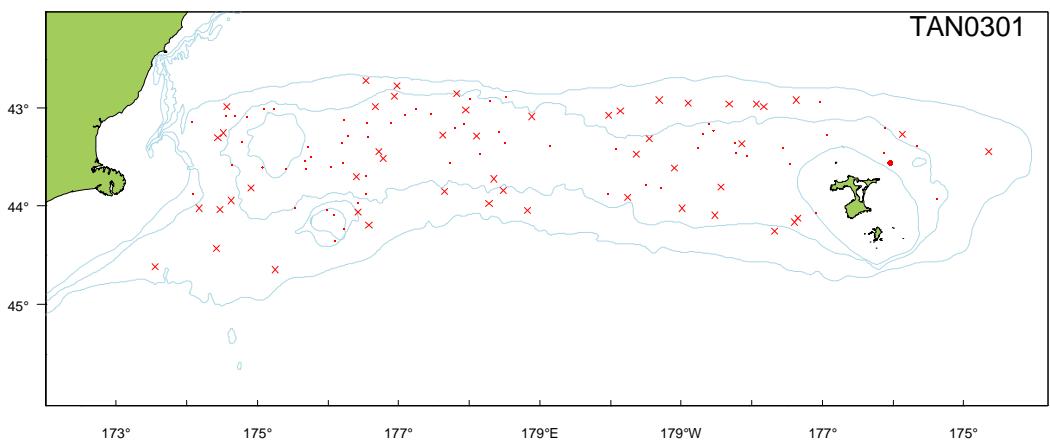


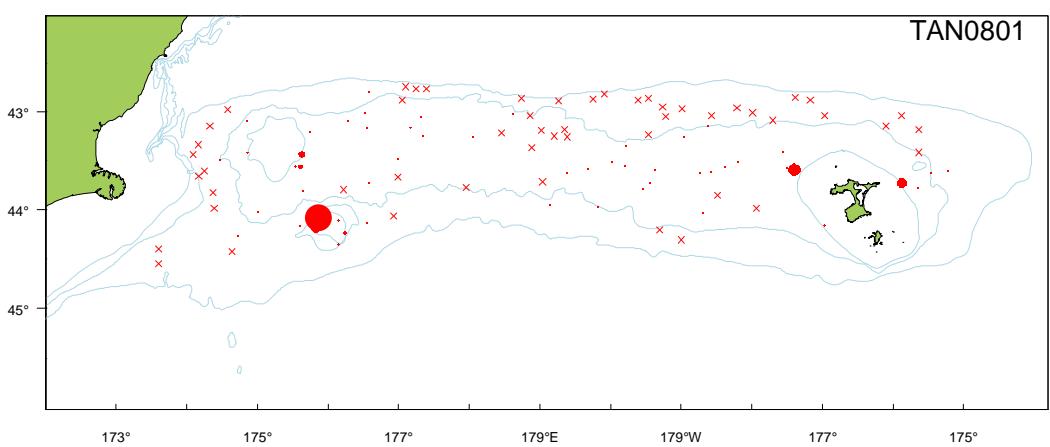
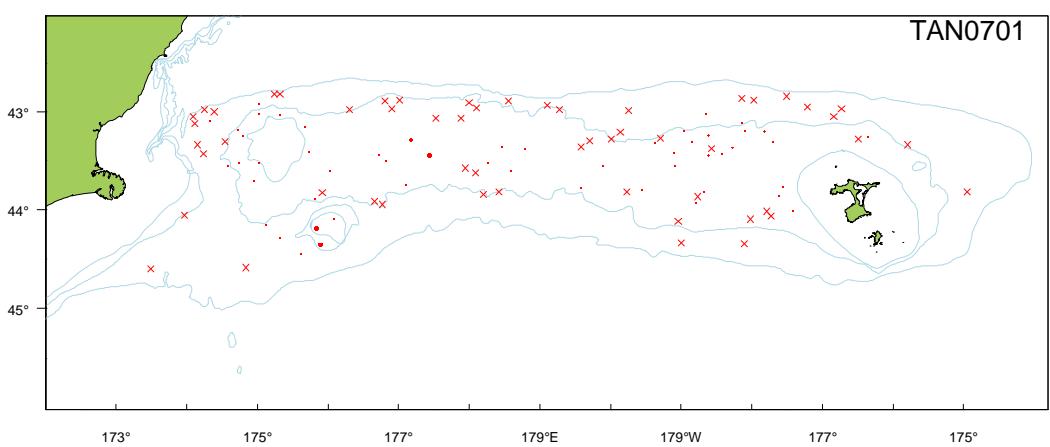
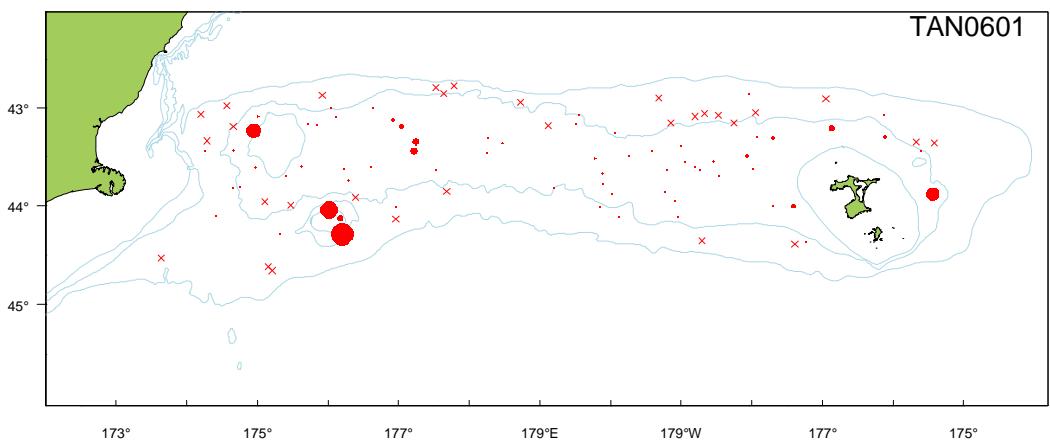


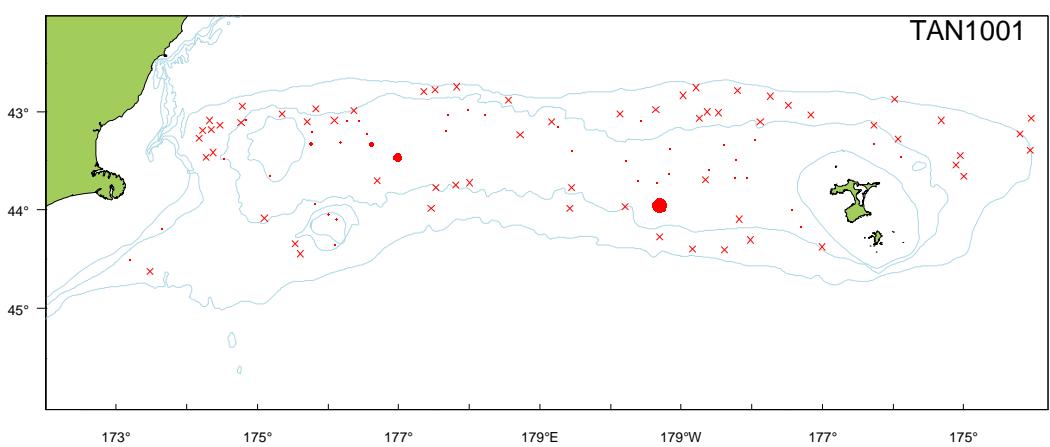
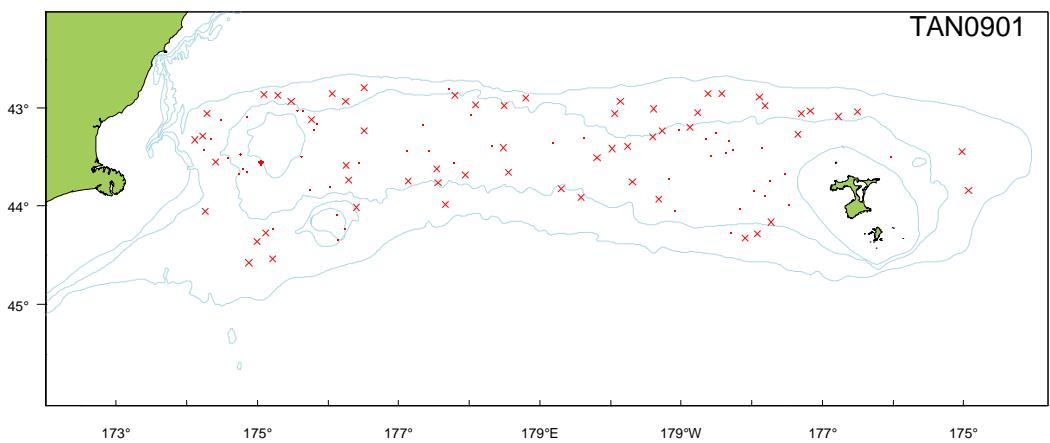




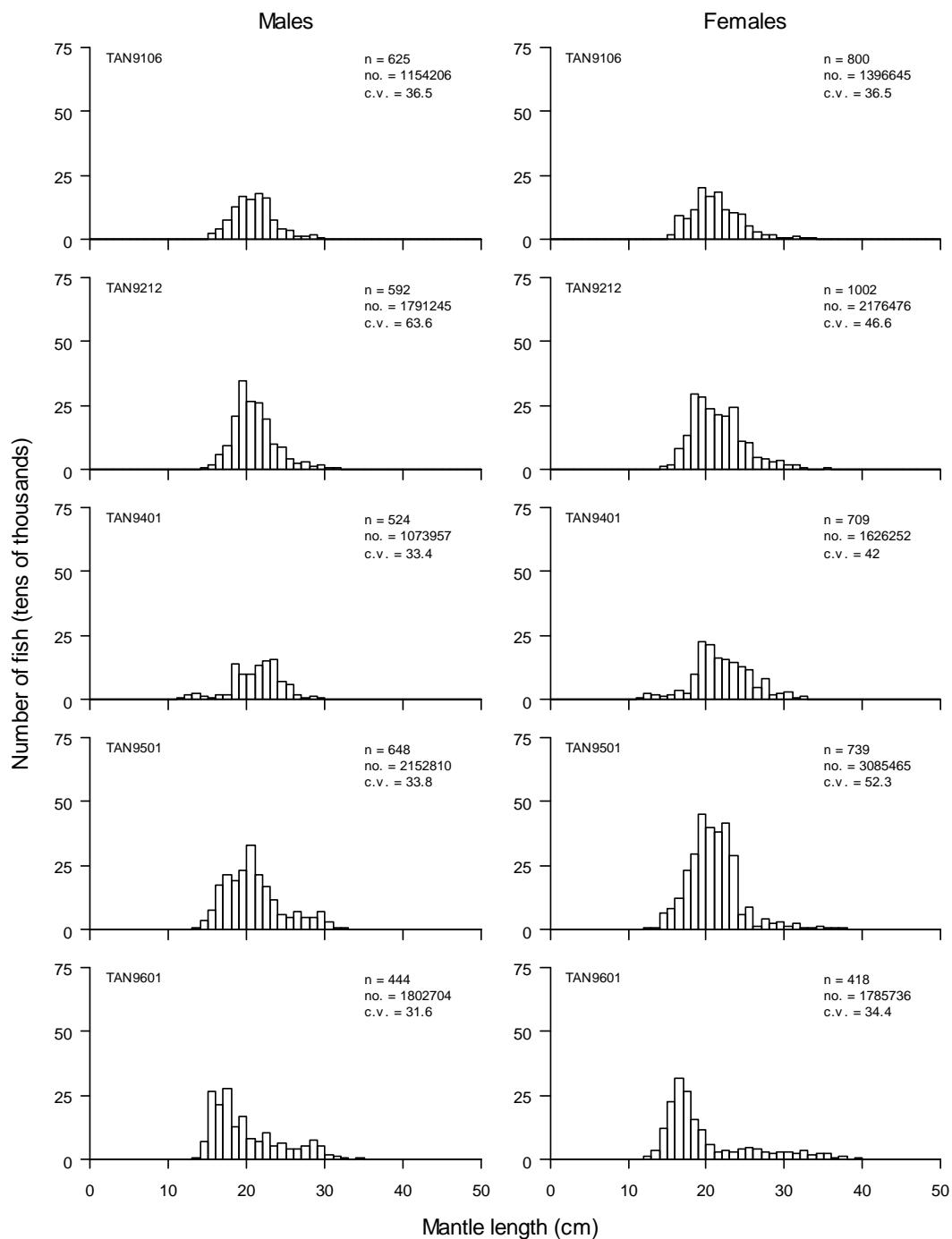


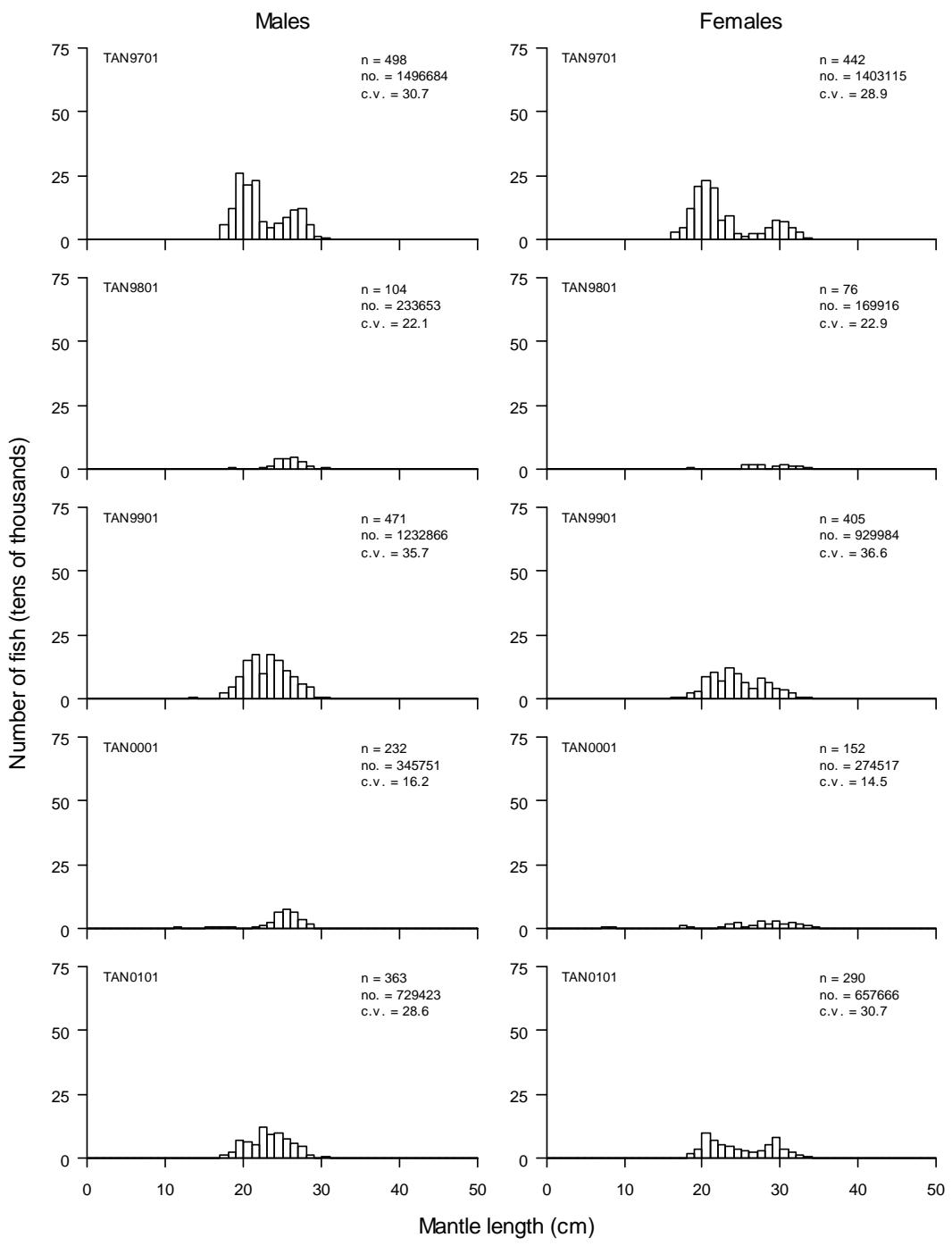


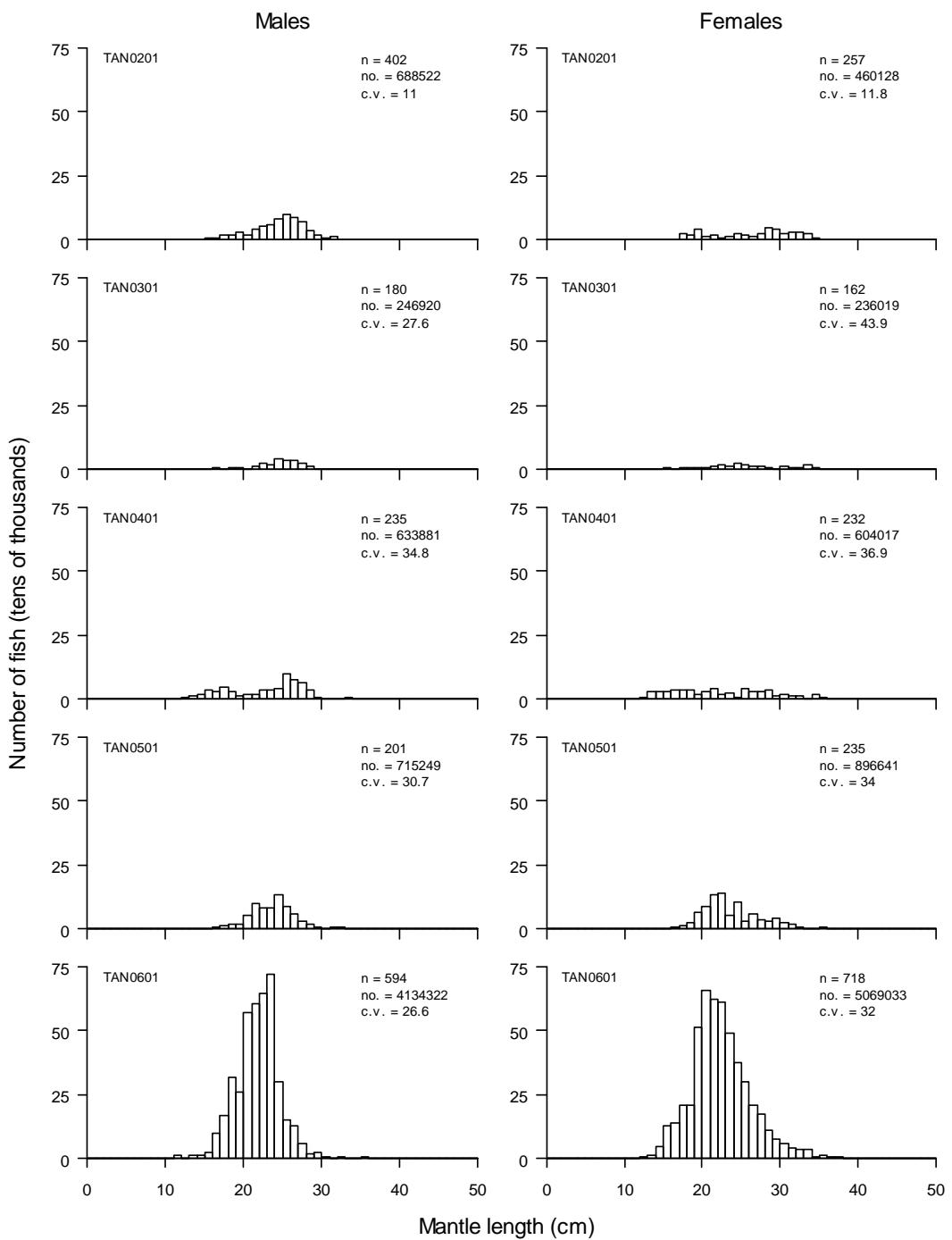


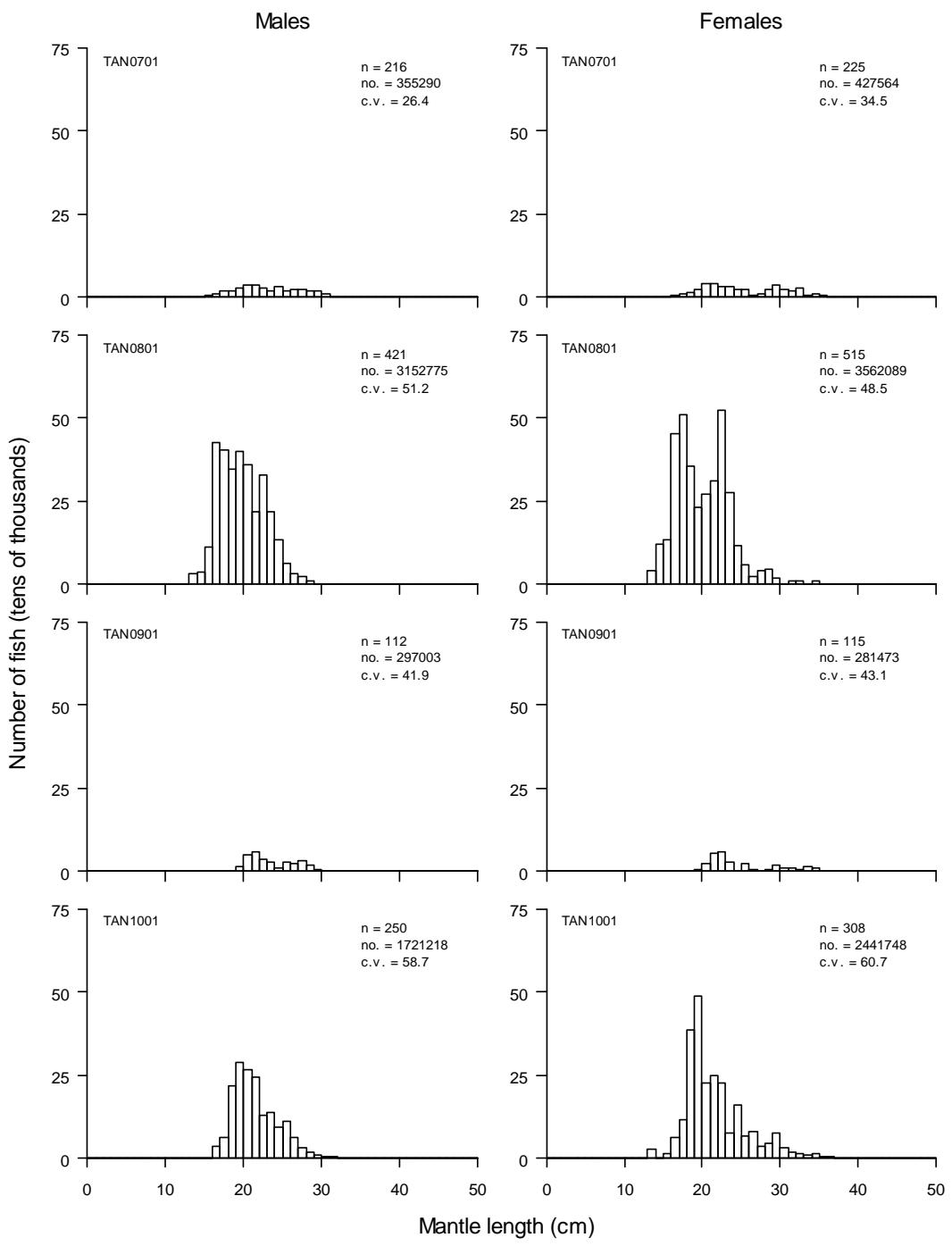


Length Frequencies









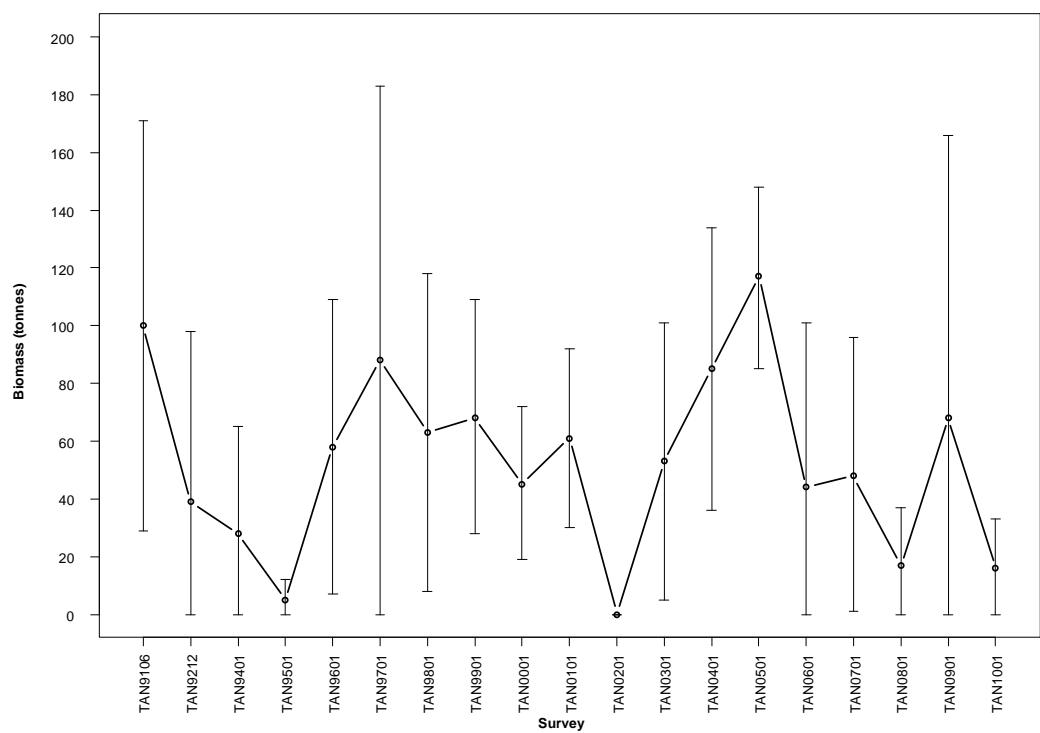


Number of surveys caught 1992–2010 (out of 19):	18
Total catch weight (kg):	500.8
Number measured	161
Length range (mean) (cm, TL)	36–94 (73.3)
Number weighed	84
Length-weight parameters a, b (r^2)	—

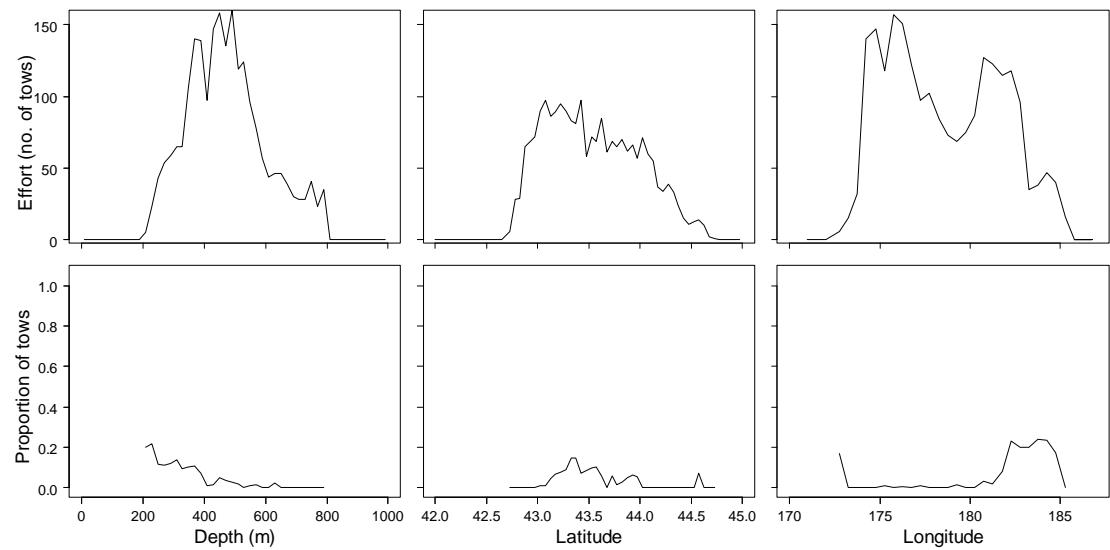
The core survey area and depth range is **not** appropriate for this species. It is found **shallower than 200 m**. Biomass of this species is **poorly** estimated in the core survey area. Biomass **shows no clear trend** since the start of the time series. Catch rates are highest in the **east**.

Relative biomass estimates

Year	Biomass (t)	cv (%)
1992	100	35
1993	39	76
1994	28	64
1995	5	70
1996	58	44
1997	88	54
1998	63	44
1999	68	29
2000	45	29
2001	61	26
2002	0	-
2003	53	45
2004	85	29
2005	117	13
2006	44	64
2007	48	50
2008	17	56
2009	68	73
2010	16	50



Distribution



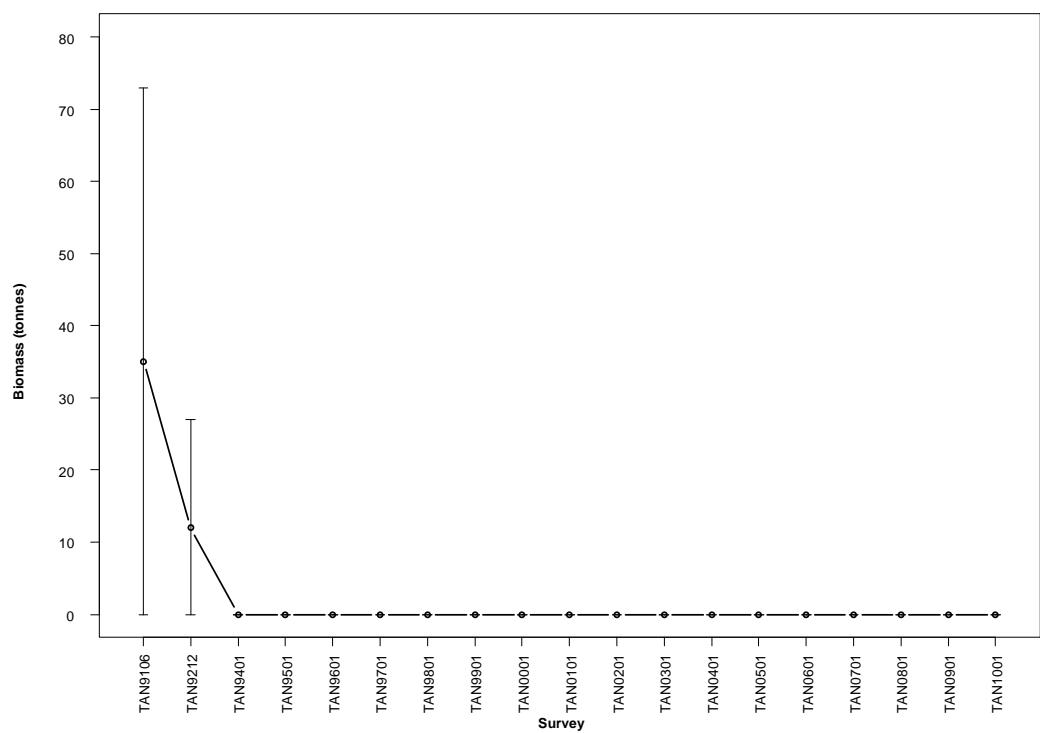
No picture available

Number of surveys caught 1992–2010 (out of 19):	4
Total catch weight (kg):	57.6
Number measured	0
Length range (mean) (cm)	–
Number weighed	0
Length-weight parameters a, b (r^2)	–

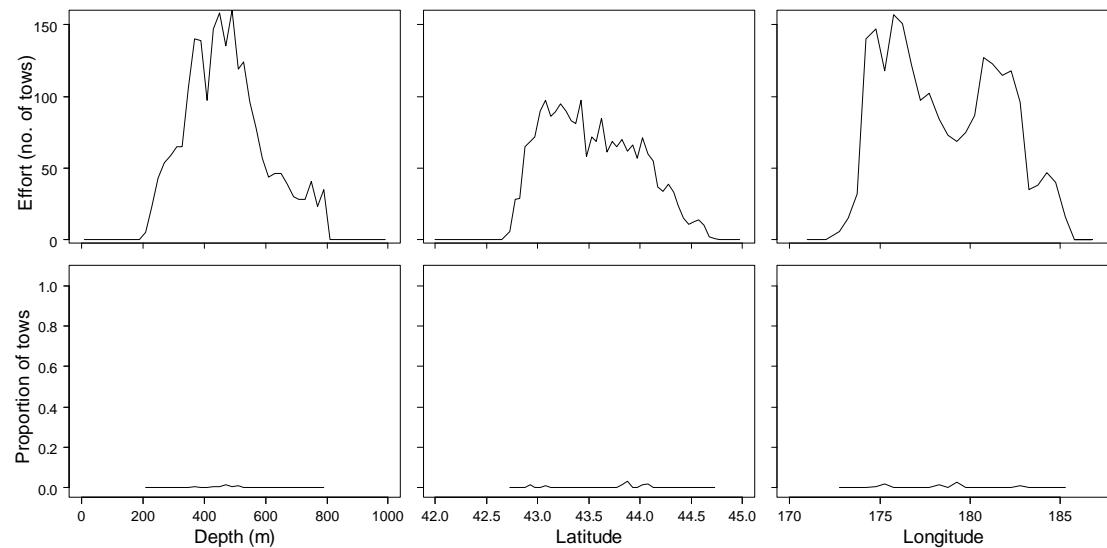
The core survey area and depth range **is not** appropriate for this species. It occurs in midwater. Biomass of this species is **poorly** estimated in the core survey area. Biomass has **decreased** since the start of the time series.

Relative biomass estimates

Year	Biomass (t)	cv (%)
1992	35	54
1993	12	61
1994	0	–
1995	0	–
1996	0	–
1997	0	–
1998	0	–
1999	0	–
2000	0	–
2001	0	–
2002	0	–
2003	0	–
2004	0	–
2005	0	–
2006	0	–
2007	0	–
2008	0	–
2009	0	–
2010	0	–



Distribution



**Coded as DWO**

Number of surveys caught 1992–2010 (out of 19): 16
 Total catch weight (kg): 115.7

Coded as EZE

Number of surveys caught 1992–2010 (out of 19): 6
 Total catch weight (kg): 160.1

Coded as OCP

Number of surveys caught 1992–2010 (out of 19): 7
 Total catch weight (kg): 43.9

Coded as OCT

Number of surveys caught 1992–2010 (out of 19): 11
 Total catch weight (kg): 252.7

Coded as OPI

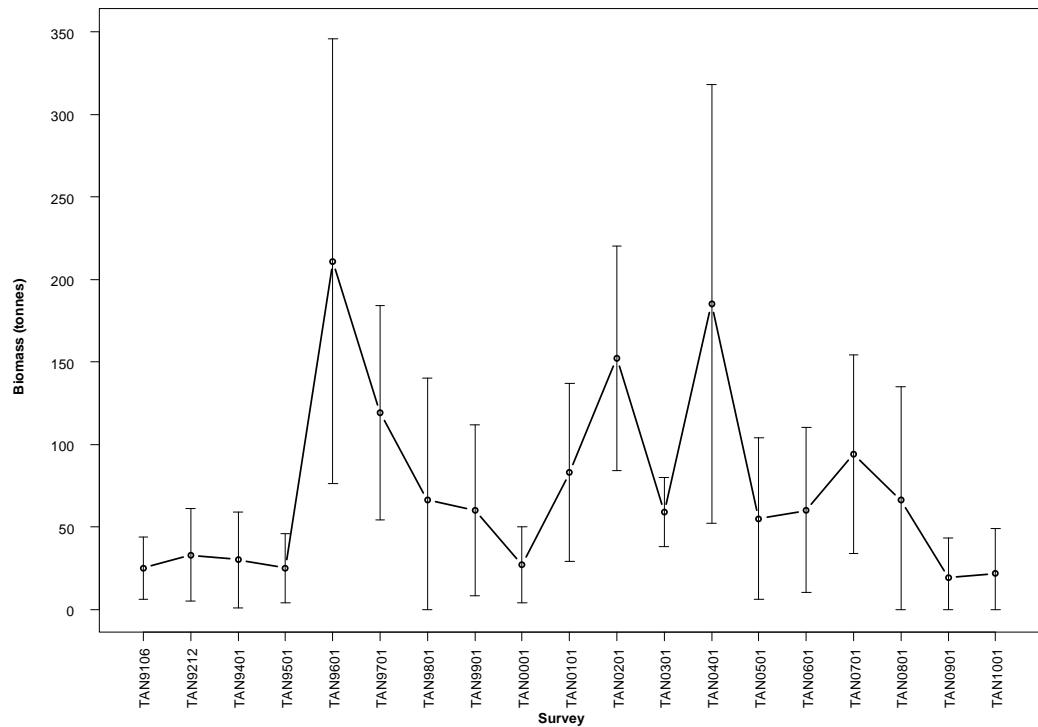
Number of surveys caught 1992–2010 (out of 19): 10
 Total catch weight (kg): 101.4

The core survey area and depth range is **not** appropriate for this group. It is found **deeper than 800 m**. Biomass of this group is **poorly** estimated in the core survey area. Biomass **shows no clear trend** since the start of the time series.

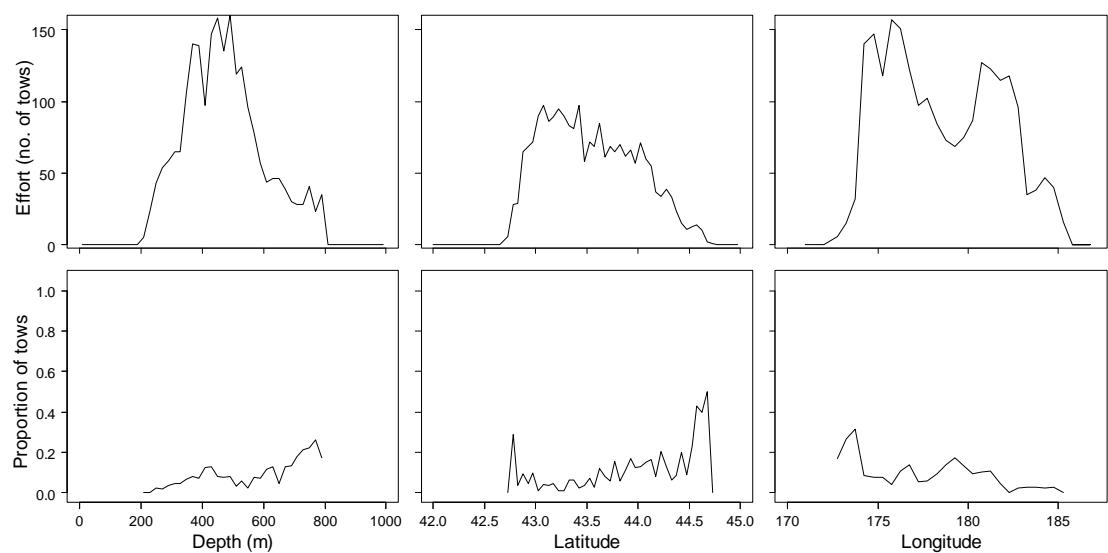
Relative biomass estimates

Year	Biomass (t)	cv (%)
1992	25	38
1993	33	43
1994	30	50
1995	25	44
1996	211	33
1997	119	28
1998	66	57
1999	60	44
2000	27	43
2001	83	33
2002	152	23
2003	59	18

2004	185	37
2005	55	46
2006	60	42
2007	94	32
2008	66	53
2009	19	64
2010	22	62



Distribution



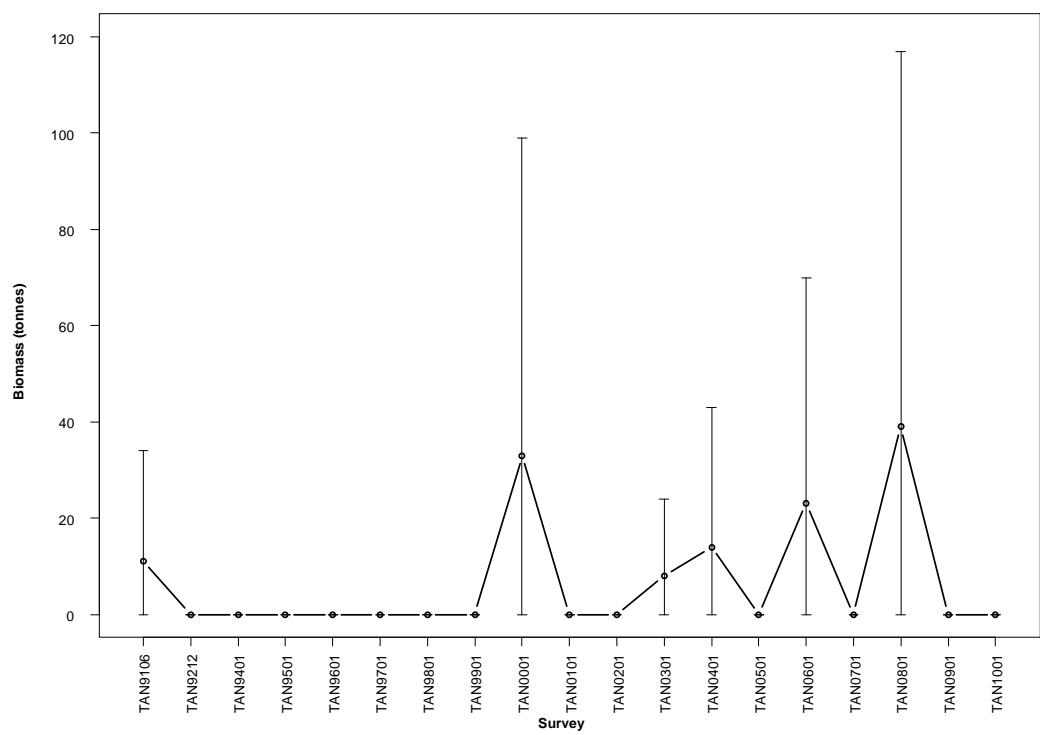


Number of surveys caught 1992–2010 (out of 19):	7
Total catch weight (kg):	132.1
Number measured	2
Length range (mean) (cm)	—
Number weighed	2
Length-weight parameters a, b (r^2)	—

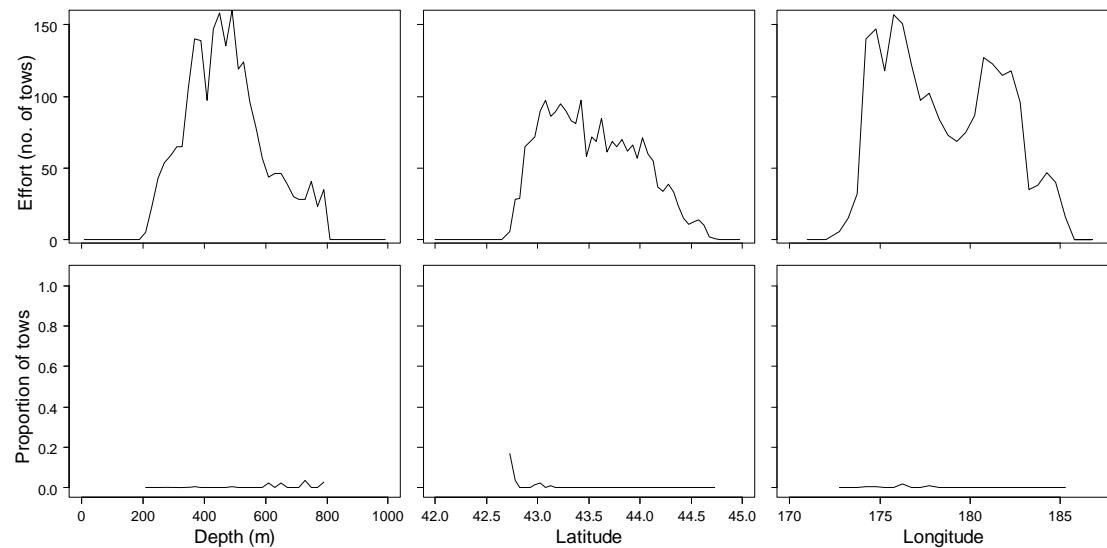
There were **too few fish caught to determine whether the core survey area is appropriate for this species**. Biomass of this species is **poorly** estimated in the core survey area. Biomass shows **no clear trend** since the start of the time series. Catch rates are highest in the **north**.

Relative biomass estimates

Year	Biomass (t)	cv (%)
1992	11	100
1993	0	-
1994	0	-
1995	0	-
1996	0	-
1997	0	-
1998	0	-
1999	0	-
2000	33	100
2001	0	-
2002	0	-
2003	8	100
2004	14	100
2005	0	-
2006	23	100
2007	0	-
2008	39	100
2009	0	-
2010	0	-



Distribution



Sponges

ONG



Coded as ANZ

Number of surveys caught 1992–2010 (out of 19):

6

Total catch weight (kg):

17.2

Coded as GLS

Number of surveys caught 1992–2010 (out of 19):

3

Total catch weight (kg):

9 530.5

Coded as HYA

Number of surveys caught 1992–2010 (out of 19):

5

Total catch weight (kg):

13 381.7

Coded as ONG

Number of surveys caught 1992–2010 (out of 19):

18

Total catch weight (kg):

69 359.9

Coded as SUA

Number of surveys caught 1992–2010 (out of 19):

6

Total catch weight (kg):

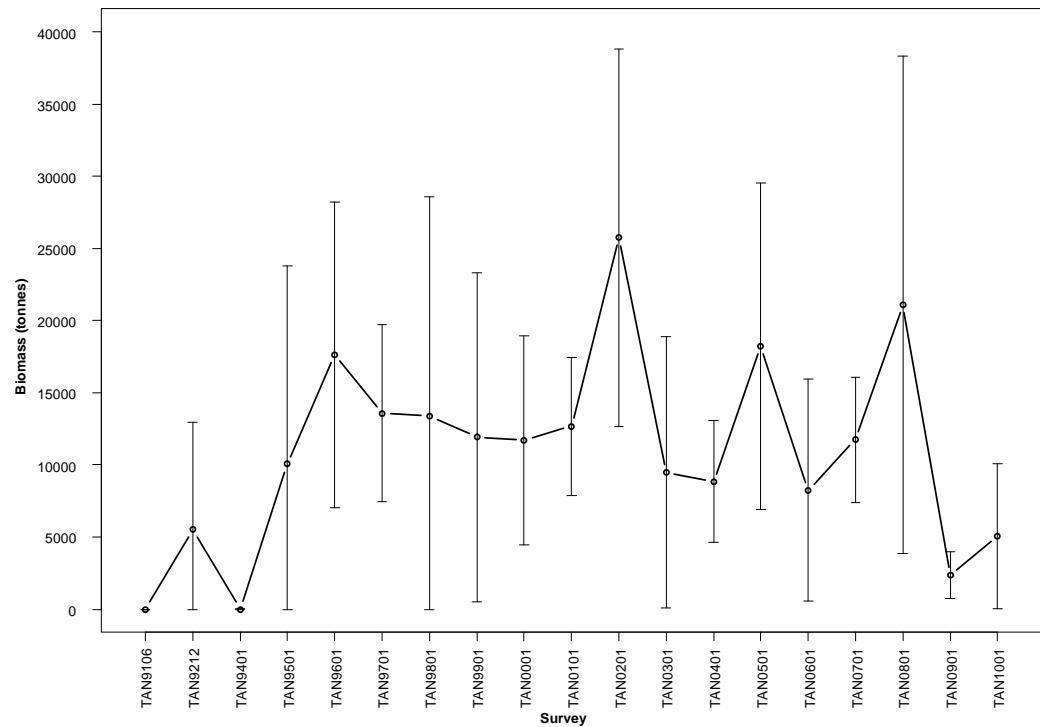
19.9

The core survey area and depth range **is** appropriate for this group. Biomass of this group is **poorly** estimated in the core survey area. Biomass **shows no clear trend** since the start of the time series, but this group was **poorly recorded** in early surveys.

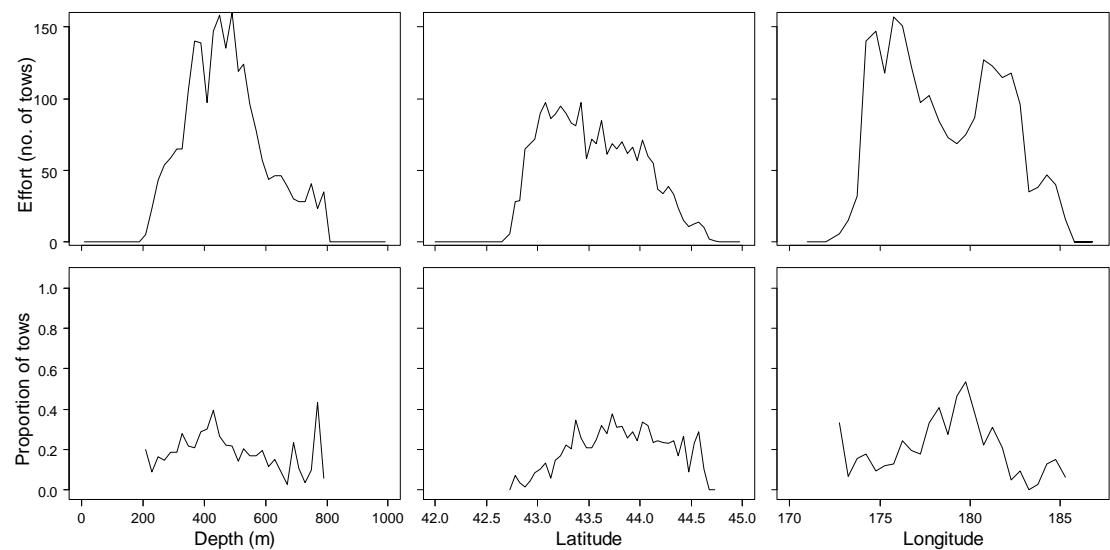
Relative biomass estimates

Year	Biomass (t)	cv (%)
1992	0	-
1993	5 522	69
1994	3	100
1995	10 057	70
1996	17 633	31
1997	13 578	23
1998	13 403	58
1999	11 916	49
2000	11 696	32
2001	12 675	19
2002	25 754	26
2003	9 485	50

2004	8 855	24
2005	18 204	32
2006	8 245	48
2007	11 747	19
2008	21 095	42
2009	2 367	35
2010	5 080	50



Distribution



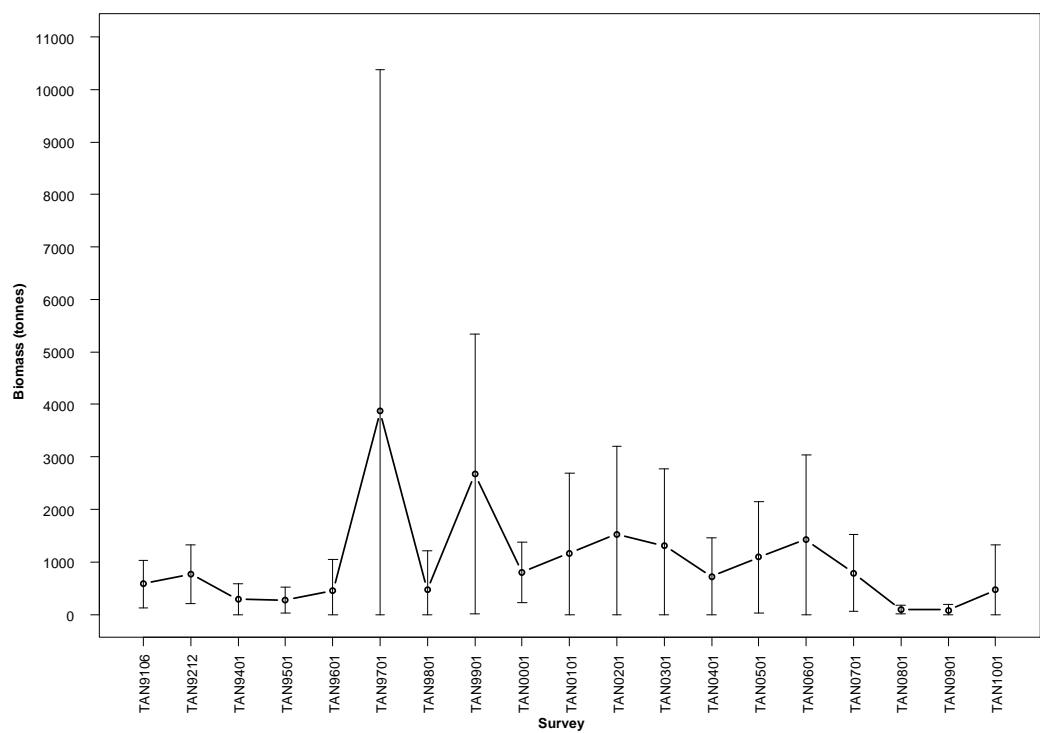


Number of surveys caught 1992–2010 (out of 19):	19
Total catch weight (kg):	11 294.3
Number measured	4 091
Length range (mean) (cm, FL)	15–38 (29.6)
Number weighed	1 427
Length-weight parameters a, b (r^2)	0.019974, 3.024211 (93.7)

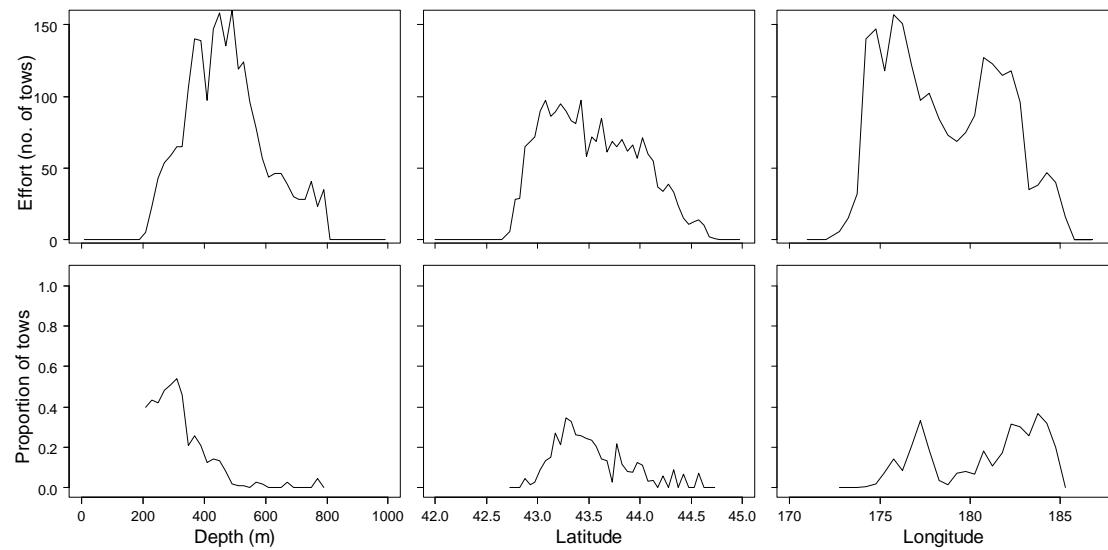
The core survey area and depth range is **not** appropriate for this species. It is found **shallower than 200 m**. Biomass of this species is **poorly** estimated in the core survey area. Biomass has **increased and then decreased** since the start of the time series. Length frequencies are usually **unimodal**. Mean length shows **no clear trend** since the start of the time series. Gonad stage data indicate that most fish are **maturing or ripe**.

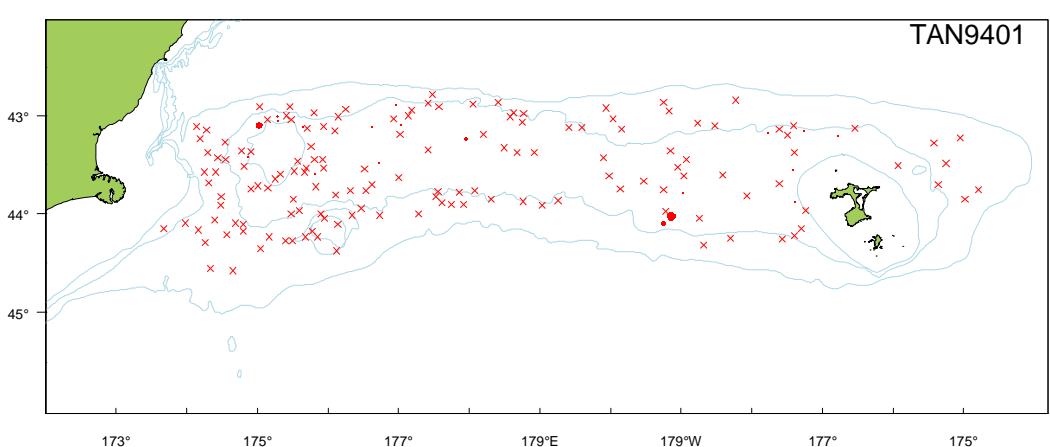
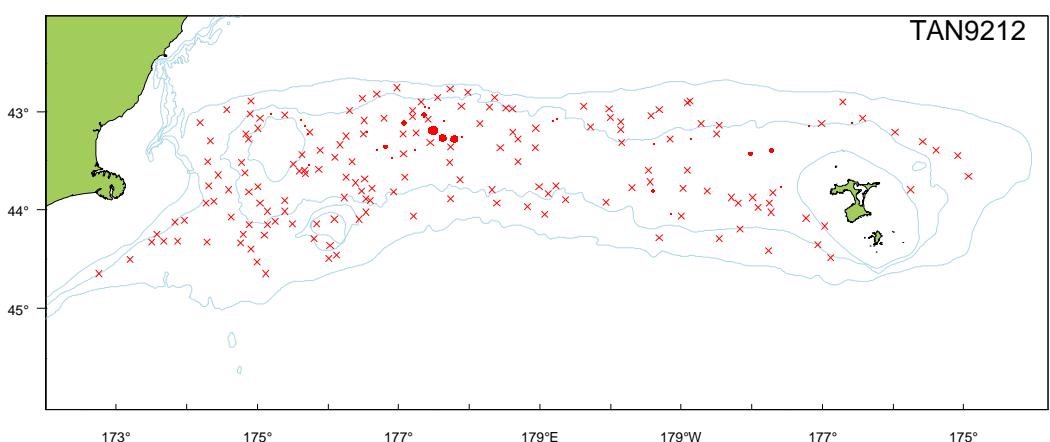
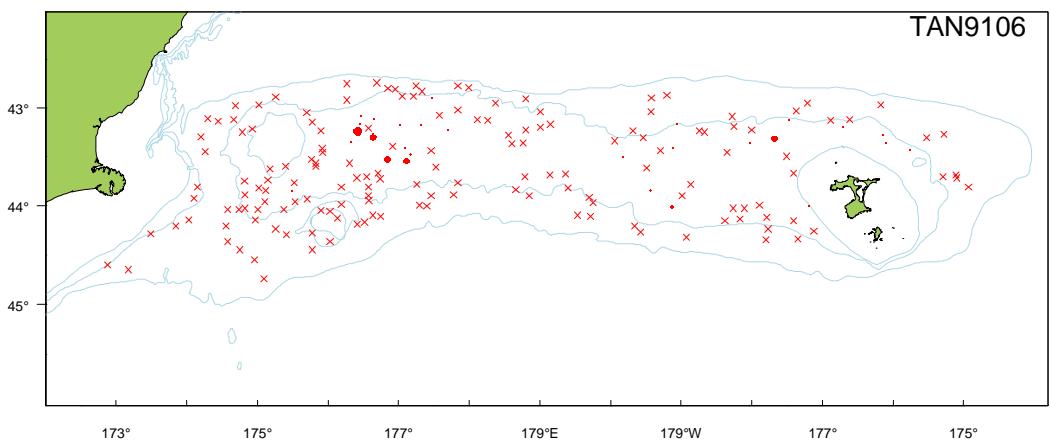
Relative biomass estimates and length summary

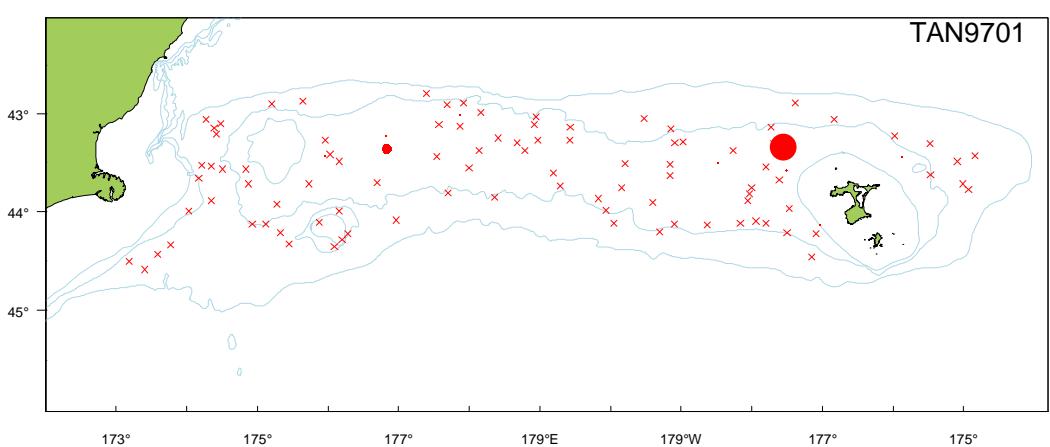
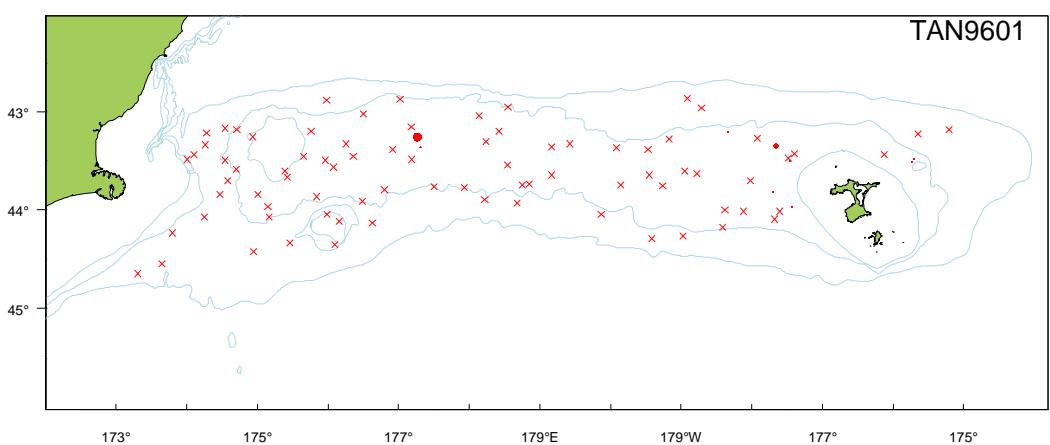
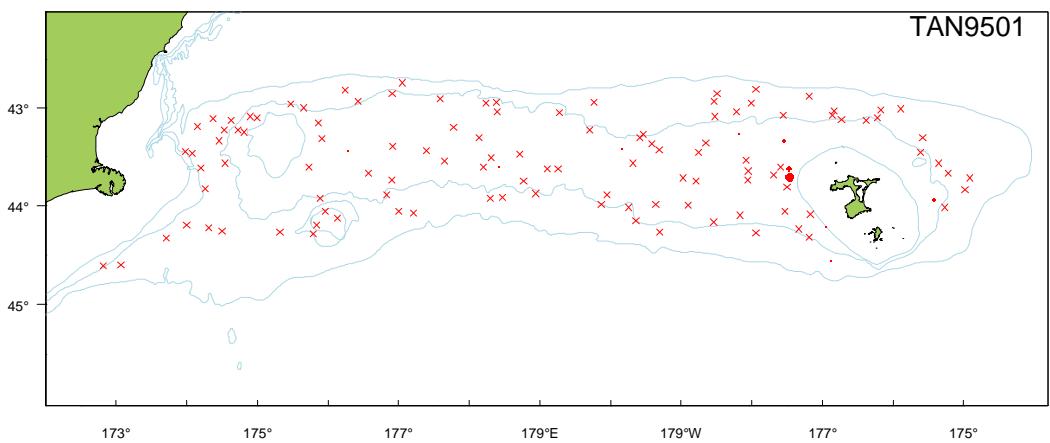
Year	Biomass (t)	cv (%)	Length (cm)			No. measure d
			Min.	Max.	Mean	
1992	580	39	-	-	-	0
1993	767	36	-	-	-	0
1994	288	52	-	-	-	0
1995	271	45	-	-	-	0
1996	455	64	-	-	-	0
1997	3 882	84	-	-	-	0
1998	462	81	-	-	-	0
1999	2 673	50	16	37	29.9	464
2000	804	36	18	36	29.1	419
2001	1 166	66	18	37	29.7	269
2002	1 528	55	16	37	28.2	284
2003	1 313	56	19	38	29.9	600
2004	719	51	15	37	29.1	339
2005	1 089	49	18	37	30.0	363
2006	1 425	57	16	37	29.7	355
2007	785	47	17	38	30.8	312
2008	94	42	20	35	28.4	74
2009	81	64	21	38	28.5	53
2010	463	93	21	37	30.3	129

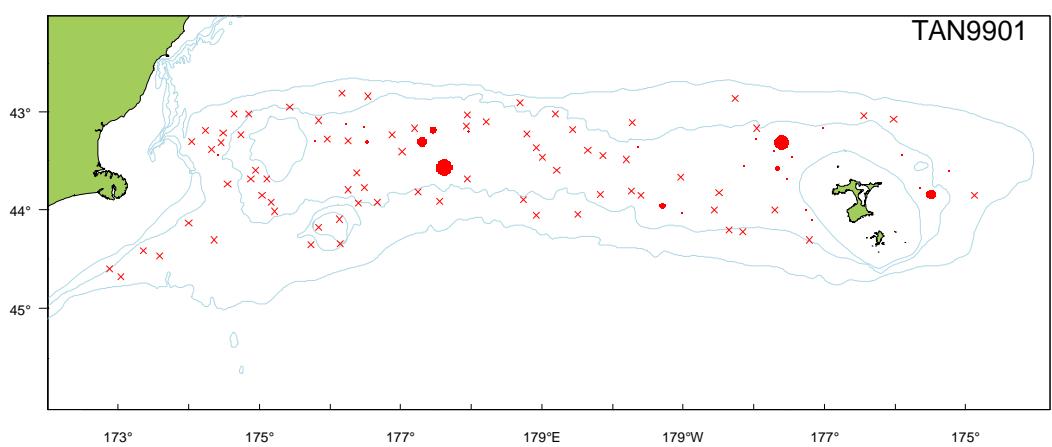
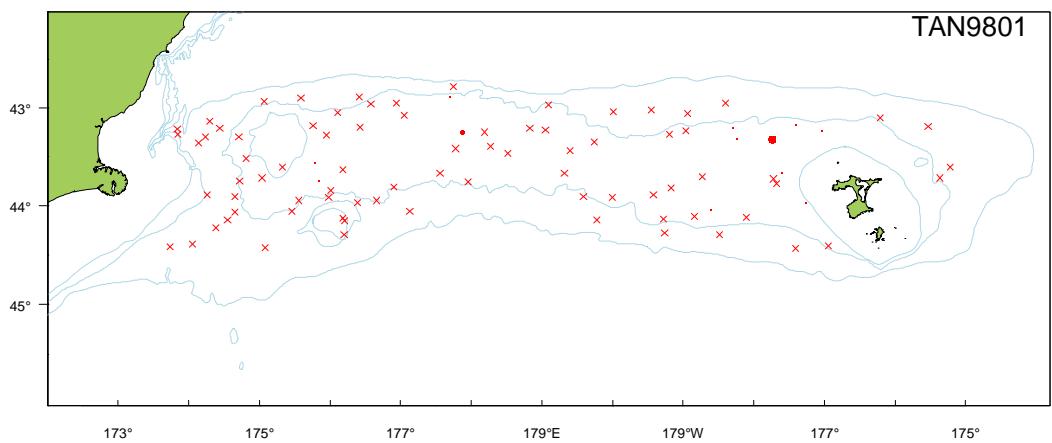


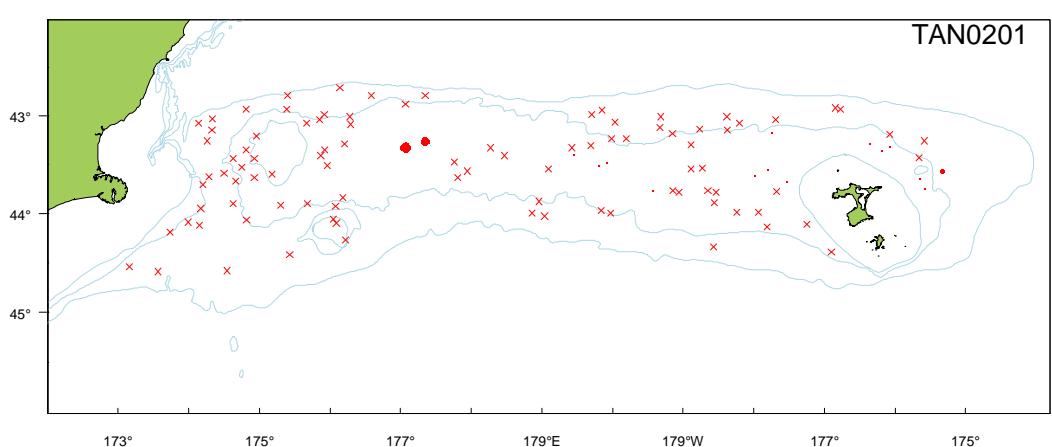
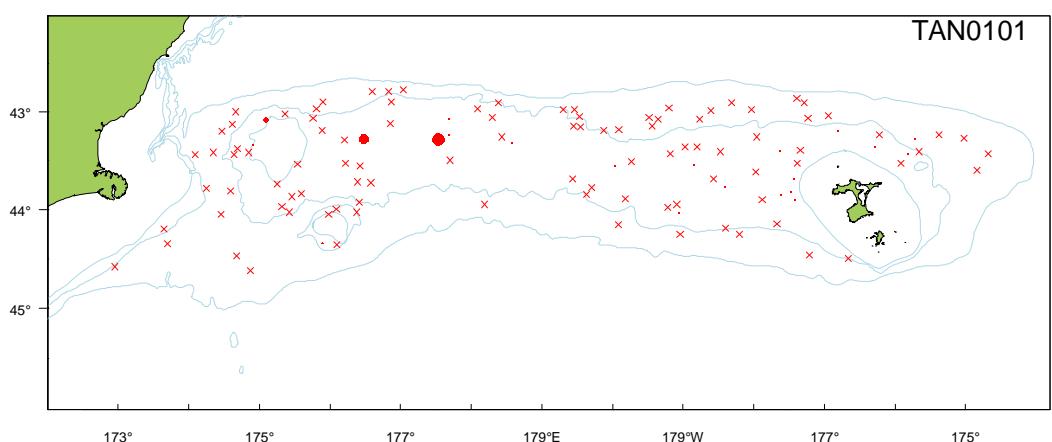
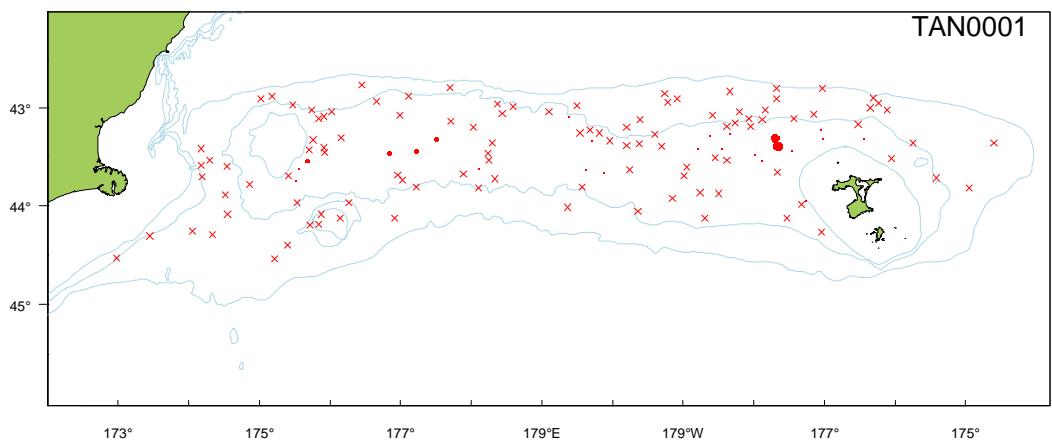
Distribution

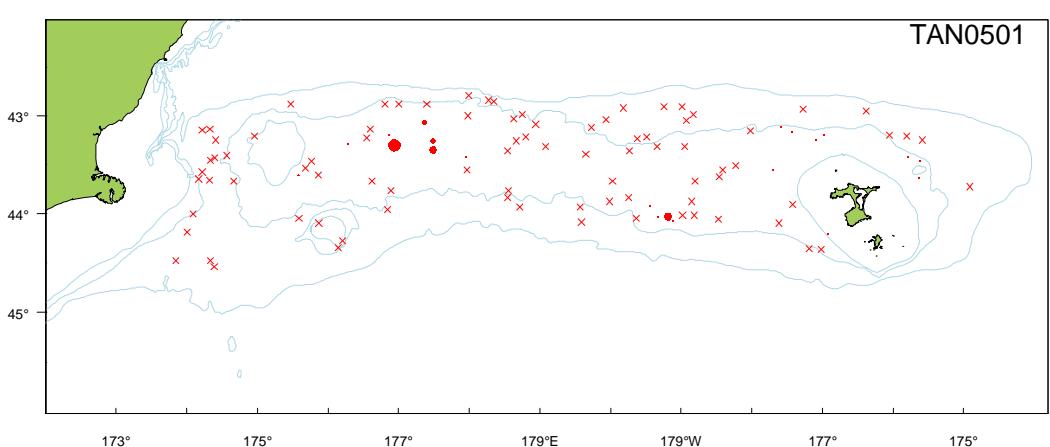
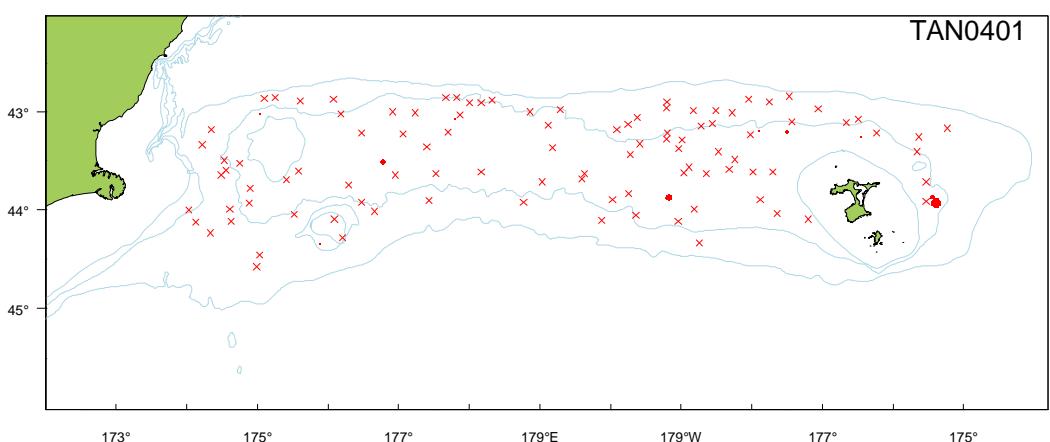
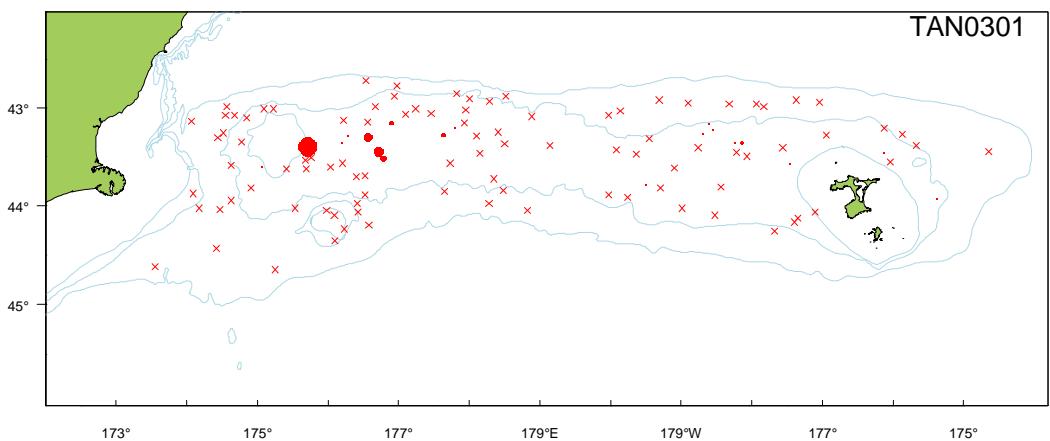


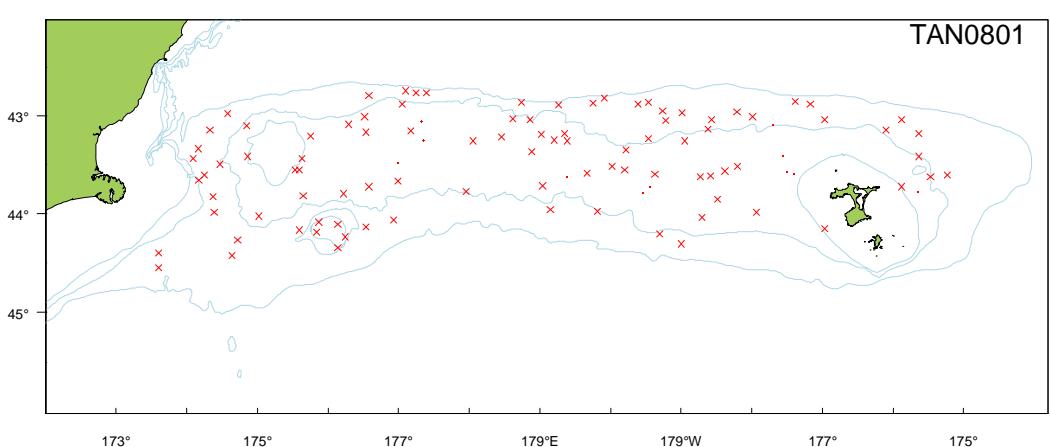
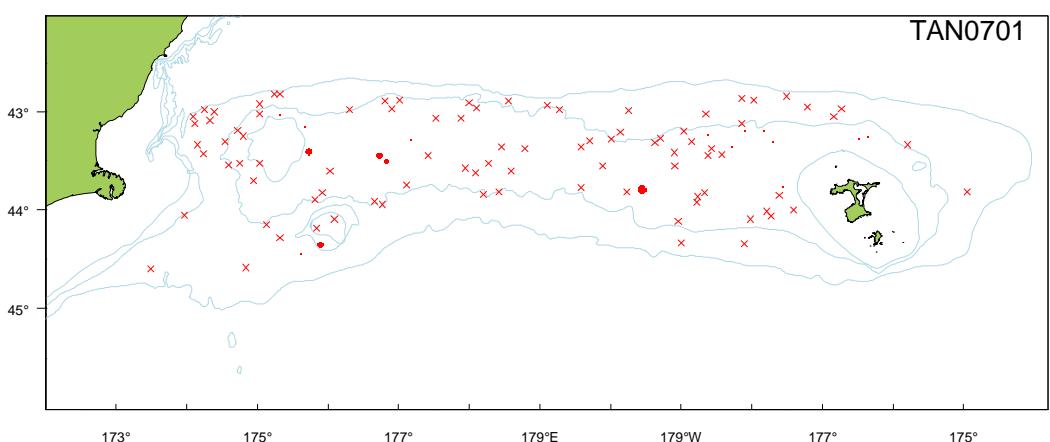
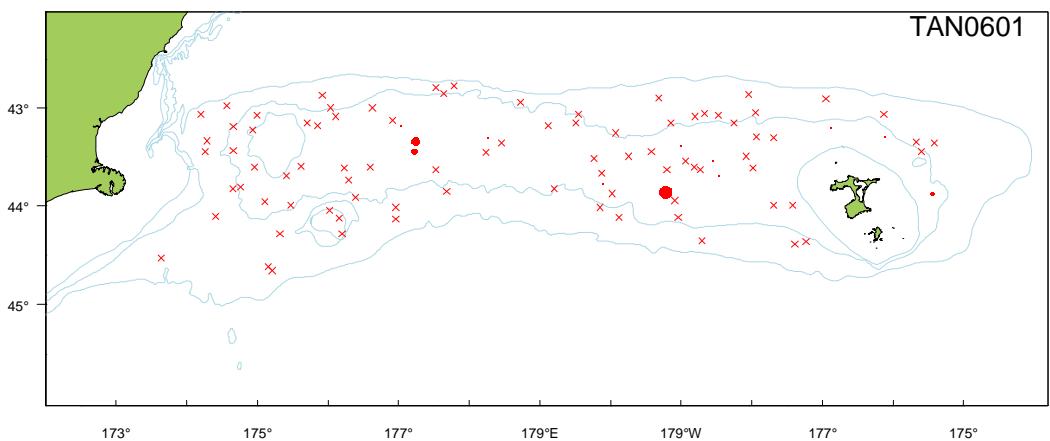


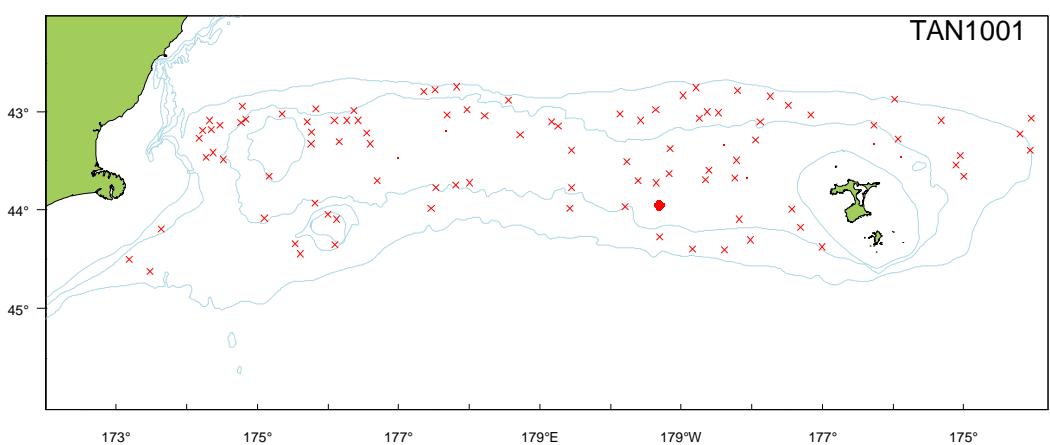
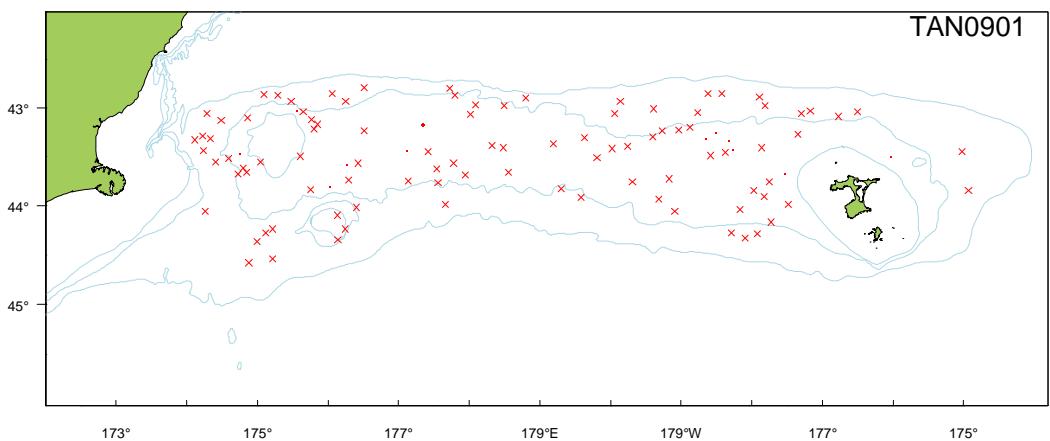




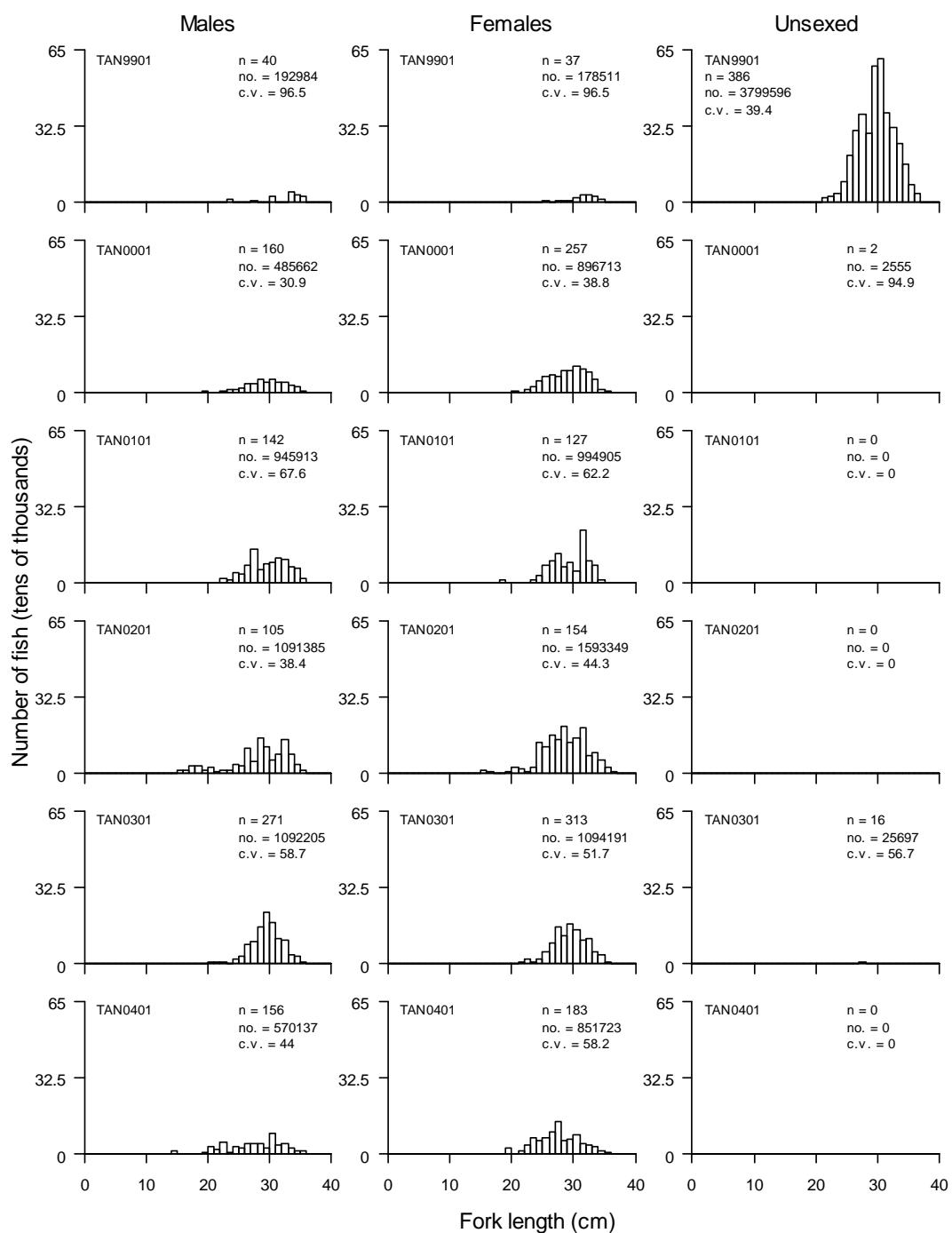


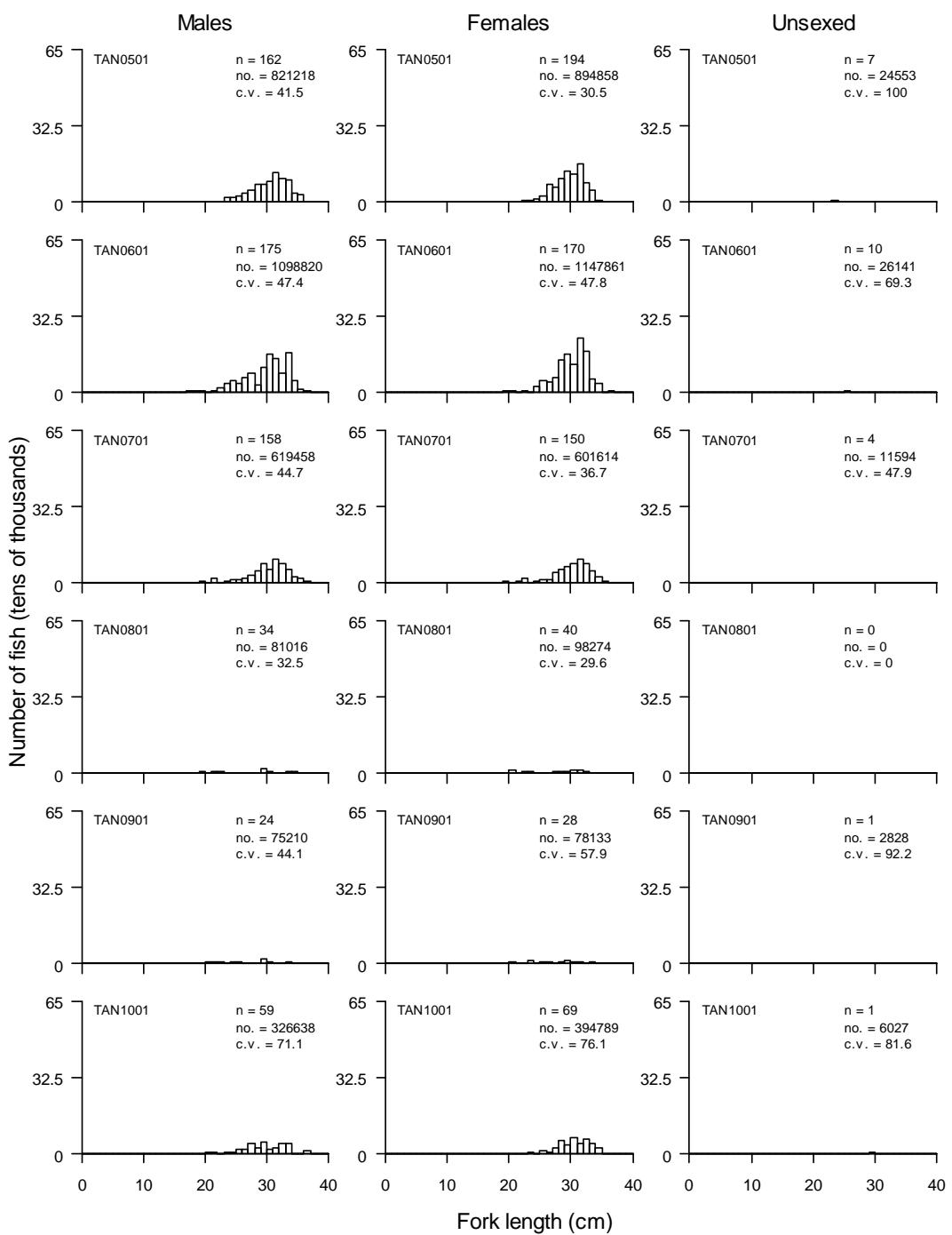






Length Frequencies





Gonad Stage Information

Males

Year	p_M1	p_M2	p_M3	p_M4	p_M5	p_M6	p_M7	n_allM
1992	NA	0						
1993	NA	0						
1994	NA	0						
1995	NA	0						
1996	NA	0						
1997	NA	0						
1998	NA	0						
1999	NA	0						
2000	NA	0						
2001	NA	0						
2002	NA	0						
2003	0	0	0.67	0.28	0.04	0	0	46
2004	NA	0						
2005	0.2	0.33	0.33	0.07	0.07	0	0	15
2006	NA	0						
2007	NA	0						
2008	NA	0						
2009	NA	0						
2010	NA	0						
ALL	0.05	0.08	0.59	0.23	0.05	0	0	61

Females

Year	p_F1	p_F2	p_F3	p_F4	p_F5	p_F6	p_F7	n_allF
1992	NA	0						
1993	NA	0						
1994	NA	0						
1995	NA	0						
1996	NA	0						
1997	NA	0						
1998	NA	0						
1999	NA	0						
2000	NA	0						
2001	NA	0						
2002	NA	0						
2003	0.02	0	0.73	0.25	0	0	0	52
2004	NA	0						
2005	0.14	0.14	0.41	0.32	0	0	0	22
2006	0	0	1	0	0	0	0	1
2007	NA	0						
2008	NA	0						
2009	NA	0						
2010	NA	0						
ALL	0.05	0.04	0.64	0.27	0	0	0	75

Orange roughy (*Hoplostethus atlanticus*)

ORH

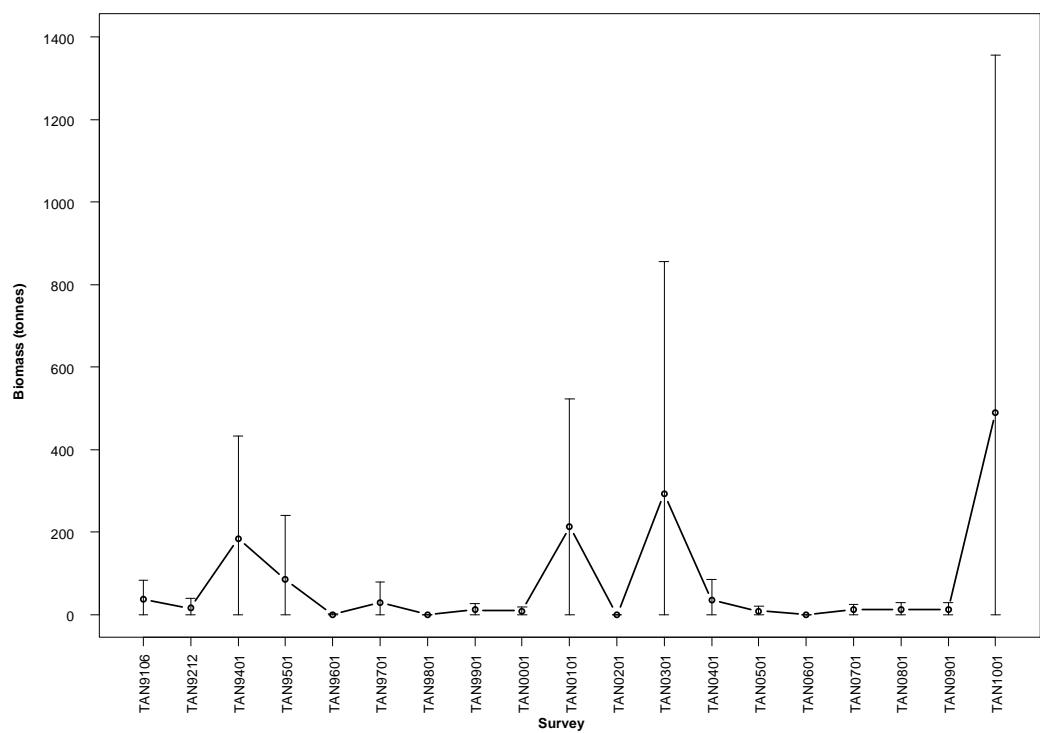


Number of surveys caught 1992–2010 (out of 19):	18
Total catch weight (kg):	2 893.2
Number measured	3 223
Length range (mean) (cm, SL)	90–40 (24.8)
Number weighed	738
Length-weight parameters a, b (r^2)	0.05042 , 2.879128 (98.8)

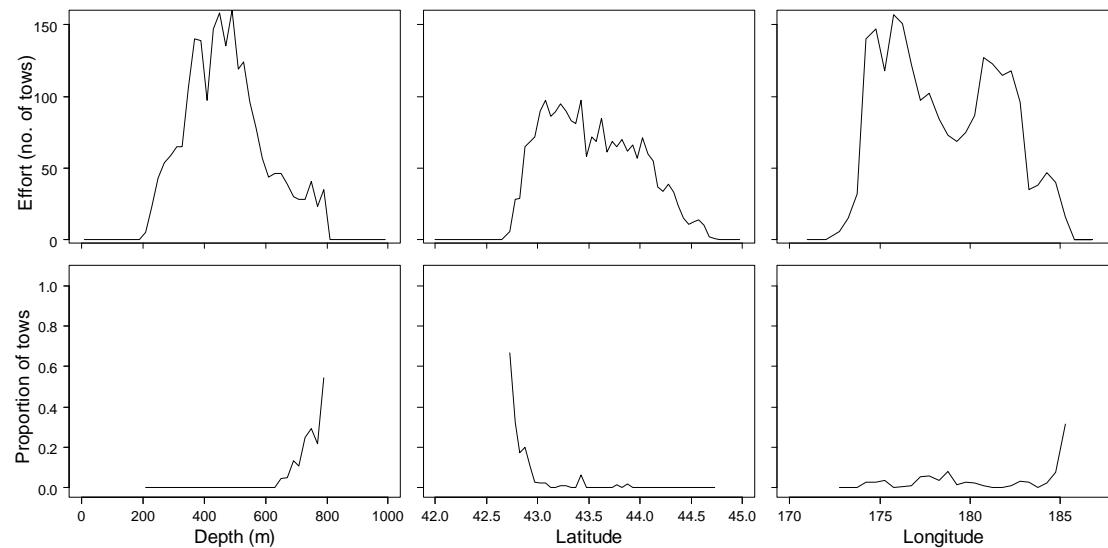
The core survey area and depth range is **not** appropriate for this species. It is found **deeper than 800 m**. Biomass of this species is **poorly** estimated in the core survey area. Biomass shows **no clear trend** since the start of the time series. Catch rates are highest in the **north and east**. Length frequencies are usually **unimodal**. Mean length has **shows no clear trend** since the start of the time series. Gonad stage data indicate that most fish are **immature or resting**.

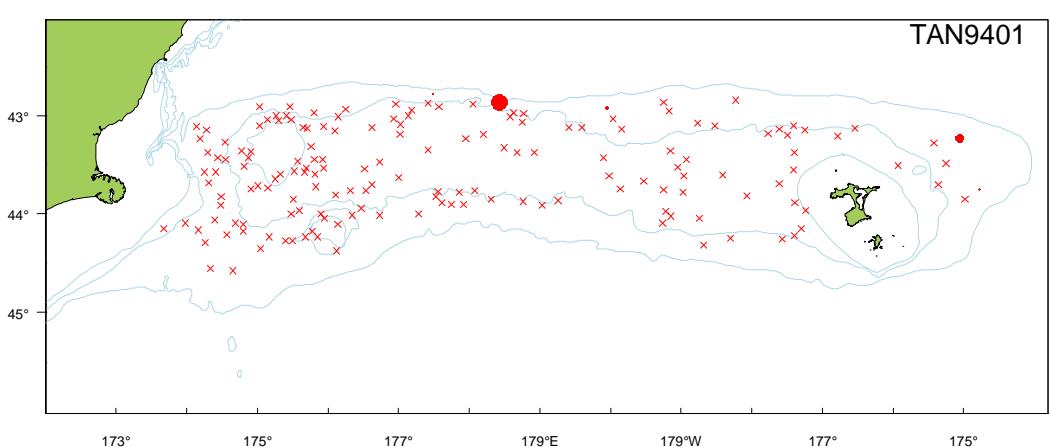
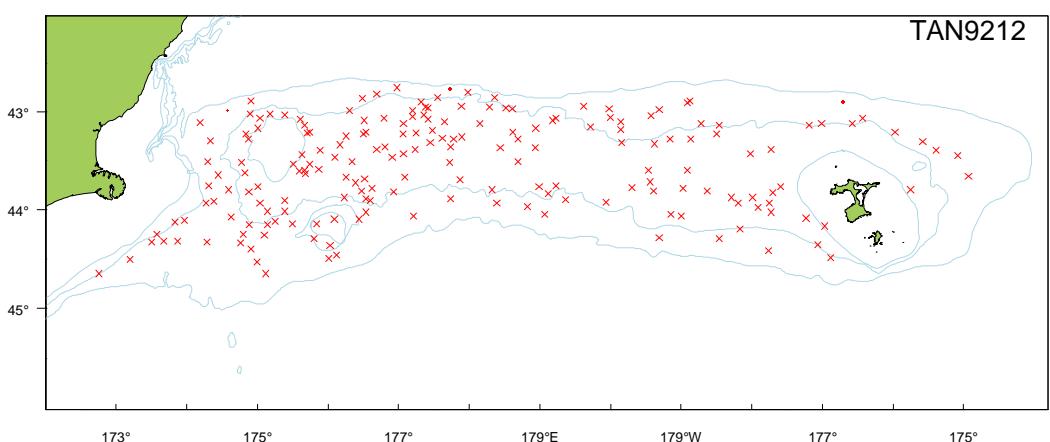
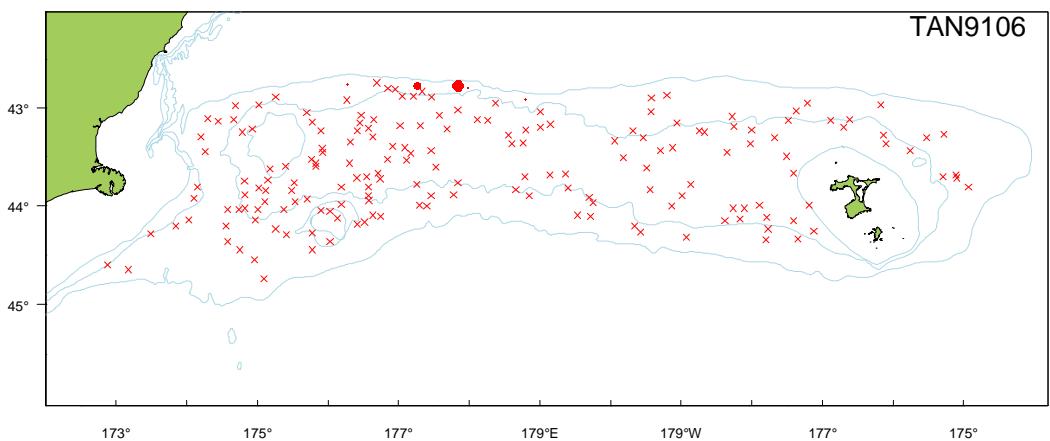
Relative biomass estimates and length summary

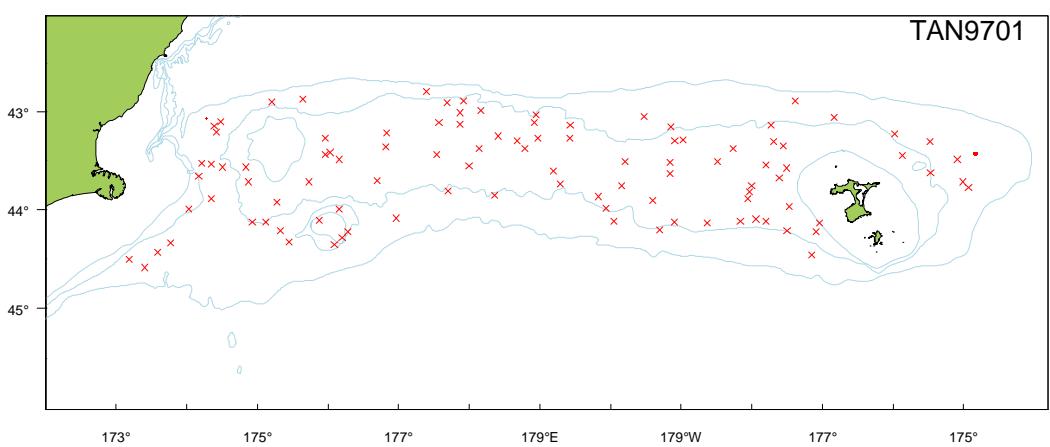
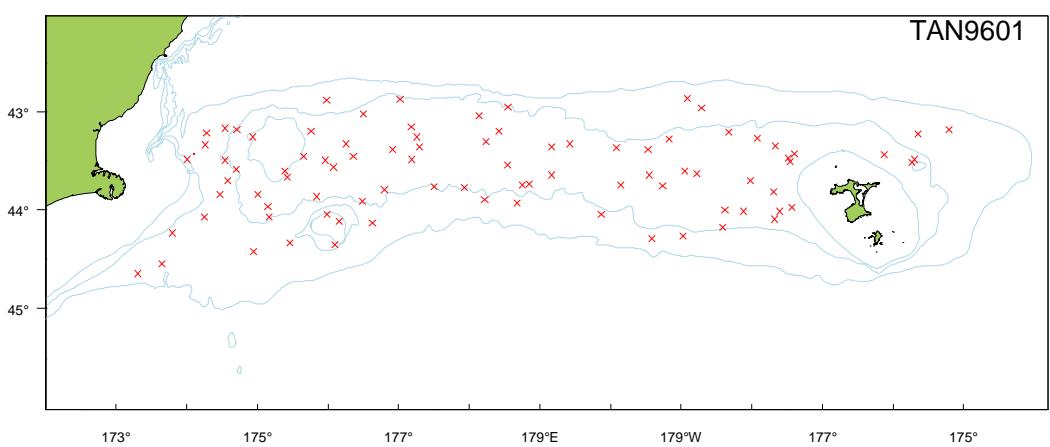
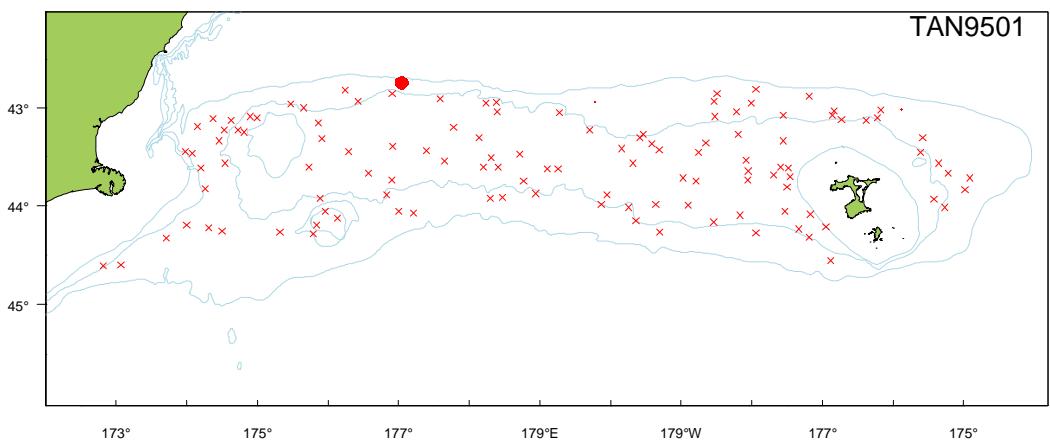
Year	Biomass (t)	cv (%)	Length (cm)			No. measure d
			Min.	Max.	Mean	
1992	37	63	11	40	22.3	105
1993	15	74	20	38	28.1	9
1994	184	68	11	36	21.6	234
1995	84	92	17	38	28.0	55
1996	0	100	14	17	15.5	2
1997	28	90	18	35	23.7	15
1998	0	0	-	-	-	0
1999	11	70	22	35	29.0	3
2000	8	61	13	31	17.8	16
2001	213	72	9	38	26.2	116
2002	0	-	-	-	-	0
2003	292	97	15	38	28.9	88
2004	34	74	16	36	27.5	22
2005	8	70	11	25	16.2	23
2006	0	-	-	-	-	0
2007	11	64	10	30	15.1	42
2008	11	71	12	34	21.1	17
2009	12	69	9	40	22.9	14
2010	489	89	12	40	30.5	191

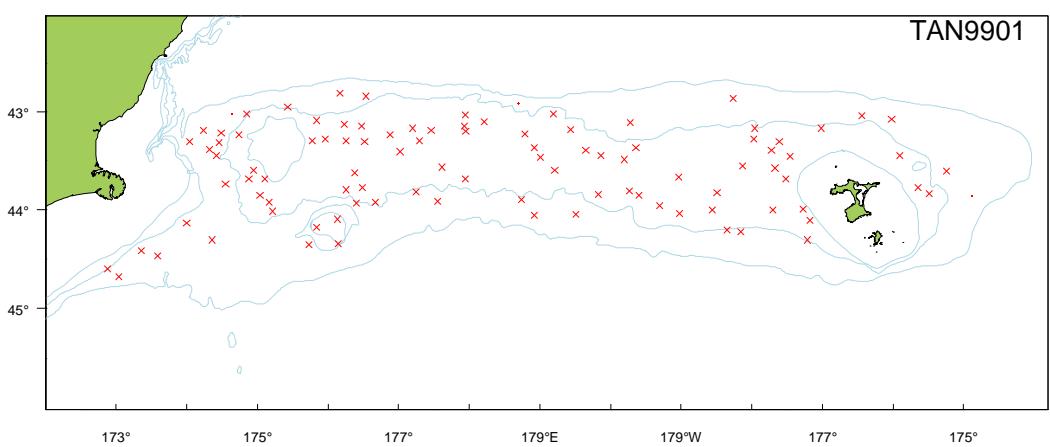
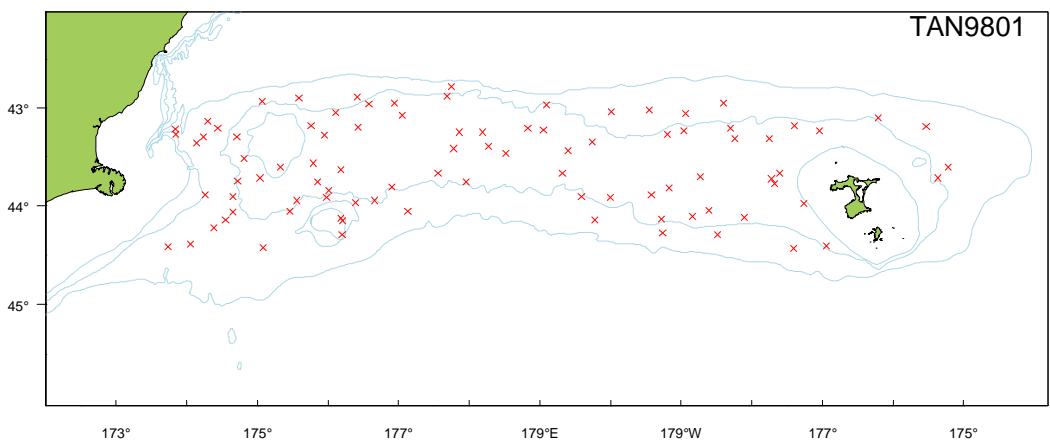


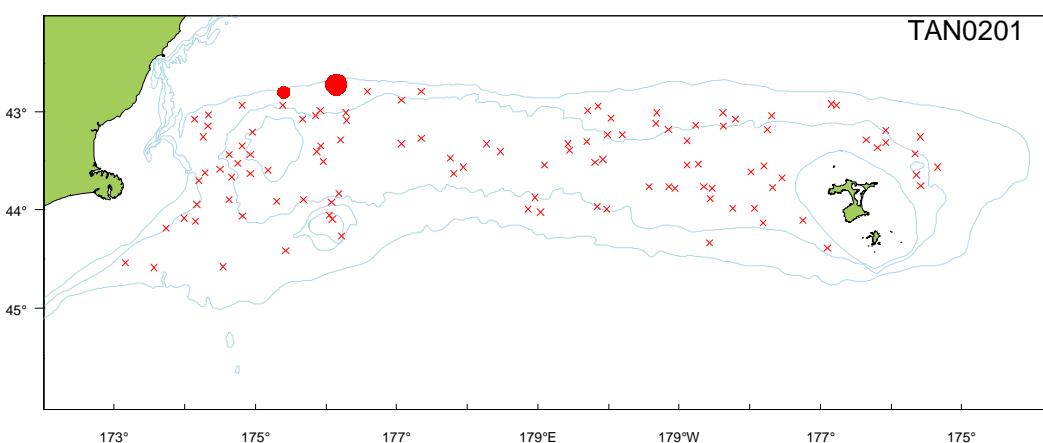
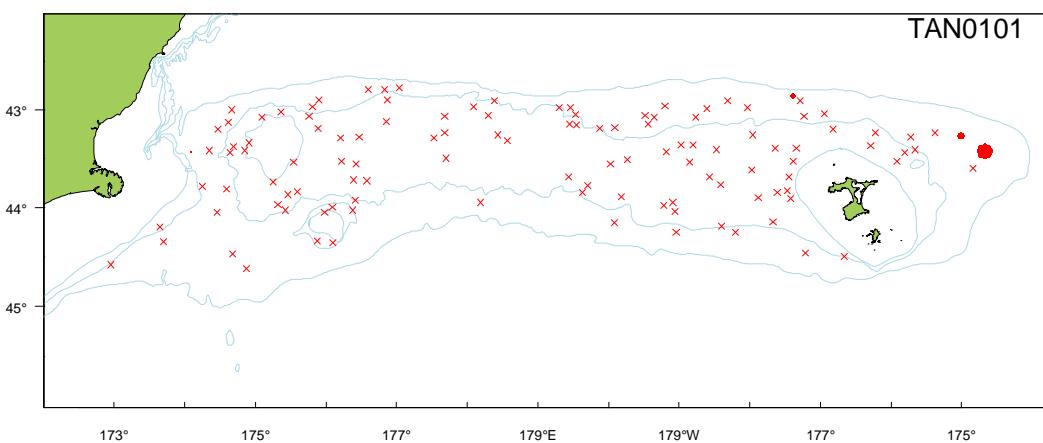
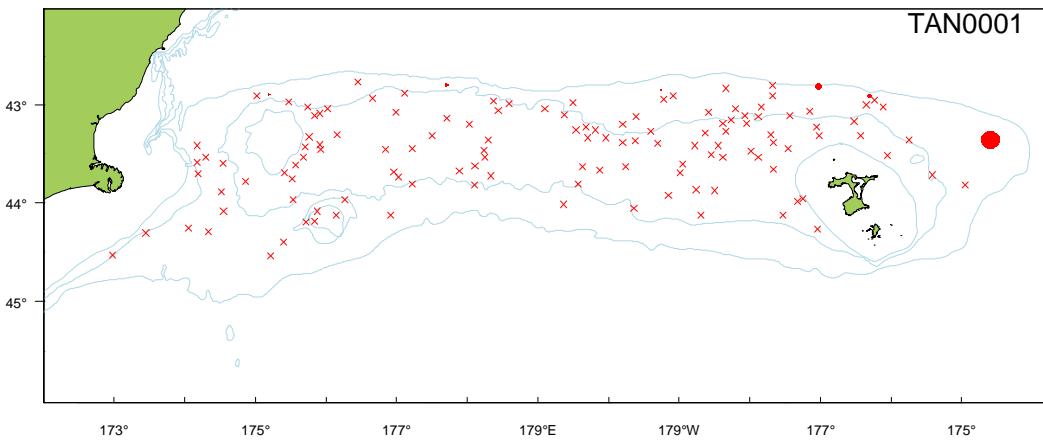
Distribution

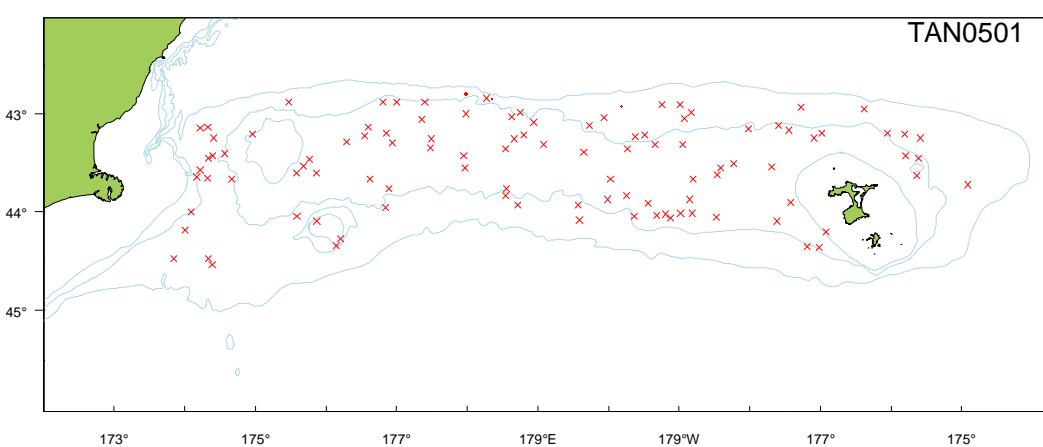
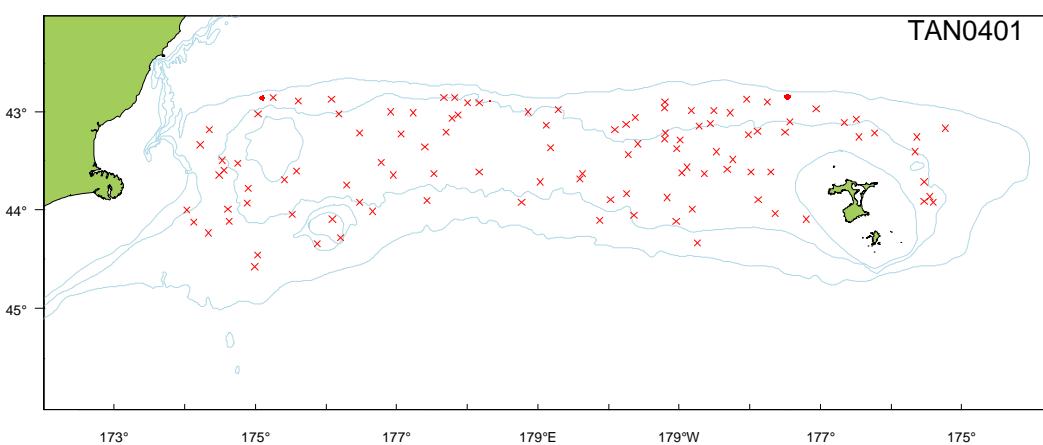
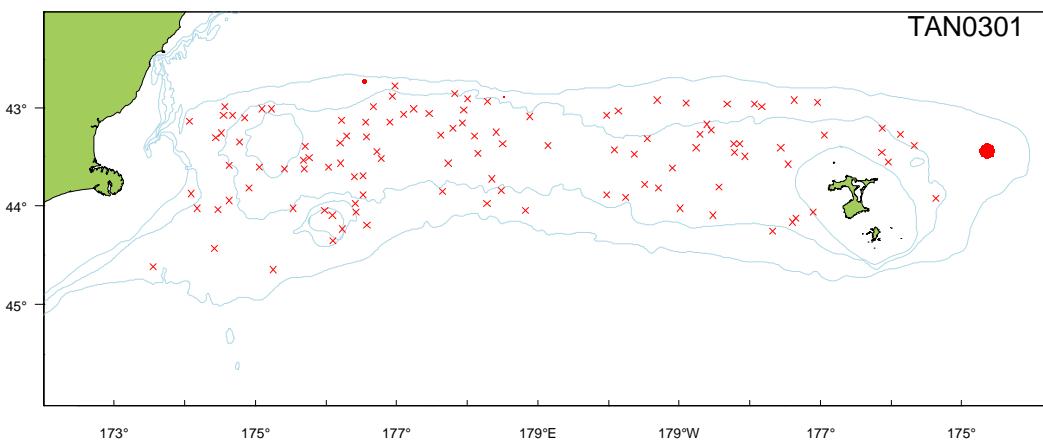


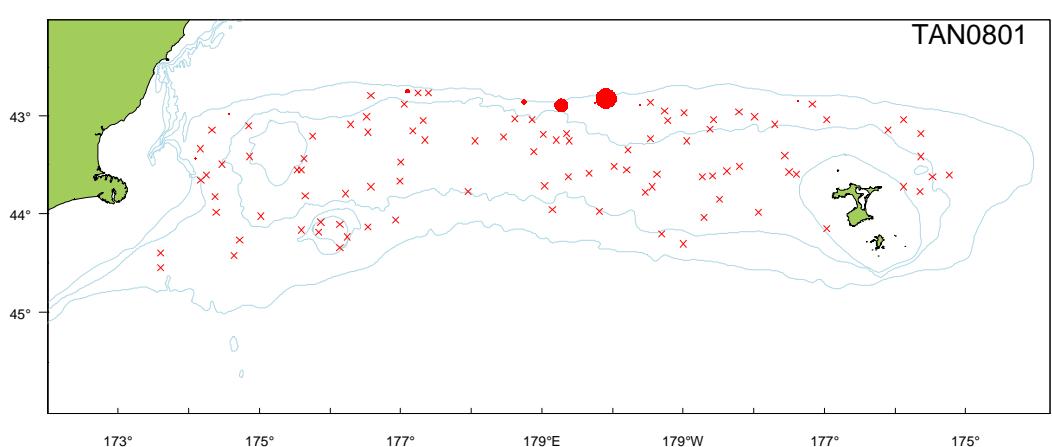
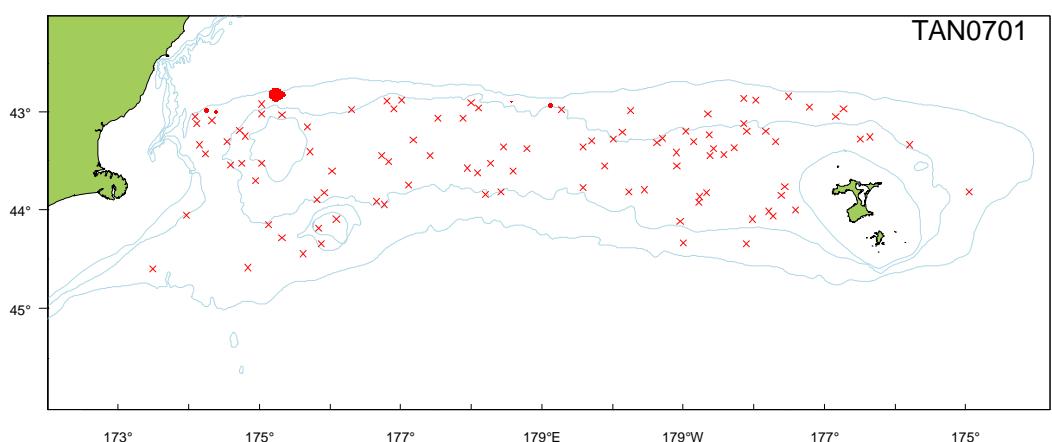
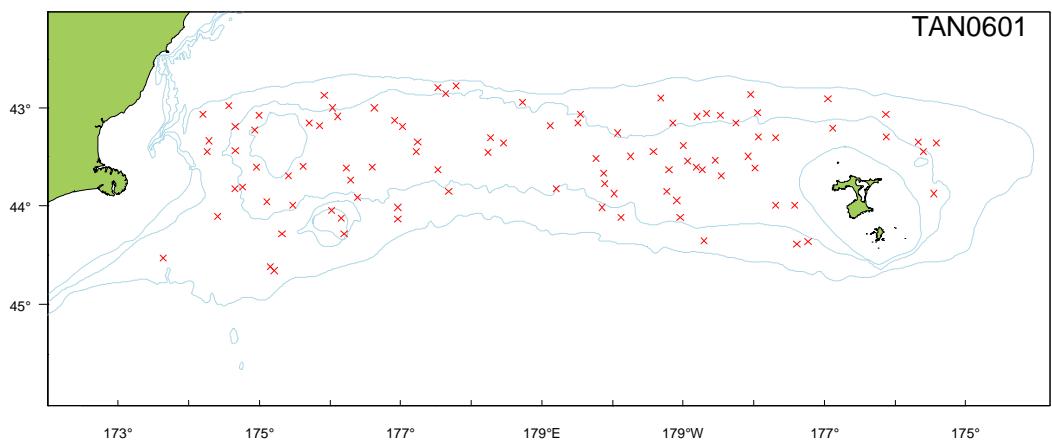


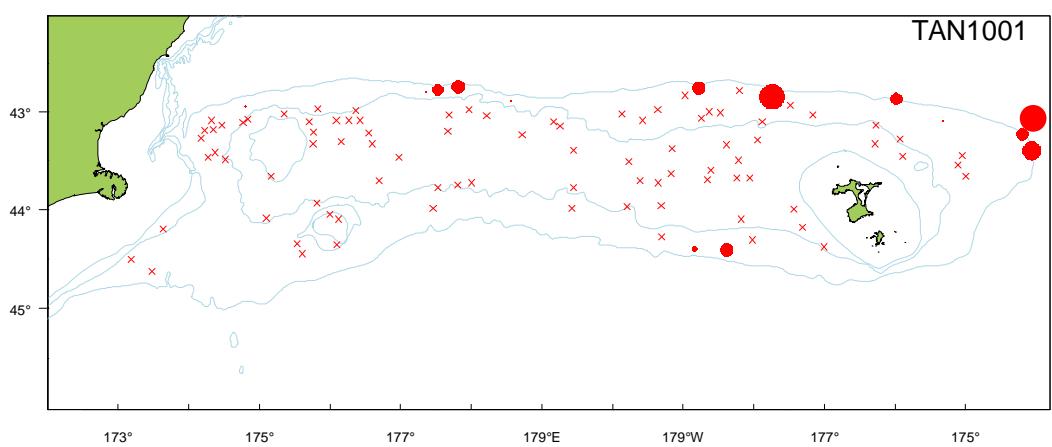
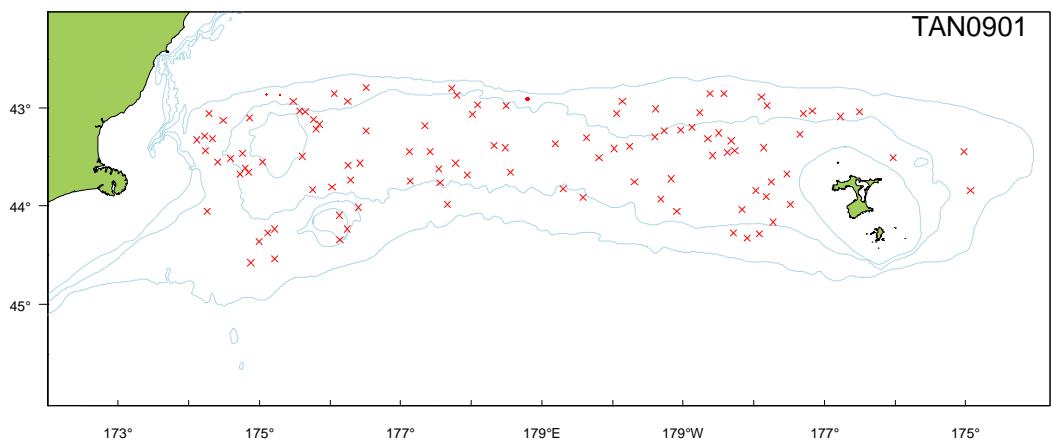




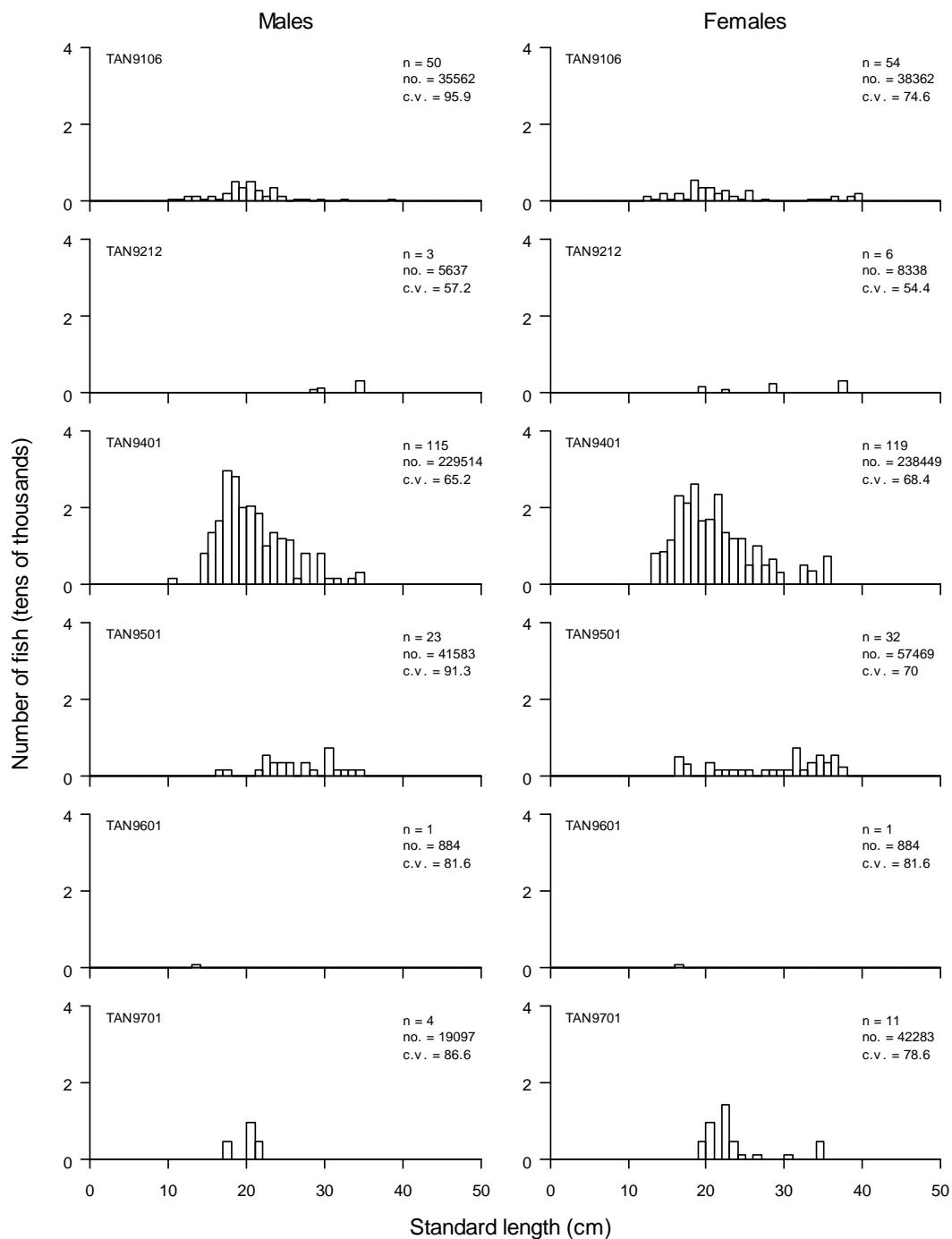


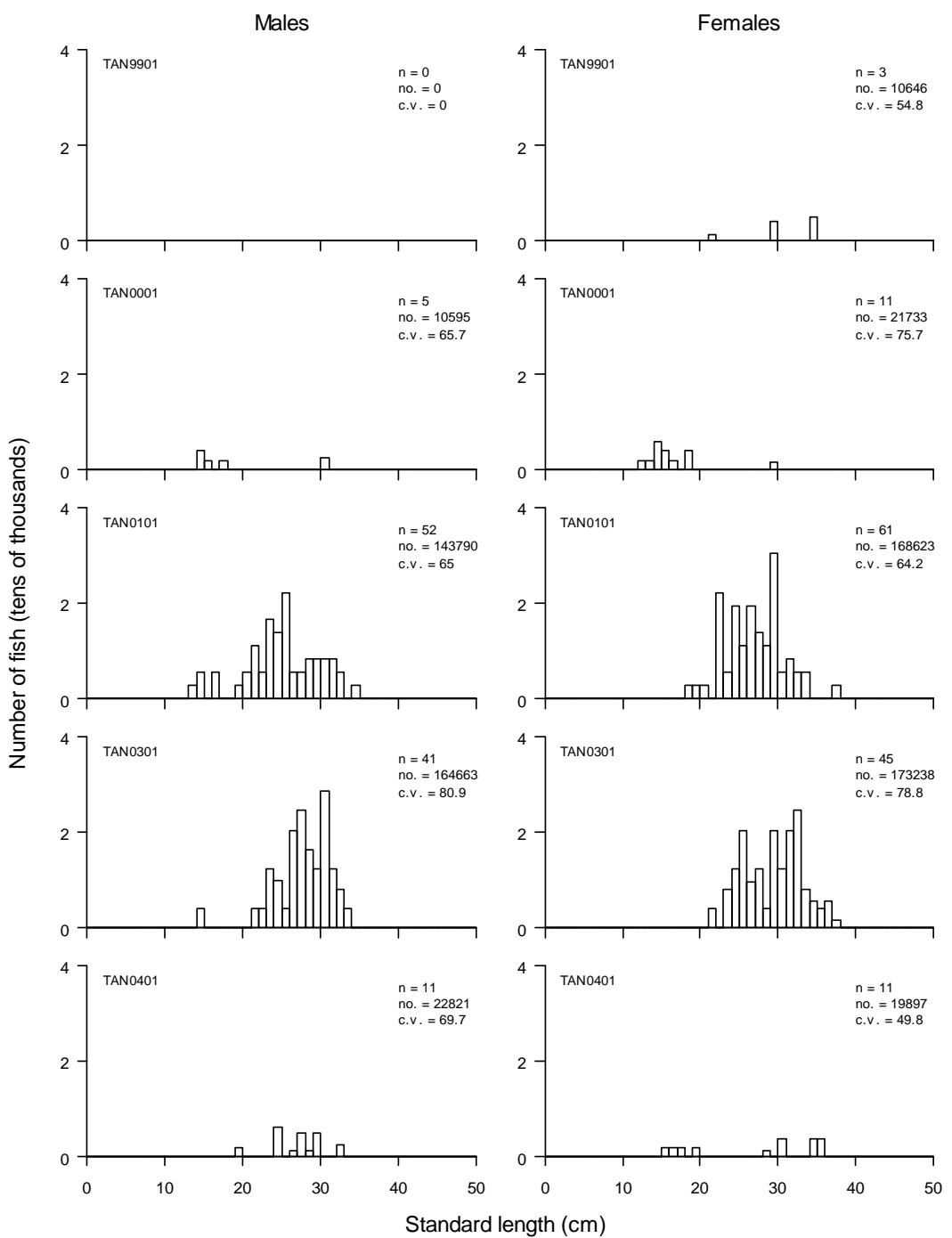


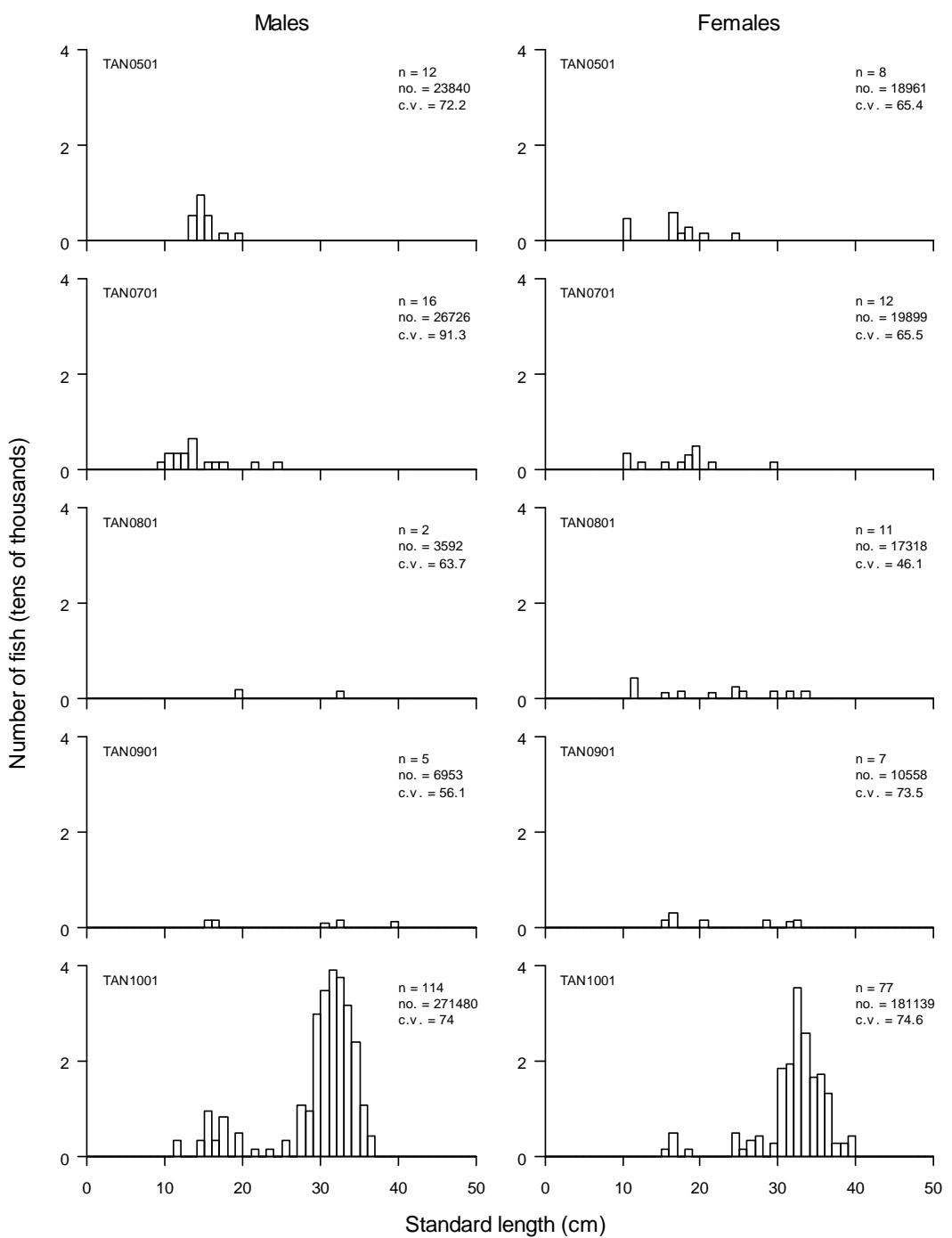




Length Frequencies







Gonad Stage Information

Males

Year	p_M1	p_M2	p_M3	p_M4	p_M5	p_M6	p_M7	p_M8	p_M9	n_allM
1992	NA	0								
1993	NA	0								
1994	NA	0								
1995	NA	0								
1996	NA	0								
1997	NA	0								
1998	NA	0								
1999	NA	0								
2000	NA	0								
2001	NA	0								
2002	NA	0								
2003	NA	0								
2004	NA	0								
2005	NA	0								
2006	NA	0								
2007	NA	0								
2008	NA	0								
2009	NA	0								
2010	0.02	0.9	0.07	0	0	0	0	0	0	81
ALL	0.02	0.9	0.07	0	0	0	0	0	0	81

Females

Year	p_F1	p_F2	p_F3	p_F4	p_F5	p_F6	p_F7	p_F8	p_F9	n_allF
1992	NA	0								
1993	NA	0								
1994	NA	0								
1995	NA	0								
1996	NA	0								
1997	NA	0								
1998	NA	0								
1999	NA	0								
2000	NA	0								
2001	NA	0								
2002	NA	0								
2003	NA	0								
2004	NA	0								
2005	NA	0								
2006	NA	0								
2007	NA	0								
2008	NA	0								
2009	NA	0								
2010	0.02	0.72	0.24	0.02	0	0	0	0	0	54
ALL	0.02	0.72	0.24	0.02	0	0	0	0	0	54