

**Table 1: Atlantic Cruise Summary**

WOCE Section	No	EXPCODE	Ship	Date	Sta	DIC <sup>a</sup>	TA	CFC	<sup>14</sup> C
<b>WOCE</b>									
A01E	1	06MT18_1	Meteor	9/2 - 9/26/91	57 <sup>b</sup>	30 <sup>c</sup>	0 <sup>d</sup>	0	13
A1EW	2	06MT30_3	Meteor	11/15 - 12/19/94	61 <sup>b</sup>	0	0	51	0
A01W	3	18HU95011_1	Hudson	6/7 - 7/5/95	61 <sup>b</sup>	51	0 <sup>d</sup>	55	0
AR07	4	18HU98023_1	Hudson	6/22 - 7/9/98	40 <sup>e</sup>	23	23	22	0
A02	5	06MT30_2	Meteor	10/12 - 11/12/94	52 <sup>b</sup>	0	0	44	10
A02	6	06MT39_3	Meteor	6/11 - 7/3/97	65 <sup>b</sup>	34	33	53	0
A03	7	90CT40_1	Multanovskiy	9/11 - 11/21/93	124 <sup>b</sup>	0	0	0	0
A05 <sup>f</sup>	8	31RBOACES24N_2	Brown	1/24 - 2/23/98	130 <sup>g</sup>	126	122	76	0
A05	9	29HE06_1-3	Hesperides	7/14 - 8/15/92	111 <sup>b</sup>	33 <sup>h</sup>	33 <sup>h</sup>	65	8 <sup>i</sup>
A06	10	35A3CITHER1_2	L'Atalante	2/13 - 3/19/93	84 <sup>b</sup>	0 <sup>j</sup>	0 <sup>d</sup>	52	0
A07	11	35A3CITHER1_1	L'Atalante	1/2 - 2/10/93	119 <sup>b</sup>	0 <sup>j</sup>	0 <sup>d</sup>	87	0
A08	12	06MT28_1	Meteor	3/29 - 5/11/94	126 <sup>b</sup>	50 <sup>k</sup>	50 <sup>k</sup>	70	0
A09	13	06MT15_3	Meteor	2/10 - 3/23/91	111 <sup>b</sup>	30 <sup>l</sup>	7 <sup>l</sup>	70	4
A10	14	06MT22_5	Meteor	12/27/92 - 1/31/93	112 <sup>b</sup>	55 <sup>m</sup>	25 <sup>m</sup>	76	5
A11	15	74DI199_1	Discovery	12/22/92 - 2/1/93	91 <sup>b</sup>	0	0	44	0
A21/A12	16	06MT11_5	Meteor	1/23 - 3/8/90	78 <sup>b</sup>	77 <sup>n</sup>	77 <sup>n</sup>	66	18
A12	17	06AQANTX_4	Polarstern	5/21 - 8/5/92	98 <sup>b</sup>	53	0	81	0
S4A(A12)	18	06AQANTXIII_4	Polarstern	3/17 - 5/20/96	100 <sup>o</sup>	90	0	92	0
A13	19	35A3CITHER3_2	L'Atalante	2/22- 4/2/95	135 <sup>b</sup>	49	46	134	0
A14	20	35A3CITHER3_1	L'Atalante	1/11 - 2/11/95	107 <sup>b</sup>	53 <sup>p</sup>	102	102	0
A15	21	316N142_3	Knorr	4/3 - 5/21/94	148 <sup>b</sup>	93	93	81	0
A16S <sup>a</sup>	22	OACES91_1-2	Baldrige	7/11 - 9/2/91	33	33	32	0	0
A16N <sup>a</sup>	23	OACES93	Baldrige	7/4 - 8/29/93	83	81	79	80	0
A17	24	3230CITHER2_1-2	Ewing	1/4 - 3/21/94	234 <sup>b</sup>	145	90	226	0
A20	25	316N151_3	Knorr	7/17 - 8/10/97	90 <sup>b</sup>	79 <sup>q</sup>	90 <sup>q</sup>	83	13 <sup>r</sup>
A22	26	316N151_4	Knorr	8/15 - 9/3/97	77 <sup>b</sup>	51 <sup>q</sup>	59 <sup>q</sup>	75	11 <sup>r</sup>
A23	27	74JC10_1	Ross	3/20 - 5/6/95	127 <sup>b</sup>	0	0	99	0
A24	28	316N151_2	Knorr	5/30-7/5/97	153 <sup>b</sup>	143 <sup>q</sup>	144 <sup>q</sup>	131	0

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WOCE Section	No	EXPCODE	Ship	Date	Sta	DIC <sup>a</sup>	TA	CFC	<sup>14</sup> C
A25	29	74DI230_1	Discovery	8/7 - 9/17/97	142 <sup>b</sup>	0	0	119	0
AR24	30	316N147_2	Knorr	11/2 - 12/3/96	188 <sup>e</sup>	54 <sup>q</sup>	55 <sup>q</sup>	0	0
SR02a	31	06AQANTVIII_2	Polarstern	9/6/89 - 10/30/89	86 <sup>e</sup>	0	0	0 <sup>s</sup>	0 <sup>s</sup>
SR04	32	06AQANTX_7	Polarstern	12/3/92 - 1/22/93	78 <sup>e</sup>	65	0	0	0
I6S <sup>t</sup>	33	35MFCIVA_1	Dufresne	1/23 - 3/9/93	52 <sup>u</sup>	52	52	52	8 <sup>v</sup>
I6Sb <sup>t</sup> <sub>a</sub>	34	35MF103_1	Dufresne	2/20 - 3/22/1996	55 <sup>u</sup>	55	55	54	0
<b>HISTORICAL</b>									
A12/A13	35	316N83_a,c	Knorr	10/7/83 - 2/19/84	137 <sup>w</sup>	105 <sup>x</sup>	103 <sup>x</sup>	132 <sup>y</sup>	0
ANTV-2,3	36	06AQANTV-2,3	Polarstern	6/27-12/14/86	164 <sup>z</sup>	58 <sup>z</sup>	58 <sup>z</sup>	29 <sup>z</sup>	20 <sup>z</sup>
ARC	37	316N83_b	Knorr	11/13 - 12/10/83	84 <sup>aa</sup>	0	0	0	0
A3	38	31AN109_1	Atlantis II	6/12 - 7/8/81	101 <sup>ab</sup>	0	0	0	0
Marathon7	39	31WT847	Washington	10/1 - 10/22/84	64 <sup>ac</sup>	0	0	63	0
A20	40	32OC133	Oceanus	5/1 - 5/17/83	94 <sup>ab</sup>	0	0	0	0
A16N <sup>ad</sup>	41	32OC202_1-2	Oceanus	7/23 -9/17/88	129 <sup>b</sup>	0	0	78	0
WEPOLEX	42		Somov	10/9/81 - 11/25/81	24 <sup>ae</sup>	0	24 <sup>ae</sup>	0	0
GEOSECS	43	GEOSECS_1-9	Knorr	7/18/72 - 4/1/73	114 <sup>af</sup>	58 <sup>ag</sup>	58 <sup>ag</sup>	0	41 <sup>a</sup> g
A16N	44	06MT56_5	Meteor	3/28 - 4/23/81	29 <sup>ah</sup>	0	0	0	10
TTO-NAS	45	TTONAS_1-7	Knorr	4/1 - 10/19/81	247 <sup>ai</sup>	164 <sup>aj</sup>	164 <sup>aj</sup>	0	62 <sup>ak</sup>
TTO-TAS	46	TTOTAS_1-3	Knorr	12/1/82 - 2/18/83	110 <sup>al</sup>	102 <sup>aj</sup>	102 <sup>aj</sup>	0 <sup>am</sup>	39 <sup>a</sup> k
WBEX	47	316N???	Knorr	4/24 - 5/18/86	51 <sup>an</sup>	0	0	51 <sup>ao</sup>	0
SAVE	48	318MSAVE_1-5 318MHYDROS4	Knorr (1-3) Melville (4-6)	11/23/87 - 3/8/89 3/13 - 4/19/89	370 <sup>ap</sup>	360 <sup>ap</sup>	299 <sup>ap</sup>	348	77 <sup>aq</sup>

- a. Calibration details for carbon measurements see Wanninkhof, *et al.*, 2003
- b. Cruise report available *via*: [http://whpo.ucsd.edu/data/tables/onetime/1tim\\_atl.htm](http://whpo.ucsd.edu/data/tables/onetime/1tim_atl.htm); These cruise reports include the final data reports written specifically for CFCs, carbon measurements and both large volume and small volume radiocarbon measurements.
- c. See Johnson *et al.*, 1996.
- d. Alkalinity measurements from this cruise deleted from merged data set.
- e. Cruise report available *via*: <http://whpo.ucsd.edu/repeat.htm>
- f. Not listed by WHP as a WOCE cruise
- g. See Peltola *et al.*, 1998.
- h. See Millero, *et al.*, 2000.
- i. See Severinghaus *et al.*, 1996.
- j. DIC measurements from this cruise deleted from merged data set
- k. See Johnson *et al.*, 2002b.

- l. See Johnson *et al.*, 1995.
- m. See Johnson *et al.*, 1998.
- n. See Chipman *et al.*, 1994.
- o. Cruise report available *via*: [http://whpo.ucsd.edu/data/tables/onetime/1tim\\_sou.htm](http://whpo.ucsd.edu/data/tables/onetime/1tim_sou.htm); These cruise reports include the final data reports written specifically for CFCs, carbon measurements and both large volume and small volume radiocarbon measurements.
- p. See Rios *et al.*, 2003 for independent estimates of anthropogenic CO<sub>2</sub> for this section.
- q. See Johnson *et al.*, 2003.
- r. See Elder, 2002.
- s. WHP indicates that samples collected
- t. Indian Ocean cruise additionally listed here to provide data closure at the southeastern boundary
- u. Cruise report available *via*: [http://whpo.ucsd.edu/data/tables/onetime/1tim\\_ind.htm](http://whpo.ucsd.edu/data/tables/onetime/1tim_ind.htm); These cruise reports include the final data reports written specifically for CFCs, carbon measurements and both large volume and small volume radiocarbon measurements.
- v. See Leboucher *et al.*, 1999.
- w. See ODF, 1985.
- x. See Chipman *et al.*, 1986.
- y. See Weiss *et al.*, 1990.
- z. Hydrographic data received from Bruce Huber, LDEO; nutrient data received from L. Gordon, Oregon State Univ.; T. Takahashi carbon data received from S. Sutherland, LDEO; calculated alkalinity values from R. Wanninkhof, NOAA/AOML; P. Schlosser isotope data and R. Weiss CFC data received from B. Kromer.
- aa. ARC Agulhas Retroflexion Cruise; data received from B. Huber and B. Haines, LDEO.
- ab. Data received from L. Talley, SIO.
- ac. Data received from B. Huber and B. Haine, LDEO.
- ad. Listed by WHP as official occupation of the A16N line. See ODF., 1991.
- ae. See Chen, 1987.
- af. See Bainbridge, 1981.
- ag. See Östlund *et al.*, 1987.
- ah. Data received from B. Kromer.
- ai. See ODF, 1986a
- aj. See Brewer *et al.*, 1986
- ak. See Östlund and Grall, 1987.
- al. See ODF, 1986b.
- am. Data not yet obtained; see Weiss, *et al.*, 1991
- an. See Key *et al.*, 1990. This report only includes results from large volume casts, but Rosette samples are also in the data file.
- ao. Data received from W. Smethie.
- ap. See ODF, 1992a,b,c.
- aq. See Östlund and Grall, 1992.

**Table 2: Atlantic Cruise Personnel Summary**

WOCE Section	No	EXPOCODE	Chief Scientist	P.I. Carbon	P.I. CFC	P.I. <sup>14</sup> C
WOCE						
A01E	1	06MT18_1	J. Meincke	L. Mintrop D. Wallace	W. Roether	R. Bayer
A1EW	2	06MT30_3	J. Meincke	L. Mintrop D. Wallace	A. Putzka W. Roether	R. Bayer
A01W	3	18HU95011_1	J. Lazier	P. Jones	R. Gershay	NA

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WOCE Section	No	EXPOCODE	Chief Scientist	P.I. Carbon	P.I. CFC	P.I. <sup>14</sup> C
AR07	4	18HU98023_1	P. Jones	P. Jones	J. Lazier R. Gershey	NA
A02	5	06MT30_2	P. Kolterman	NA	W. Roether	R. Bayer
A02	6	06MT39_3	P. Kolterman	D. Wallace	Unknown	NA
A03	7	90CT40_1	V. Tereschenkova	NA	NA	NA
A05 <sup>a</sup>	8	31RBOACES24N_2	K. Lee ?. Bitterman	R. Feely F. Millero	J. Bullister	NA
A05	9	29HE06_1-3	G. Parrilla	F. Millero Rios	W. Smethie	W. Broecker
A06	10	35A3CITHER1_2	C. Colin	C. Oudot <sup>c</sup>	C. Andrie	NA
A07	11	35A3CITHER1_1	A. Moliere	C. Oudot <sup>c</sup>	C. Andrie	NA
A08	12	06MT28_1	T. Mueller	D. Wallace	A. Putzka	NA
A09	13	06MT15_3	G. Siedler	C. Goyet D. Wallace	D. Wallace	Unknown
A10	14	06MT22_5	T. Mueller	L. Mintrop D. Wallace	W. Roether	Unknown
A11	15	74DI199_1	P. Saunders	NA	Smythe-Wright	NA
A21/A12	16	06MT11_5	W. Roether	T. Takahashi	W. Roether	P. Schlosser
A12	17	06AQANTX_4	P. Lemke	M. Hoppema	W. Roether	NA
S4A(A12)	18	06AQANTXIII_4	E. Fahrback	M. Hoppema	A. Watson	NA
A13	19	35A3CITHER3_2	M. Arhan	L. Bingler A. Gonzales	L. Mémery	NA
A14	20	35A3CITHER3_1	H. Mercier	L. Bingler A. Rios	L. Mémery	NA
A15	21	316N142_3	W. Smethie	C. Goyet	W. Smethie	NA
A16S <sup>a</sup>	22	OACES91_1-2	D. Atwood	F. Millero R. Wanninkhof	NA	P. Quay <sup>b</sup>
A16N <sup>a</sup>	23	OACES93	R. Wanninkhof	R. Feely F. Millero	J. Bullister	NA
A17	24	3230CITHER2_1-2	L. Mémery	D. Wallace A. Rios	D. Wallace	NA
A20	25	316N151_3	R. Pickart	F. Millero C. Sabine D. Wallace	W. Smethie	R. Key
A22	26	316N151_4	T. Joyce	F. Millero C. Sabine D. Wallace	W. Smethie	R. Key
A23	27	74JC10_1	K. Heywood B. King	J. Robertson <sup>c</sup>	A. Watson	NA
A24	28	316N151_2	L. Talley	F. Millero D. Wallace	R. Weiss	NA

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WOCE Section	No	EXPOCODE	Chief Scientist	P.I. Carbon	P.I. CFC	P.I. <sup>14</sup> C
A25	29	74DI230_1	S. Bacon	M. Rodriguez <sup>d</sup>	Smythe-Wright	NA
AR24	30	316N147_2	M. McCartney	F. Millero D. Wallace C. Winn	NA	NA
SR02a	31	06AQANTVIII_2	E. Fahrbach	NA	NA <sup>e</sup>	NA <sup>e</sup>
SR04	32	06AQANTX_7	E. Fahrbach	Unknown	NA	NA
I6S <sup>f</sup>	33	35MFCIVA_1	A. Poisson	A. Poisson	A. Poisson	M. Arnold
I6Sb <sup>f</sup>	34	35MF103_1	A. Poisson	A. Poisson	A. Poisson	NA
Historical						
A12/A13	35	316N83_a,c	J. Reid W. Nowlin	T. Takahashi	R. Weiss	NA
ANT V-2,3	36	06AQANTV-2,3	E. Augstein G. Hempel A. Gordon	T. Takahashi	R. Weiss	P. Schlosser
ARC	37	316N83_b		NA	NA	NA
A3	38	31AN109_1		NA	NA	NA
Marathon7	39	31WT847	A. Gordon	NA	W. Smethie	NA
A20	40	32OC133		NA	NA	NA
A16N <sup>g</sup>	41	32OC202_1,2		NA	J. Bullister	NA
WEPOLEX	42			C. Chen	NA	NA
GEOSECS	43	GEOSECS_1-9	D. Spencer D. Spencer W. Broecker H. Craig W. Broecker K. Park H. Craig J. Reid T. Takahashi	PACODF	NA	G. Östlund M. Stuiver
A16N	44	06MT56_5	W. Roether		NA	W. Roether
TTO-NAS	45	TTONAS_1-7	P. Brewer J. Sarmiento L. Armi W. Broecker T. Takahashi W. Jenkins P. Brewer	P. Brewer & T. Takahashi	NA	G. Östlund
TTO-TAS	46	TTOTAS_1-3	J. Sarmiento C. Rooth T. Takahashi	T. Takahashi	R. Weiss	G. Östlund
WBEX	47	316N???	W. Jenkins	NA	W. Smethie	

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WOCE Section	No	EXPOCODE	Chief Scientist	P.I. Carbon	P.I. CFC	P.I. <sup>14</sup> C
SAVE	48	318MSAVE_1-5  318MHYDROS4 <sup>h</sup>	T. Takahashi W. Smethie W. Jenkins R. Key W. Smethie M. McCartney	T. Takahashi	R. Weiss W. Smethie	G. Östlund

- a. Not listed by WHP as a WOCE cruise
- b. Sample analysis not yet complete
- c. Results deleted from data set
- d. No data available, but see Álvarez *et al.*, 2003
- e. WHP records indicate samples collected, but not yet reported
- f. Included with the Atlantic to provide closure between Atlantic and Indian Ocean
- g. Listed by WHP as official occupation of this line
- h. Hydros 4 was officially an independent cruise, however it is frequently merged with the SAVE cruises, as is done here

Table 3. Atlantic Ocean Correction Factors

Cruise	EXPOCODE	Station Range	Salt <sup>a</sup>	O <sub>2</sub>	NO <sub>3</sub>	PO <sub>4</sub>	SiO <sub>2</sub>	DIC <sup>b</sup>	TA <sup>b</sup>
WOCE <sup>c</sup>									
A01E	06MT18_1	all	-1.7	0.029	0.21	0.054	1.4	0	NA
A1EW	06MT30_3	all	-1.5	0.004	0.79	0.061	-0.7	0	0
A01W	18HU95011_1	all	0	0	0	0	0	0	NA
AR07	18HU98023_1	all	0	0	0	0	0	0	0
A02	06MT30_2	all	0.6	0.071	-0.07	0.04	-1.8	0	0
A02	06MT39_3	all	-2.5	0.023	0.89	0.015	1.5	0	0
A03	90CT40_1	all	-0.1	0.15	-0.1	-0.021	3.5	0	0
A05	31RBOACES24N_2	all						0	0
A05	29HE06_1-3	all	0.3	-0.007	.34	0.03	1.9	0	0
A06	35A3CITHER1_2	all	2.1	0.01	-0.84	-0.072	0.6	NA	NA
A07	35A3CITHER1_1	all	2.4	0.045	-0.31	-0.056	1	NA	NA
A08	06MT28_1	all	1.7	-0.156	-1.01	0	-4.2	0	0
A09	06MT15_3	all	0.6	-0.154	-0.7	-0.085	-3.2	0	-7
A10	06MT22_5	all	0.4	0.182	0.92	0.056	-1.5	0	0
A11	74DI199_1	all	0.6	-0.063	0.12	-0.115	-4.9	0	0
A21/A12	06MT11_5	all	1.1	0.03	0.04	-0.006	4.9	0	0
A12	06AQANTX_4	all	-1.5	-0.047	-0.02	-0.019	1.0	0	0
S4A(A12)	06AQANTXIII_4	all	0.9	-0.144	-0.03	0.025	-3.2	0	0
A13	35A3CITHER3_2	all	2.8	0.003	-1.3	-0.153	-3.0	0	0
A14	35A3CITHER3_1	all	2.3	0.016	-0.19	-0.033	-1.9	0	0
A15	316N142_3	all	0.3	-0.001	-0.3	-0.023	-1.5	0	0
A16S	OACES91_1-2	all						0	0

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Cruise	EXPOCODE	Station Range		Salt <sup>a</sup>	O <sub>2</sub>	NO <sub>3</sub>	PO <sub>4</sub>	SiO <sub>2</sub>	DIC <sup>b</sup>	TA <sup>b</sup>
A16N	OACES93	1	31	1.5	0 <sup>d</sup>	0	-0.038	-2.6	0	0
		32	83	2.8	-0.116 <sup>d</sup>	0	-0.032	0.4	0	0
A17	3230CITHER2_1-2	all		1.8	0.001	0.06	-0.024	1.6	0	0
A20	316N151_3	all		-0.7	-0.006	0.08	0.042	0.8	0	0
A22	316N151_4	all		-0.1	-0.041	0.37	0.058	0	0	0
A23	74JC10_1	all		1.8	-0.117	-0.8	-0.096	-2.4	NA	0
A24	316N151_2	all		-2.4	0.011	0.29	0.037	-0.6	0	0
A25	74DI230_1	all		-2.0	0.156	0.58	0.115	1.0	0	0
AR24	316N147_2	all		0	0	0	0	0	0	0
SR02a	06AQANTVIII_2	all		0	-0.065	-0.4	0	-6.8	0	0
SR04	06AQANTX_7	all		0	0	0	0	0	0	0
I6S	35MFCIVA_1	all		See Indian						
I6Sb	35MF103_1	all		See Indian						
Historical <sup>c</sup>										
A12/A13	316N83_a,c	all								
ANTV-2,3	06AQANTV-2,3	all								
ARC	316N83_b	all		0.6	0	0	0	0		
A3	31AN109_1	all		2.0	.024	0	0.055	2.0		
Marathon7	31WT847	all								
A20	32OC133	all		3.2	0.013	0	0	0		
A16N	32OC202_1-2	all		-1.8	0.039	-0.17	-0.069	-0.3		
WEPOLEX										
GEOSECS	GEOSECS_1-9	1	35	0	0	0	0	0		
		36	49	0.5	0	0	0	0		
		50	61	0	0	0	0	0		
		62	75	-4.9	0.015	0	0	0		
		76	94	0	0	0	0	0		
		100	113	-0.7	0	0	0	0		
A16N	06MT56_5	all		6.2	0.037	0	0	3.8		
TTONAS	TTONAS_1-7	1	14	2.0	0.076	1.1	0.089	1.5		
		15	41	-0.1	0.02	0.62	0.089	1.7		
		42	109	0	0.091	0	0	0		
		110	140	0.2	0.056	0.93	0.045	1.9		
		141	171	0	0	0	0	0		
		172	219	0	0	0	0	0		
		220	250	1.1	0.034	0.75	0.059	1.4		
TTO-TAS	TTOTAS_1-3	1	54	0	0.031	0.21	0.029	2.3		
		55	94	0.8	0.031	0.68	0.077	3.1		
		95	132	1.2	0.05	0	0	5.7		
WBEX	316N???	all		4.2	0.73	0.77	0.061	0.6		

Table 3. Atlantic Ocean Correction Factors

Cruise	EXPOCODE	Station Range		Salt <sup>a</sup>	O <sub>2</sub>	NO <sub>3</sub>	PO <sub>4</sub>	SiO <sub>2</sub>	DIC <sup>b</sup>	TA <sup>b</sup>
SAVE	318MSAVE_1-5	1	43	0.8	-0.157	-0.66	-0.059	-0.5		
	318MHYDROS4	44	105	0.9	0.023	-0.21	-0.026	-1.6		
		106	170	0.4	0.032	-0.39	-0.027	-1.8		
		171	235	-1.7	0.02	-0.31	-0.001	-0.3		
		236	308	-0.3	0.016	-0.09	-0.039	0.4		
		309	379	-0.5	0.019	-0.28	-0.029	0.3		

- a. Salinity corrections are in parts per million, *i.e.* divide factor by 1000 prior to addition
- b. A factor of “NA” indicates that the measurements were not retained in the database. Generally due to unusual scatter or excessive calibration offset determined by Wanninkhof *et al.* (2003).
- c. Salinity, oxygen, nitrate, phosphate and silicate factors are from Gouretski and Jancke (2001) and are additive. The factors were copied directly and have the sign convention a negative factor indicates that the measurements were low by the listed amount. Their oxygen factors were/are listed in ml/l and were multiplied by 43.55 to convert to umol/kg prior to application. Carbon factors are from Wanninkhof *et al.* (2003).
- d. Castle *et al.* 1998, suggested that the oxygen values for this cruise were low by 7.5 umol/kg (~0.17ml/l). Here we chose to use the Gouretski and Jancke (2001) correction. .
- e. Salinity, oxygen, nitrate, phosphate and silicate factors are from Gouretski and Jancke (2001) and are additive. Their oxygen factors were/are listed in ml/l and were multiplied by 43.55 to convert to umol/kg prior to application.