

# **Appendix A**

## **Sediment Composition**

**(1) Tabular data**

**(2) Graphic display**



Appendix A. Sediment composition in MSMP stations, 1989-1994. (1) Tabular data (percent). Values from replicate samples are averaged, and all data have been rounded to whole percentages. Blanks denote stations not sampled in a given year. For station location, see Table 1.

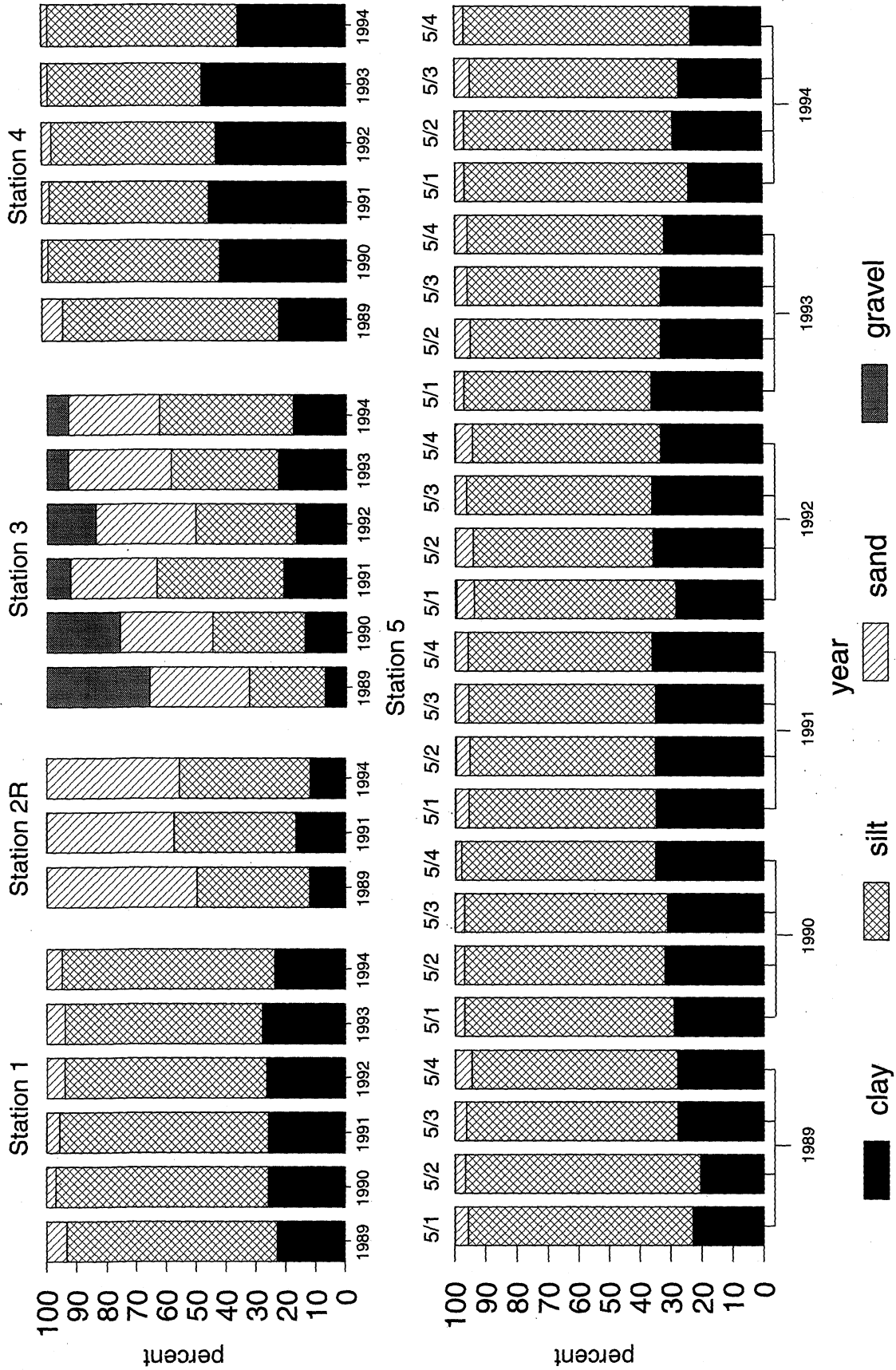
Station	1989			1990			1991			1992			1993			1994									
	Grav.	Sand	Silt	Clay	Grav.	Sand	Silt	Clay	Grav.	Sand	Silt	Clay	Grav.	Sand	Silt	Clay	Grav.	Sand	Silt	Clay					
1	0	7	70	23	0	3	71	26	0	4	70	26	0	6	68	27	0	6	66	28	0	5	71	24	
2R	0	50	38	12	0	42	41	17	0	42	41	17	0	0	0	0	0	44	44	12	0	44	44	12	
3	34	34	26	7	24	31	31	14	8	29	43	21	16	33	34	17	7	34	36	23	7	30	45	18	
4	0	7	71	23	0	2	56	42	0	2	52	46	0	3	54	43	0	2	50	48	0	2	62	36	
5	0	4	71	25	0	3	66	32	0	4	60	35	0	5	61	33	0	4	63	34	0	4	71	26	
8	1	33	49	17	0	36	45	19	0	36	46	17	0	28	51	21	2	30	47	21	2	32	51	15	
9R					3	96	0	1	3	96	0	1					11	88	1		11	88	1	0	
10R	0	63	26	12	0	67	23	10	0	67	23	10	0	0	0	0	0	62	29	9	0	62	29	9	
11R	0	75	15	9	0	71	18	11	0	71	18	11	0	0	0	0	0	65	24	11	0	65	24	11	
12	0	9	66	24	0	7	65	28	0	8	65	27	0	7	65	28	0	8	63	29	0	10	69	21	
13R	0	90	6	3	0	90	7	3	0	90	7	3	0	0	0	0	0	84	12	4	0	84	12	4	
14	0	72	17	10	0	63	23	14	0	62	24	14	0	52	31	17	0	75	16	9	0	60	28	12	
15	0	91	5	3	0	95	3	2	0	94	3	3	0	95	3	2	0	93	3	4	0	94	4	2	
17	1	7	63	29	0	2	68	30	0	6	62	32	0	3	65	32	0	5	62	33	1	11	66	22	
18	0	40	38	22	0	8	54	38	0	58	21	21	0	57	21	22	0	68	16	16	0	57	25	18	
19	0	19	34	48	0	17	37	46	0	18	33	49	0	19	32	50	0	19	32	49	0	25	38	37	
20	0	6	73	21	0	3	66	31	0	4	61	36	0	4	64	31	0	8	62	30	0	8	69	23	
21	0	48	46	6	0	39	49	12	0	20	63	18	0	38	48	14	0	33	53	14	0	40	53	7	
22	0	96	3	2	1	94	3	3	0	87	6	7	0	92	2	6	0	94	2	4	0	96	3	1	
23R	2	96	1	1					1	96	1	2													
24R	0	13	48	39	0	10	52	38	0	10	52	38	0	10	52	38	0	10	52	38	0	10	52	38	
25R	0	98	0	1	0	97	1	3	0	97	1	3	0	97	1	3	0	97	1	3	0	97	1	3	
26	0	84	9	7	0	79	11	10	53	30	9	8	0	73	14	13	0	76	13	11	0	79	13	8	
27R	0	97	1	2					0	97	1	2													
29	0	17	69	14	0	7	59	34	0	16	51	33	0	12	55	33	0	21	49	30	0	12	59	29	
30	0	44	48	8	0	38	46	16	0	77	17	6	0	64	25	11	0	49	37	14	0	70	26	4	
32	0	93	3	4	0	93	3	5	0	87	9	5	0	94	3	3	0	94	2	4	0	94	6	0	
33	1	75	19	5	4	62	23	11	0	93	3	4	2	65	24	9	6	65	21	8	2	66	27	5	
34	0	8	72	20	0	5	62	33	0	7	59	34	0	10	59	31	8	10	54	28	1	7	65	27	

Appendix A. Continued.

Station	1989				1990				1991				1992				1993				1994			
	Grav.	Sand	Silt	Clay	Grav.	Sand	Silt	Clay	Grav.	Sand	Silt	Clay	Grav.	Sand	Silt	Clay	Grav.	Sand	Silt	Clay	Grav.	Sand	Silt	Clay
35	0	21	69	10	0	18	53	30	0	20	48	32	0	19	51	29	0	20	51	29	2	18	58	23
36R	0	98	1	2	0	98	1	1	0	97	1	2	0	97	1	2	0	96	1	3	0	97	1	2
37R	1	93	4	2	0	72	21	7	16	81	1	2	0	81	1	2	0	81	1	2	0	81	1	2
38	0	7	50	42	0	2	48	51	0	5	44	51	0	7	47	46	0	3	47	50	0	5	53	43
39	0	98	0	1	0	98	1	1	0	97	1	2	0	97	1	2	0	96	1	3	0	97	1	2
40	1	84	11	4	0	72	21	7	1	67	22	10	1	67	22	10	0	68	21	11	1	66	25	8
41	0	19	69	12	0	34	56	10	0	30	60	10	0	25	59	16	0	15	66	19	1	14	69	16
43	0	94	3	3	0	93	3	4	0	94	3	3	0	94	3	3	0	93	3	4	0	94	4	2
44	1	84	10	5	1	85	8	7	0	83	9	8	0	82	8	9	1	82	9	9	0	84	10	6
45	1	44	46	9	0	40	38	22	0	40	41	19	0	44	39	17	0	48	36	16	0	44	42	14
46R	7	83	8	2	0	81	13	6	0	64	5	5	26	73	7	6	0	78	16	6	0	85	6	5
47	0	77	16	8	4	84	6	6	0	10	55	35	0	11	56	33	0	10	60	30	4	14	63	23
48	3	16	45	36	0	8	37	55	0	16	50	34	0	12	55	33	0	16	50	34	6	16	57	21
49	0	12	58	30	0	3	62	35	0	16	50	34	0	12	55	33	0	16	50	34	6	16	57	21
69	0	12	58	30	0	85	10	5	0	79	15	6	0	82	12	6	0	81	13	6	0	81	15	4
70	0	36	40	24	0	36	40	24	0	32	43	24	0	33	41	26	0	50	29	21	2	52	30	16
71	0	54	27	19	0	54	27	19	0	44	38	18	0	47	33	21	0	46	35	19	0	52	35	13
101R	0	10	63	27	0	10	63	27	0	10	63	27	0	10	63	27	0	14	58	28	0	52	35	13
102R	0	12	54	34	0	12	54	34	0	12	54	34	0	12	54	34	12	26	37	25	0	52	35	13
103R	0	92	3	5	0	92	3	5	0	92	3	5	0	92	3	5	0	91	4	5	0	92	3	5
104R	0	2	59	39	0	2	59	39	0	2	59	39	0	2	59	39	0	9	57	34	0	52	35	13
105R	1	24	46	29	1	24	46	29	1	24	46	29	1	24	46	29	0	29	44	27	0	52	35	13
106R	1	13	55	31	1	13	55	31	1	13	55	31	1	13	55	31	0	7	59	34	0	52	35	13
109R	1	8	65	26	1	8	65	26	1	8	65	26	1	8	65	26	0	16	62	22	0	52	35	13
110R	0	9	58	33	0	9	58	33	0	9	58	33	0	9	58	33	4	21	50	25	0	52	35	13
111R	0	64	19	17	0	64	19	17	0	64	19	17	0	64	19	17	0	33	41	26	0	52	35	13
112R	0	99	0	1	0	99	0	1	0	99	0	1	0	99	0	1	0	97	0	3	0	52	35	13
113R	0	80	13	7	0	80	13	7	0	80	13	7	0	80	13	7	0	84	10	6	0	52	35	13
114R	0	13	66	21	0	13	66	21	0	13	66	21	0	13	66	21	0	14	63	23	0	52	35	13
115R	0	28	53	19	0	28	53	19	0	28	53	19	0	28	53	19	0	25	57	18	0	52	35	13

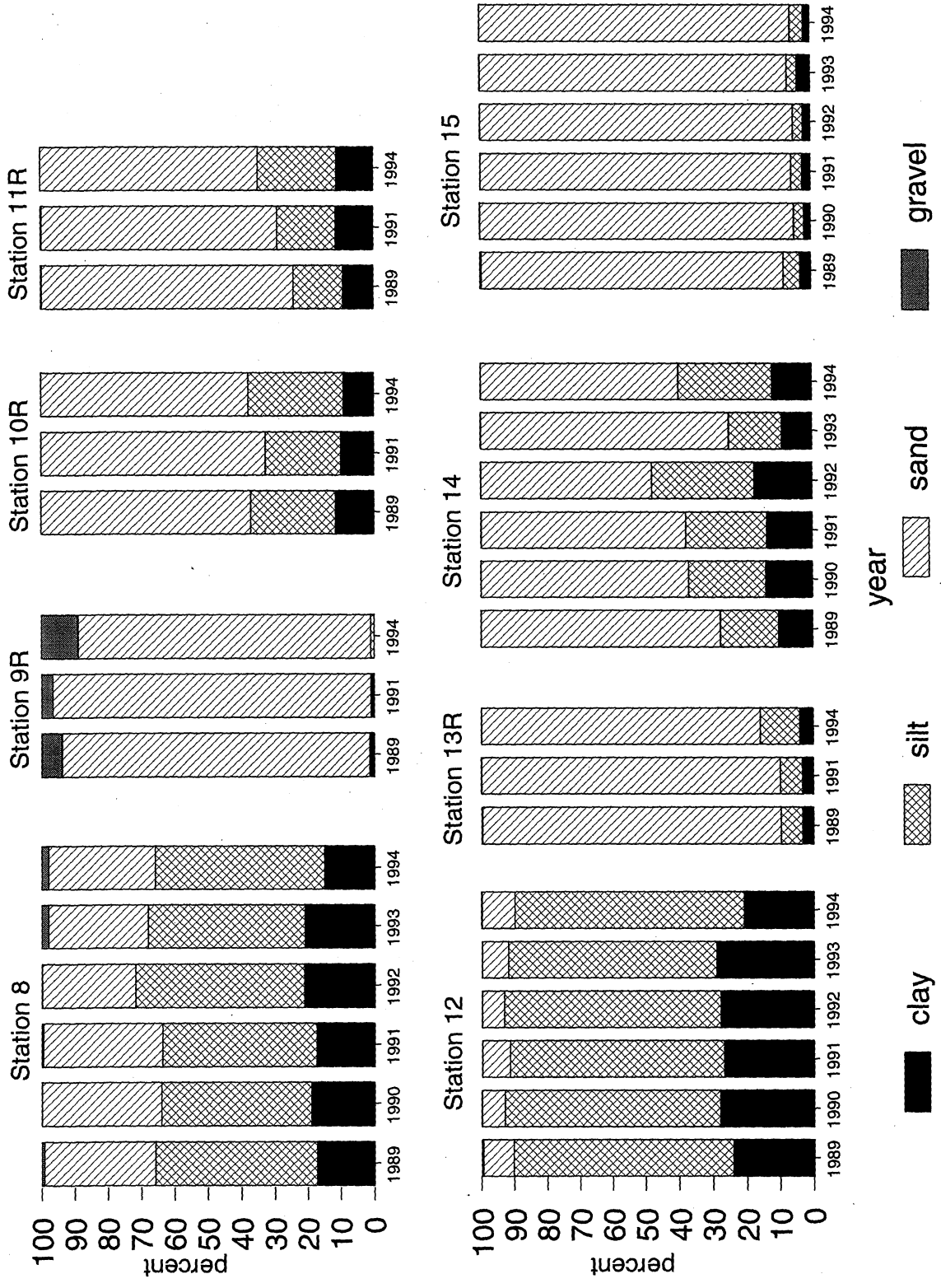


# Grain size

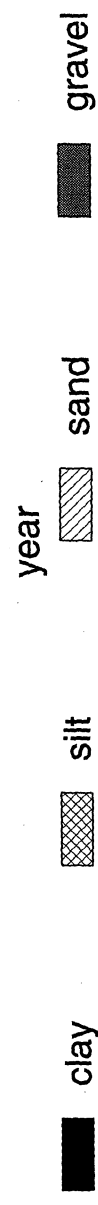
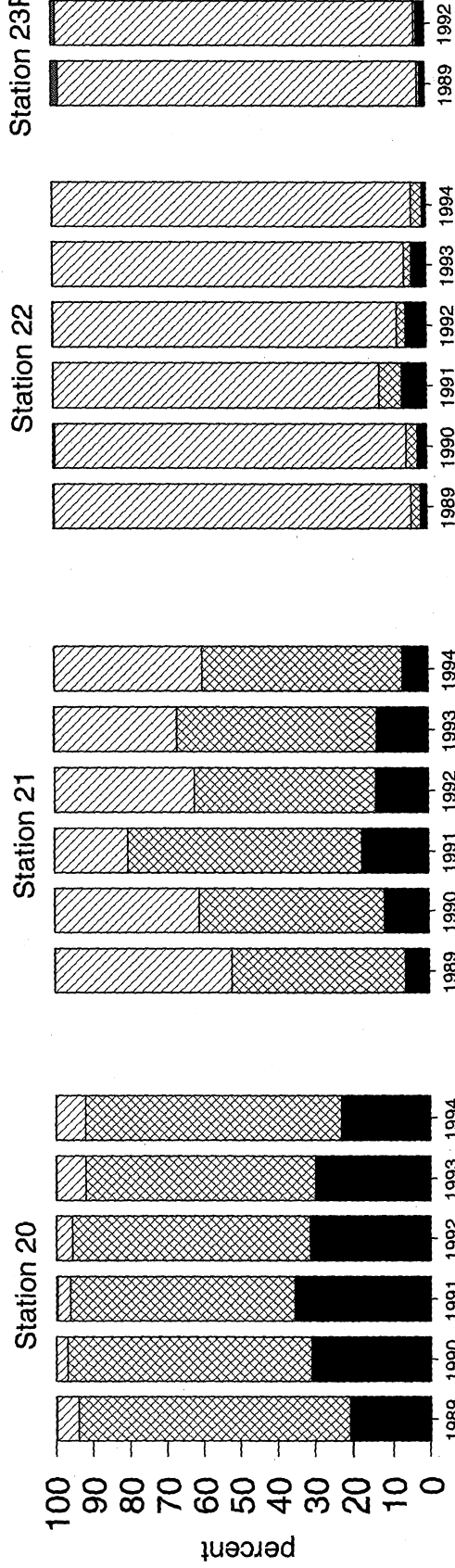
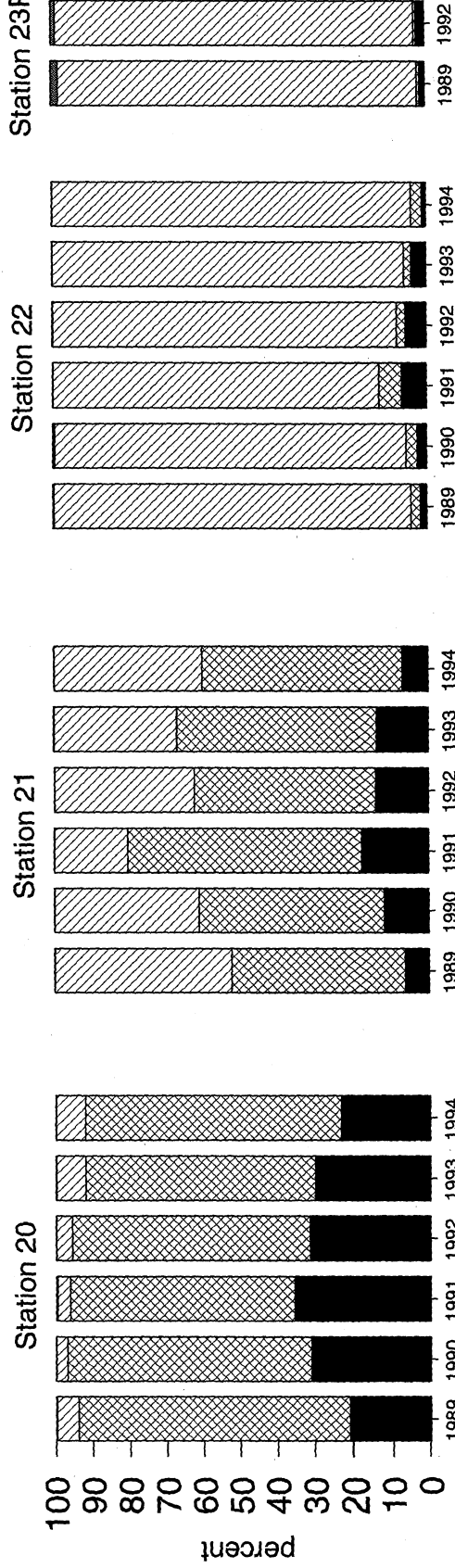
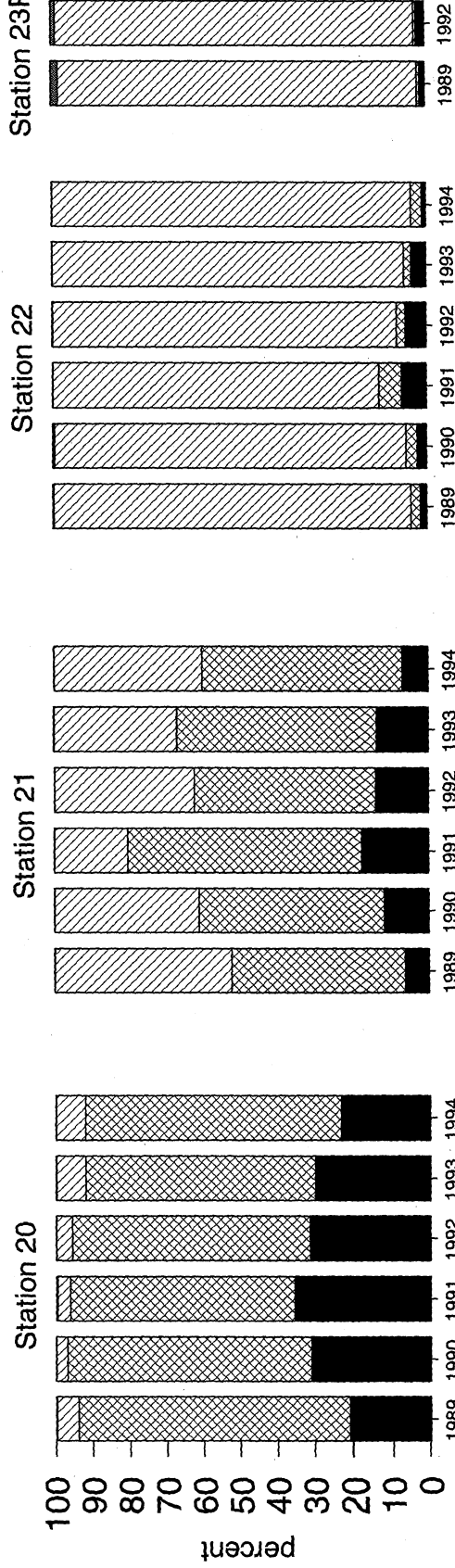
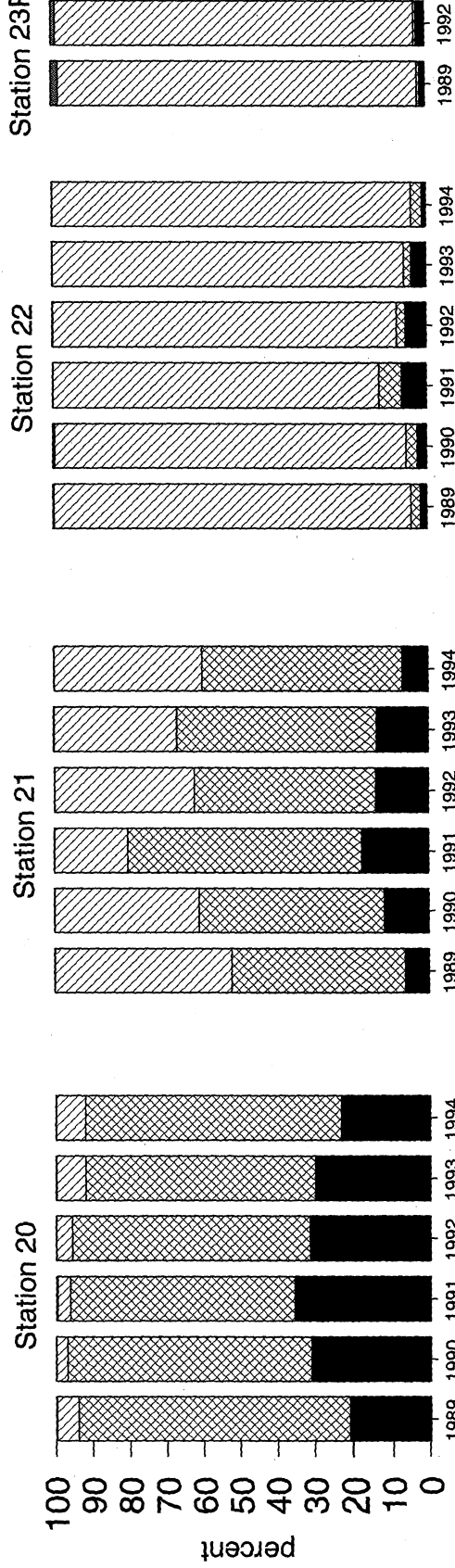
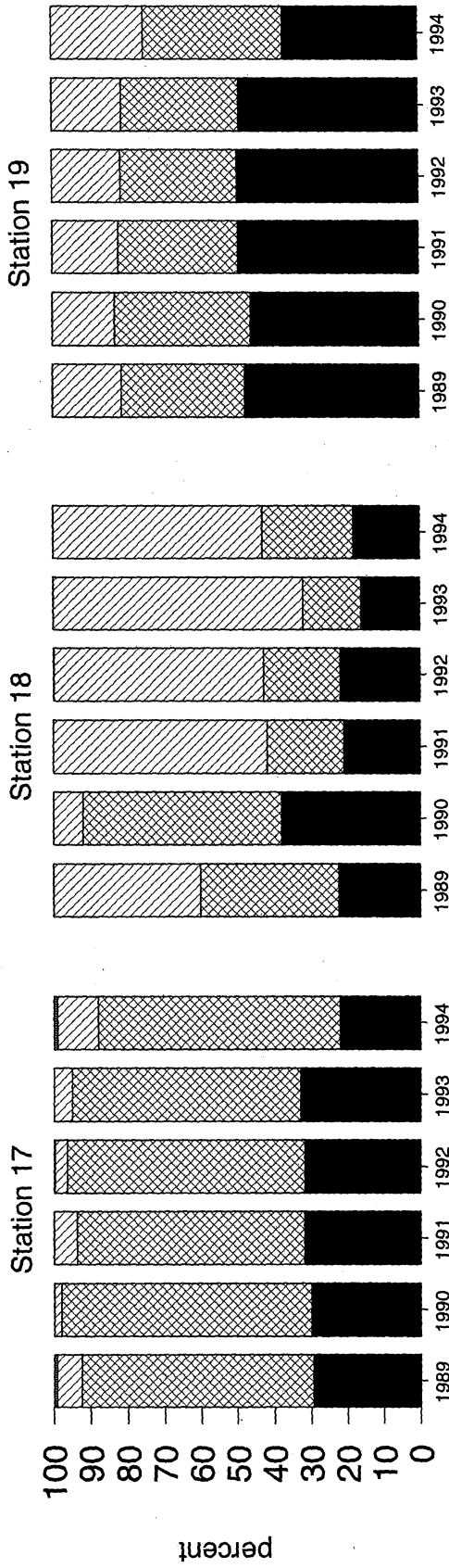
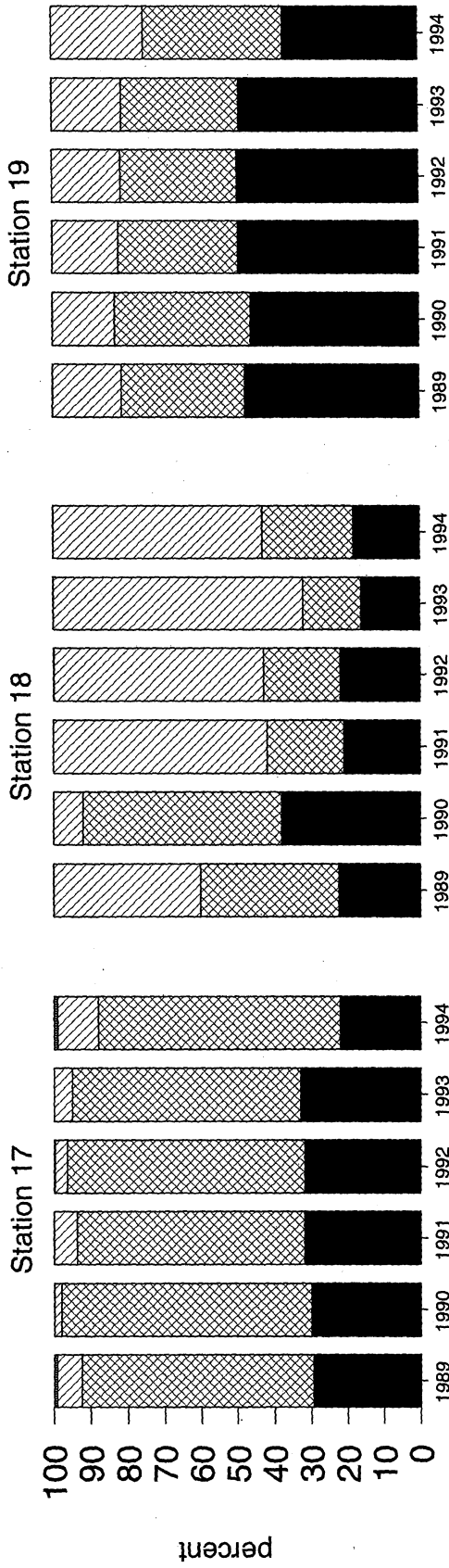
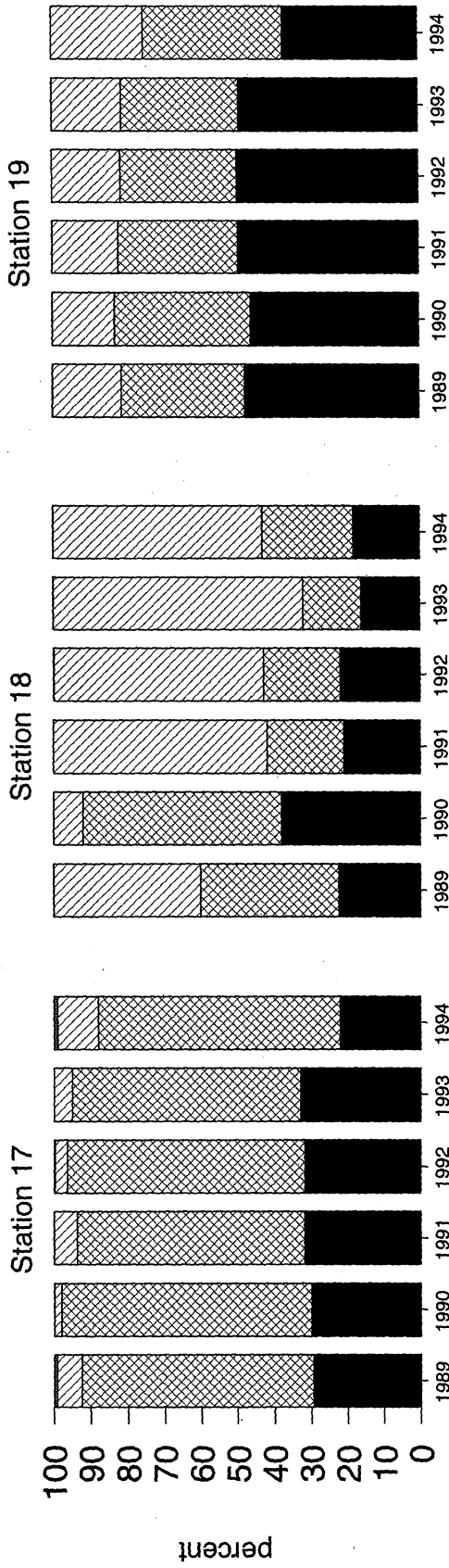


Appendix A. Sediment composition in MSMP stations. (2) Graphic display.

# Grain size

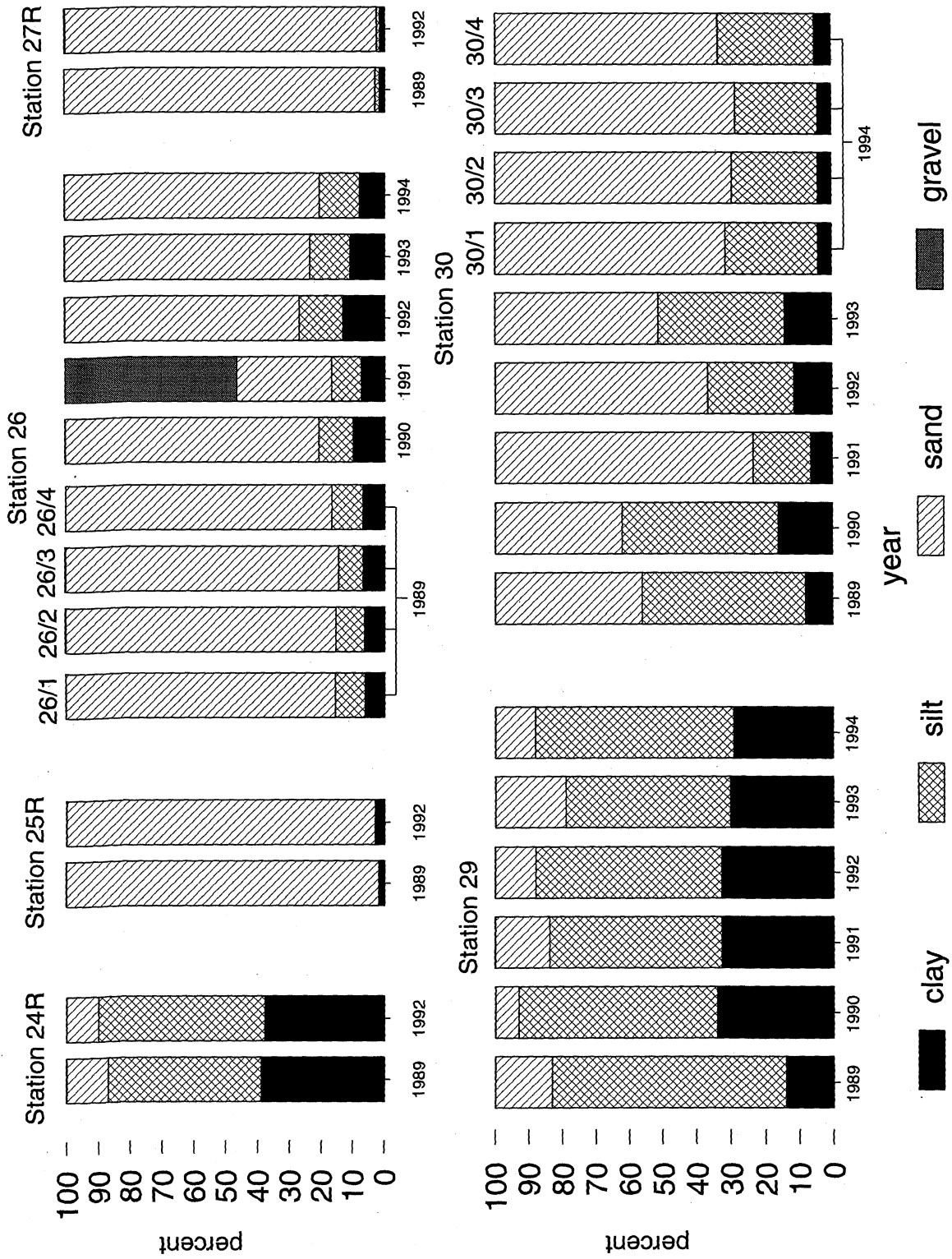


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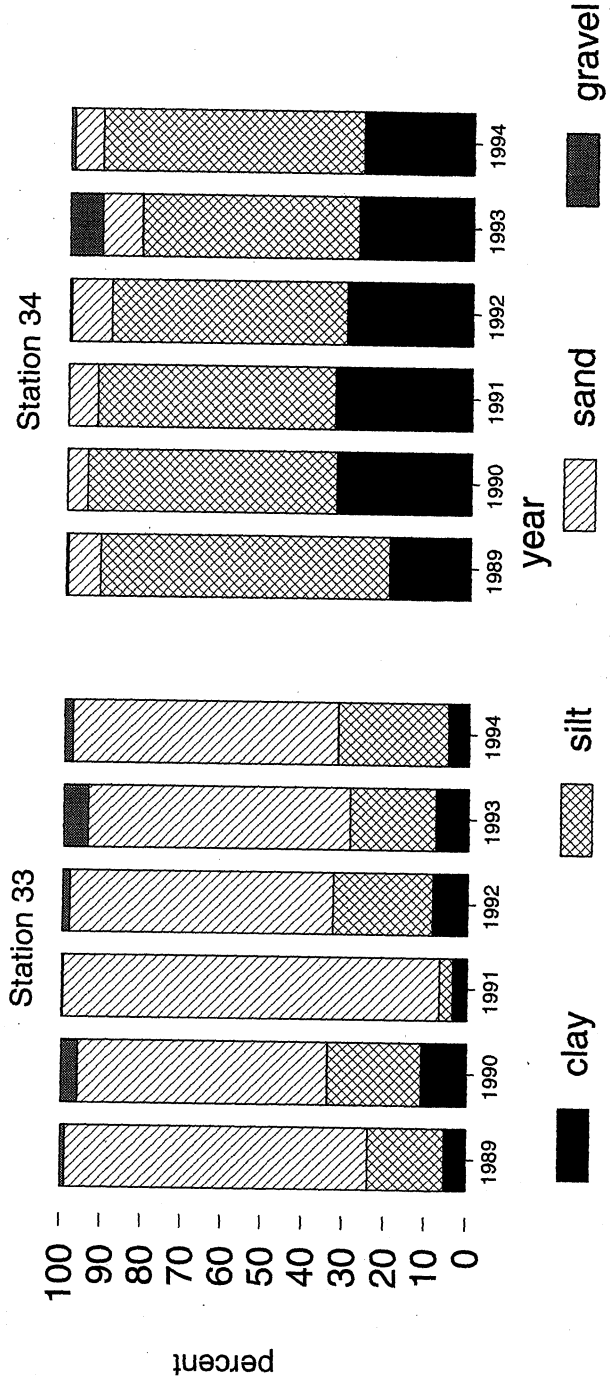
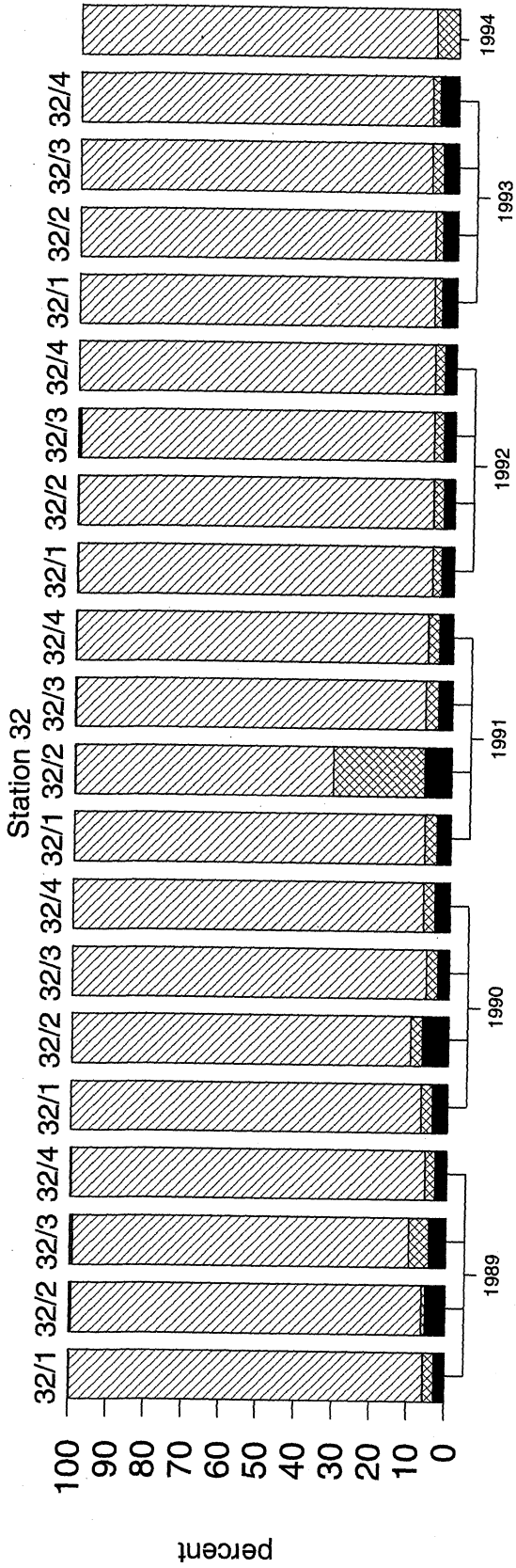




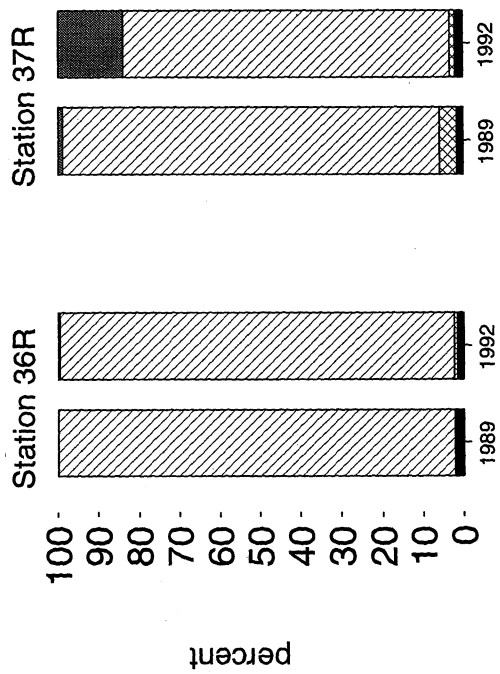
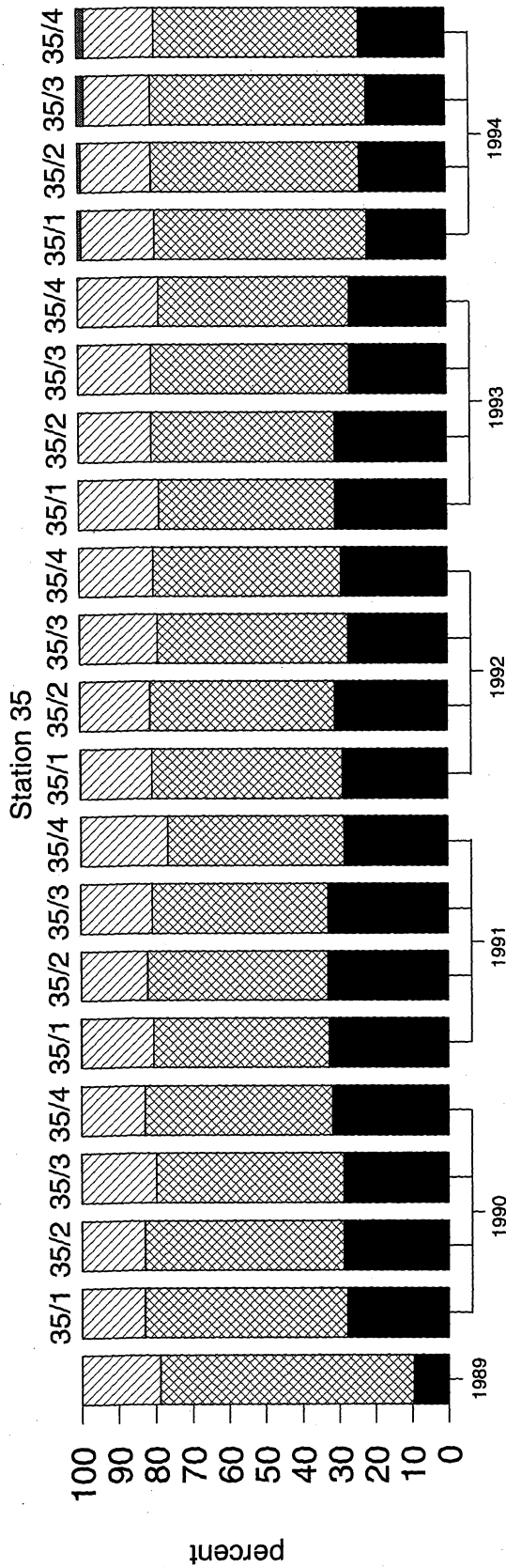
# Grain size



# Grain size

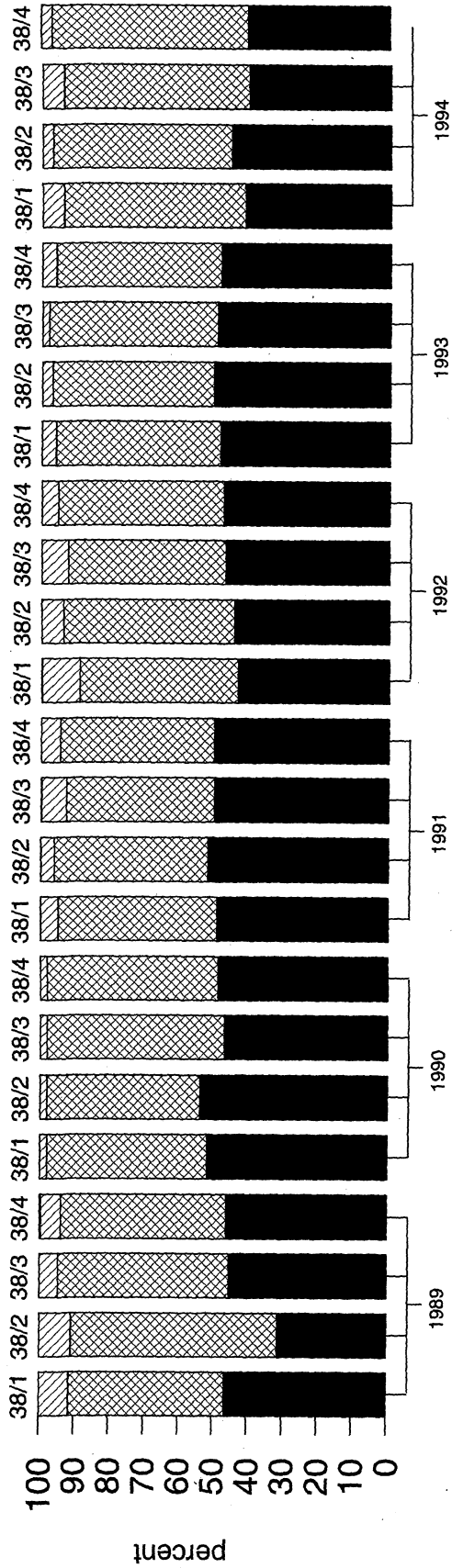


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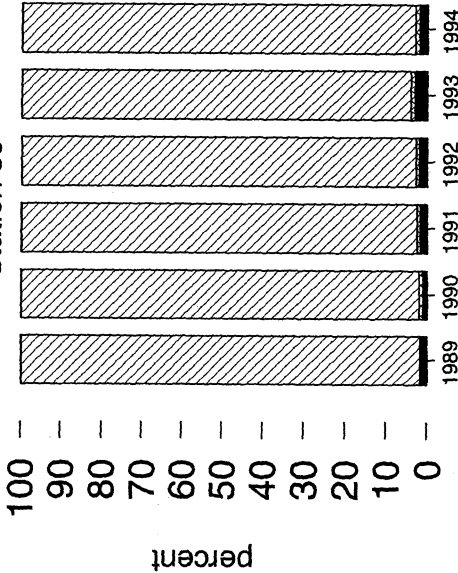


# Grain size

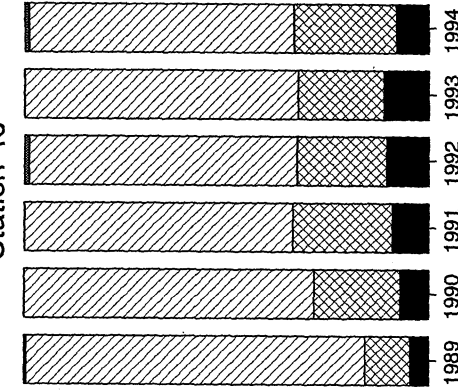
Station 38



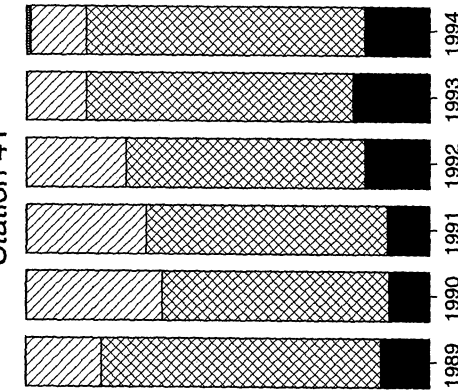
Station 39



Station 40



Station 41



year

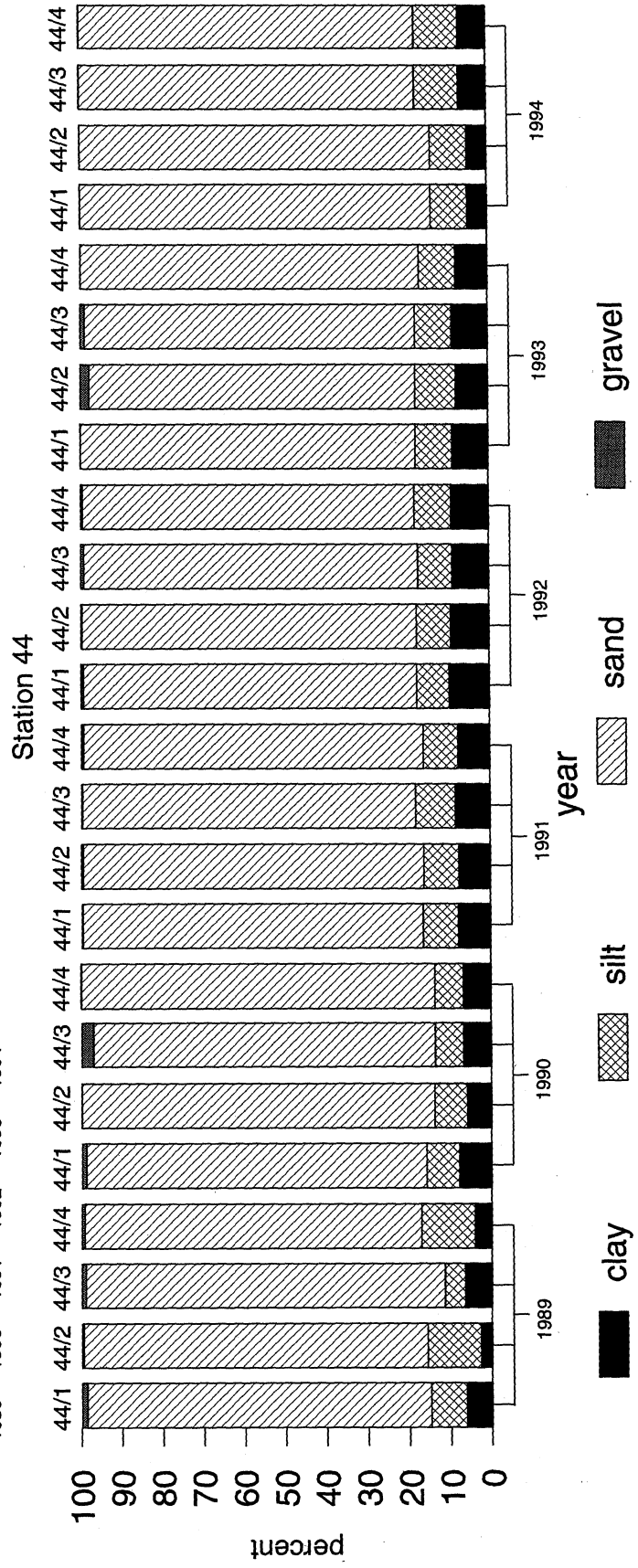
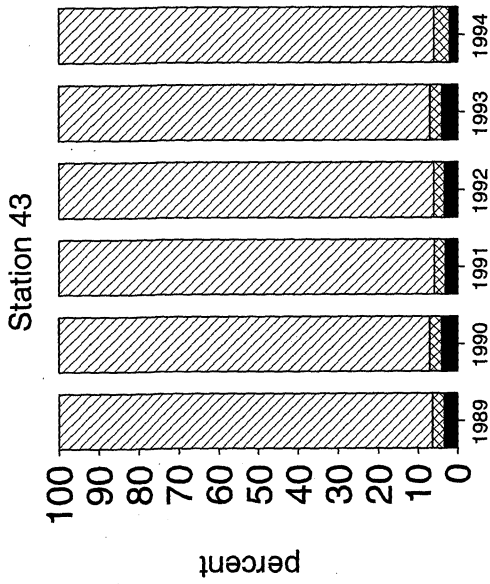
gravel

sand

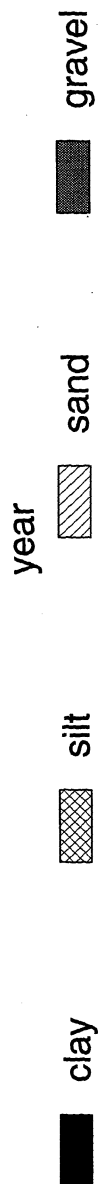
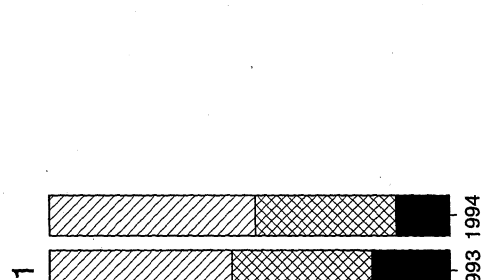
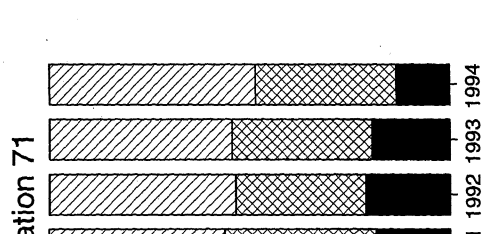
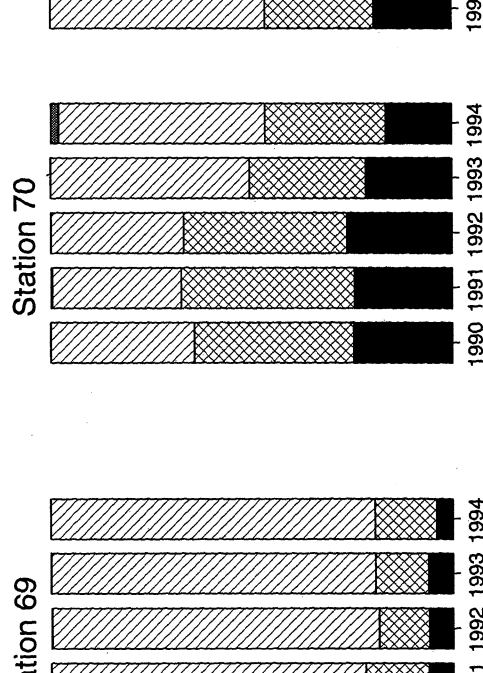
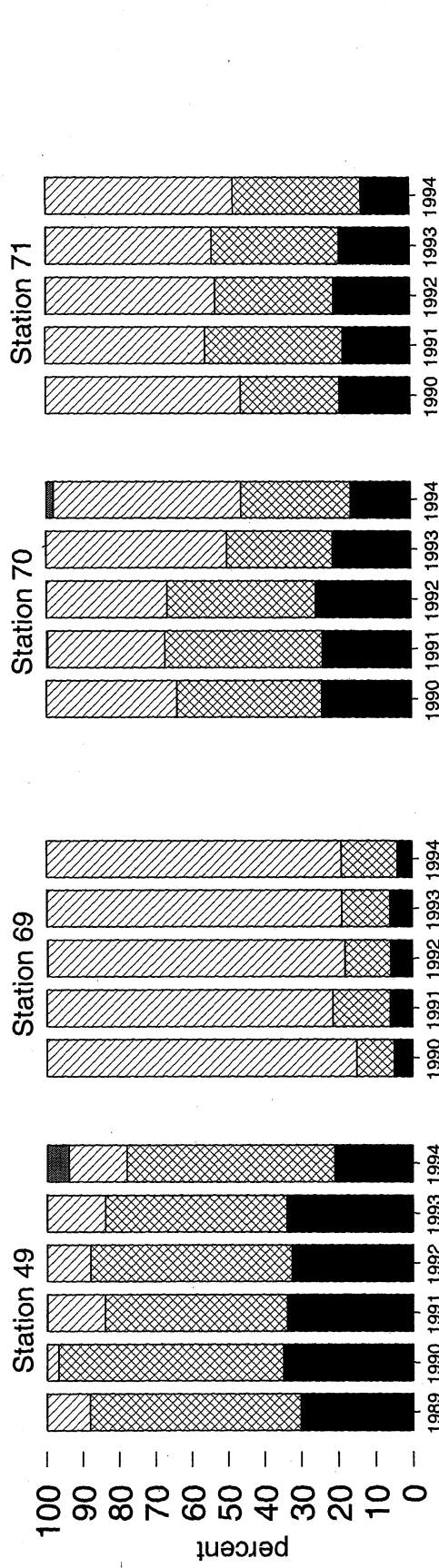
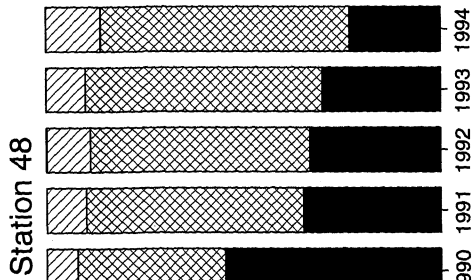
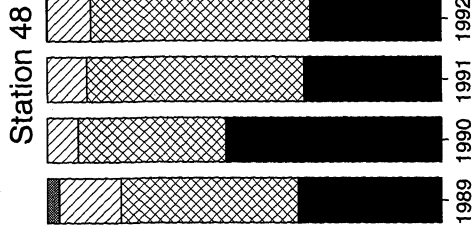
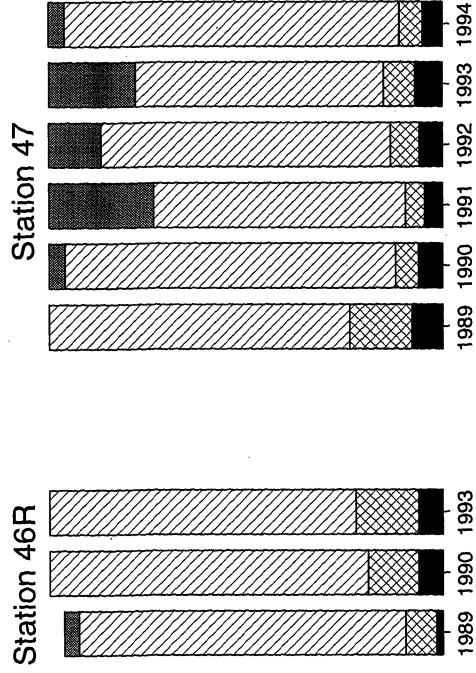
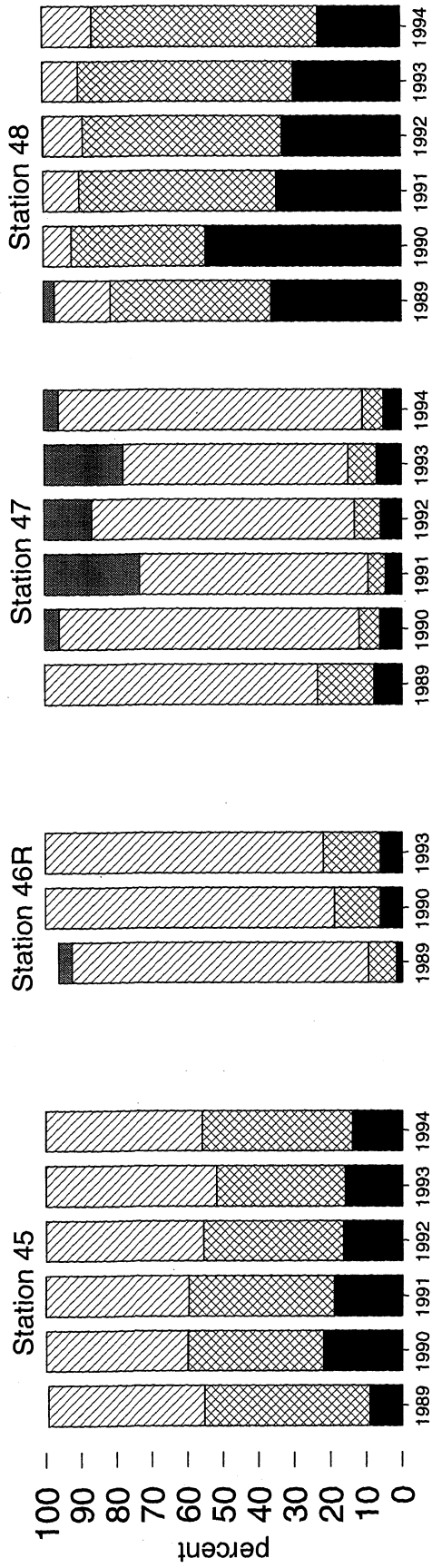
silt

clay

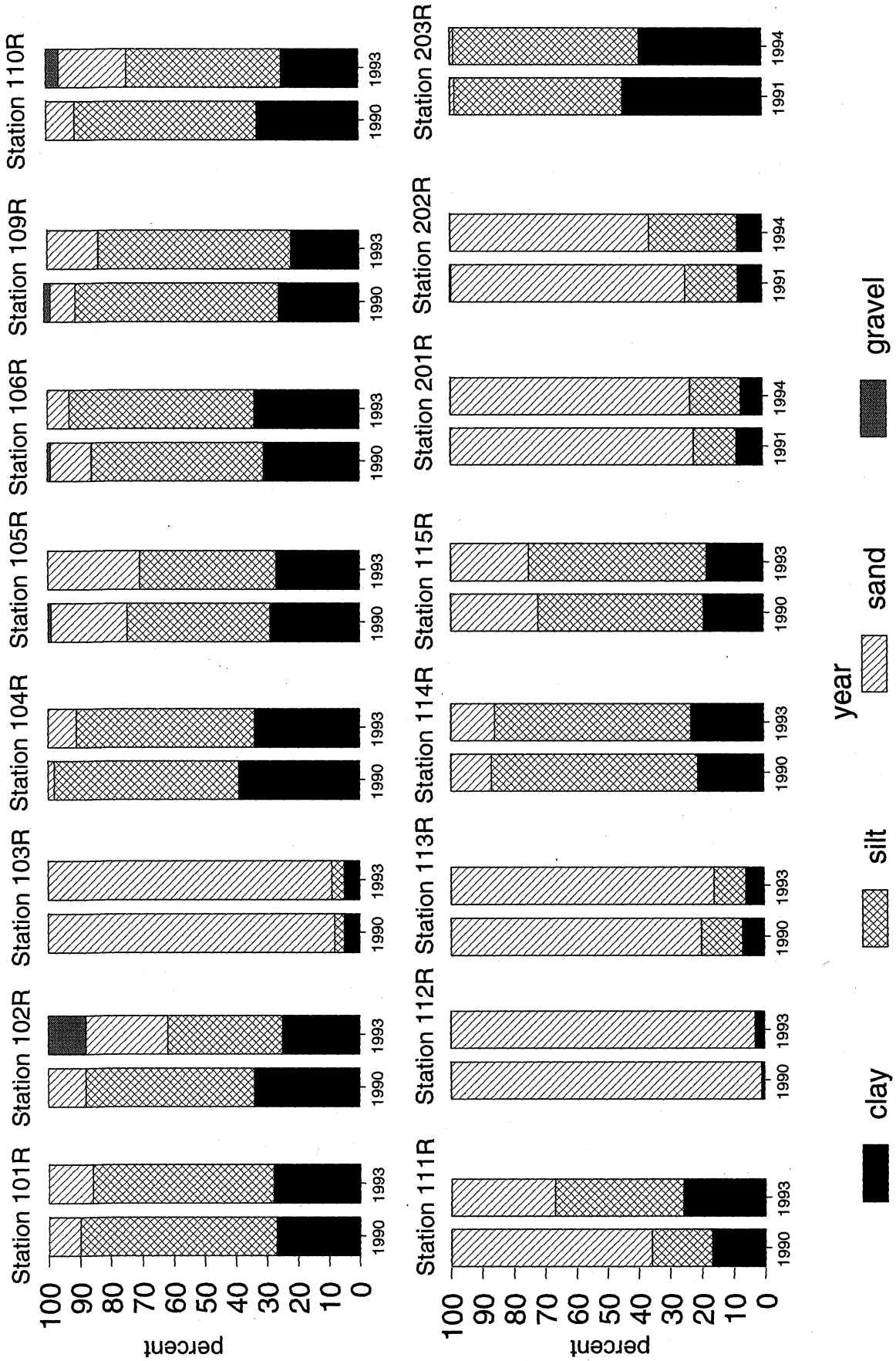
# Grain size



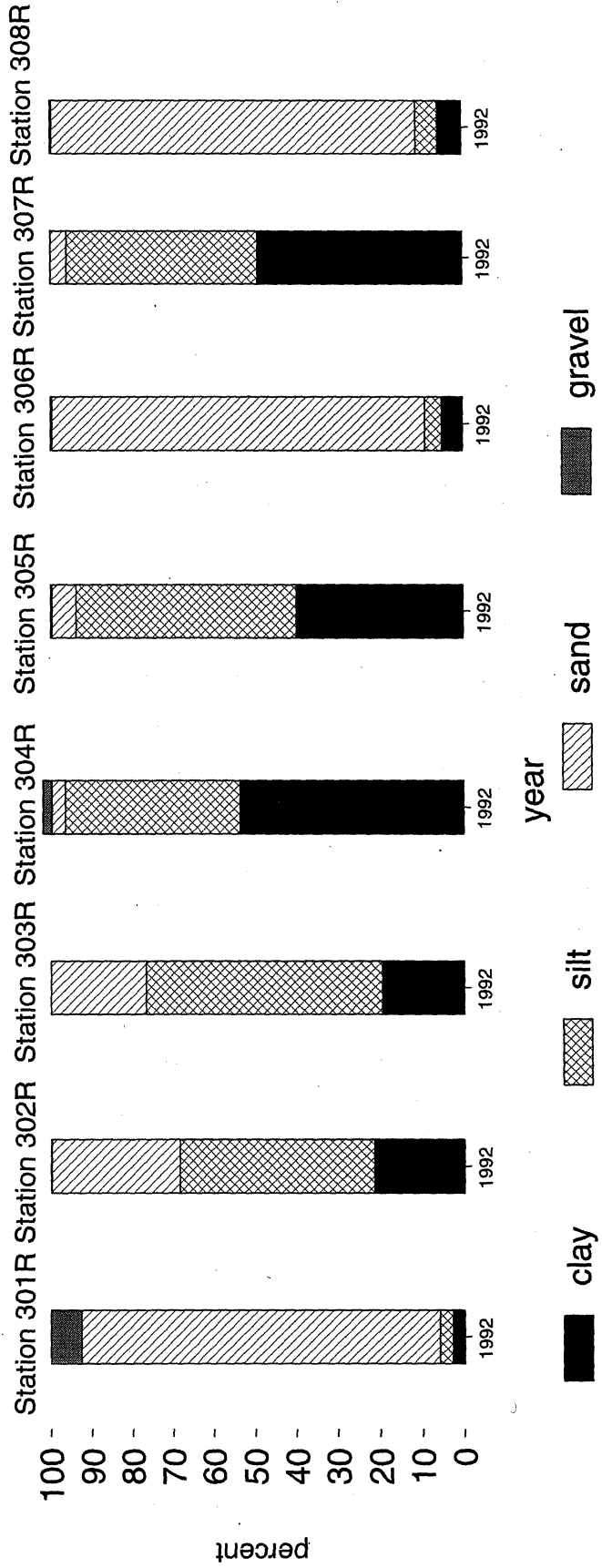
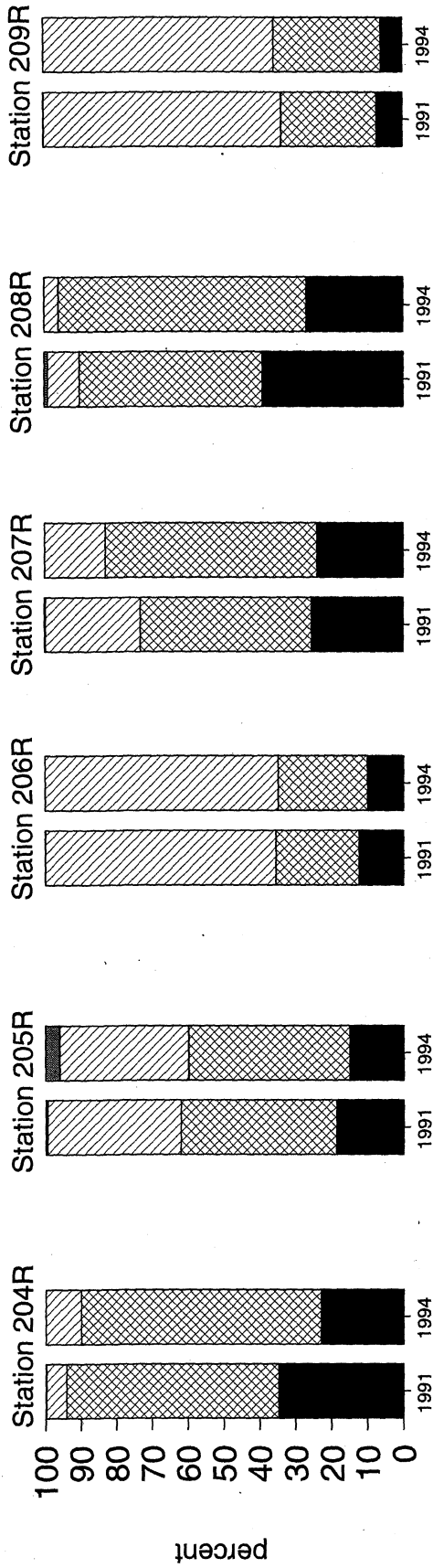
# Grain size



# Grain size



# Grain size



year





# **Appendix B**

## **Total Sulfide**

- (1) Tabular data**
- (2) Graphic display**



Appendix B. Total sulfides in MSMP stations, 1989-1993. (1) Tabular data (mg/kg S). Replicate samples are indicated by the station number followed by the replicate number. Blanks denote stations not sampled in a given year. For station location, see Table 1. J = estimate, U = undetected (detection limit shown), ND = no data.

Station	1989	1990	1991	1992	1993
1	0.48	31.9 J	1.1 U	2 J	4.4 U
2R	0.4		1		
3	0.56	10.6 J	1.1 U	690 J	395 J
4	0.38	42.8 J	2.7 U	490 J	130 J
5/1	0.25 U	30.6 U	2.4 U	0.19 U	4.6 U
5/2	0.25 U	23.4 U	1.8 U	0.16 U	4.8 U
5/3	0.44	18.2 U	1.8 U	5.8 J	4.7 U
5/4	0.25 U	21.4 U	1.6 U	0.16 U	ND
8	0.25 U	17.9 U	0.9 U	17 J	2.7 U
9R			0.4 U		
10R	0.25 U		0.6 U		
11R	0.91		0.8 U		
12	0.25 U	22 U	1.1 U	3 J	5.0 U
13R	0.25 U		0.6 U		
14	0.55	12.1 U	0.8 U	0.15 U	2.1 U
15	0.47	9.1 U	0.5 U	0.09 U	1.8 U
17	0.25 U	18.4 U	1.3 U	0.22 U	4.8 U
18	0.25 U	27.1 U	1.4 U	92 J	3.0 U
19	0.25 U	33.9 U	105	86 J	5.4 U
20	0.25 U	14.5 U	1.2 U	0.18 U	2.6 U
21	0.25 U	11.4 U	0.9	5.2 J	2.3 U
22	0.25 U	9 U	11	0.13 U	1.8 U
23R	0.39			0.12 U	
24R	0.25 U			0.28 U	
25R	0.42			0.13 U	
26/1	0.39	8.4 U	0.7 U	0.2 U	2.2 U
26/2	0.25 U				
26/3	0.41				
26/4	0.25 U				
27R	0.25 U			0.13 U	
29	0.94	19.1 U	8	0.27 U	2.9 U
30	1.1	20.9 U	1.5 U	0.11 U	114 J
32/1	0.25 U	10.7 U	0.7 U	0.95 J	1.6 U
32/2	1.2	11.8 U	0.8 U	0.08 U	1.6 U
32/3	0.25 U	15.9 J	1 U	0.09 U	1.4 U
32/4	0.9	10.5 U	1 U	0.16 U	ND
33	0.25 U	15.3 U	1.1 U	0.18 J	1.9 U
34	0.25 U	27.1 U	2.9 U	9.4 J	101 J
35/1	0.25 U	39.1 J	392	58 J	5.5 U
35/2		41.3 J	186	0.4 U	4.4 U
35/3		33.8 U	270	83 J	4.3 J
35/4		234 J	21.2	15 J	ND
36R	0.25 U			0.09 U	

Appendix B. Continued.

Station	1989	1990	1991	1992	1993
37R	1.0			0.1 U	
38/1	0.89	83.2 J	33.7	0.25 U	95 J
38/2	0.7	37.7 U	32.3	0.29 U	5.2 U
38/3	0.76	49.6 J	8.3	58 J	4.4 U
38/4	0.25 U	44.8 J	42	0.22 U	
39	0.38	5.3 U	0.6 U	0.07 U	1.6 U
40	0.3	5.4 U	0.8 U	0.11 U	2.3 U
41	0.25 U	6.1 U	0.9 U	36 J	2.6 U
43	0.53	4.1 U	0.6 U	0.07 U	1.7 U
44/1	0.25 U	4.5 U	1.2	0.11 U	2.5 U
44/2	0.26	5.5 U	1 U	0.1 U	2.1 U
44/3	0.25 U	5.6 U	0.6 U	0.08 U	2.1 U
44/4	0.34	6.6 U	0.7 U	0.07 U	ND
45	0.25 U	7.1 U	1	0.09 U	2.8 U
46R	0.25 U	5.3 U			2.2 U
47	0.25 U	10.7 U	0.6 U	0.09 U	1.6 U
48	1.0	26.6 J	2.5	41 J	329 J
49	0.74	32.5 U	107	250 J	4.9 U
69		9.5 U	0.7 U	0.15 U	1.5 U
70		40.2 J	1.7 U	29 J	3.3 J
71		33.3 U	0.7 U	0.11 U	2.5 U
101R		52.3 J			5.7 U
102R		909 J			959 J
103R		11 J			1.6 U
104R		29.7 U			5.0 U
105R		36.1 U			3.4 U
106R		41.9 J			4.2 U
109R		25.3 U			3.6 U
110R		26.1 U			5.5 U
111R		15.5 U			10.7 J
112R		4.1 U			2.0 U
113R		6.5 U			1.7 U
114R		14.9 U			11.9 J
115R		5.2 U			2.7 U
201R			0.6 U		
202R			0.6 U		
203R			1 U		
204R			24		
205R			1.2 U		
206R			13		
207R			0.9 U		
208R			744		
209R			0.6 U		
301R				0.13 U	
302R				0.11 U	
303R				0.14 U	
304R				0.25 U	

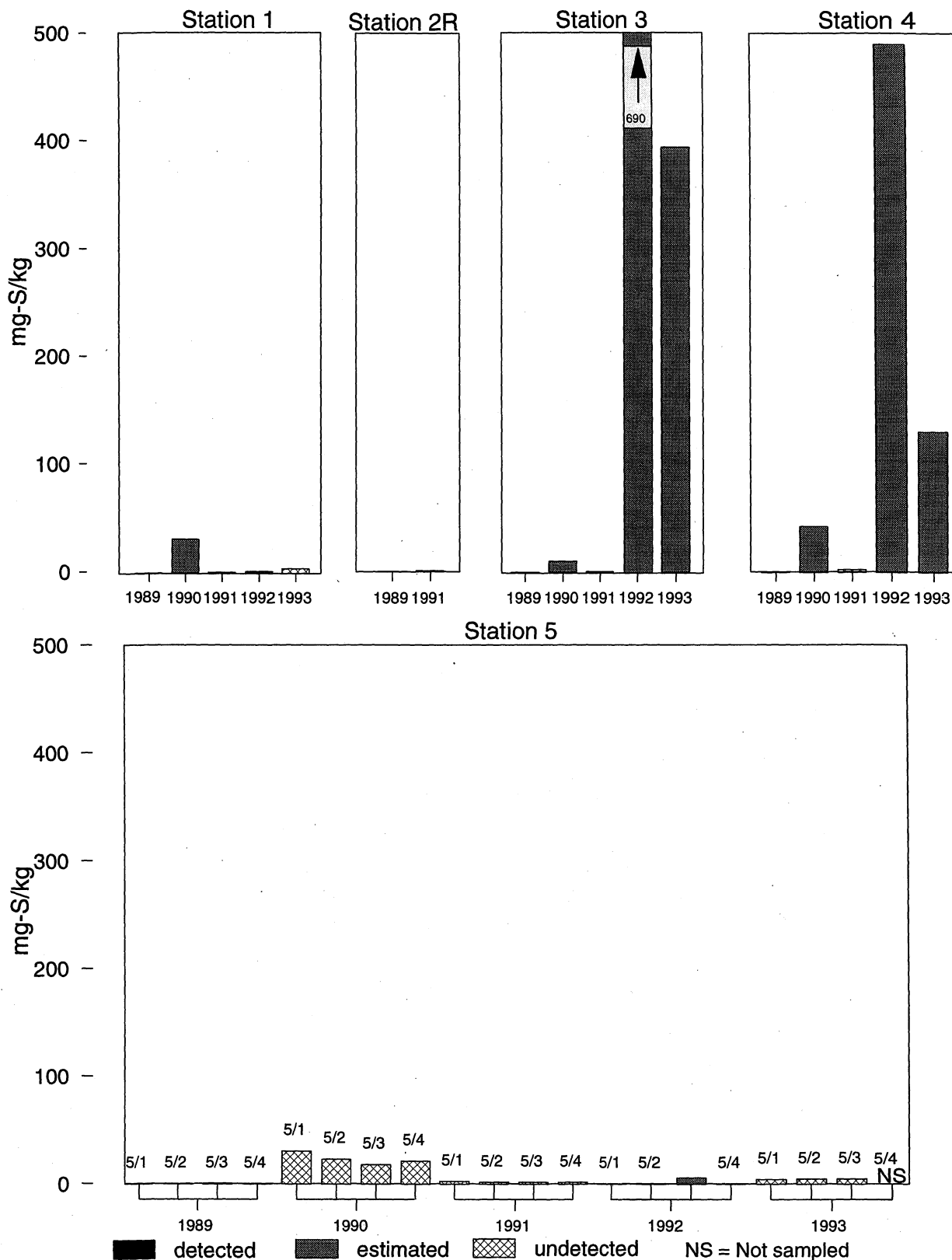
Appendix B. Concluded.

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Station	1989	1990	1991	1992	1993
305R				490 J	
306R				0.08 U	
307R				250 J	
308R				0.08 U	

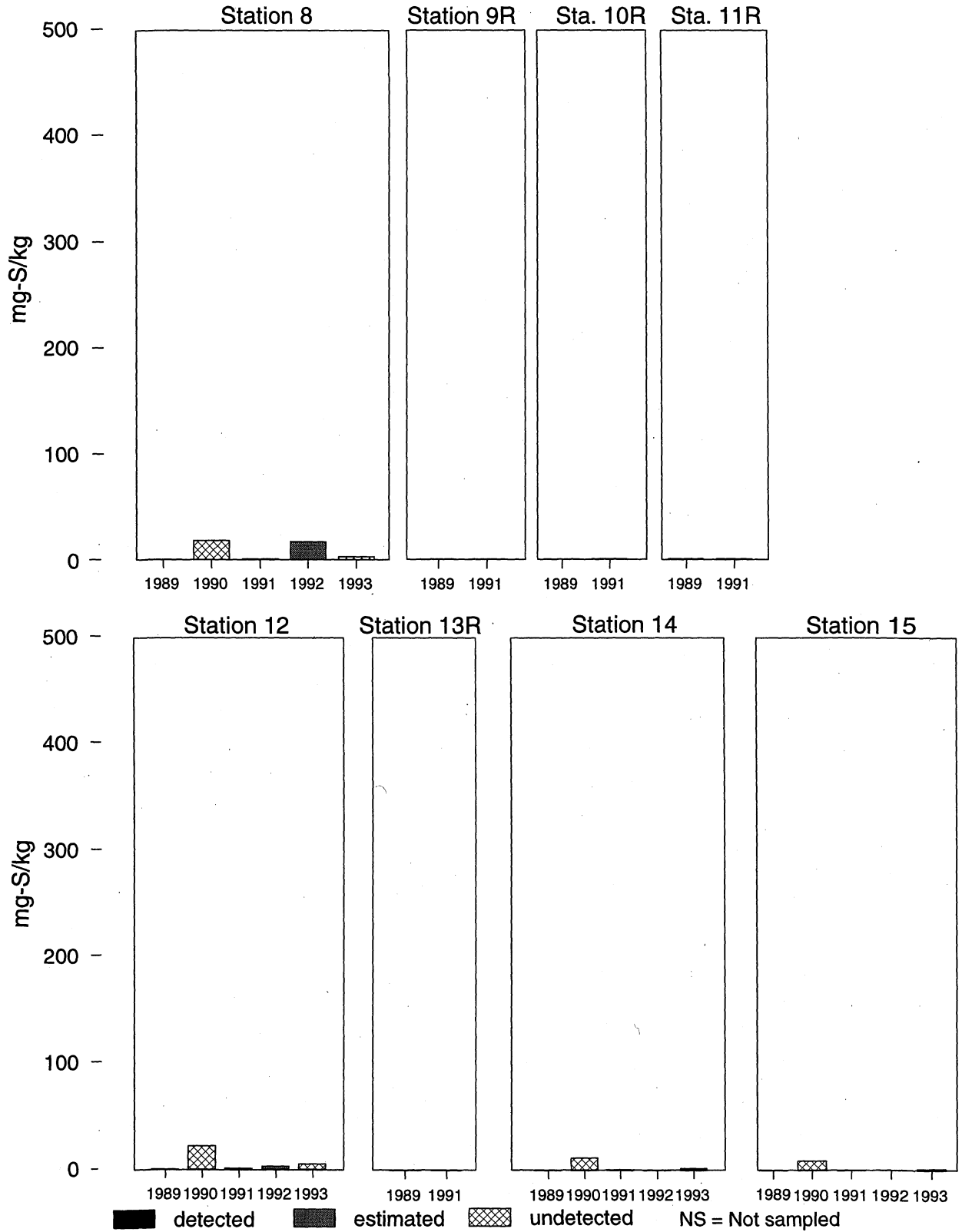
---

# Total Sulfides

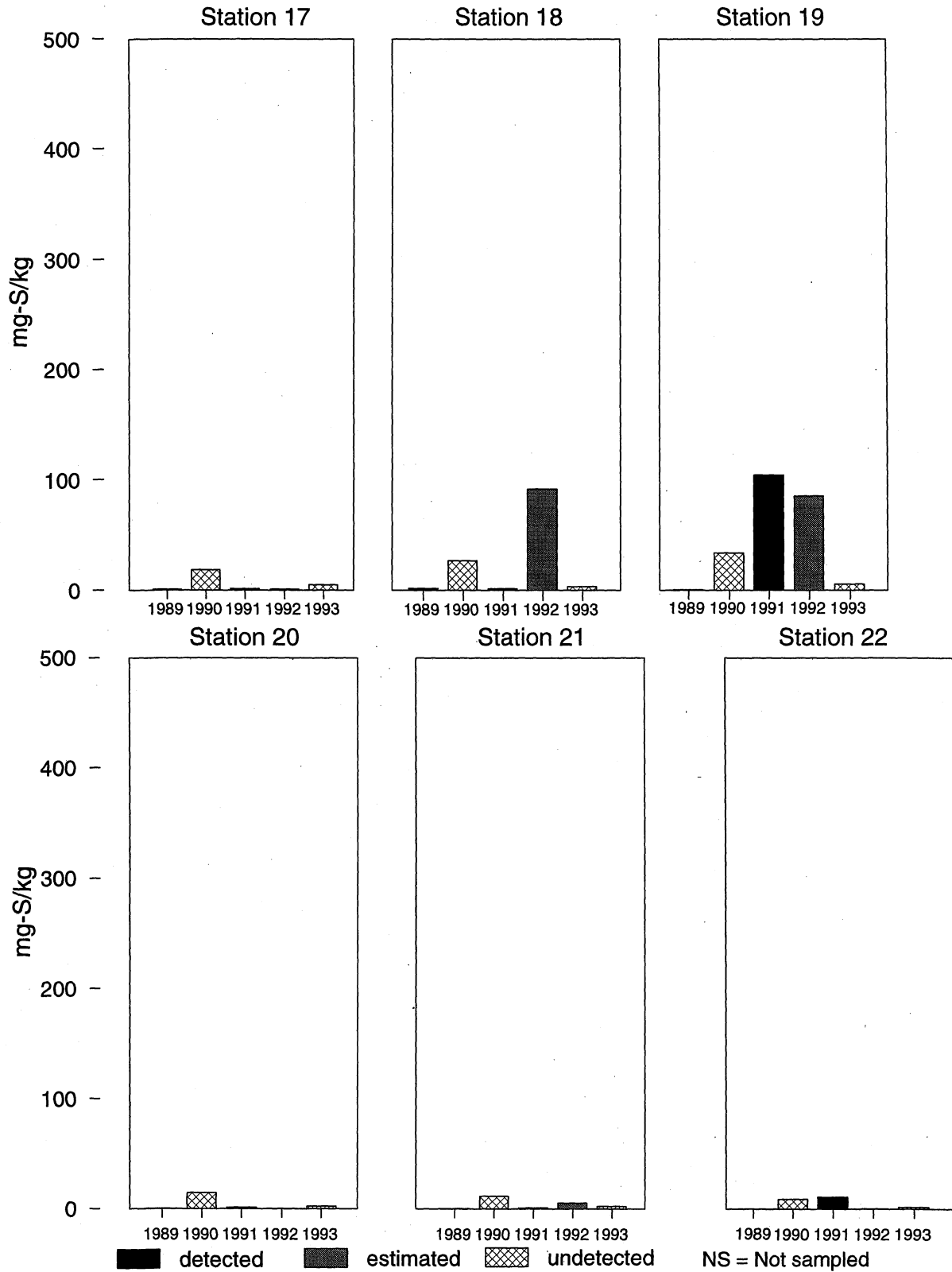


Appendix B. Total sulfides detected and undetected (detection limits shown) in MSMP stations.

# Total Sulfides

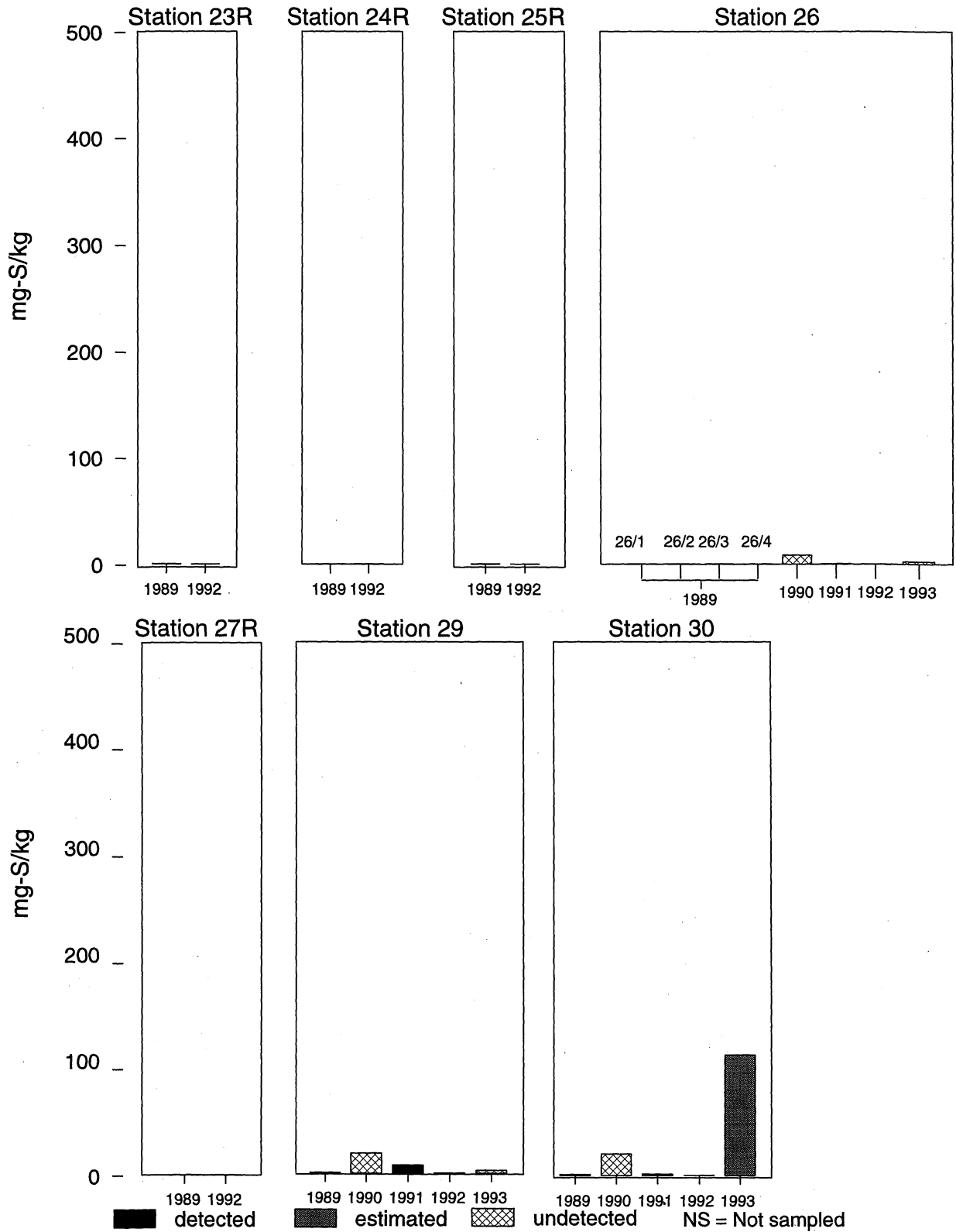


# Total Sulfides



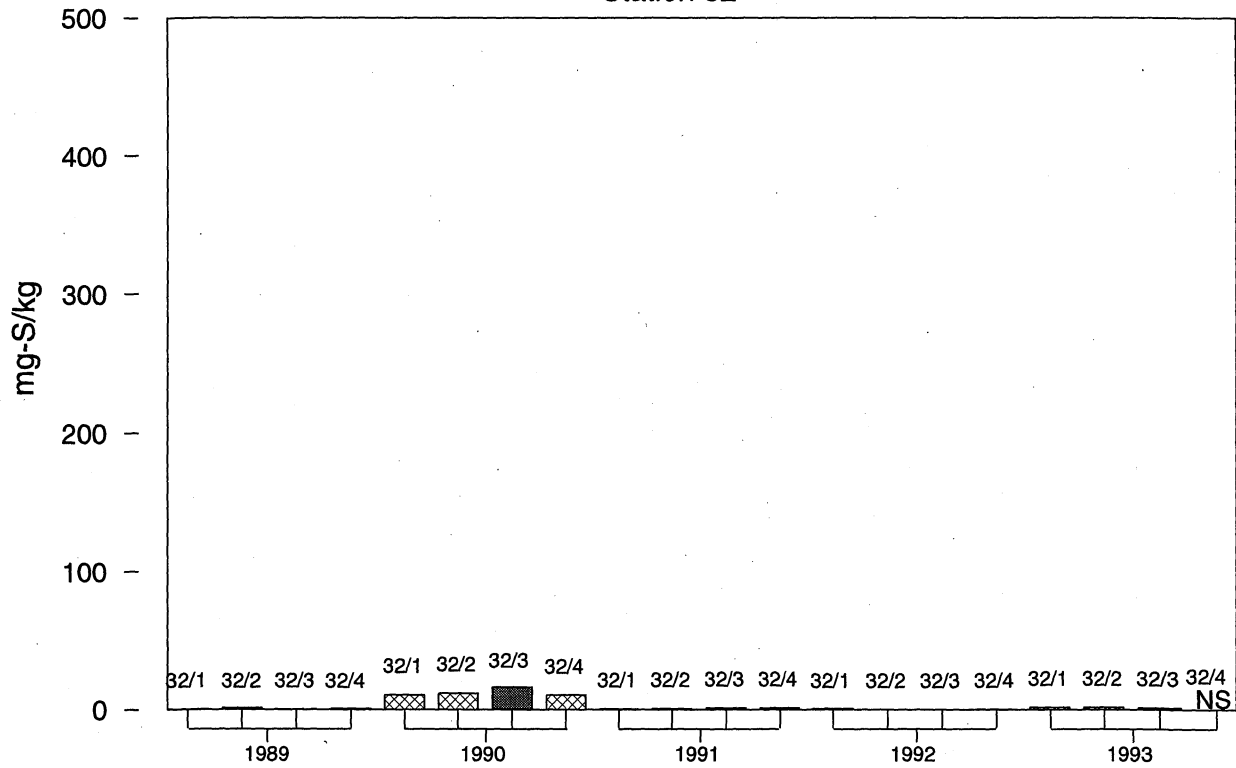


# Total Sulfides

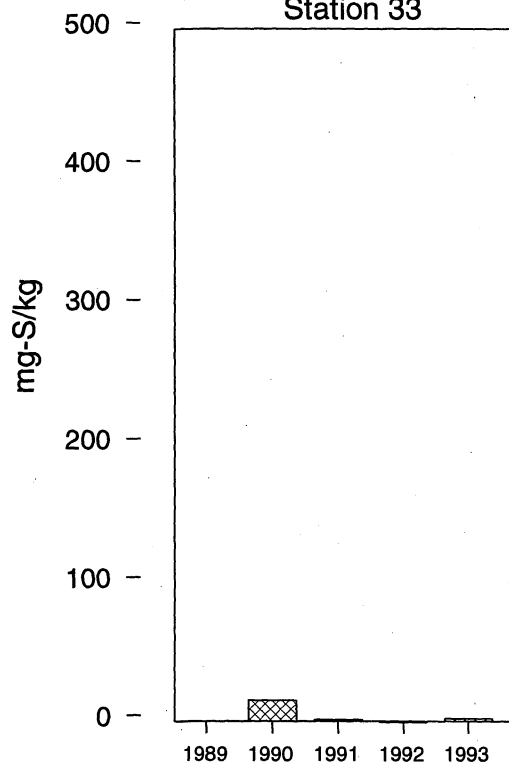


# Total Sulfides

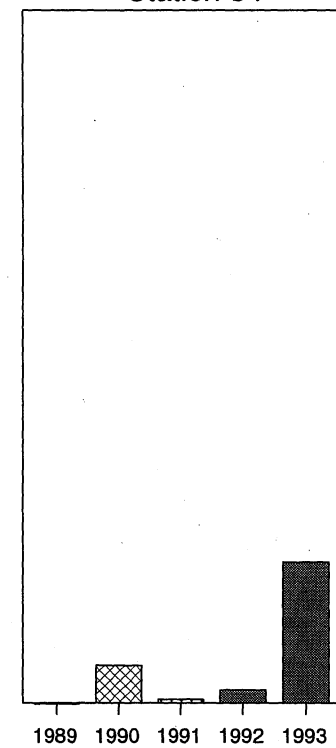
## Station 32



## Station 33



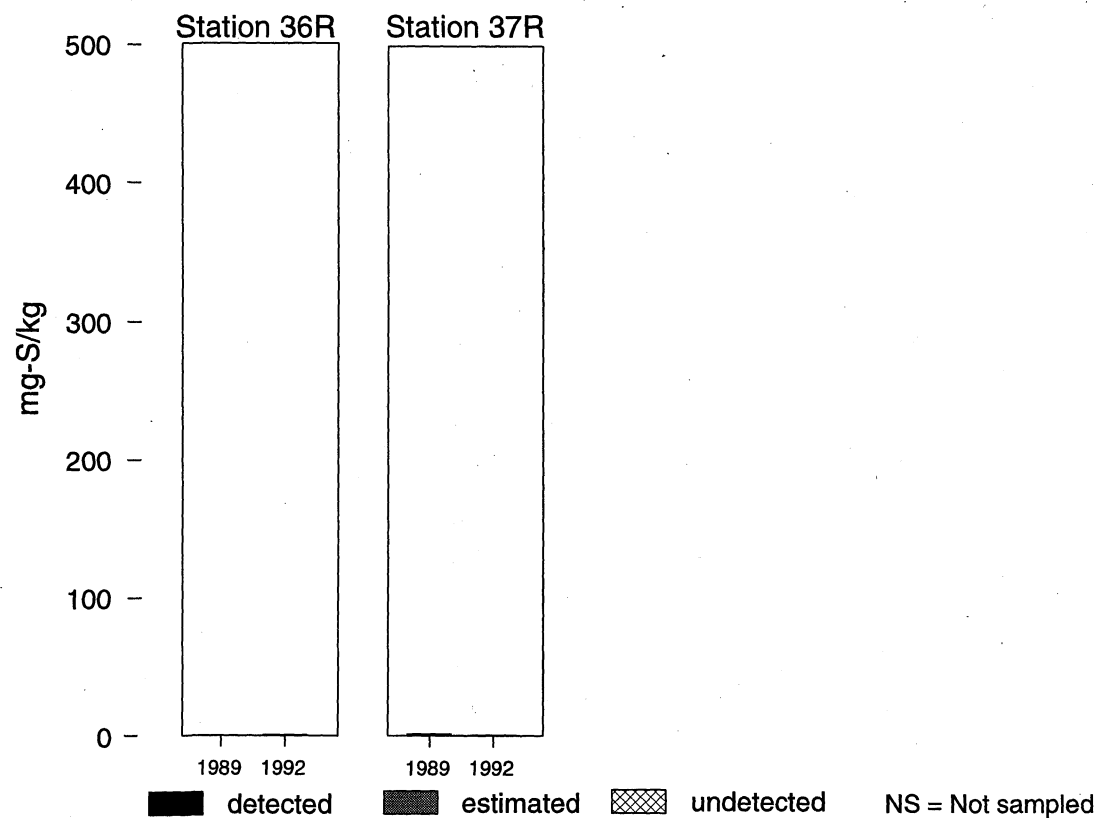
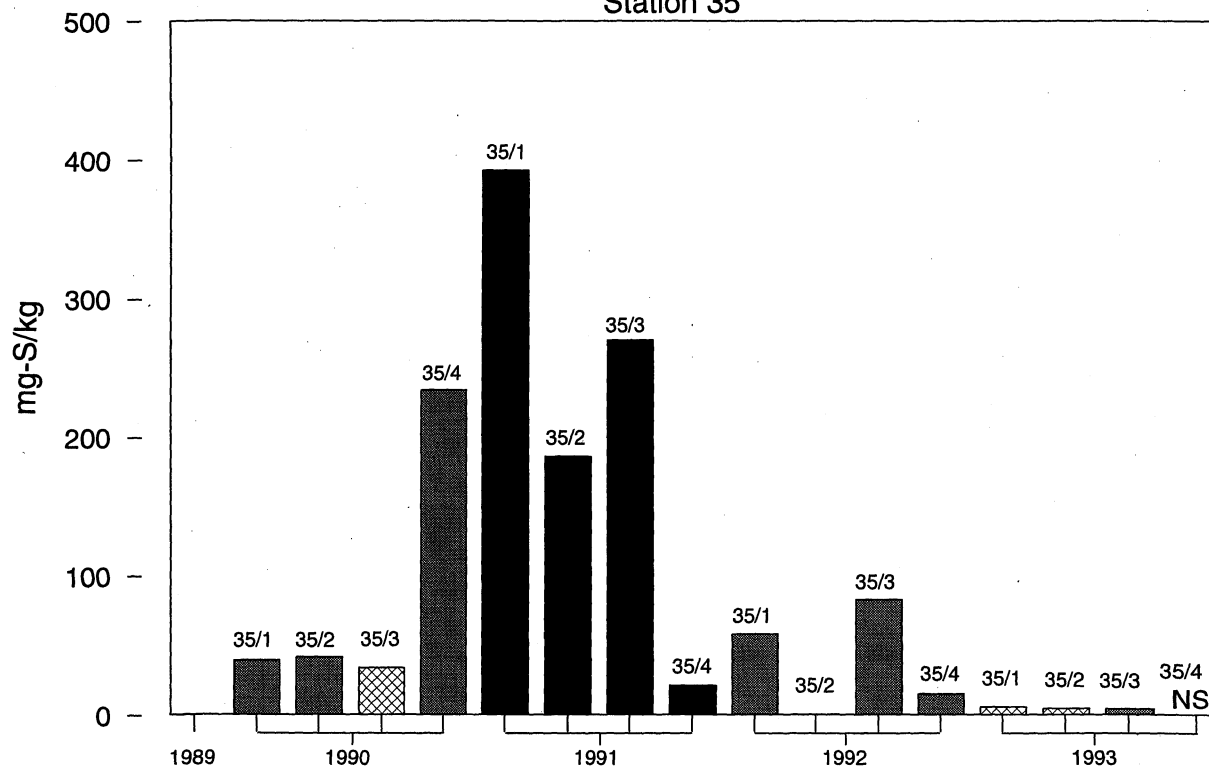
## Station 34



detected    
  estimated    
  undetected    
 NS = Not sampled

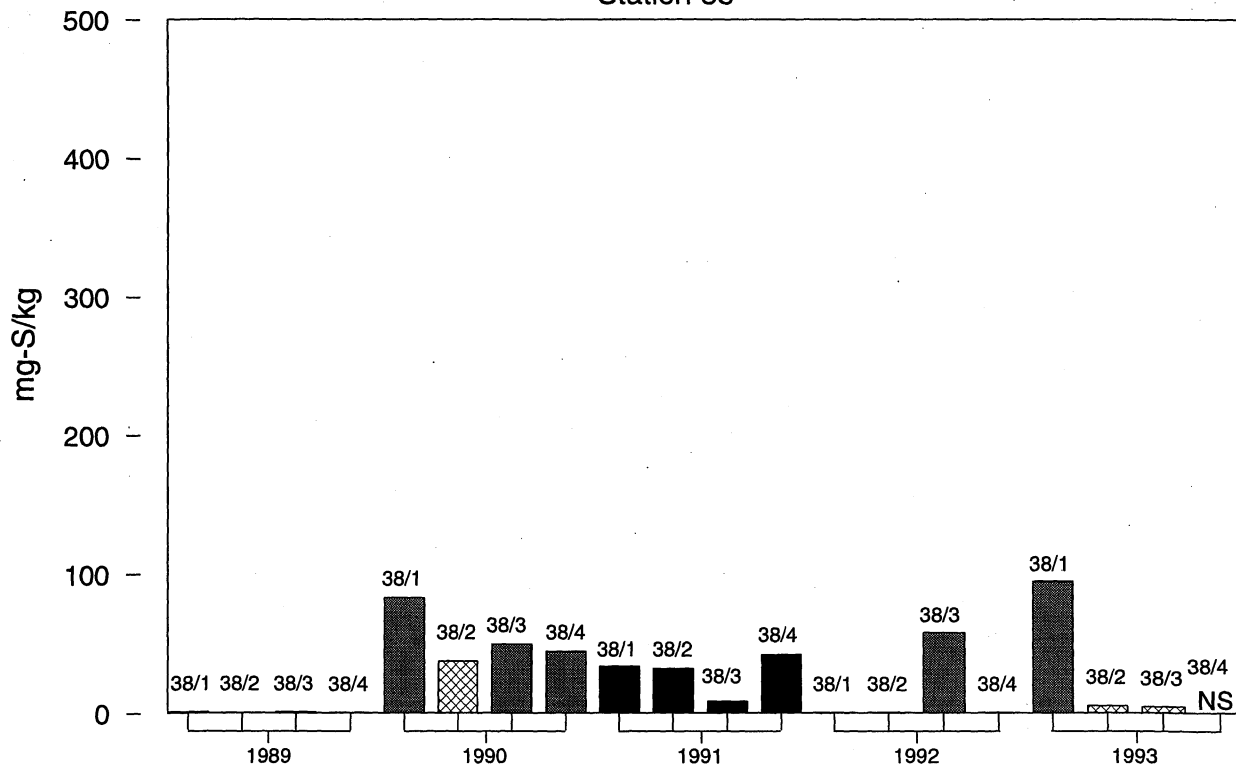
# Total Sulfides

Station 35



# Total Sulfides

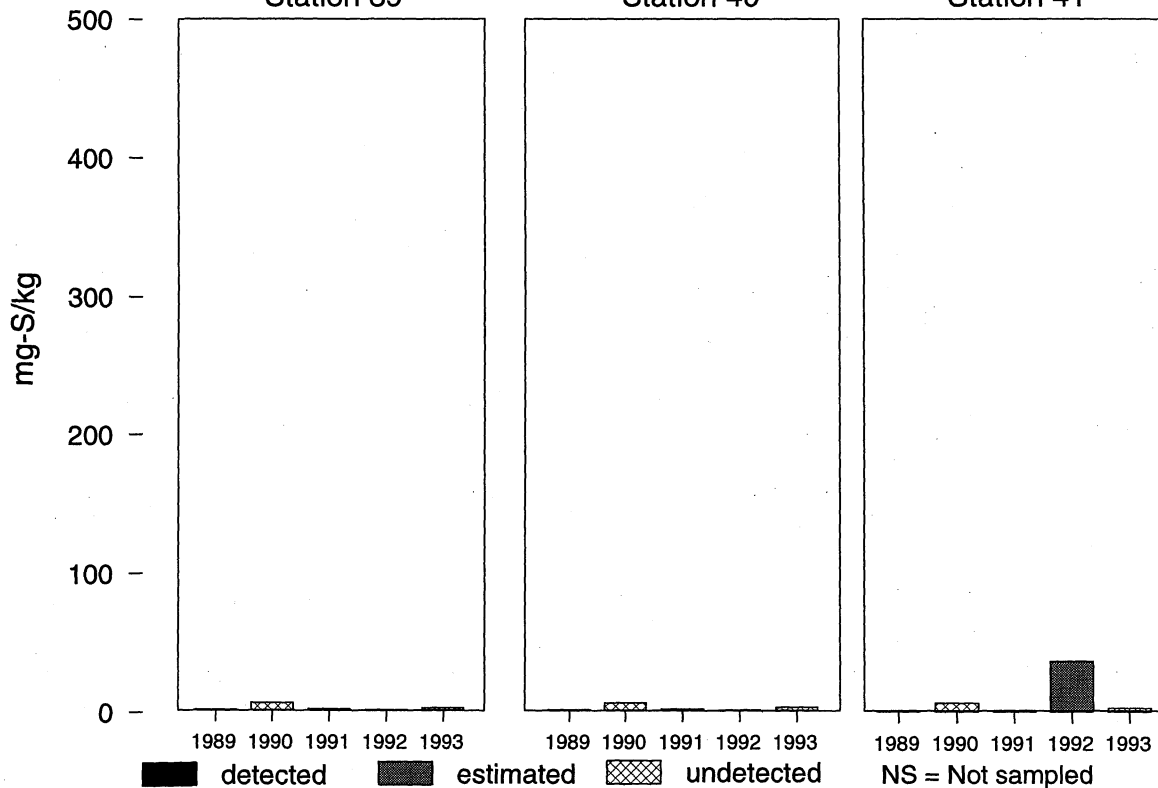
Station 38



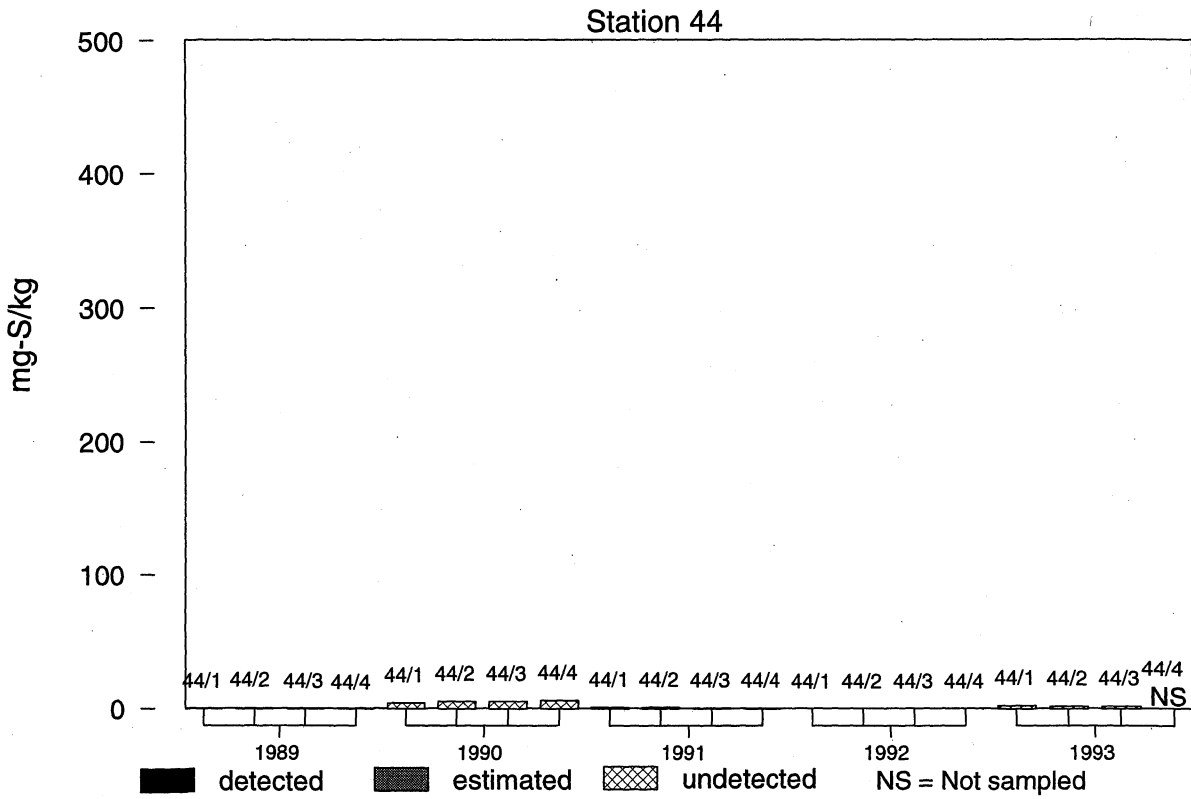
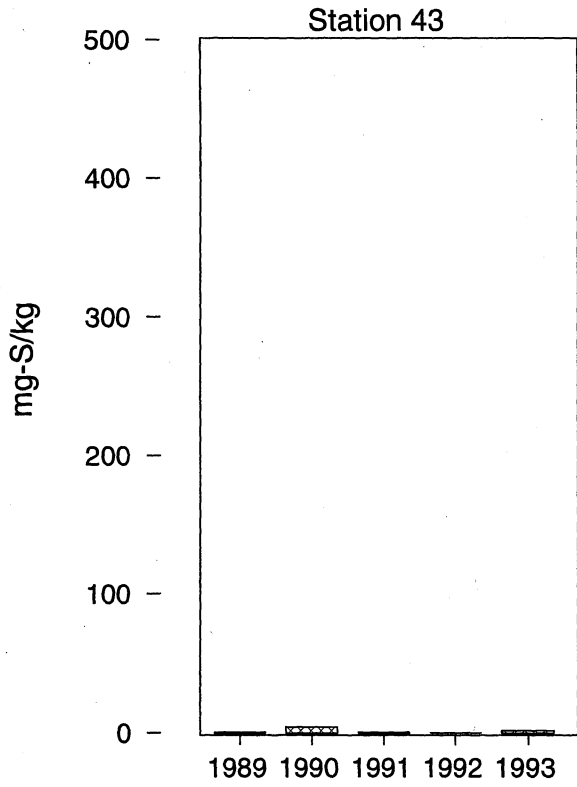
Station 39

Station 40

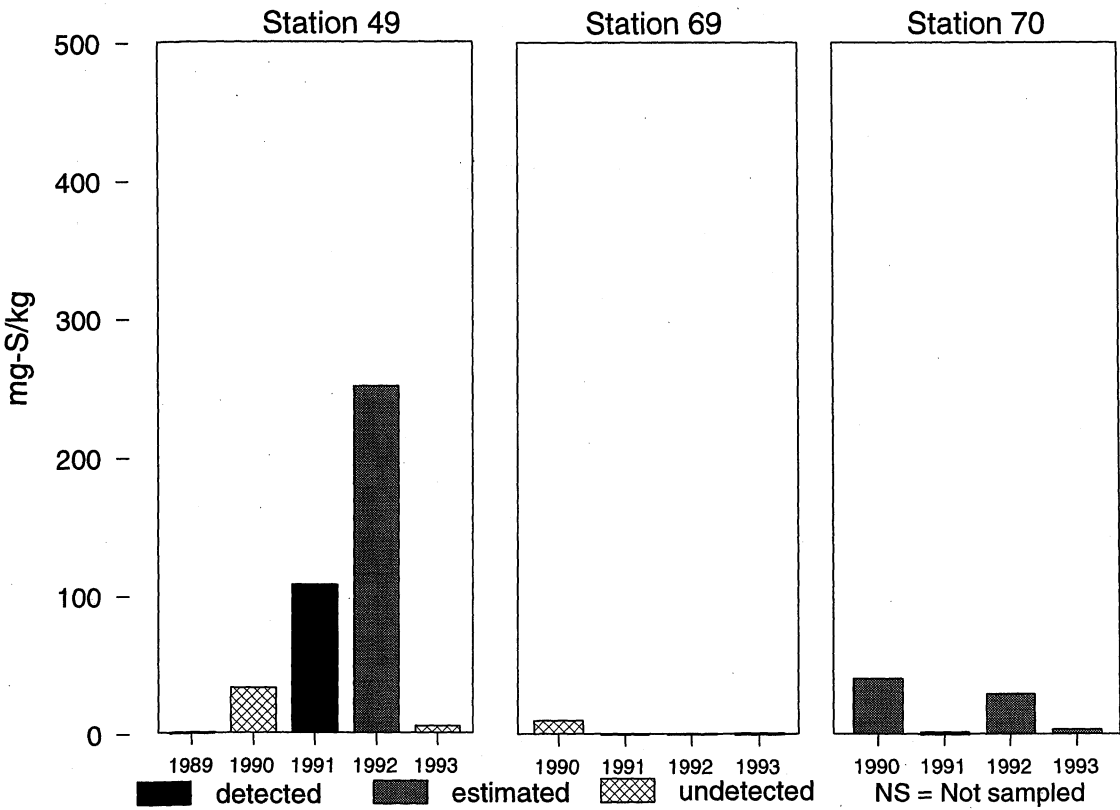
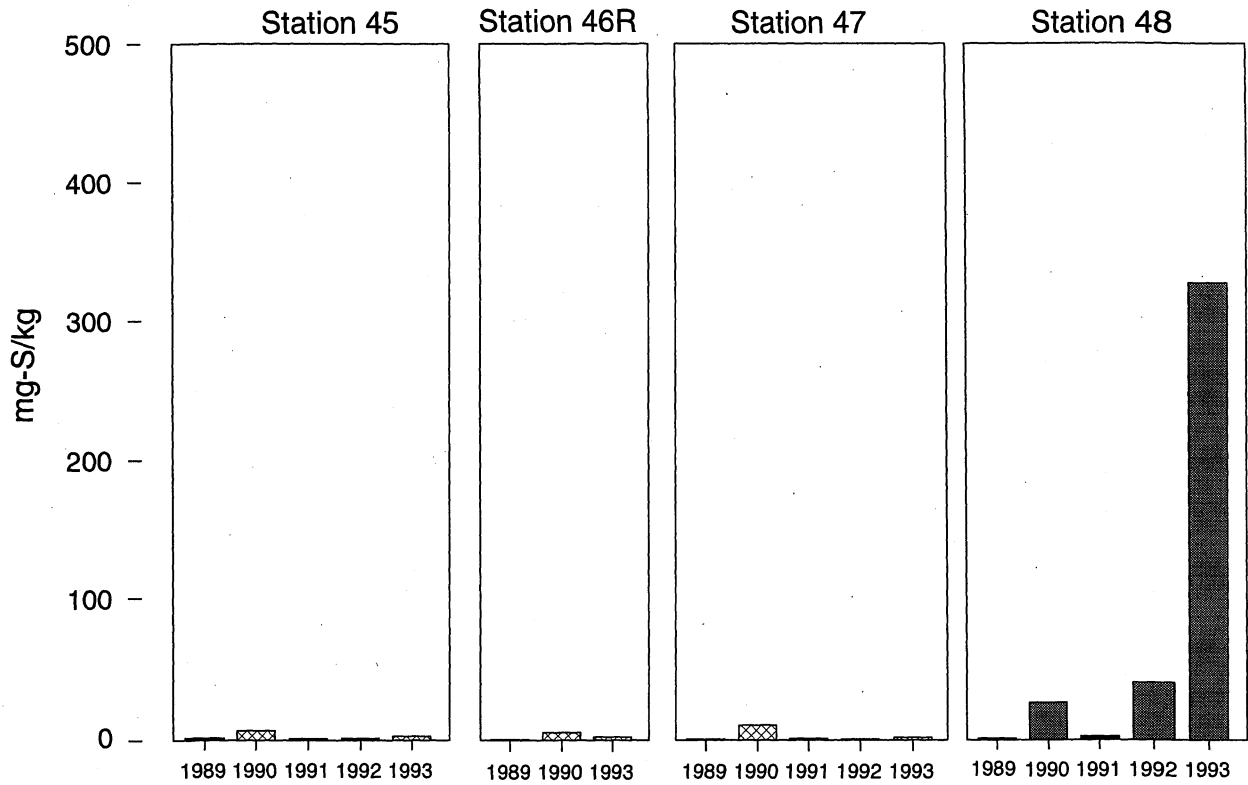
Station 41



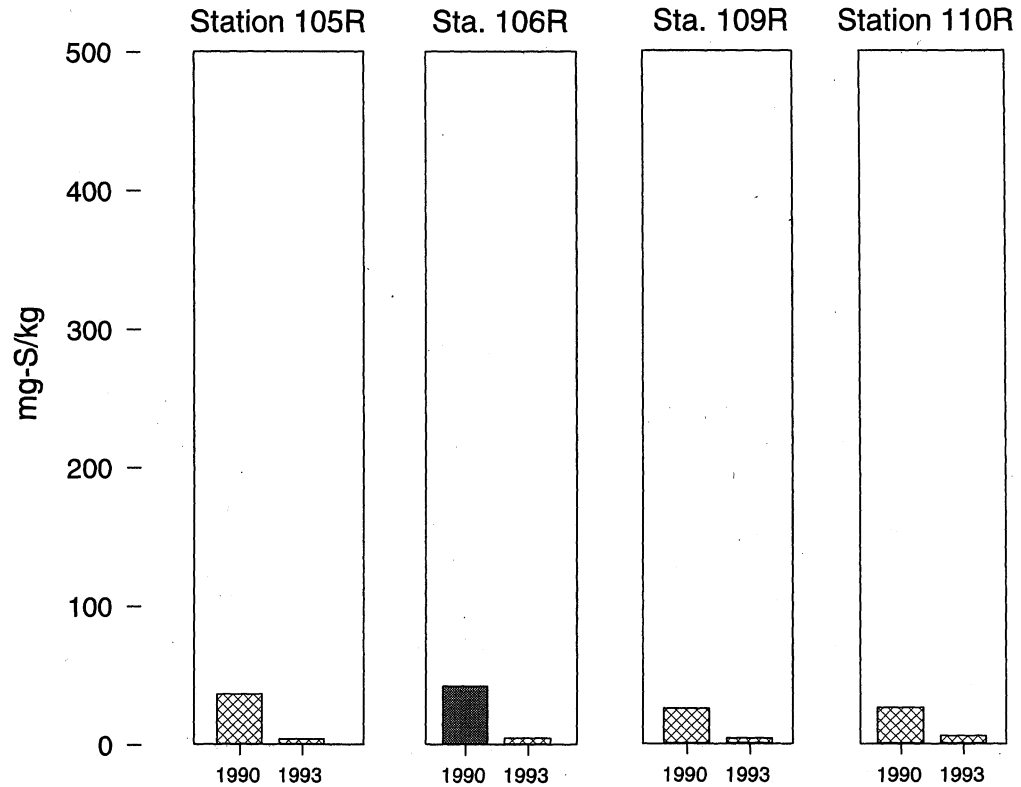
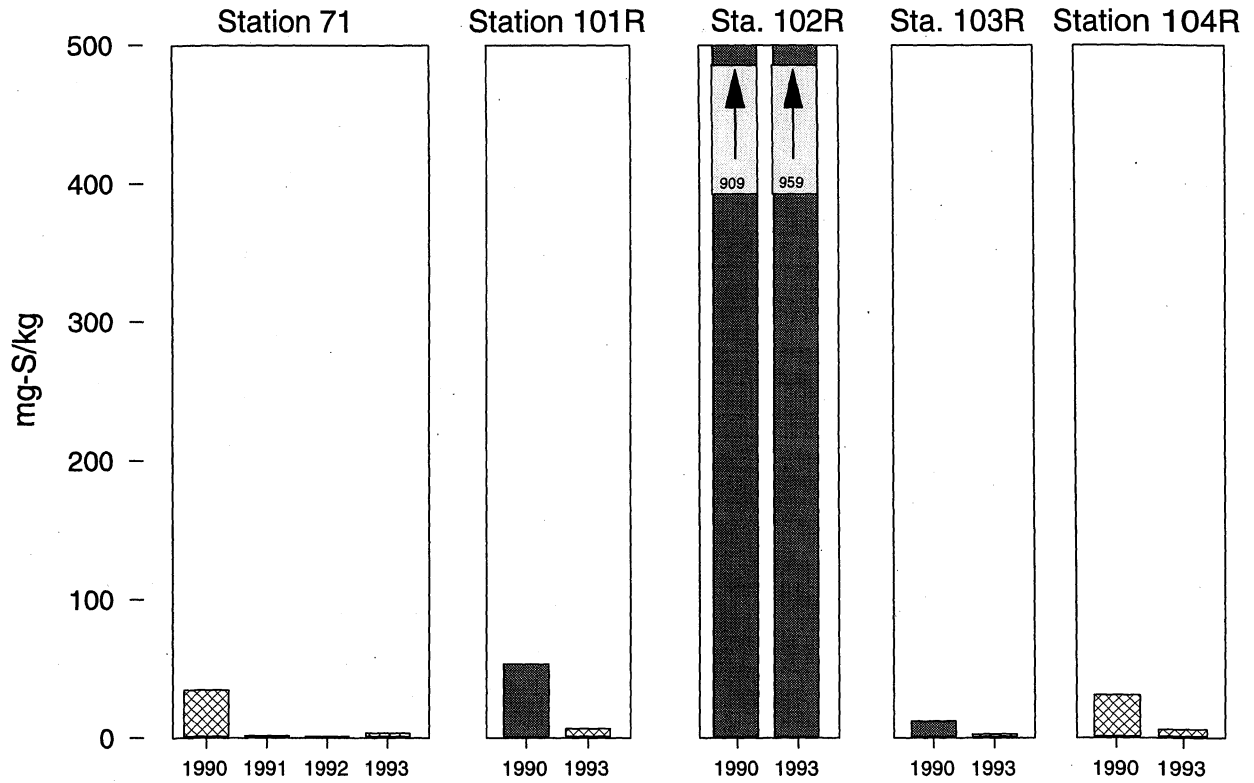
# Total Sulfides



# Total Sulfides

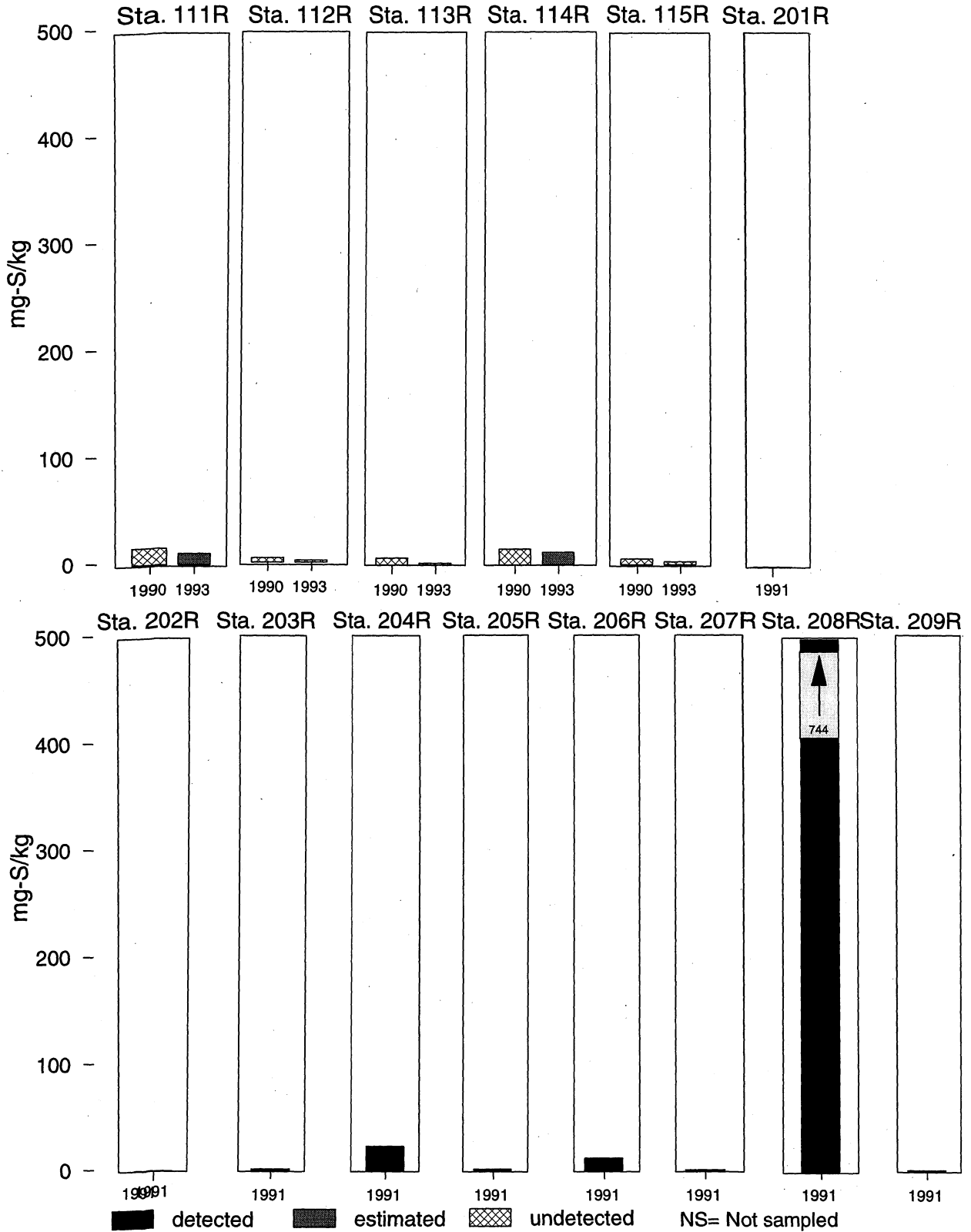


# Total Sulfides



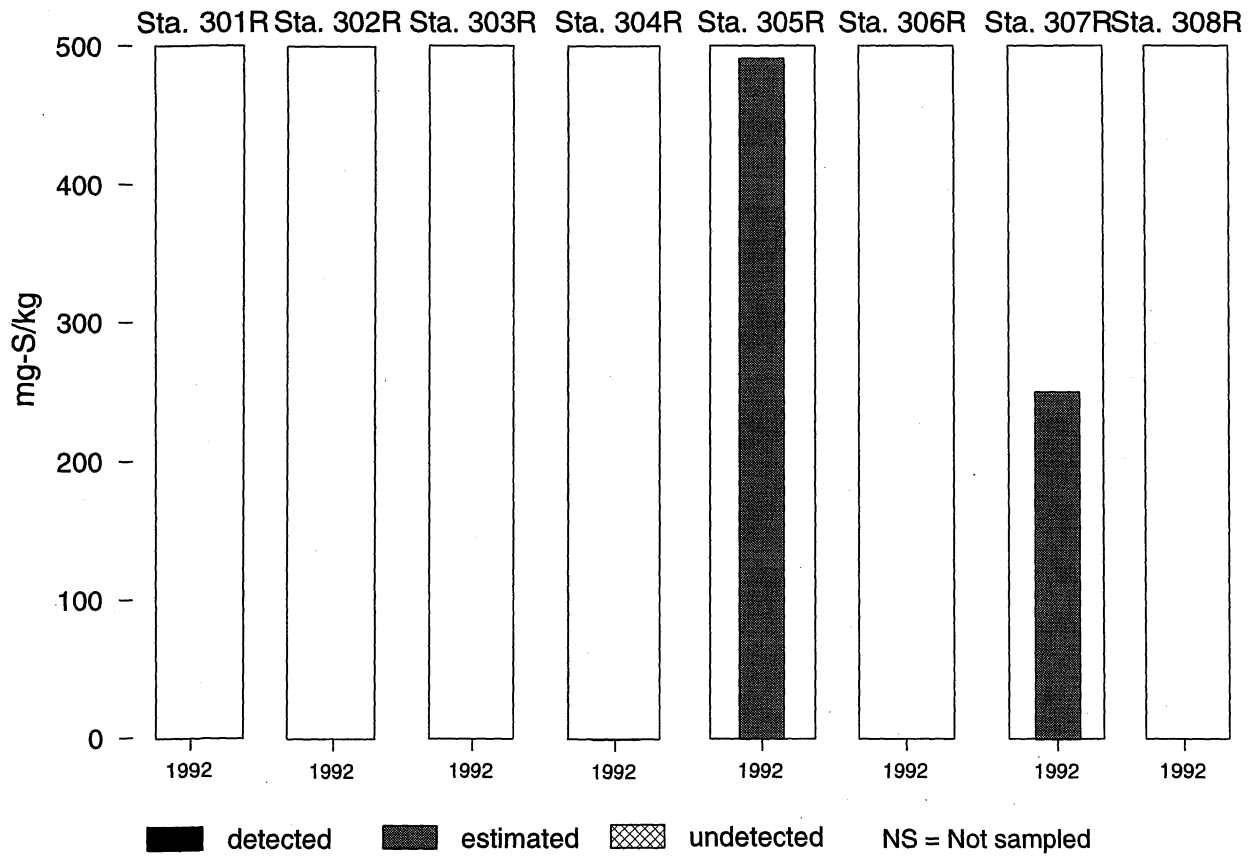
detected    
  estimated    
  undetected    
 Ns = Not sampled

# Total Sulfides





# Total Sulfides





# **Appendix C**

## **Total Organic Carbon**

**(1) Tabular data**

**(2) Graphic display**



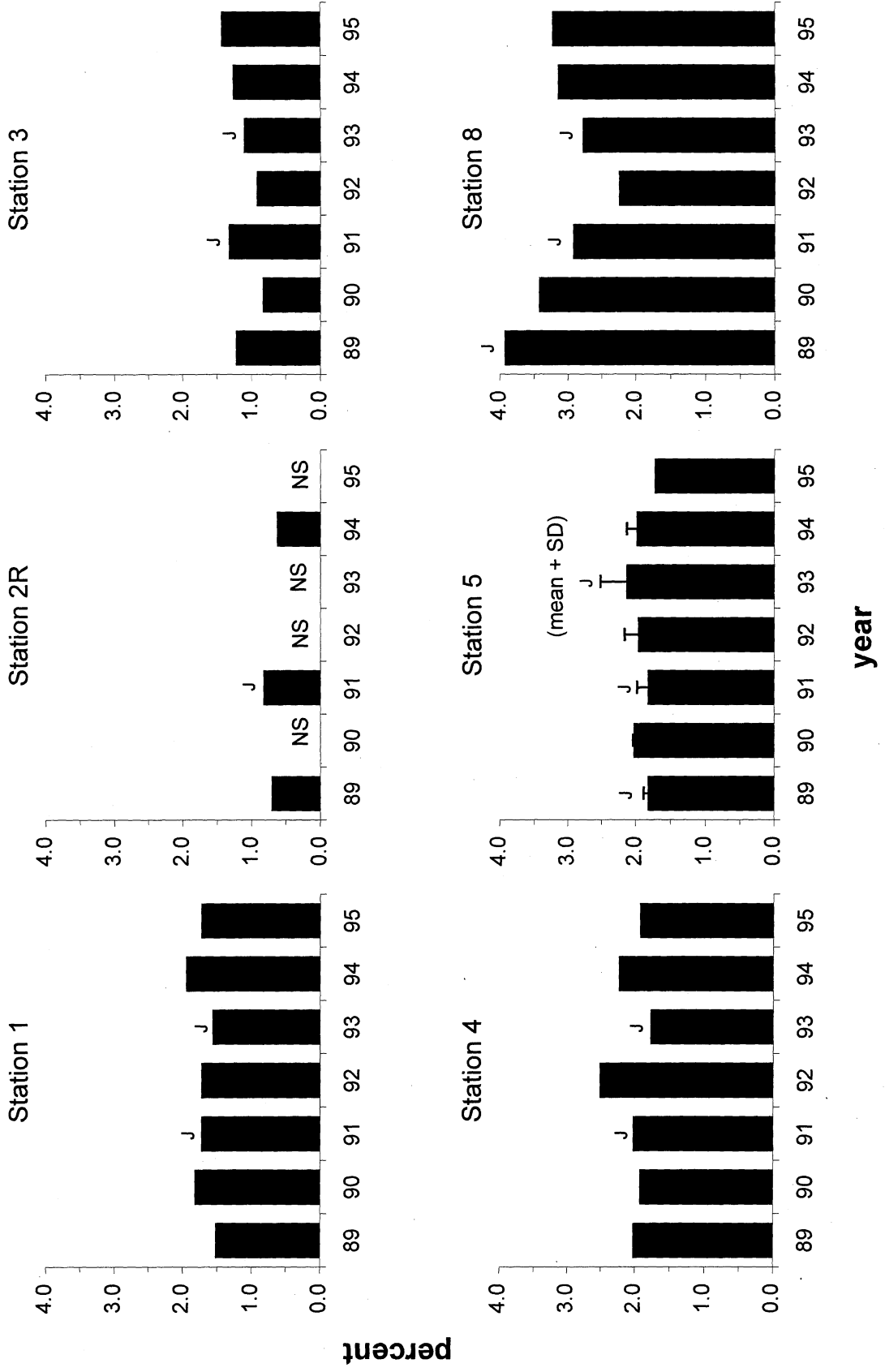
Appendix C. Total Organic Carbon in MSMP stations, 1989-1995. (1) Tabular data (percent). Values from replicate samples are averaged, and all data have been rounded to two significant figures. Blanks denote stations not sampled in a given year. For station location, see Table 1. J = estimate.

Station	1989	1990	1991	1992	1993	1994	1995
1	1.5	1.8	1.7 J	1.7	1.5 J	1.9	1.7
2R	0.68		0.8 J			0.60	
3	1.2	0.81	1.3 J	0.89	1.1 J	1.2	1.4
4	2	1.9	2 J	2.5	1.8 J	2.2	1.9
5	1.8 J	2.0	1.9 J	1.9	2.0 J	1.9	1.7
8	3.9 J	3.4	2.9 J	2.2	2.8 J	3.1	3.2
9R	0.06 J		0.1 J			0.23	
10R	0.61 J		0.6 J			0.84	
11R	0.64 J		1.2 J			1.6	
12	1.5 J	1.8	1.5 J	1.2	2.3 J	1.8	1.6
13R	0.18 J		0.2 J			0.61	
14	0.35 J	0.72	0.7 J	0.9	0.93 J	1.1	1
15	0.24 J	0.18	0.2 J	0.22	0.29 J	0.30	0.25
17	1.5 J	1.7	1.9 J	1.3	1.8 J	1.7	1.4
18	0.93 J	1.5	0.6 J	1.3	1.2 J	0.99	0.83
19	1.9 J	1.8	1.8 J	2.2	1.5 J	1.3	1.5
20	1 J	1.2	1 J	1.0	1.1 J	0.99	1.2
21	1.3 J	1.5	1.3 J	1.2	1.2 J	1.2	1.2
22	0.15	0.2	0.2 J	0.26	1.3 J	0.39	0.22
23R	0.12			0.2			0.15
24R	1.7			2.1			1.9
25R	0.07			0.15			0.13
26	0.44	0.54	0.8 J	0.83	0.8 J	0.83	0.49
27R	0.12			0.17			0.16
29	1.6	1.8	1.4 J	1.7	2.5 J	1.6	1.6
30	1.4	1.4	0.7 J	1.0	2.2 J	0.96	1.7
32	0.16	0.22	0.1 J	0.33	1.2 J	0.28	0.15
33	0.64	1.1	0.9 J	0.19	0.95 J	0.63	0.9
34	2.2	2.7	2.3 J	2.2	3.2 J	1.7	2.5
35	2.3	3.1	2.5 J	2.4	2.5 J	2.3	2.9
36R	0.13			0.22			0.28
37R	0.21			0.18			0.16
38	2.1	2.5	2.1 J	2.0	2.5 J	1.9	2.2
39	0.09	0.15	0.1 J	0.15	0.45 J	0.18	0.11
40	0.7	1.1	0.9 J	2.2	1.8 J	1.1	0.96
41	0.8	1.5	1 J	1.1	0.99 J	0.85	1
43	0.14	0.26	0.1 J	0.29	0.39 J	0.32	0.2
44	0.43	0.51	0.5 J	0.52	0.79 J	0.46	0.46
45	0.96	1.2	1.1 J	0.64	0.88 J	0.90	1.1
46R	0.42	0.39			0.45 J		
47	0.29	0.32	0.3 J	0.53	1.1 J	0.66	0.38

Appendix C. Concluded.

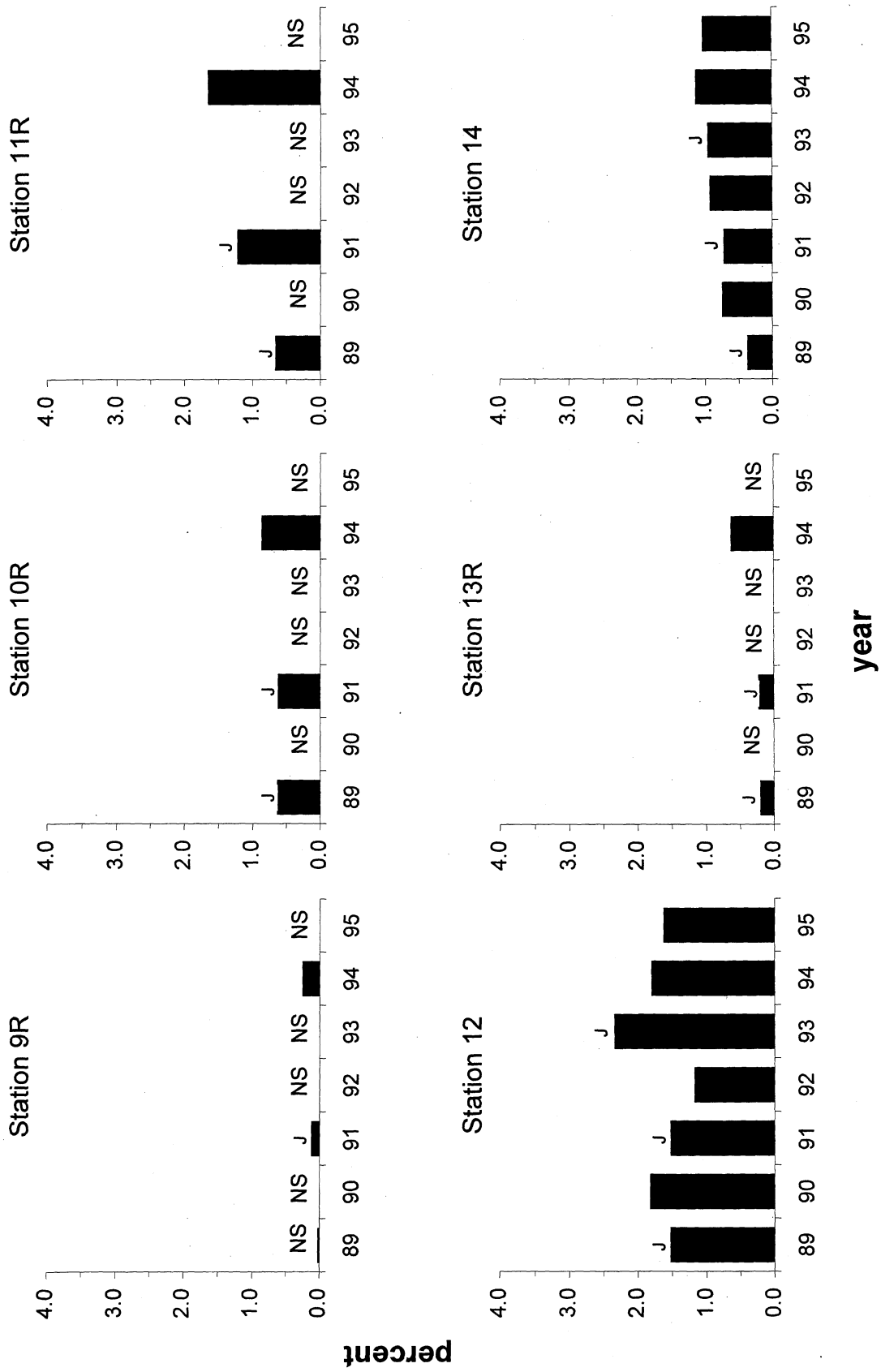
Station	1989	1990	1991	1992	1993	1994	1995
48	2.5	2.2	2.3 J	1.5	2.0 J	1.8	2.6
49	2.7	3	3.3 J	2.1	2.6 J	2	2.2
69		0.47	0.6 J	0.46	0.56 J	0.48	0.48
70		3.1	3.2 J	2.1	2.3 J	2.1	2.4
71		1.4	1.2 J	1.2	1.5 J	1.0	1.1
101R		4			3.3 J		
102R		2.6			2.0 J		
103R		0.46			0.98 J		
104R		3			2.6 J		
105R		2.2			2.1 J		
106R		2.8			2.7 J		
109R		2.5			1.9 J		
110R		3.4			3.1 J		
111R		1.3			2.2 J		
112R		0.062			0.16 J		
113R		0.51			0.84 J		
114R		1.7			2.1 J		
115R		1.4			1.5 J		
201R			0.6 J			0.71	
202R			0.5 J			0.55	
203R			1.7 J			1.8	
204R			2.4 J			3.1	
205R			1.1 J			1.2	
206R			0.8 J			0.86	
207R			1.5 J			1.6	
208R			2.8 J			3.6	
209R			0.5 J			0.50	
301R				0.3			0.43
302R				0.95			1.1
303R				1.3			1.5
304R				1.9			2.3
305R				2.5			3.5
306R				0.4			0.23
307R				1.8			2.2
308R				0.39			0.86

# Total Organic Carbon



Appendix C. Percent total organic carbon in MSMP stations. (2) Graphic display. NS = not sampled, J = estimated value.

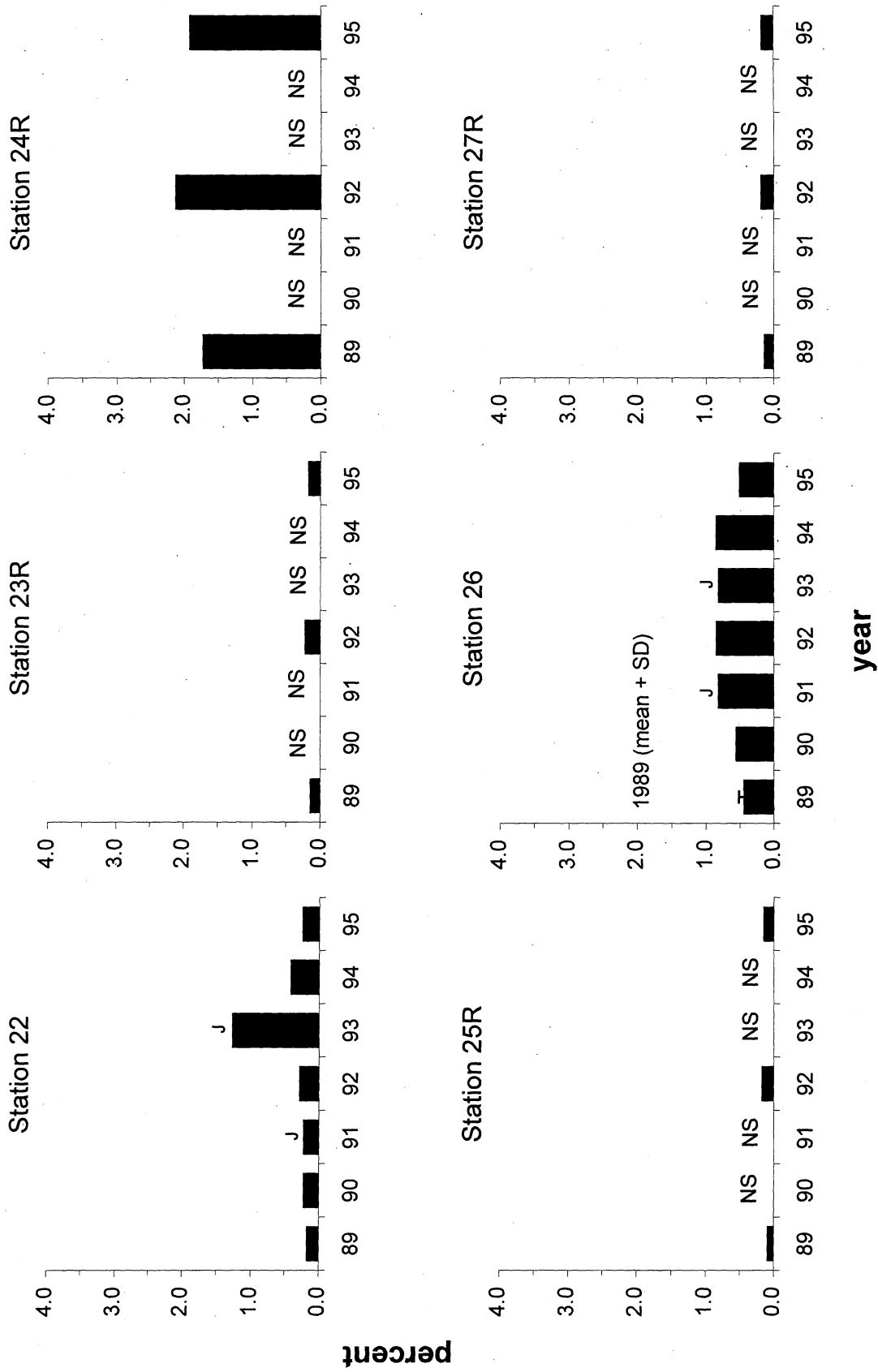
# Total Organic Carbon





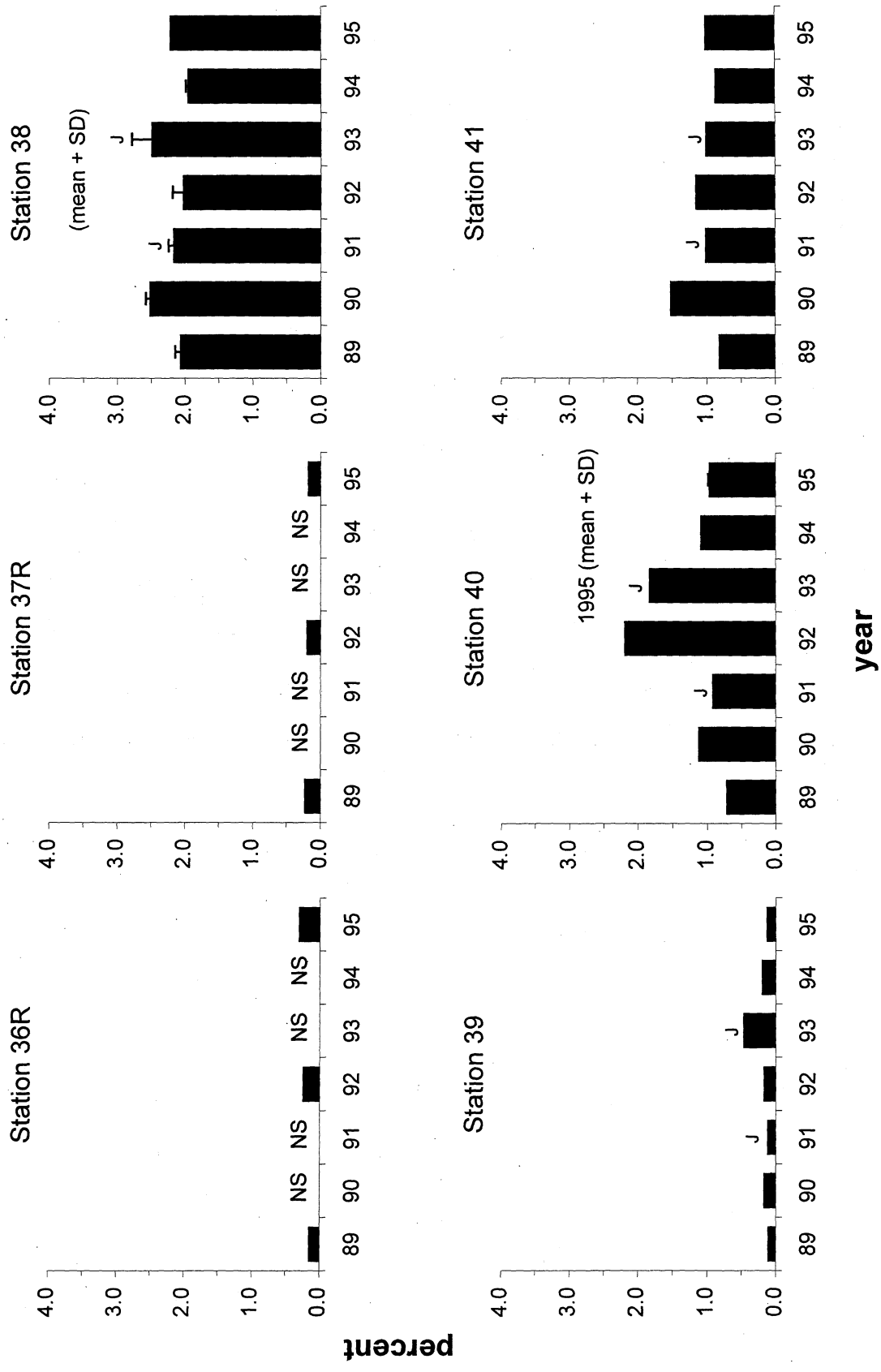


# Total Organic Carbon

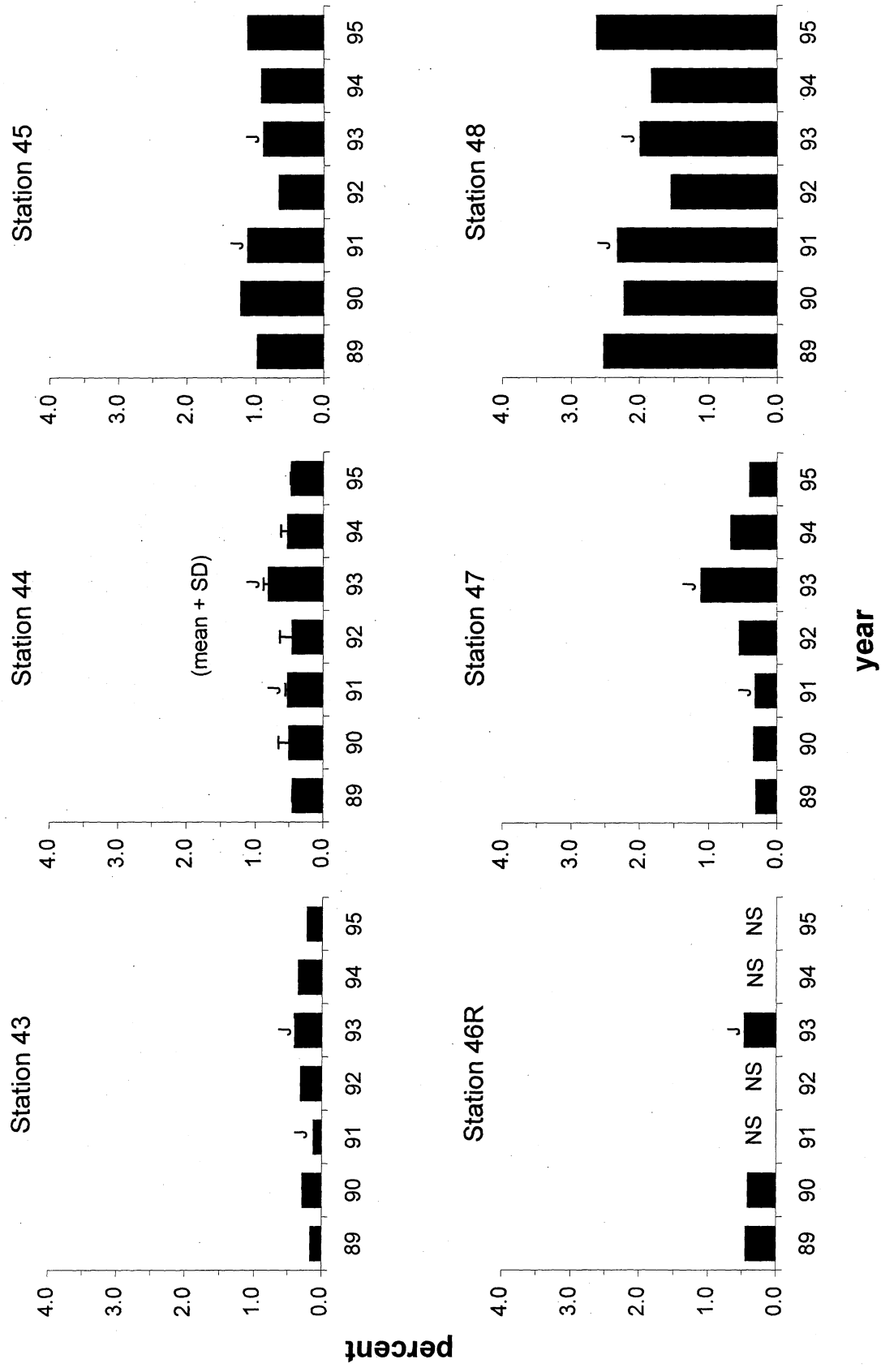




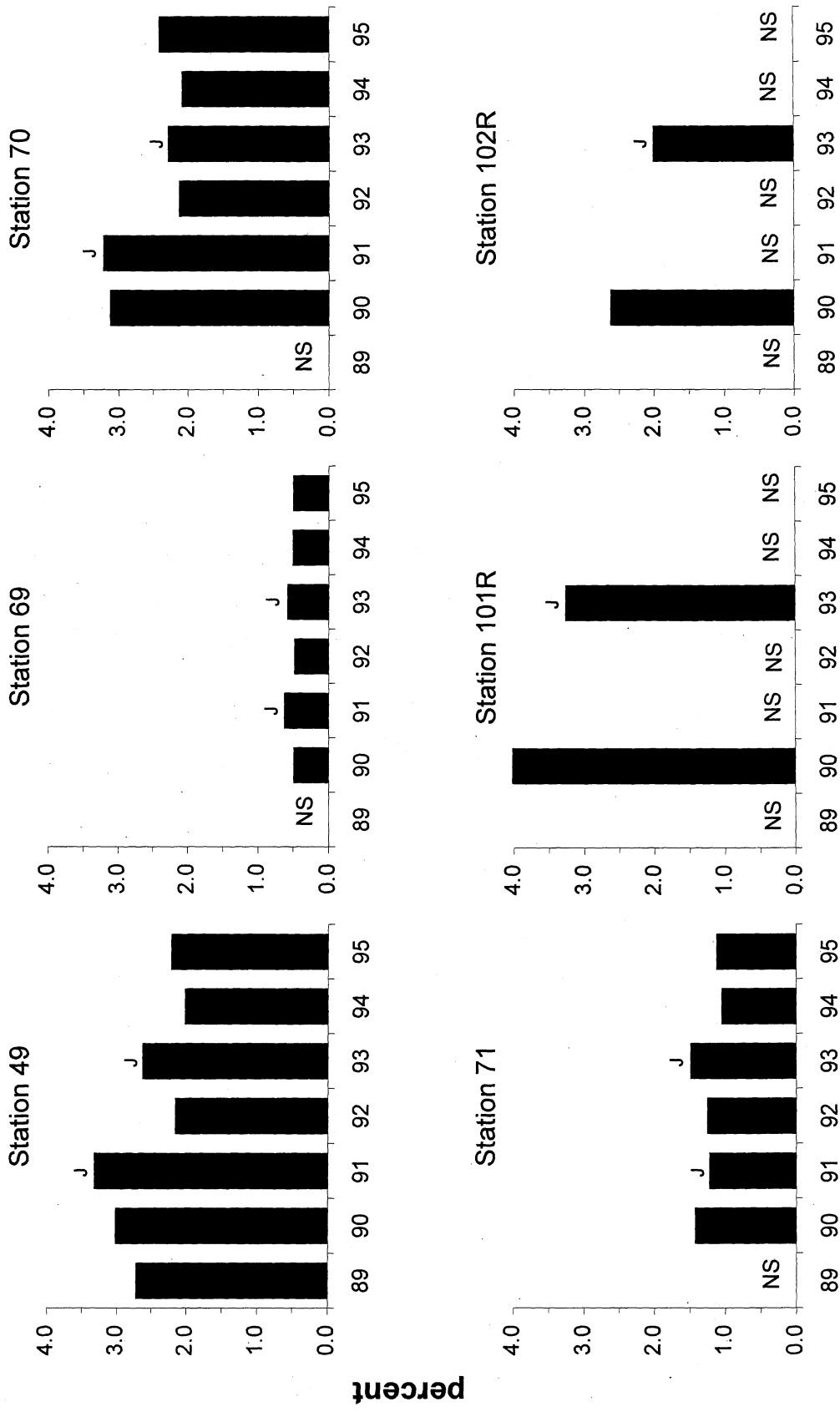
# Total Organic Carbon



# Total Organic Carbon

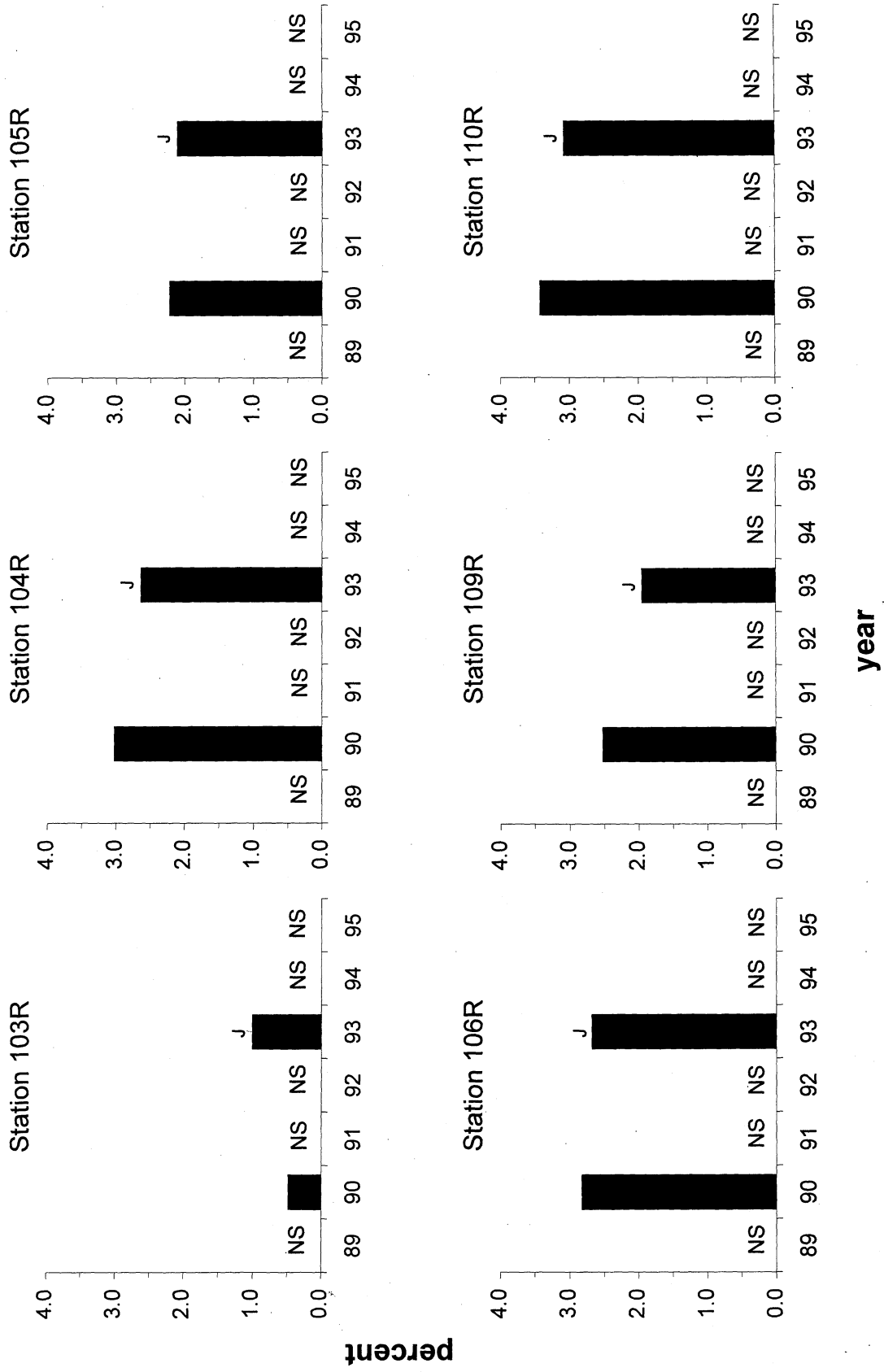


# Total Organic Carbon

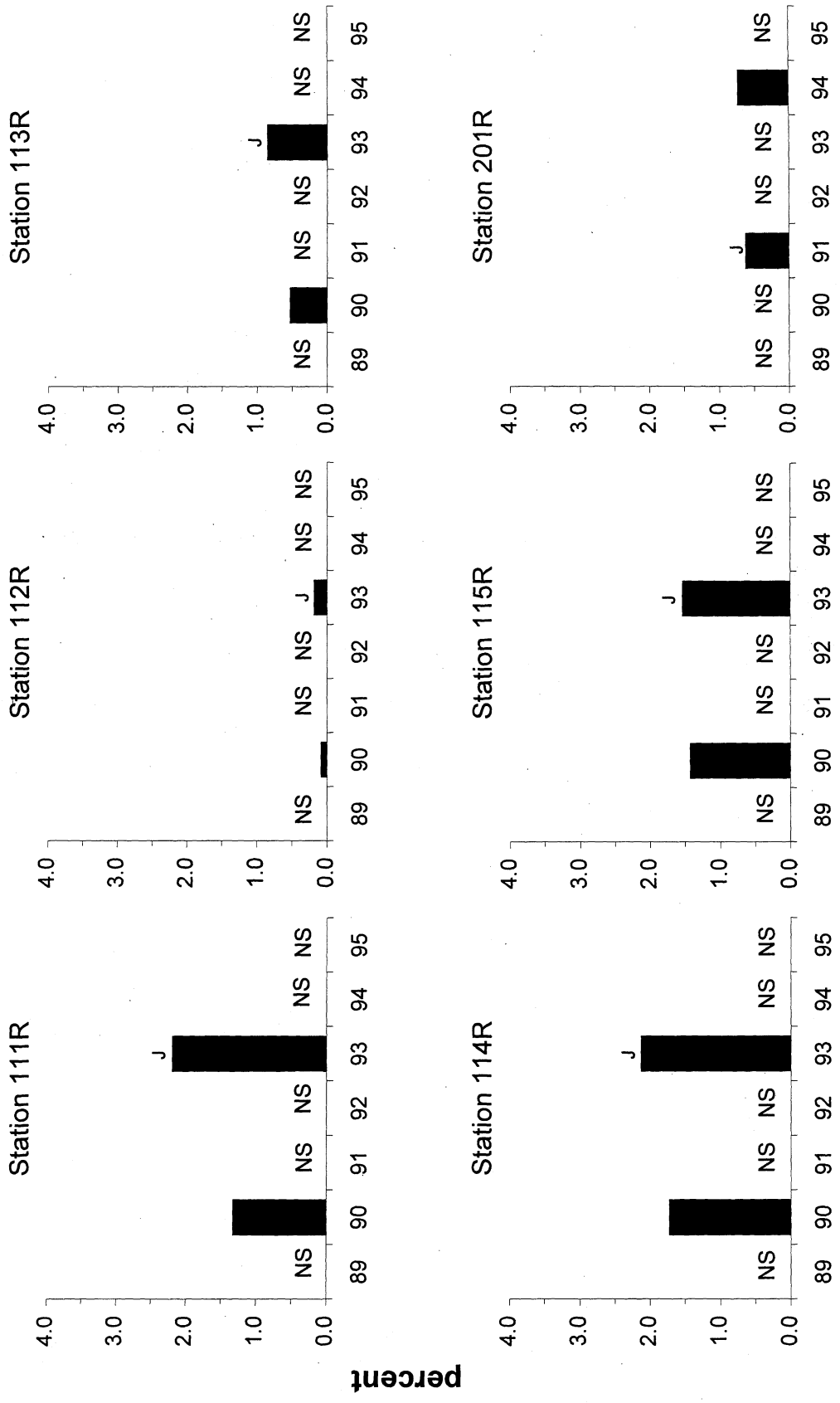


year

# Total Organic Carbon



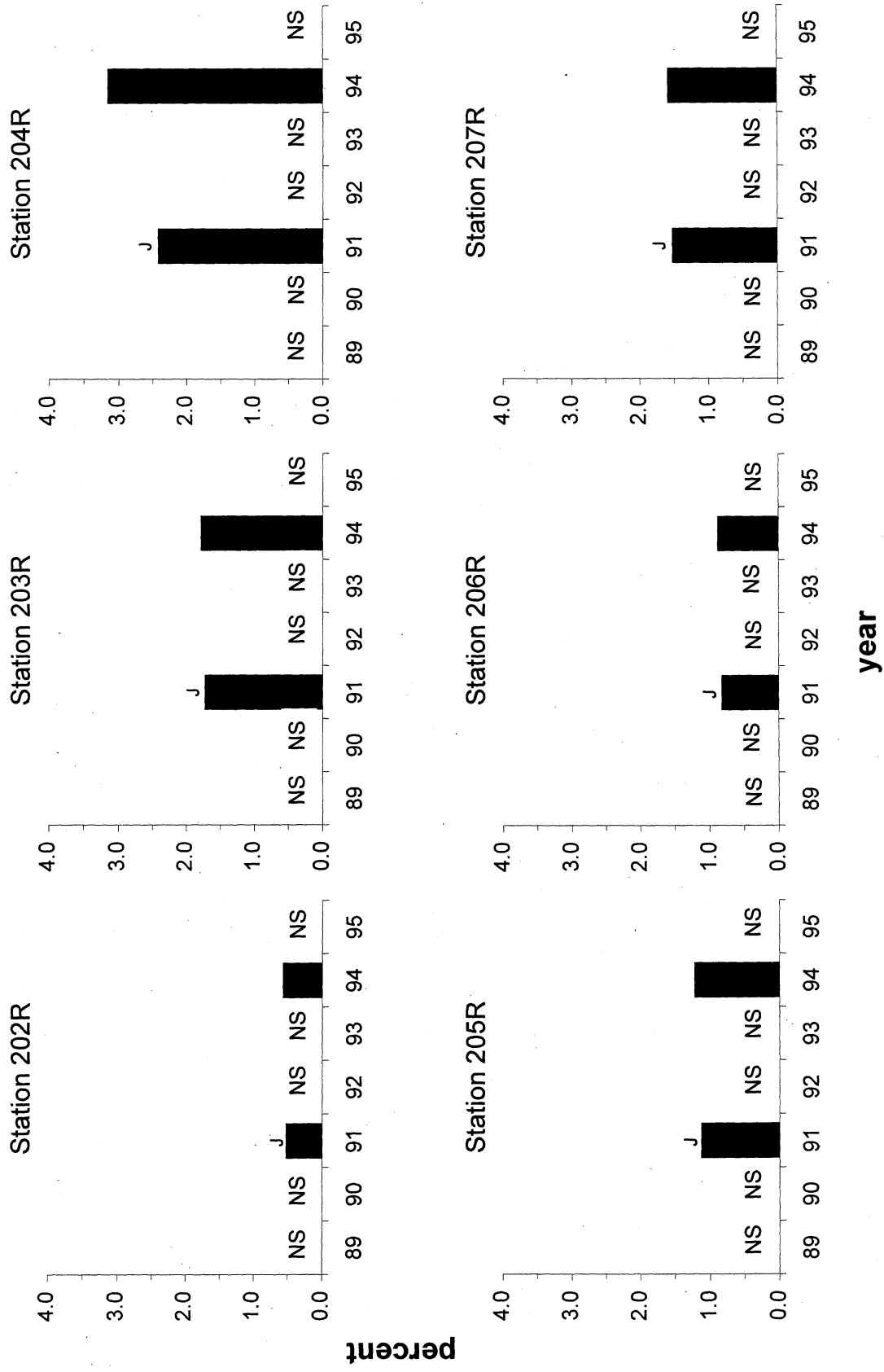
# Total Organic Carbon



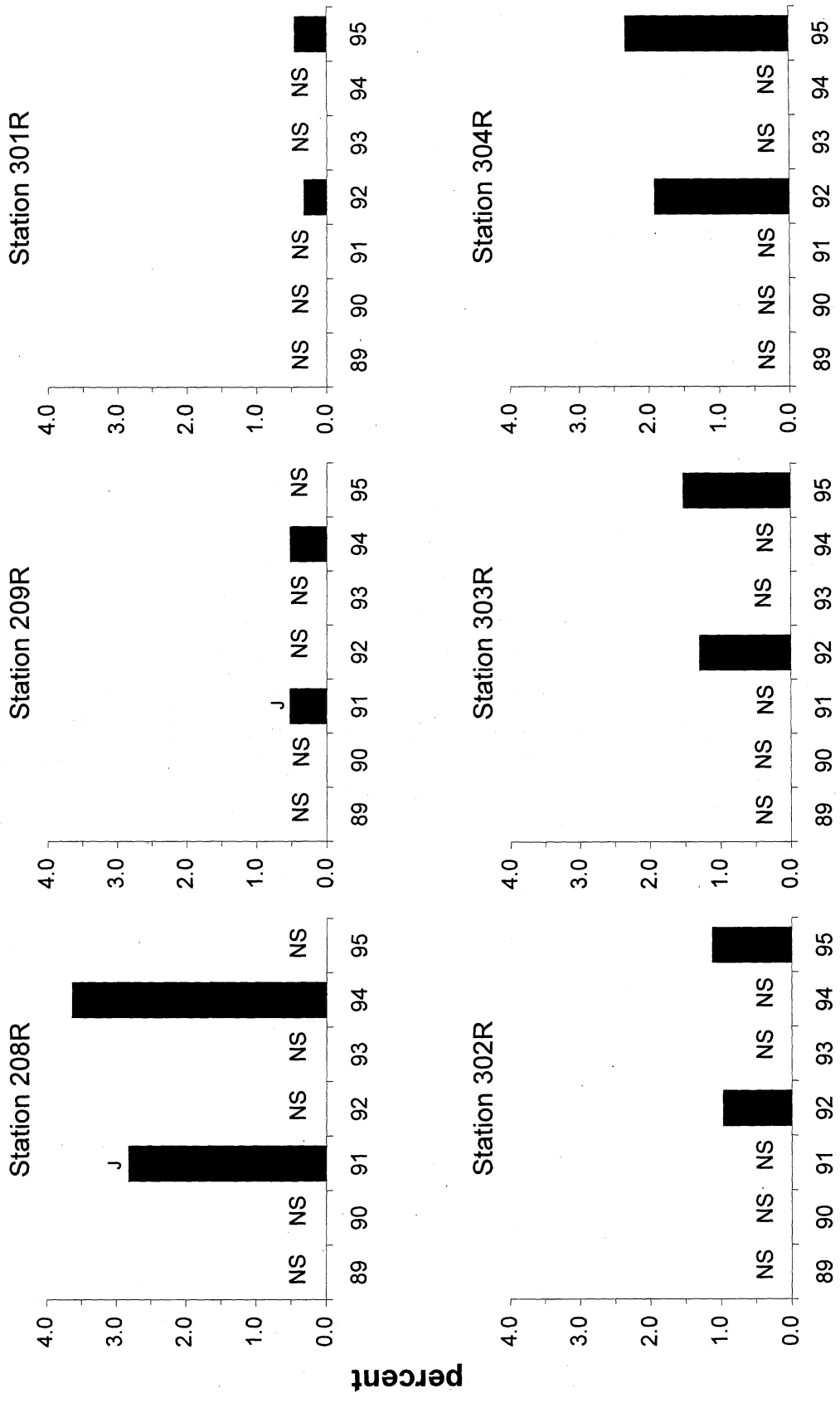
year



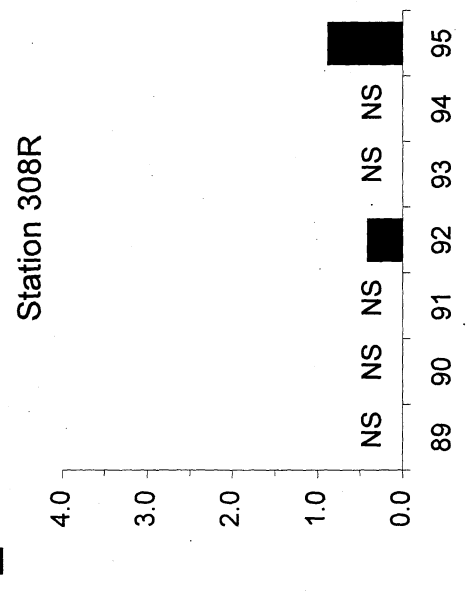
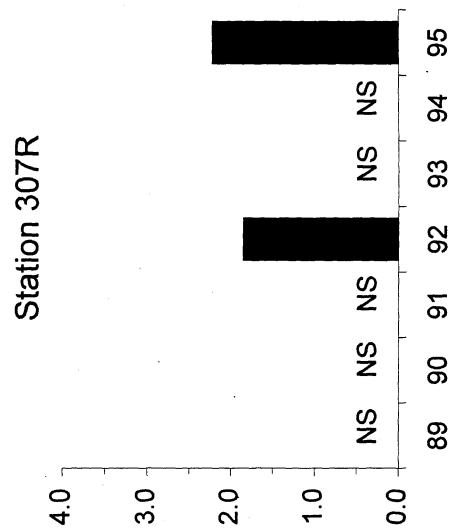
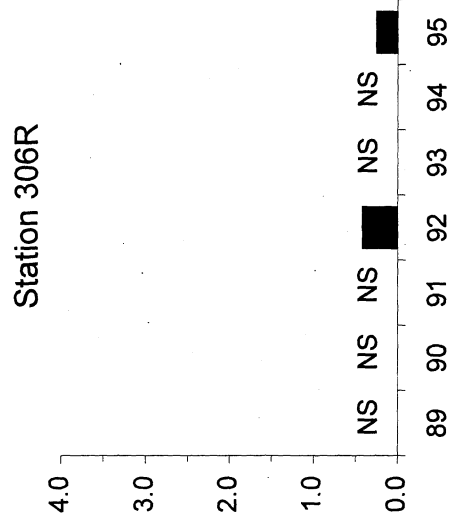
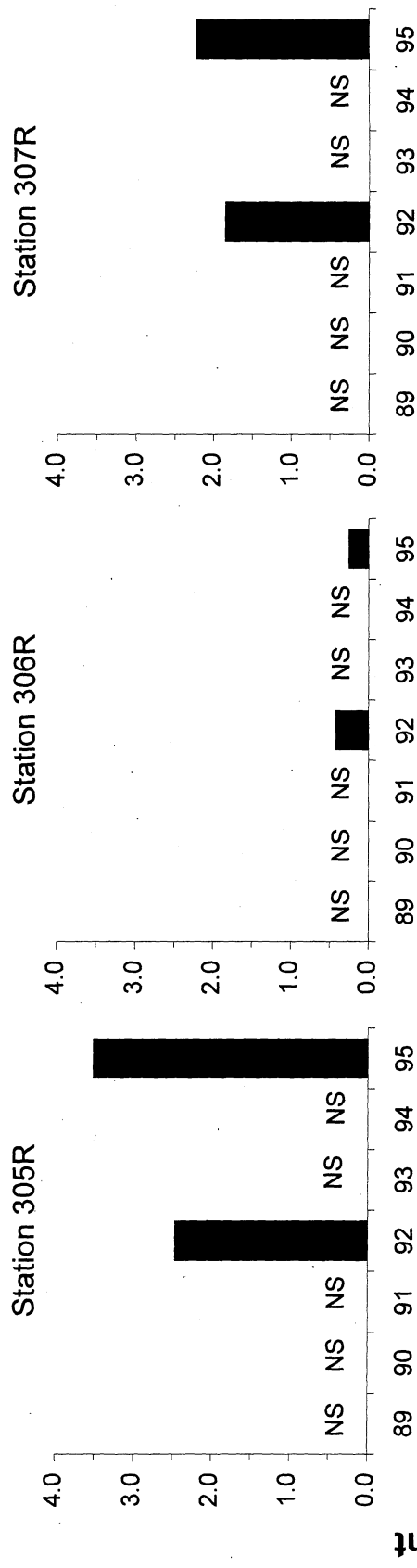
# Total Organic Carbon



# Total Organic Carbon



# Total Organic Carbon



year

percent



# **Appendix D**

## **Chemistry**



Appendix D. Chemical compounds detected in the MSMP, 1989-1995. All stations included. Undetected values were not considered. Replicate samples are denoted by the station number followed by the replicate number. Concentrations have been rounded to two significant figures, and are presented in mg/kg dry weight for the metals, and µg/kg dry weight for organic compounds. B = blank corrected, J = estimate, N = presumptive evidence, NS = not sampled, P = above instrument detection limit, Q = questionable value.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
<b>METALS</b>							
Priority Pollutant Metals							
antimony	1989	0.22	0.38	1.3 J	8	37	65
	1990	0.8 Q	8.4	16 Q	2	63	65
	1991	0.09 J	0.26	0.65 J	10	0	63
	1992	0.17 J	0.32	0.46 J	14	0	63
	1993	0.1 N	0.4	1 N	26	0	63
	1994						NS
	1995	3.3 J	3.6	3.9	2	0	63
arsenic	1989	0.74	4.6	12	65	0	65
	1990	1.1	8.6	29	65	0	65
	1991	1.8	6.4	16	63	0	63
	1992	1.4	5.7	17	63	0	63
	1993	0.9	8	17	63	0	63
	1994	4 P	11	22 P	42	0	63
	1995	1.4 J	5.7	170 N	63	0	63
beryllium	1989	0.29	0.36	0.42	2	0	65
	1990	0.2	0.55	0.8	6	0	65
	1991	0.1	0.28	0.55	56	0	63
	1992	0.12	0.15	0.31	9	0	63
	1993	0.1	0.3	0.5	29	0	63
	1994						NS
	1995	0.1 P	0.3	0.61 P	50	0	63

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration	
		Minimum	Median	Maximum	Detected	Rejected		Total
Priority Pollutant Metals (continued)								
cadmium								
	1989	0.05 J	0.16	1.8 J	44	0	65	49 Inner Budd Inlet
	1990	0.05 J	0.28	1.7	56	0	65	114R Henderson Bay
	1991	0.04	0.19	2.2	60	0	63	208R Sequim Bay
	1992	0.03	0.28	5.8	58	0	63	38/3 Point Pully
	1993	0.03	0.28	2	62	0	63	110R Inner Case Inlet
	1994	0.34 P	0.78	2.9 P	49	0	63	208R Sequim Bay
	1995	0.4 P	0.6	1.8 P	10	0	63	305R Hood Canal (Outer Lynch Cove)
chromium								
	1989	11	24	100	65	0	65	20 Port Susan
	1990	9.5	31	110	65	0	65	20 Port Susan
	1991	12	31	130	63	0	63	20 Port Susan
	1992	11	30	110	63	0	63	20 Port Susan
	1993	6.1	34	98	63	0	63	20 Port Susan
	1994	10	31	100 N	63	0	63	18 Oak Harbor
	1995	9.8	32	110	63	0	63	20 Port Susan
copper								
	1989	2.7	14	130	65	0	65	34 Sinclair Inlet
	1990	3.8	30	210	65	0	65	35/4 Dyes Inlet
	1991	1	28	130	63	0	63	34 Sinclair Inlet
	1992	3.5	29	120	63	0	63	34 Sinclair Inlet
	1993	3.7	31	120	63	0	63	17 South Hood Canal (Gr. Bend), 34 Sinclair Inlet
	1994	4 B	28	110	63	0	63	17 South Hood Canal (Gr. Bend)
	1995	3.2 P	28	120	63	0	63	17 South Hood Canal (Gr. Bend)



Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
Priority Pollutant Metals (continued)								
lead								
	1989	2.2 J	10	94	65	0	65	34 Sinclair Inlet
	1990	1.6	9.2	69	65	0	65	35/1 Dyes Inlet
	1991	2.4	13	91	63	0	63	34 Sinclair Inlet
	1992	2.3	13	120	63	0	63	38/3 Point Pully
	1993	1.6	14	87	62	0	63	34 Sinclair Inlet
	1994	2.3 P	8.1	56	60	0	63	34 Sinclair Inlet
	1995	2	11	65	63	0	63	34 Sinclair Inlet
mercury								
	1989	0.09	0.19	0.86 J	15	0	65	34 Sinclair Inlet
	1990	0.09 J	0.2	0.87 J	18	0	65	34 Sinclair Inlet
	1991	0.03	0.12	0.74	50	0	63	34 Sinclair Inlet
	1992	0.01	0.07	0.58	56	0	63	34 Sinclair Inlet
	1993	0.013	0.08	0.49	61	0	63	35/4 Dyes Inlet
	1994	0.008 P	0.057	0.79	62	0	63	34 Sinclair Inlet
	1995	0.009 P	0.079	0.67	62	0	63	35/2 Dyes Inlet
nickel								
	1989	7.9	27	110	65	0	65	20 Port Susan
	1990	6	29	130	65	0	65	20 Port Susan
	1991	4	32	160	63	0	63	203R Bellingham Bay
	1992	8.2	28	130	63	0	63	20 Port Susan
	1993	5	33	120	63	0	63	20 Port Susan
	1994						NS	
	1995	7.4 P	29	110	63	0	63	20 Port Susan

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
Priority Pollutant Metals (continued)							
selenium							
	1989				0	10	65
	1990				0	65	65
	1991				0	63	63
	1992						NS
	1993						NS
	1994						NS
	1995	0.41 J	0.64	1 J	31	0	63
305R Hood Canal (Outer Lynch Cove)							
silver							
	1989	0.04	0.13	1.9	45	0	65
	1990	0.05	0.22	1.4	61	0	65
	1991	0.03 J	0.21	1.3 J	54	0	63
	1992	0.02	0.14	1.8	54	0	63
	1993	0.03	0.17	1.1	58	0	63
	1994	0.39 PJ	0.68	0.91 PJ	6	0	63
	1995	0.32 J	0.67	1.2 J	37	0	63
17 South Hood Canal (Gr. Bend), 34 Sinclair Inlet							
thallium							
	1989	0.24	0.24	0.24	1	0	65
	1990	0.2 J	0.4	0.7	10	0	65
	1991	0.09	0.18	0.31	20	0	63
	1992						NS
	1993						NS
	1994						NS
	1995				0	0	63
6 Anacortes							
104R Inner Eld Inlet							
30 Eagle Harbor							

Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median Maximum	Detected	Rejected Total	
Priority Pollutant Metals (continued)						
zinc						
	1989	15	41	65	0	65
	1990	16 J	68	65	0	65
	1991	14 J	61	63	0	63
	1992	13	59	63	0	63
	1993	13	73	63	0	63
	1994	14	58	63	0	63
	1995	14 B	53	63	0	63
Ancillary Metals						
aluminum						
	1989	4400	10000	65	0	65
	1990	4800	16000	65	0	65
	1991	5400	15000	63	0	63
	1992	3800	13000	63	0	63
	1993	3300	16000	63	0	63
	1994					NS
	1995					NS
barium						
	1989	8	22	65	0	65
	1990	9.8	30	65	0	65
	1991	5	34	63	0	63
	1992	7.2	29	63	0	63
	1993	4.7	29	63	0	63
	1994					NS
	1995					NS

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration	
		Minimum	Median	Maximum	Detected	Rejected		
Ancillary Metals (continued)								
calcium	1989	2200	5100	22000	65	0	3 Strait of Georgia (N of Patos Island)	
	1990	2200 J	6000	16000 J	65	0	3 Strait of Georgia (N of Patos Island)	
	1991	2200	6100	18000	63	0	47 Case Inlet	
	1992	1700	5100	31000	63	0	3 Strait of Georgia (N of Patos Island)	
	1993	1500	5600	28000	63	0	3 Strait of Georgia (N of Patos Island)	
	1994						NS	
	1995						NS	
	cobalt	1989	2.3	6.7	20	65	0	17 South Hood Canal (Gr. Bend)
		1990	2.5	7.9	23	65	0	17 South Hood Canal (Gr. Bend)
		1991	1	8.3	25	63	0	203R Bellingham Bay
1992		2.3	7.8	21	63	0	17 South Hood Canal (Gr. Bend)	
1993		2.4	8.5	24	63	0	17 South Hood Canal (Gr. Bend)	
1994							NS	
1995							NS	
iron		1989	6500	17000	49000	65	0	17 South Hood Canal (Gr. Bend)
	1990	6300	22000	53000	65	0	17 South Hood Canal (Gr. Bend)	
	1991	7200	24000	51000	63	0	17 South Hood Canal (Gr. Bend)	
	1992	5700	21000	48000	63	0	17 South Hood Canal (Gr. Bend)	
	1993	5300	22000	57000	63	0	17 South Hood Canal (Gr. Bend)	
	1994						NS	
	1995						NS	

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
Ancillary Metals (continued)							
magnesium							
	1989	2700	7300	19000	65	0	65
	1990	2200	8400	20000	65	0	65
	1991	2900	9400	25000	63	0	63
	1992	2500	9000	20000	63	0	63
	1993	2000	9400	20000	63	0	63
	1994						NS
	1995						NS
manganese							
	1989	110	280	1100	65	0	65
	1990	76	320	960	65	0	65
	1991	17	260	840	63	0	63
	1992	100	290	1400	63	0	63
	1993	83	300	1400	63	0	63
	1994						NS
	1995						NS
potassium							
	1989	710	1500	4600	65	0	65
	1990	570	2300	4700	65	0	65
	1991	1100	2600	9700	63	0	63
	1992						NS
	1993						NS
	1994						NS
	1995						NS

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration	
		Minimum	Median	Maximum	Detected	Rejected		Total
Ancillary Metals (continued)								
sodium								
	1989	2700	6500	29000	65	0	65	38/1 Point Pully
	1990	3300	14000	32000	65	0	65	110R Inner Case Inlet
	1991	3100	13000	39000	63	0	63	208R Sequim Bay
	1992						NS	
	1993						NS	
	1994						NS	
	1995						NS	
vanadium								
	1989	13	31	130	65	0	65	17 South Hood Canal (Gr. Bend)
	1990	13	46	140	65	0	65	17 South Hood Canal (Gr. Bend)
	1991	16 J	47	130	63	0	63	17 South Hood Canal (Gr. Bend)
	1992	11	39	110	63	0	63	17 South Hood Canal (Gr. Bend)
	1993	12	45	150	63	0	63	17 South Hood Canal (Gr. Bend)
	1994						NS	
	1995						NS	
VOLATILE ORGANIC ANALYSIS (VOA) COMPOUNDS								
acetone								
	1989	11 J	29	69 J	6	2	16	38/1 Point Pully
	1990	22	38	53	2	0	16	38/1 Point Pully
	1991	4.4 J	9.3	33 J	21	0	21	204R East Sound
	1992	5.8 J	14	46 J	20	0	20	35/3 Dyes Inlet
	1993				0	0	19	
	1994						NS	
	1995						NS	

Appendix D. Continued.

Compound	Year	Concentration		Number of samples			Station # and Location of Maximum Concentration	
		Minimum	Median	Maximum	Detected	Rejected		Total
VOLATILE ORGANIC ANALYSIS (VOA) COMPOUNDS (continued)								
benzene	1989	0.06 N	0.085	0.17 J	12	0	16	38/1 Point Pully
	1990				0	0	16	
	1991	0.04 N	0.1	0.17 J	15	0	21	29/1, 29/4 Shilshole
	1992	0.1 J	0.17	0.28	5	0	20	35/2 Dyes Inlet
	1993	0.1 J	0.18	0.29 J	11	0	19	38/3 Point Pully
	1994						NS	
1995						NS		
bromoform	1989	0.02	0.04	0.11	3	0	16	10R Dungeness Bay
	1990				0	0	16	
	1991	0.03 N	0.07	0.08	3	0	21	12 Port Townsend Bay
	1992	0.06 J	0.06	0.06 J	1	0	20	26 Central Basin
	1993	0.11 J	0.11	0.11 J	1	0	19	26 Central Basin
	1994						NS	
1995						NS		
bromomethane	1989				0	0	16	
	1990	0.86	0.86	0.86	1	0	16	38/2 Point Pully
	1991				0	0	21	
	1992				0	0	20	
	1993				0	0	19	
	1994						NS	
1995						NS		

Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
VOLATILE ORGANIC ANALYSIS (VOA) COMPOUNDS (continued)								
2-butanone								
	1989	5 J	8.5	13 J	3	2	16	38/1 Point Pully
	1990	5.2	11	17	2	0	16	19 Saratoga Passage
	1991	1.5 J	3.7	12 J	21	0	21	34 Sinclair Inlet
	1992	3.9	6.4	12	14	0	20	48 Outer Budd Inlet
	1993	3.3 J	7.6	14	18	0	19	35/2 Dyes Inlet
	1994						NS	
	1995						NS	
carbon disulfide								
	1989	0.33	1.6	3.7	14	0	16	26/1 Central Basin
	1990	0.12 J	0.33	1.8 J	10	0	16	38/4 Point Pully
	1991	0.36	2	5.3	21	0	21	34 Sinclair Inlet, 204R East Sound
	1992	1 J	1.7	4.9 N	20	0	20	38/4 Point Pully
	1993	1	3.1	8.8 J	19	0	19	48 Outer Budd Inlet
	1994						NS	
	1995						NS	
chlorobenzene								
	1989	0.05 J	0.05	0.05 J	1	0	16	29/1 Shilshole
	1990				0	0	16	
	1991				0	0	21	
	1992				0	0	20	
	1993				0	0	19	
	1994						NS	
	1995						NS	



Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration		
		Minimum	Median	Maximum	Total		Detected	Rejected
VOLATILE ORGANIC ANALYSIS (VOA) COMPOUNDS (continued)								
chloroform	1989	0.04	0.12	0.31	13	0	16	5/3 Samish Bay
	1990	0.33 J	0.33	0.33 J	1	0	16	38/4 Point Pully
	1991				0	0	21	
	1992	0.08 J	0.1	0.12 J	2	0	20	8 Port Angeles
	1993	0.09 J	0.13	0.14 J	3	0	19	38/4 Point Pully
	1994						NS	
	1995						NS	
1,4-dichlorobenzene <sup>(a)</sup>								
	1989						NS	
	1990						NS	
	1991	0.11 J	0.14	0.19	5	0	21	35/1 Dyes Inlet
	1992				0	0	20	
	1993						NS	
	1994						NS	
	1995						NS	
1,1-dichloroethane								
	1989	0.52	0.81	1.1	2	0	16	3 Strait of Georgia (N of Patos Island)
	1990				0	0	16	
	1991				0	0	21	
	1992				0	0	20	
	1993				0	0	19	
	1994						NS	
	1995						NS	

Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration		
		Minimum	Median	Maximum	Detected		Rejected	Total
<b>VOLATILE ORGANIC ANALYSIS (VOA) COMPOUNDS (continued)</b>								
<b>cis-1,2-dichloroethene</b>								
	1989	0.05	0.05	0.05	1	0	16	38/1 Point Pully
	1990						NS	
	1991				0	0	21	
	1992				0	0	20	
	1993				0	0	19	
	1994						NS	
	1995						NS	
<b>dichloromethane</b>								
	1989	2.7 J	8.5	52 J	7	0	16	38/1 Point Pully
	1990	1.9	66	130	2	0	16	29/1 Shilshole
	1991	0.47	1.7	6.5	21	0	21	3 Strait of Georgia (N of Patos Island)
	1992	4.4	6.8	9.1	2	0	20	38/2 Point Pully
	1993				0	0	19	
	1994						NS	
	1995						NS	
<b>ethylbenzene</b>								
	1989	0.03	0.05	0.08	13	0	16	5/3 Samish Bay, 29/1 Shilshole
	1990	0.74 J	0.74	0.74 J	1	0	16	38/4 Point Pully
	1991	0.03 N	0.075	0.11 N	4	0	21	3 Strait of Georgia (N of Patos Island)
	1992				0	0	20	
	1993				0	0	19	
	1994						NS	
	1995						NS	

Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median Maximum	Detected	Rejected Total	
VOLATILE ORGANIC ANALYSIS (VOA) COMPOUNDS (continued)						
2-hexanone	1989			0	0	16
	1990	4.4 J	4.4	1	0	16
	1991		4.4 J	0	0	21
	1992			0	0	20
	1993			0	0	19
	1994					NS
	1995					NS
4-methyl-2-pentanone	1989	0.09 J	0.13	4	0	16
	1990		0.46 J	0	0	16
	1991	2 J	4.2	2	0	21
	1992	3.9	3.9	1	0	20
	1993	1.1	2.5	3	0	19
	1994					NS
	1995					NS
styrene	1989	0.04 J	0.07	4	0	16
	1990		0.11	0	0	16
	1991	0.04 J	0.11	8	0	21
	1992		0.23 N	0	0	20
	1993	0.19 J	0.19	1	0	19
	1994					NS
	1995					NS

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
VOLATILE ORGANIC ANALYSIS (VOA) COMPOUNDS (continued)							
tetrachloroethene	1989	0.03	0.05	0.17	14	0	16
	1990	0.11 J	0.11	0.11 J	1	0	16
	1991	0.04 J	0.08	0.11 J	12	0	21
	1992	0.27	0.34	0.4	2	0	20
	1993	0.05 J	0.05	0.05 J	1	0	19
	1994						NS
	1995						NS
toluene	1989	0.1	0.17	0.25	15	0	16
	1990				0	0	16
	1991				0	0	21
	1992				0	0	20
	1993				0	0	19
	1994						NS
	1995						NS
1,1,1-trichloroethane	1989	0.06 J	0.19	6.6	10	0	16
	1990				0	0	16
	1991				0	0	21
	1992				0	0	20
	1993				0	0	19
	1994						NS
	1995						NS
							3 Strait of Georgia (N of Patos Island)
							5/1 Samish Bay
							38/1 Point Pully
							38/4 Point Pully
							34 Sinclair Inlet
							35/3 Dyes Inlet
							26 Central Basin

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
VOLATILE ORGANIC ANALYSIS (VOA) COMPOUNDS (continued)							
trichloroethene	1989	0.01 J	0.01	0.01 J	2	0	16
	1990				0	0	16
	1991				0	0	21
	1992				0	0	20
	1993				0	0	19
	1994						NS
	1995						NS
trichlorofluoromethane	1989						NS
	1990						NS
	1991	0.25 N	0.34	0.43 N	2	0	21
	1992				0	0	20
	1993				0	0	19
	1994						NS
	1995						NS
1,1,2-trichloro-1,2,2-trifluoroethane	1989				0	0	16
	1990				0	0	16
	1991	0.22 N	0.22	0.22 N	1	0	21
	1992	0.81 J	1.1	1.9 J	3	0	20
	1993				0	0	19
	1994						NS
	1995						NS

45 Devil's Head, 26/1 Central Basin

29 Shilshole

8 Port Angeles  
35/3 Dyes Inlet

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
<b>VOLATILE ORGANIC ANALYSIS (VOA) COMPOUNDS (continued)</b>							
total xylenes							
	1989	0.11	0.22	0.32	15	0	16
	1990	5.1 J	5.1	5.1 J	1	0	16
	1991	0.14	0.35	0.57 J	12	0	21
	1992	0.14 J	0.47	0.63	4	0	20
	1993	0.11 J	0.3	0.59	9	0	19
	1994						NS
	1995						NS
							29/1 Shilshole, 38/1 Point Pully
							38/4 Point Pully
							34 Sinclair Inlet
							35/2 Dyes Inlet
							34 Sinclair Inlet, 38/4 Point Pully
<b>POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)</b>							
High Molecular Weight PAHs							
benzo(a)anthracene							
	1989	3 J	16	1300	50	0	65
	1990	4 N	12	1300	51	0	65
	1991	3 J	14	570	58	0	63
	1992	3.5 J	15	460	48	0	63
	1993	3.9 J	18	710	63	0	63
	1994	4.2 J	45	780	25	0	31
	1995	18 J	77	560	24	0	39
							40 City Waterway (Commencement Bay)
							40 City Waterway (Commencement Bay)
							40 City Waterway (Commencement Bay)
							40 City Waterway (Commencement Bay)
							40 City Waterway (Commencement Bay)
							40 City Waterway (Commencement Bay)
							40/4 City Waterway (Commencement Bay)
total benzofluoranthenes (b+k)							
	1989	6 J	38	1900	50	0	65
	1990	8 N	37	1700	51	0	65
	1991	7 J	36	840	55	0	63
	1992	7.4 J	35	630	51	0	63
	1993	7 N	47	2200	59	0	63
	1994	3.8 J	64	820	30	0	31
	1995	32 J	170	950 J	28	0	39
							40 City Waterway (Commencement Bay)
							40 City Waterway (Commencement Bay)
							40 City Waterway (Commencement Bay)
							33 Elliott Bay (SE Duwamish Head)
							33 Elliott Bay (SE Duwamish Head)
							40 City Waterway (Commencement Bay)
							34 Sinclair Inlet

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
High Molecular Weight PAHs (continued)							
benzo(g,h,i)perylene							
	1989	3 J	22	670	27	0	65
	1990	5 N	16	180	23	0	65
	1991	15 N	22	28 J	3	60	63
	1992	7.7 J	20	170 J	31	0	63
	1993	4 J	23	770	55	0	63
	1994	1.8 J	18	320	27	0	31
	1995	9.2 J	61	350	27	0	39
benzo(a)pyrene							
	1989	4 J	24	1400	44	0	65
	1990	3 N	19	1000	47	0	65
	1991	3 J	11	400 J	47	0	63
	1992	5 J	22	490	42	0	63
	1993	3.5 J	23	1400	56	0	63
	1994	1.4 J	24	600	28	0	31
	1995	3.4	51	640	30	0	39
chrysene							
	1989	4 J	25	1500	52	0	65
	1990	4 N	19	1500	53	0	65
	1991	9 J	29	680	47	0	63
	1992	3.5 J	21	550	52	0	63
	1993	4.2 J	28	920	60	0	63
	1994	0.95 J	49	850	29	0	31
	1995	3.9 J	68	680	29	0	39

Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
High Molecular Weight PAHs (continued)								
dibenzo(a,h)anthracene								
	1989	4 J	18	340	12	0	65	40 City Waterway (Commencement Bay)
	1990	3 N	8	160	13	0	65	40 City Waterway (Commencement Bay)
	1991	4 J	12	170	28	0	63	40 City Waterway (Commencement Bay)
	1992	5.2 J	28	79 J	12	0	63	40 City Waterway (Commencement Bay)
	1993	4.7 J	14	350	29	0	63	33 Elliott Bay (SE Duwamish Head)
	1994	2.7 J	7.3	74	17	0	31	40 City Waterway (Commencement Bay)
	1995	9.4 J	53	88	13	0	39	40/4 City Waterway (Commencement Bay)
fluoranthene								
	1989	3 J	32	1700	59	0	65	40 City Waterway (Commencement Bay)
	1990	7 J	24	1700	58	0	65	40 City Waterway (Commencement Bay)
	1991	4 N	35	820	61	0	63	40 City Waterway (Commencement Bay)
	1992	3.3 J	27	610	59	0	63	40 City Waterway (Commencement Bay)
	1993	6.9 J	61	1500	61	0	63	40 City Waterway (Commencement Bay)
	1994	2.2 J	86	1500	31	0	31	40 City Waterway (Commencement Bay)
	1995	6.4 J	98	1100	35	0	39	40/4 City Waterway (Commencement Bay)
indeno(1,2,3-c,d)pyrene								
	1989	5 J	21	830	28	0	65	40 City Waterway (Commencement Bay)
	1990	4 N	16	540	31	0	65	40 City Waterway (Commencement Bay)
	1991	7 N	23	240 J	25	0	63	40 City Waterway (Commencement Bay)
	1992	11	34	280 J	20	0	63	40 City Waterway (Commencement Bay)
	1993	4.2 J	21	890	55	0	63	33 Elliott Bay (SE Duwamish Head)
	1994	3.2 J	18	290	28	0	31	35/3 Dyes Inlet
	1995	8.5 J	50	380	28	0	39	34 Sinclair Inlet



Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration		
		Minimum	Median	Maximum	Detected		Rejected	Total
High Molecular Weight PAHs (continued)								
perylene	1989	4 J	21	360	51	0	65	40 City Waterway (Commencement Bay)
	1990						NS	
	1991	4 N	13	74	43	0	63	40 City Waterway (Commencement Bay)
	1992	5.8 J	16	110	53	0	63	33 Elliott Bay, 40 City Waterway
	1993	5.1 J	31	510	59	0	63	33 Elliott Bay (SE Duwamish Head)
	1994						NS	
1995						NS		
pyrene								
1989	3 J	26	1900	58	0	65	40 City Waterway (Commencement Bay)	
1990	5 J	22	2400	59	0	65	40 City Waterway (Commencement Bay)	
1991	3 J	27	780	61	0	63	40 City Waterway (Commencement Bay)	
1992	3 J	26	1200	57	0	63	40 City Waterway (Commencement Bay)	
1993	3.8 J	47	1400	63	0	63	33 Elliott Bay (SE Duwamish Head)	
1994	1.8 J	67	2100	29	0	31	40 City Waterway (Commencement Bay)	
1995	3.2 J	86	1300	37	0	39	40/4 City Waterway (Commencement Bay)	
Low Molecular Weight PAHs								
acenaphthene								
1989	4 J	8	55 J	7	0	65	40 City Waterway (Commencement Bay)	
1990	3 N	7	230	12	0	65	40 City Waterway (Commencement Bay)	
1991	3 N	7.5	99	10	0	63	40 City Waterway (Commencement Bay)	
1992	3.3 J	4.5	37	7	0	63	40 City Waterway (Commencement Bay)	
1993	4.6 J	6.8	63	19	0	63	40 City Waterway (Commencement Bay)	
1994	0.92 J	5.7	130	17	0	31	30 Eagle Harbor	
1995	17 J	44	69	8	0	39	40/3 City Waterway (Commencement Bay)	

Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
Low Molecular Weight PAHs (continued)								
acenaphthylene	1989	2 J	11	330	9	0	65	40 City Waterway (Commencement Bay)
	1990	6 J	43	290	10	0	65	40 City Waterway (Commencement Bay)
	1991	2 N	5	98	15	0	63	40 City Waterway (Commencement Bay)
	1992	1.9 J	19	59	11	0	63	40 City Waterway (Commencement Bay)
	1993	3.9 J	9.5	170	20	0	63	40 City Waterway (Commencement Bay)
	1994	2.1 J	6.7	130	23	0	31	40 City Waterway (Commencement Bay)
	1995	7.8 J	36	110	13	0	39	40/4 City Waterway (Commencement Bay)
anthracene	1989	2 J	15	1100	28	0	65	40 City Waterway (Commencement Bay)
	1990	3 N	14	1800	31	0	65	40 City Waterway (Commencement Bay)
	1991	2 N	9.5	570	50	0	63	40 City Waterway (Commencement Bay)
	1992	2.2 J	9.5	340	23	0	63	40 City Waterway (Commencement Bay)
	1993	3.3 J	12	510	42	0	63	40 City Waterway (Commencement Bay)
	1994	0.61 J	12	780	28	0	31	40 City Waterway (Commencement Bay)
	1995	4.8 J	32	720	26	0	39	40/1 City Waterway (Commencement Bay)
cymene	1989				0	0	65	
	1990						NS	
	1991	2 J	7	32 J	11	1	63	49 Inner Budd Inlet
	1992	4.5 J	11	24 J	6	0	63	21 Port Gardner (Everett)
	1993	4.1 J	9.3	90	21	0	63	34 Sinclair Inlet
	1994						NS	
	1995						NS	

Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration	
		Minimum	Median	Maximum	Detected	Rejected	Total		
Low Molecular Weight PAHs (continued)									
fluorene	1989	3 J	10	250	13	0	65	40 City Waterway (Commencement Bay)	
	1990	4 N	9.5	450	16	0	65	40 City Waterway (Commencement Bay)	
	1991	2 J	7	190	39	0	63	40 City Waterway (Commencement Bay)	
	1992	1.7 J	10	72	14	0	63	40 City Waterway (Commencement Bay)	
	1993	4.9 J	11	170	27	0	63	40 City Waterway (Commencement Bay)	
	1994	1.8 J	11	190	25	0	31	40 City Waterway (Commencement Bay)	
	1995	20 J	83	150	8	0	39	40/4 City Waterway (Commencement Bay)	
	2-methylnaphthalene								
	1989	3 J	6	45	16	0	65	40 City Waterway (Commencement Bay)	
	1990						NS		
1991	3 J	6	18 J	35	0	63	40 City Waterway (Commencement Bay)		
1992	5.3 J	9.5	25	21	0	63	40 City Waterway (Commencement Bay)		
1993	3.5 J	12	37	29	0	63	40 City Waterway (Commencement Bay)		
1994	1.8 J	21	95	28	0	31	40 City Waterway (Commencement Bay)		
1995	9 J	23	68	23	0	39	40/4 City Waterway (Commencement Bay)		
naphthalene									
1989	2 J	7.5	54	20	0	65	40 City Waterway (Commencement Bay)		
1990	3 N	9	89	22	0	65	40 City Waterway (Commencement Bay)		
1991	2 N	6	51 J	45	1	63	40 City Waterway (Commencement Bay)		
1992	2 J	6.5	53	22	0	63	40 City Waterway (Commencement Bay)		
1993	4.4 J	12	110	36	0	63	40 City Waterway (Commencement Bay)		
1994	1.9 J	15	370	28	0	31	8 Port Angeles		
1995	11 J	32	380	23	0	39	8 Port Angeles		

Appendix D. Continued.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
Low Molecular Weight PAHs (continued)							
phenanthrene	1989	3 J	26	1500	53	0	65
	1990	6 J	17	3400	51	0	65
	1991	3 J	36	800	61	0	63
	1992	3.4 J	22	520	51	0	63
	1993	5.1 J	30	1100	57	0	63
	1994	2.2 J	51	1400	30	0	31
	1995	4.8 J	73	1000	33	0	39
retene	1989	5 J	19	120	44	0	65
	1990						NS
	1991	4 J	21	1000	55	0	63
	1992	3.5 J	20	130	50	0	63
	1993	5.4 J	41	220	61	0	63
	1994						NS
	1995	4.9 J	120	250 J	30	0	39
ACID, BASE, NEUTRAL (ABN) EXTRACTABLES							
Phenols							
2,4-dimethylphenol							
	1989				0	0	65
	1990				0	0	65
	1991				0	0	63
	1992	4.4 J	4.4	4.4 J	1	0	63
	1993	5.6 J	5.6	5.6 J	1	0	63
	1994						NS
	1995						NS



Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
Chlorinated and Nitro-Substituted Phenols (continued)								
4-nitrophenol	1989				0	0	65	
	1990				0	0	65	
	1991				0	0	63	
	1992				0	0	63	
	1993	90	90	90	1	0	63	34 Sinclair Inlet
	1994						NS	
	1995						NS	
pentachlorophenol	1989	10 J	10	10 J	1	0	65	32/2 Magnolia Bluff
	1990				0	0	65	
	1991				0	0	63	
	1992				0	0	63	
	1993	5.5 J	8.1	67	4	0	63	46R West Nisqually (Johnson Pt.)
	1994						NS	
	1995						NS	
Chlorinated Aromatic Hydrocarbons								
2-chloronaphthalene	1989	4 J	4	4 J	1	0	65	44/1 East Anderson Island
	1990				0	0	65	
	1991				0	0	63	
	1992				0	0	63	
	1993				0	0	63	
	1994	4.6 J	4.6	4.6 J	1	0	31	205R NW Blakely Island (W of Obstruction Isl.)
	1995				0	0	39	

Appendix D. Continued.

Compound	Year	Concentration		Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
Chlorinated Aromatic Hydrocarbons (continued)							
1,2-dichlorobenzene (a)							
	1989	4 J	4	4 J	1	0	65
	1990				0	0	65
	1991				0	1	63
	1992				0	0	63
	1993				0	0	63
	1994				0	0	63
	1995						NS
	1995						NS
hexachlorobenzene							
	1989	5 J	5	5 J	1	0	65
	1990				0	0	65
	1991	4 J	4	4 J	1	0	63
	1992				0	0	63
	1993				0	0	63
	1994						NS
	1995						NS
Chlorinated Alkenes							
hexachlorobutadiene							
	1989	3 J	3	3 J	1	0	65
	1990				0	0	65
	1991				0	0	63
	1992				0	0	63
	1993				0	0	63
	1994				0	0	63
	1995						NS
	1995						NS

Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median Maximum	Detected	Rejected Total	
Chlorinated Alkenes (continued)						
hexachlorocyclopentadiene	1989			0	0	65
	1990			0	0	65
	1991			0	63	63
	1992	40 J	40 J	1	62	63
	1993			0	63	63
	1994					NS
	1995					NS
Phthalate Esters						
bis(2-ethylhexyl)phthalate						
	1989	34	59	27	0	65
	1990	46 J	430	15	0	65
	1991	5 J	16	57	0	63
	1992	5.7 J	15	45	0	63
	1993	5.1 J	30	51	0	63
	1994					NS
	1995					NS
butyl benzyl phthalate						
	1989	18 J	31	3	0	65
	1990	3	14	7	0	65
	1991	5 N	14	14	0	63
	1992	2.5 J	19	6	0	63
	1993	4.6 J	15	25	0	63
	1994					NS
	1995					NS



Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
Phthalate Esters (continued)								
di-n-butyl phthalate								
	1989	11 J	16	30	3	0	65	34 Sinclair Inlet
	1990	6 J	6	6	1	0	65	103R Mid Totten Inlet
	1991	7 J	12	30	14	0	63	35/1 Dyes Inlet
	1992	4 J	13	25	7	0	63	34 Sinclair Inlet
	1993	8.2 J	15	41 J	20	1	63	70 Oakland Bay, Shelton
	1994						NS	
	1995						NS	
di-n-octyl phthalate								
	1989				0	0	65	
	1990				0	0	65	
	1991	7 J	7	7 J	1	0	63	11R Discovery Bay
	1992	9.5 J	9.6	9.6 J	2	0	63	35/2 Dyes Inlet
	1993	8.7 J	10	12 J	2	0	63	34 Sinclair Inlet
	1994						NS	
	1995						NS	
diethyl phthalate								
	1989				0	0	65	
	1990	4 J	7	79	7	0	65	113R Willochet Bay
	1991	2 N	5	18	7	0	63	69 Port Madison
	1992				0	0	63	
	1993	4.7 J	5.9	12 J	8	0	63	29 Shilshole
	1994						NS	
	1995						NS	

Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median Maximum	Detected	Rejected Total	
Miscellaneous Extractable Compounds						
dimethyl phthalate	1989			0	0	65
	1990			0	0	65
	1991	6 J	6	1	0	63
	1992		6 J	0	0	63
	1993			0	0	63
	1994					NS
	1995					NS
benzoic acid						
	1989			0	21	65
	1990	29 J	61	3	0	65
	1991	10 N	25	43	1	63
	1992	12 J	33	28	0	63
	1993	1.1 J	39	46	17	63
	1994					NS
	1995					NS
benzyl alcohol						
	1989			0	0	65
	1990			0	0	65
	1991			0	1	63
	1992			0	0	63
	1993	90	90	1	0	63
	1994					NS
	1995					NS

40 City Waterway (Commencement Bay)

4 Bellingham Bay  
35/4 Dyes Inlet  
5/3 Samish Bay  
5/4 Samish Bay

34 Sinclair Inlet

Appendix D. Continued.

Compound	Year	Concentration		Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
Miscellaneous Extractable Compounds (continued)							
beta-coprostanol							
	1989	22	120	4700	54	0	65
	1990	160 J	400	660 J	4	0	65
	1991	39 J	130	800	56	0	63
	1992	26 J	83	680 J	38	0	63
	1993	16 J	140	670 J	52	0	63
	1994						NS
	1995						NS
beta sitosterol							
	1989	47 J	570	4300	62	0	65
	1990						NS
	1991	170	1100	4800	60	0	63
	1992	46 J	420	2500	58	0	63
	1993	150	1000	3700 J	56	0	63
	1994						NS
	1995						NS
4-bromophenyl phenyl ether							
	1989	5	5	5	1	0	65
	1990						NS
	1991				0	0	63
	1992				0	0	63
	1993				0	0	63
	1994						NS
	1995						NS

Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration		
		Minimum	Median	Maximum	Detected		Rejected	Total
Miscellaneous Extractable Compounds (continued)								
caffeine	1989				0	0	65	
	1990						NS	
	1991				0	0	63	
	1992	2.2 J	2.2	2.2 J	1	0	63	32/3 Magnolia Bluff
	1993	9.3 J	9.3	9.3 J	1	0	63	29 Shilshole
	1994						NS	
1995						NS		
9(H)-carbazole	1989	53	110	110	3	0	65	40 City Waterway, 26/4 Central Basin
	1990	47 J	49	51 J	2	0	65	30 Eagle Harbor
	1991	3 N	7.5	34	18	0	63	40 City Waterway (Commencement Bay)
	1992	1.7 J	5.7	41	13	0	63	33 Elliott Bay (SE Duwamish Head)
	1993	4.7 J	11	51	17	0	63	40 City Waterway (Commencement Bay)
	1994	1.8 J	3.5	12 J	9	0	31	33 Elliott Bay (SE Duwamish Head)
	1995	11 J	19	29 J	6	0	39	40/1 City Waterway (Commencement Bay)
	1989	110	860	12000	64	0	65	41 Blair/Sitcum Waterway (Commence. Bay)
	1990						NS	
	1991	250	1000	3900 J	63	0	63	34 Sinclair In., 41 Blair/Sitcum, 11R Discovery Bay
1992	140	770	3200	62	0	63	41 Blair/Sitcum Waterway (Commence. Bay)	
1993	61 N	1800	6600 J	62	0	63	34 Sinclair Inlet	
1994						NS		
1995						NS		
cholesterol	1989	110	860	12000	64	0	65	41 Blair/Sitcum Waterway (Commence. Bay)
1990						NS		
1991	250	1000	3900 J	63	0	63	34 Sinclair In., 41 Blair/Sitcum, 11R Discovery Bay	
1992	140	770	3200	62	0	63	41 Blair/Sitcum Waterway (Commence. Bay)	
1993	61 N	1800	6600 J	62	0	63	34 Sinclair Inlet	
1994						NS		
1995						NS		

Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration		
		Minimum	Median Maximum	Detected	Rejected Total			
Miscellaneous Extractable Compounds (continued)								
4-chlorophenyl phenyl ether								
	1989	5 J	5	5 J	1	0	65	44/1 East Anderson Island
	1990						NS	
	1991				0	0	63	
	1992				0	0	63	
	1993				0	0	63	
	1994						NS	
	1995						NS	
dibenzofuran								
	1989	5 J	11	32	8	0	65	40 City Waterway (Commencement Bay)
	1990	3 N	13	48	6	0	65	40 City Waterway (Commencement Bay)
	1991	3 J	6	39	23	0	63	40 City Waterway (Commencement Bay)
	1992	3.7 J	6	32	8	0	63	33 Elliott Bay (SE Duwamish Head)
	1993	4.9 J	8.8	38	26	0	63	40 City Waterway (Commencement Bay)
	1994	1.8 J	8.5	85	28	0	31	30 Eagle Harbor
	1995	7.3 J	40	66 J	10	0	39	30 Eagle Harbor
	1994						NS	
	1995						NS	
3,3-dichlorobenzidine								
	1989				0	62	65	
	1990						NS	
	1991				0	63	63	
	1992				0	0	63	
	1993	90	90	90	1	62	63	34 Sinclair Inlet
	1994						NS	
	1995						NS	

Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
Miscellaneous Extractable Compounds (continued)								
isophorone	1989	69	69	69	1	0	65	8 Port Angeles
	1990	13 J	13	13 J	1	0	65	8 Port Angeles
	1991				0	1	63	
	1992				0	0	63	
	1993				0	0	63	
	1994				0	0	63	
1995						NS		
1995						NS		
2-nitroaniline								
1989					0	0	65	
1990							NS	
1991					0	0	63	
1992					0	0	63	
1993	90	90	90	1	0	63	34 Sinclair Inlet	
1994						NS		
1995						NS		
3-nitroaniline								
1989					0	0	65	
1990							NS	
1991					0	0	63	
1992					0	0	63	
1993	90	90	90	1	0	63	34 Sinclair Inlet	
1994						NS		
1995						NS		

Appendix D. Continued.

Compound	Year	Concentration		Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
Miscellaneous Extractable Compounds (continued)							
4-nitroaniline							
	1989				0	0	65
	1990						NS
	1991				0	0	63
	1992				0	0	63
	1993	90	90	90	1	0	63
	1994						NS
	1995						NS
Resin Acids and Guaiacols							
abietic acid							
	1989	180 J	180	180 J	2	0	3
	1990	200 J	420	630	2	0	3
	1991	21 N	83	350	6	0	7
	1992	43 J	54	460	7	0	7
	1993	230 J	250	270 J	2	0	7
	1994						NS
	1995						NS
chlorodehydroabietic acid							
	1989	90 J	100	210 J	3	0	3
	1990				0	0	3
	1991						NS
	1992						NS
	1993						NS
	1994						NS
	1995						NS

Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
Resin Acids and Guaiacols (continued)								
12-chlorodehydroabietic acid								
	1989							NS
	1990							NS
	1991				0	0		7
	1992	23 J	48	56	7	0		7
	1993	59 N	59	59 N	1	0		7
	1994							NS
	1995							NS
14-chlorodehydroabietic acid								
	1989							NS
	1990							NS
	1991	25 N	25	25 N	1	0		7
	1992	7.5 J	15	20 J	7	0		7
	1993				0	0		7
	1994							NS
	1995							NS
dehydroabietic acid								
	1989	190 J	520	550 J	3	0		3
	1990	390	560	730	2	0		3
	1991	33 J	92	420	7	0		7
	1992	58	73	460	7	0		7
	1993	140 J	160	690	7	0		7
	1994							NS
	1995							NS



Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
Resin Acids and Guaiacols (continued)								
dichloro	1989	150 J	150	150 J	1	0	3	4 Bellingham Bay
hydroabietic acid	1990				0	0	3	
	1991				0	0	7	
	1992	11 J	21	32	7	0	7	4/2 Bellingham Bay
	1993				0	0	7	
	1994						NS	
	1995						NS	
isopimaric acid								
	1989	160 J	190	210 J	2	0	3	8 Port Angeles
	1990	120	270	410	2	0	3	8 Port Angeles
	1991	38	120	170	4	0	7	41 Blair/Sitcum Waterway (Commence. Bay)
	1992	28 J	56	220	5	0	7	8 Port Angeles
	1993	110 N	250	390	2	0	7	41 Blair/Sitcum Waterway (Commence. Bay)
	1994						NS	
	1995						NS	
2-methoxyphenol								
	1989				0	0	3	
	1990				0	0	3	
	1991	3 J	3	3 J	1	0	7	41 Blair/Sitcum Waterway (Commence. Bay)
	1992	7.8 J	7.8	7.8 J	1	0	7	41 Blair/Sitcum Waterway (Commence. Bay)
	1993	1.6 J	3.8	6 J	2	0	7	8 Port Angeles
	1994						NS	
	1995						NS	

Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
Resin Acids and Guaiacols (continued)								
neobietic acid								
	1989	82	82	82	1	0	3	8 Port Angeles
	1990	150	150	150	1	0	3	8 Port Angeles
	1991				0	0	7	
	1992				0	0	7	
	1993				0	0	7	
	1994						NS	
	1995						NS	
palustric acid								
	1989	120 J	120	120 J	1	0	3	8 Port Angeles
	1990	130 J	130	130 J	1	0	3	8 Port Angeles
	1991				0	7	7	
	1992				0	0	7	
	1993				0	0	7	
	1994						NS	
	1995						NS	
pimaric acid								
	1989	25 J	25	25 J	1	0	3	8 Port Angeles
	1990				0	0	3	
	1991	18 J	20	45	3	0	7	8 Port Angeles
	1992	120	120	120	1	0	7	8 Port Angeles
	1993				0	0	7	
	1994						NS	
	1995						NS	

Appendix D. Continued.

Compound	Year	Concentration		Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
Resin Acids and Guaiacols (continued)							
sandacopimaric acid							
	1989	49 J	49	49 J	1	0	3
	1990	87	87	87	1	0	3
	1991	57 N	94	130 N	2	0	7
	1992	70	130	340	3	0	7
	1993	170 J	170	170 J	1	0	7
	1994						NS
	1995						NS
CHLORINATED PESTICIDES							
alpha chlordane							
	1989	0.9	0.9	0.9	1	0	65
	1990				0	0	65
	1991				0	0	63
	1992				0	0	63
	1993				0	0	63
	1994				0	0	13
	1995				0	0	12
beta-HCH							
	1989				0	0	65
	1990				0	0	65
	1991				0	0	63
	1992				0	0	63
	1993	0.54 J	0.54	0.54 J	1	0	63
	1994				0	0	13
	1995				0	0	12
							4 Bellingham Bay
							33 Elliott Bay (SE Duwamish Head)

Appendix D. Continued.

Compound	Year	Concentration		Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median Maximum	Detected	Rejected Total	
<b>CHLORINATED PESTICIDES (continued)</b>						
endrin	1989			0	0	65
	1990			0	0	65
	1991			0	0	63
	1992			0	0	63
	1993	0.76 J	0.76 J	1	0	63
	1994			0	0	13
	1995			0	0	12
endrin aldehyde	1989					NS
	1990			0	0	65
	1991					NS
	1992			0	0	3
	1993	2.7 J	4.5	6	0	63
	1994			0	0	13
	1995			0	12	12
p,p'-DDD	1989	2.6 J	2.6	1	0	65
	1990			0	0	65
	1991	0.6 J	0.6	1	0	63
	1992	1.4 J	1.4	1	0	63
	1993	1.6 N	2	2	0	63
	1994			0	0	13
	1995			0	0	12

40 City Waterway (Commencement Bay)

34 Sinclair Inlet

33 Elliott Bay (SE Duwamish Head)

201R Strait of Georgia (Roberts Bank)

33 Elliott Bay (SE Duwamish Head)

35/1 Dyes Inlet

Appendix D. Continued.

Compound	Year	Concentration			Number of samples			Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	Total	
<b>CHLORINATED PESTICIDES (continued)</b>								
p,p'-DDE								
	1989				0	0	65	
	1990	22	22	22	1	0	65	33 Elliott Bay (SE Duwamish Head)
	1991	3.7	3.7	3.7	1	0	63	5/3 Samish Bay
	1992				0	0	63	
	1993	1.2 J	1.2	1.2 J	1	0	63	49 Inner Budd Inlet
	1994				0	0	13	
	1995				0	0	12	
p,p'-DDT								
	1989				0	1	65	
	1990				0	0	65	
	1991	0.3 N	0.7	1 N	9	0	63	29 Shilshole, 71 Fidalgo Bay
	1992				0	0	63	
	1993				0	0	63	
	1994				0	0	13	
	1995				0	0	12	
<b>POLYCYCLIC CHLORINATED BIPHENYLS</b>								
atrochlor 1254								
	1989	4 J	16	49	18	0	65	34 Sinclair Inlet
	1990	6.3 J	17	28 J	2	0	65	33 Elliott Bay (SE Duwamish Head)
	1991	3.6 J	8.6	47 J	22	0	63	35/3 Dyes Inlet
	1992	5.7 J	18	40 J	10	0	63	40 City Waterway (Commencement Bay)
	1993	9 J	15	23	9	0	63	34 Sinclair Inlet
	1994	13 J	34	55 NJ	2	0	13	34 Sinclair Inlet
	1995	10 J	23	79 J	3	0	12	34 Sinclair Inlet

Appendix D. Concluded.

Compound	Year	Concentration			Number of samples		Station # and Location of Maximum Concentration
		Minimum	Median	Maximum	Detected	Rejected	
Polycyclic Chlorinated Biphenyls (continued)							
arochlor 1260	1989				0	0	65
	1990				0	0	65
	1991	4.5 J	13	30	6	0	63
	1992	6.1 J	14	22 J	2	0	63
	1993	9.2	15	26	6	0	63
	1994	14 J	14	14 J	1	0	13
	1995	4.7 NJ	13	220	11	0	12

(a) Compounds analyzed both as VOA (1991-1993) and as ABN (1989-1993).