

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
1	05/08/1987 to 04/09/1987	SA Agulhas	Benthic survey	V50	South Africa	D. Gianakouras
2	??/??/1988 to ??/??/1988		FRONTAL	PREPOT	France	J.M. Brylinski
3	??/??/1988 to ??/??/1988	Pluteus II	FRONTAL	AZOMIX	France	P. Morin
4	20/10/1988 to 21/10/1988	R/V Weatherbird I	BATS	BATS 1	Bermuda	A. Knap
5	23/11/1988 to 23/11/1988	R/V Weatherbird I	BATS	BATS 2	Bermuda	A. Knap
6	16/12/1988 to 20/12/1988	R/V Cape Henlopen	BATS	BATS 3	Bermuda	A. Knap
7	26/12/1988 to 31/01/1989	Jean Charcot	MEDATLANTE	Medatlante 1	France	J-P. Bethoux
8	23/01/1989 to 08/03/1989	Melville	WOCE	318MSAVE5	United States	Smethie
9	25/01/1989 to 29/01/1989	R/V Cape Henlopen	BATS	BATS 4	Bermuda	R. Sherriff-Dow
10	17/02/1989 to 21/02/1989	R/V Cape Henlopen	BATS	BATS 5	Bermuda	R. Sherriff-Dow
11	13/03/1989 to 19/04/1989	Melville	WOCE	318HYDROS4	United States	Talley
12	19/03/1989 to 27/04/1989	R/V Meteor	JGOFS/NABE	Met10/1	Germany	B. Zeitzschel
13	24/03/1989 to 28/03/1989	R/V Cape Henlopen	BATS	BATS 6	Bermuda	R. Sherriff-Dow
14	26/03/1989 to 08/04/1989	R/V Atlantis II	NABE	119 leg 2	United States	S. Honjo
15	15/04/1989 to 18/04/1989	R/V Cape Henlopen	BATS	BATS 7	Bermuda	R. Sherriff-Dow
16	18/04/1989 to 18/05/1989	CSS Baffin	CJGOFS	89-003	Canada	T. Platt
17	19/04/1989 to 10/05/1989	R/V Atlantis II	NABE	119 leg 4	United States	J. Marra
18	20/04/1989 to 20/04/1989	NASA P3 Air Craft	NABE	M-113	United States	F. Hoge
19	21/04/1989 to 21/04/1989	NASA P3 Air Craft	NABE	M-114	United States	F. Hoge
20	26/04/1989 to 26/04/1989	NASA P3 Air Craft	NABE	M-116	United States	F. Hoge
21	??/04/1989 to ??/05/1989	SA Agulhas	MOES	MOES II	South Africa	B.Allanson
22	02/05/1989 to 02/05/1989	NASA P3 Air Craft	NABE	M-117	United States	F. Hoge
23	02/05/1989 to 13/06/1989	R/V Meteor	JGOFS/NABE	Met10/2	Germany	J. Lenz
24	08/05/1989 to 08/06/1989	RRS Discovery	BOFS	DI182	United Kingdom	M. Fasham
25	10/05/1989 to 10/05/1989	NASA P3 Air Craft	NABE	M-118	United States	F. Hoge
26	13/05/1989 to 13/05/1989	NASA P3 Air Craft	NABE	M-119	United States	F. Hoge
27	15/05/1989 to 18/05/1989	R/V Weatherbird I	BATS	BATS 8	Bermuda	R. Sherriff-Dow
28	15/05/1989 to 08/06/1989	R/V Atlantis II	NABE	119 leg 5	United States	H. Ducklow
29	17/05/1989 to 17/05/1989	NASA P3 Air Craft	NABE	M-120	United States	F. Hoge
30	18/05/1989 to 18/05/1989	NASA P3 Air Craft	NABE	M-121	United States	F. Hoge
31	21/05/1989 to 21/05/1989	NASA P3 Air Craft	NABE	M-122	United States	F. Hoge
32	24/05/1989 to 24/05/1989	NASA P3 Air Craft	NABE	M-124	United States	F. Hoge

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
33	29/05/1989 to 29/05/1989	NASA P3 Air Craft	NABE	M-126	United States	F. Hoge
34	03/06/1989 to 03/06/1989	NASA P3 Air Craft	NABE	M-127	United States	F. Hoge
35	10/06/1989 to 12/07/1989	RRS Discovery	BOFS	DI183	United Kingdom	R. Harris
36	15/06/1989 to 12/07/1989	R/V Meteor	JGOFS/NABE	Met10/3	Germany	B. Zeitzschel
37	20/06/1989 to 23/06/1989	R/V Weatherbird I	BATS	BATS 9	Bermuda	R. Sherriff-Dow
38	28/06/1989 to 07/07/1989	R/V Endeavor	NABE	198	United States	J. Martin
39	01/07/1989 to 28/07/1989	Jean Charcot	EUMELI	Eumeli 1	France	G. A. Auffret
40	14/07/1989 to 14/08/1989	RRS Discovery	BOFS	DI184	United Kingdom	N. McCave
41	15/07/1989 to 30/08/1989	R/V Meteor	JGOFS/BIOCFL	Met10/4	Germany	
42	18/07/1989 to 21/07/1989	R/V Weatherbird I	BATS	BATS 10	Bermuda	R. Sherriff-Dow
43	31/07/1989 to 11/09/1989	R.V. Tyro	NAPP	leg 1	Netherlands	H.J.W. de Baar
44	07/08/1989 to 11/09/1989	Jean Charcot	MEDATLANTE	Medatlante 2	France	C. Lambert
45	10/08/1989 to 31/08/1989	SA Agulhas	Benthic survey	V58	South Africa	D. Gianakouras
46	14/08/1989 to 18/08/1989	R/V Weatherbird I	BATS	BATS 11	Bermuda	R. Sherriff-Dow
47	18/09/1989 to 19/09/1989	R/V Weatherbird I	BATS	BATS 12	Bermuda	R. Sherriff-Dow
48	21/09/1989 to 26/09/1989	R.V. Tyro	NAPP	leg 2	Netherlands	W. Helder
49	19/10/1989 to 28/10/1989	R/V Weatherbird I	BATS	BATS 13	Bermuda	R. Sherriff-Dow
50	19/11/1989 to 28/11/1989	R/V Weatherbird II	BATS	BATS 14	Bermuda	R. Sherriff-Dow
51	18/12/1989 to 20/12/1989	R/V Weatherbird II	BATS	BATS 15	Bermuda	R. Sherriff-Dow
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52	15/01/1990 to 18/01/1990	R/V Weatherbird II	BATS	BATS 16	Bermuda	R. Sherriff-Dow
53	23/01/1990 to 07/03/1990	R/V Meteor	WOCE	Met11/5	Germany	Roether
54	30/01/1990 to 01/02/1990	R/V Weatherbird II	BATS	BATS 16a	Bermuda	A. Michaels
55	14/02/1990 to 17/02/1990	R/V Weatherbird II	BATS	BATS 17	Bermuda	R. Johnson
56	21/02/1990 to 23/02/1990	R/V Weatherbird II	BATS	BATS 17a	Bermuda	K. Gundersen
57	27/02/1990 to 02/03/1990	R/V Weatherbird II	BATS	BATS 17b	Bermuda	K. Gundersen
58	12/03/1990 to 16/03/1990	R/V Weatherbird II	BATS	BATS 18	Bermuda	R. Sherriff-Dow
59	02/04/1990 to 03/04/1990	R/V Weatherbird II	BATS	BATS 18a	Bermuda	K. Gundersen
60	05/04/1990 to 28/04/1990	CSS Hudson	CJGOFS	90-001	Canada	T. Platt
61	14/04/1990 to 08/05/1990	RRS Discovery	BOFS	DI190	United Kingdom	A. Watson
62	16/04/1990 to 19/04/1990	R/V Weatherbird II	BATS	BATS 19	Bermuda	R. Sherriff-Dow
63	17/04/1990 to 31/05/1990	R.V. Tyro	NAPP	leg 3	Netherlands	H.G.Fransz
64	28/04/1990 to 23/05/1990	RRS Charles Darwin	BOFS	CD46	United Kingdom	G. Savidge
65	01/05/1990 to 22/05/1990	Polarstern	VIII/7		Germany	Schrems
66	08/05/1990 to 11/05/1990	R/V Weatherbird II	BATS	BATS 20	Bermuda	R. Johnson

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
67	11/05/1990 to 05/06/1990	RRS Discovery	BOFS	DI191	United Kingdom	M. Angel
68	25/05/1990 to 18/06/1990	RRS Charles Darwin	BOFS	CD47	United Kingdom	P. Burkill
69	27/05/1990 to 30/06/1990	R/V Meteor	JGOFS/BIOFCL	Met12/3	Germany	
70	02/06/1990 to 29/06/1990	R.V. Tyro	NAPP	leg 4	Netherlands	Ganssen/De Wilde
71	09/06/1990 to 27/06/1990	RRS Discovery	BOFS	DI192	United Kingdom	D. Turner
72	21/06/1990 to 24/06/1990	R/V Weatherbird II	BATS	BATS 21	Bermuda	R. Johnson
73	01/07/1990 to 23/07/1991	R.V. Tyro	Dutch Warp (WOCE)	90/3	Netherlands	van Aken
74	16/07/1990 to 19/07/1990	R/V Weatherbird II	BATS	BATS 22	Bermuda	R. Johnson
75	13/08/1990 to 16/08/1990	R/V Weatherbird II	BATS	BATS 23	Bermuda	R. Sherriff-Dow
76	14/08/1990 to 10/09/1990	R/V Poseidon	SFB313	Pos 173/2	Germany	
77	10/09/1990 to 13/09/1990	R/V Weatherbird II	BATS	BATS 24	Bermuda	R. Sherriff-Dow
78	18/09/1990 to 24/10/1990	RRS Charles Darwin	BOFS	CD53	United Kingdom	G. Shimmield
79	14/10/1990 to 18/10/1990	R/V Weatherbird II	BATS	BATS 25	Bermuda	R. Sherriff-Dow
80	05/11/1990 to 08/11/1990	R/V Weatherbird II	BATS	BATS 26	Bermuda	R. Johnson
81	03/12/1990 to 06/12/1990	R/V Weatherbird II	BATS	BATS 27	Bermuda	K. Gundersen
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82	14/01/1991 to 17/01/1991	R/V Weatherbird II	BATS	BATS 28	Bermuda	R. Sherriff-Dow
83	29/01/1991 to 31/01/1991	R/V Weatherbird II	BATS	BATS 28a	Bermuda	K. Gundersen
84	09/01/1991 to 22/02/1991	L'Atalante	EUMELI	Eumeli 2(2legs)	France	M. Sibuet
85	11/02/1991 to 14/02/1991	R/V Weatherbird II	BATS	BATS 29	Bermuda	R. Sherriff-Dow
86	19/02/1991 to 21/02/1991	R/V Weatherbird II	BATS	BATS 29a	Bermuda	K. Gundersen
87	13/03/1991 to 17/03/1991	R/V Weatherbird II	BATS	BATS 30	Bermuda	R. Johnson
88	20/03/1991 to 22/03/1991	R/V Weatherbird II	BATS	BATS 30a	Bermuda	K. Gundersen
89	03/04/1991 to 20/04/1991	CSS Hudson	CJGOFS	91-001	Canada	G. Harrison
90	04/04/1991 to 06/04/1991	R/V Weatherbird II	BATS	BATS 30b	Bermuda	A. Michaels
91	08/04/1991 to 01/05/1991	R.V. Tyro	Dutch Warp	91/1	Netherlands	van Aken
92	15/04/1991 to 19/04/1991	R/V Weatherbird II	BATS	BATS 31	Bermuda	R. Sherriff-Dow
93	25/04/1991 to 16/05/1991	RRS Charles Darwin	VIVALDI91	CD58	United Kingdom	R. Pollard
94	29/04/1991 to 03/05/1991	R/V Weatherbird II	BATS	BATS VAL1	Bermuda	
95	13/05/1991 to 17/05/1991	R/V Weatherbird II	BATS	BATS 32	Bermuda	R. Sherriff-Dow
96	18/05/1991 to 10/06/1991	RRS Charles Darwin	VIVALDI91	CD59	United Kingdom	H. Leach
97	12/06/1991 to 03/07/1991	RRS Charles Darwin	BOFS	CD60	United Kingdom	P. Holligan
98	18/06/1991 to 21/06/1991	R/V Weatherbird II	BATS	BATS 33	Bermuda	R. Sherriff-Dow
99	06/07/1991 to 29/07/1991	RRS Charles Darwin	BOFS	CD61	United Kingdom	R. Harris
100	15/07/1991 to 19/07/1991	R/V Weatherbird II	BATS	BATS 34	Bermuda	R. Sherriff-Dow

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
101	12/08/1991 to 16/08/1991	R/V Weatherbird II	BATS	BATS 35	Bermuda	R. Sherriff-Dow
102	10/09/1991 to 14/09/1991	R/V Weatherbird II	BATS	BATS 36	Bermuda	R. Johnson
103	15/09/1991 to 21/10/1991	L'Atalante	EUMELI	Eumeli 3(2legs)	France	A. Morel,G.Jacques
104	07/10/1991 to 10/10/1991	R/V Weatherbird II	BATS	BATS 37	Bermuda	
105	11/11/1991 to 15/11/1991	R/V Weatherbird II	BATS	BATS 38	Bermuda	
106	18/11/1991 to 22/12/1991	R/V Meteor	JGOFS	Met20/1	Germany	G. Wefer
107	19/11/1991 to 22/11/1991	R/V Weatherbird II	BATS	BATS VAL2	Bermuda	
108	30/11/1991 to 18/12/1991	Sonne	IFMB/HH	76-A	Germany	Seifert
109	09/12/1991 to 12/12/1991	R/V Weatherbird II	BATS	BATS 39	Bermuda	
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110	06/01/1992 to 10/01/1992	R/V Weatherbird II	BATS	BATS 40	Bermuda	R. Sherriff-Dow
111	13/01/1992 to 16/01/1992	R/V Weatherbird II	BATS	BATS VAL3	Bermuda	J. Sorensen
112	27/01/1992 to 29/01/1992	R/V Weatherbird II	BATS	BATS 40a	Bermuda	R. Sherriff-Dow
113	10/02/1992 to 14/02/1992	R/V Weatherbird II	BATS	BATS 41	Bermuda	J. Sorensen
114	24/02/1992 to 26/02/1992	R/V Weatherbird II	BATS	BATS 41a	Bermuda	K. Gundersen
115	09/03/1992 to 13/03/1992	R/V Weatherbird II	BATS	BATS 42	Bermuda	J. Sorensen
116	16/03/1992 to 09/04/1992	R/V Meteor	GJGOFS	Met21/1	Germany	O. Pfannkuche
117	18/03/1992 to 20/03/1992	R/V Weatherbird II	BATS	BATS 42a	Bermuda	R. Johnson
118	24/03/1992 to 24/03/1992	R/V Weatherbird II	BATS	BATS VAL4	Bermuda	R. Johnson
119	11/04/1992 to 13/04/1992	R/V Weatherbird II	BATS	BATS 42b	Bermuda	J. Sorensen
120	12/04/1992 to 06/05/1992	R/V Meteor	GJGOFS	Met21/2	Germany	B. Zeitzschel
121	20/04/1992 to 25/04/1992	R/V Weatherbird II	BATS	BATS 43	Bermuda	A. Close
122	04/05/1992 to 08/05/1992	R/V Weatherbird II	BATS	BATS 43a	Bermuda	A. Michaels
123	09/05/1992 to 02/06/1992	R/V Meteor	GJGOFS	Met21/3	Germany	J. Duinker
124	18/05/1992 to 23/05/1992	R/V Weatherbird II	BATS	BATS 44	Bermuda	R. Sherriff-Dow
125	18/05/1992 to 30/06/1992	L'Atalante	EUMELI	Eumeli 4(2legs)	France	P. Buat-Menard
126	27/05/1992 to 14/06/1992	CSS Hudson	WOCE	18HU9204/1	Canada	Lazier
127	16/06/1992 to 20/06/1992	R/V Weatherbird II	BATS	BATS 45	Bermuda	R. Johnson
128	29/06/1992 to 03/07/1992	R/V Weatherbird II	BATS	BATS VAL5	Bermuda	J. Sorensen
129	01/07/1992 to 23/07/1992	R/V Meteor	SFB313	Met21/5	Germany	G. Graf
130	13/07/1992 to 17/07/1992	R/V Weatherbird II	BATS	BATS 46	Bermuda	K. Gundersen
131	15/07/1992 to 23/08/1992	BIO Hesperides	WOCE	HE06/Line A-5	Spain	G. Parrilla
132	23/07/1992 to 30/07/1992	CSS Fogo Isle	CJGOFS	IML JGOFS-1	Canada	B.Klein,S.Demers
133	26/07/1992 to 31/08/1992	R/V Meteor	BIOCFL	Met21/6	Germany	O. Pfannkuche

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
134	17/08/1992 to 21/08/1992	R/V Weatherbird II	BATS	BATS 47	Bermuda	R. Sherriff-Dow
135	24/08/1992 to 11/09/1992	RRS Charles Darwin	CD72		United Kingdom	R. Lampitt
136	01/09/1992 to 11/09/1992	CSS Fogo Isle	CJGOFS	IML JGOFS-2	Canada	B.Klein
137	14/09/1992 to 18/09/1992	R/V Weatherbird II	BATS	BATS 48	Bermuda	J. Sorensen
138	16/09/1992 to 21/10/1992	CSS Hudson	CJGOFS	92-037	Canada	G. Harrison
139	22/09/1992 to 21/10/1992	R/V Meteor	JGOFS	Met22/1	Germany	W. Balzer
140	25/09/1992 to 05/10/1992	CSS Fogo Isle	CJGOFS	IML JGOFS-3	Canada	B.Klein
141	28/09/1992 to 01/10/1992	R/V Weatherbird II	BATS	BATS VAL6	Bermuda	R. Johnson
142	13/10/1992 to 17/10/1992	R/V Weatherbird II	BATS	BATS 49	Bermuda	A. Close
143	09/11/1992 to 13/11/1992	R/V Weatherbird II	BATS	BATS 50	Bermuda	F. Howse
144	07/12/1992 to 10/12/1992	R/V Weatherbird II	BATS	BATS 51	Bermuda	R. Johnson
145	07/12/1992 to 30/12/1992	Suroit	EUMELI	Eumeli 5	France	D. Tailliez
146	07/12/1992 to 17/12/1992	CSS Hudson	CJGOFS	IML JGOFS-4	Canada	B.Klein
147	??/12/1992 to ??/01/1993	SA Agulhas	SAAMES	v70. SAAMES II	South Africa	M. Lucas
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148	11/01/1993 to 15/01/1993	R/V Cape Hatteras	BATS	BATS 52	Bermuda	R. Sherriff-Dow
149	25/01/1993 to 29/01/1993	R/V Cape Hatteras	BATS	BATS 52a	Bermuda	R. Johnson
150	26/01/1993 to 29/01/1993	R/V Weatherbird II	BATS	BATS VAL7	Bermuda	R. Johnson
151	08/02/1993 to 11/02/1993	R/V Cape Hatteras	BATS	BATS 53	Bermuda	R. Sherriff-Dow
152	24/02/1993 to 26/02/1993	R/V Cape Hatteras	BATS	BATS 53a	Bermuda	A. Close
153	09/03/1993 to 13/03/1993	R/V Cape Hatteras	BATS	BATS 54	Bermuda	K. Gundersen
154	21/03/1993 to 12/04/1993	R/V Meteor	JGOFS	Met23/3	Germany	G. Wefer
155	29/03/1993 to 31/03/1993	R/V Cape Hatteras	BATS	BATS 54a	Bermuda	A. Doyle
156	12/04/1993 to 17/04/1993	R/V Cape Hatteras	BATS	BATS 55	Bermuda	R. Sherriff-Dow
157	19/04/1993 to 06/05/1993	Belgica	OMEX I	BG93-09	Belgica	R. Wollast
158	26/04/1993 to 28/04/1993	R/V Cape Hatteras	BATS	BATS 55a	Bermuda	R. Johnson
159	08/05/1993 to 11/05/1993	R/V Cape Hatteras	BATS	BATS 56	Bermuda	A. Close
160	08/05/1993 to 14/05/1993	CSS Alfred Needler	CJGOFS	CG2683	Canada	S.K. Juniper
161	10/05/1993 to 01/06/1993	Cornide de Saavedra	WOCE	29CSMorena/1	Spain	Cabañas
162	15/05/1993 to 08/06/1993	CSS Hudson	CJGOFS	93-002	Canada	G. Harrison
163	19/05/1993 to 01/06/1993	Keldysh	GJGOFS		Germany	J.Duinker
164	25/05/1993 to 04/06/1993	CSS Fogo Isle	CJGOFS	IML JGOFS-5	Canada	B. Klein
165	25/05/1993 to 17/06/1993	Heincke	BAH	JGOFS 1993/11.2	Germany	
166	05/06/1993 to 21/06/1993	R/V Poseidon	GJGOFS	Pos200/6	Germany	W. Koeve
167	13/06/1993 to 16/06/1993	R/V Weatherbird II	BATS	BATS 57	Bermuda	R. Johnson

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
168	23/06/1993 to 04/07/1993	R/V Poseidon	OMEX I	PS200-7	Germany	B.von Bodungen
169	23/06/1993 to 16/07/1993	R/V Valdivia	OMEX I	VLD137	Germany	T. Raabe
170	06/07/1993 to 17/07/1993	R/V Malcolm Baldrige	OACES	MB-93-03 leg 1	United States	R. Wanninkhof
171	09/07/1993 to 19/07/1993	CSS Fogo Isle	CJGOFS	IML JGOFS-6	Canada	B. Klein
172	12/07/1993 to 17/07/1993	R/V Weatherbird II	BATS	BATS 58	Bermuda	R. Johnson
173	01/08/1993 to 30/08/1993	BIO Hesperides	MAST	HE011	Spain	J. Arístegui
174	02/08/1993 to 16/08/1993	R/V Malcolm Baldrige	OACES	MB-93-03 leg 2A	United States	D. Atwood
175	16/08/1993 to 20/08/1993	R/V Weatherbird II	BATS	BATS 59	Bermuda	F. Howse
176	17/08/1993 to 30/08/1993	R/V Malcolm Baldrige	OACES	MB-93-03 leg 2B	United States	D. Frazel
177	24/08/1993 to 25/09/1993	R/V Meteor	GJGOFS/TRAPS	Met26/1	Germany	K. Kremling
178	13/09/1993 to 17/09/1993	R/V Weatherbird II	BATS	BATS 60	Bermuda	K. Gundersen
179	21/09/1993 to 06/10/1993	Belgica	OMEX I	BG93-22	Belgica	R. Wollast
180	29/09/1993 to 01/10/1993	R/V Weatherbird II	BATS	BATS VAL8	Bermuda	
181	11/10/1993 TO 14/10/1993	R/V Weatherbird II	BATS	BATS 61	Bermuda	
182	17/10/1993 to 27/11/1993	Polarstern	XI/1		Germany	Schrems
183	08/11/1993 to 12/11/1993	R/V Weatherbird II	BATS	BATS 62	Bermuda	
184	10/11/1993 to 07/12/1993	Håkon Mosby	WOCE	AA58	Norway	Johannessen
185	21/11/1993 to 04/12/1993	CSS Parizeau	CJGOFS	IML JGOFS-7	Canada	B. Klein
186	23/11/1993 to 25/11/1993	R/V Weatherbird II	BATS	BATS VAL9	Bermuda	
187	??/11/1993 to ??/12/1993	R/V Academica Mstislav Keldysh			Russia	A.P. Lisitzin
188	05/12/1993 to 15/12/1993	CSS Parizeau	CJGOFS	93-41(28)(leg 2)	Canada	B. Sundby/A.Hatcher
189	06/12/1993 to 10/12/1993	R/V Weatherbird II	BATS	BATS 63	Bermuda	
190	13/12/1993 to 13/01/1993	RSS Charles Darwin	OMEX I	CD83	United Kingdom	R.D.Pingree
191	29/12/1993 to 17/01/1994	R/V Meteor	JGOFS/OMEX	Met27/1	Germany	W. Balzer
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192	10/01/1994 to ??/??/1994	CSS Hudson	CJGOFS		Canada	Therriault
193	11/01/1994 to 17/01/1994	R/V Weatherbird II	BATS	BATS 64	Bermuda	
194	18/01/1994 to 02/02/1994	RSS Charles Darwin	OMEX I	CD84	United Kingdom	P.J.Statham
195	20/01/1994 to 15/02/1994	R/V Meteor	GJGOFS/GEOMAR	Met27/2	Germany	O. Pfannkuche
196	01/02/1994 to 04/02/1994	R/V Weatherbird II	BATS	BATS VAL10	Bermuda	
197	10.02.1994	Taliarte	ESTOC	294	Spain	
198	15/02/1994 to 19/02/1994	R/V Weatherbird II	BATS	BATS 65	Bermuda	
199	18/02/1994 to 26/03/1994	R/V Meteor	WOCE	Met27/3	Germany	F. Schott
200	28/02/1994 to 01/03/1994	R/V Weatherbird II	BATS	BATS 65a	Bermuda	
201	10/03/1994 to ??/??/1994	CSS Hudson	CJGOFS		Canada	Therriault

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
202	14/03/1994 to 21/03/1994	R/V Weatherbird II	BATS	BATS 66	Bermuda	
203	30.03.1994	Taliarte	ESTOC	394	Spain	
204	02/04/1994 to ??/??/1994	CSS Hudson	CJGOFS		Canada	T. Platt
205	02/04/1994 to ??/??/1994	CSS Parizeau	CJGOFS		Canada	Theriault
206	05/04/1994 to 07/04/1994	R/V Weatherbird II	BATS	BATS 66a	Bermuda	
207	08/04/1994 to 05/05/1994	RSS Charles Darwin	OMEX I	CD85	United Kingdom	P. Pugh
208	10/04/1994 to 22/04/1994	Sir Wilfrid Lau	CJGOFS	IML JGOFS-8	Canada	B. Klein
209	16/04/1994 to ??/??/1994	CSS Parizeau	CJGOFS		Canada	B. Sundby
210	18/04/1994 to 21/04/1994	R/V Weatherbird II	BATS	BATS 67	Bermuda	
211	20/04/1994 to 28/04/1994	Belgica	OMEX I	BG94-12	Belgium	R. Wollast
212	25/04/1994 to 08/10/1994	R/V Poseidon	ESTOC	201/c	Germany	
213	28.04.1994	Taliarte	ESTOC	494	Spain	
214	03/05/1994 to 04/05/1994	R/V Weatherbird II	BATS	BATS 67a	Bermuda	
215	16/05/1994 to 20/05/1994	R/V Weatherbird II	BATS	BATS 68	Bermuda	
216	16/05/1994 to 17/06/1994	RSS Charles Darwin	OMEX I	CD86	United Kingdom	T.C.E.van Weering
217	21/05/1994 to 11/06/1994	R/V Valdivia	TRAPS	144/2	Germany	
218	28.05.1994	Taliarte	ESTOC	594	Spain	
219	03/06/1994 to 03/03/1994	R/V Weatherbird II	BATS	BATS 68a	Bermuda	
220	12/06/1994 to 14/07/1994	R/V Valdivia	TRAPS/WOCE/ORAS	Val 145/1	Germany	E. Mittelstaedt
221	13/06/1994 to 16/06/1994	R/V Weatherbird II	BATS	BATS 69	Bermuda	
222	13/06/1994 to 24/06/1994	CSS Hudson	CJGOFS	IML JGOFS-9,leg1	Canada	B.Klein,G.Desrosiers
223	22.06.1994	Taliarte	ESTOC	694	Spain	
224	24/06/1994 to 30/06/1994	CSS Hudson	CJGOFS	IML JGOFS-9,leg2	Canada	B.Klein,G.Desrosiers
225	29/06/1994 to 01/07/1993	R/V Weatherbird II	BATS	BATS VAL11	Bermuda	
226	13.07.1994	Taliarte	ESTOC	794	Spain	
227	18/07/1994 to 21/07/1994	R/V Weatherbird II	BATS	BATS 70	Bermuda	
228	15/08/1994 to 19/08/1994	R/V Weatherbird II	BATS	BATS 71	Bermuda	
229	29/08/1994 to 22/09/1994	Heincke	BAH	JGOFS 1994/63	Germany	P. Martens
230	31.08.1994	Taliarte	ESTOC	894	Spain	
231	06/09/1994 to 20/09/1994	R/V Meteor	GJGOFS/WOCE/OMEX I	Met 30/1	Germany	O. Pfannkuche
232	12/09/1994 to ??/??/1994	CSS Parizeau	CJGOFS		Canada	B. Boudreau
233	15/09/1994 to 23/09/1994	R/V Poseidon	TRAPS	Pos 202/1a-c	Germany	M. Müller, M. Knoll
234	19/09/1994 to 22/09/1994	R/V Weatherbird II	BATS	BATS 72	Bermuda	
235	25.09.1994	R/V Poseidon	ESTOC	994	Germany	
236	29/09/1994 to 02/10/1994	R/V Weatherbird II	BATS	BATS VAL12	Bermuda	

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
237	04.10.1994	R/V Poseidon	ESTOC	994	Germany	
238	12/10/1994 to 12/11/1994	R/V Meteor	WOCE	Met30/2	Germany	Koltermann
239	18/10/1994 to 22/10/1994	R/V Weatherbird II	BATS	BATS 73	Bermuda	
240	25.10.1994	Taliarte	ESTOC	1094	Spain	
241	14/11/1994 to 17/11/1994	R/V Weatherbird II	BATS	BATS 74	Bermuda	
242	15/11/1994 to 19/12/1994	R/V Meteor	WOCE-JGOFS	MT30 leg 3	Germany	Meincke
243	17.11.1994	Taliarte	ESTOC	1194	Spain	
244	08/12/1994 to 12/12/1994	R/V Weatherbird II	BATS	BATS 75	Bermuda	
245	15/12/1994 to ??/??/1994	CSS Parizeau	CJGOFS		Canada	Theriault
246	16.12.1994	Taliarte	ESTOC	1294	Spain	
	—					
247	10/01/1995 to 13/01/1995	R/V Weatherbird II	BATS	BATS 76	Bermuda	
248	25.01.1995	Taliarte	ESTOC	195	Spain	
249	01/02/1995 to 01/02/1995	R/V Weatherbird II	BATS	BATS 76a	Bermuda	
250	10/02/1995 to ??/??/1995	CSS Parizeau	CJGOFS		Canada	Theriault
251	13/02/1995 to 16/02/1995	R/V Weatherbird II	BATS	BATS 77	Bermuda	
252	01/03/1995 to 01/03/1995	R/V Weatherbird II	BATS	BATS 77a	Bermuda	
253	03/03/1995 to 17/03/1995	Belgica	OMEX I	BG95-06	Belgium	R. Wollast
254	15/03/1995 to 17/03/1995	R/V Weatherbird II	BATS	BATS 78	Bermuda	
255	27/03/1995 to 31/03/1995	R/V Weatherbird II	BATS	BATS VAL13	Bermuda	
256	27/03/1995 to 17/04/1995	Heincke	OMEX I	HEINK68	Germany	M. Kloppmann
257	28.03.1995	Taliarte	ESTOC	395	Spain	
258	29/03/1995 to 29/03/1995	R/V Weatherbird II	BATS	BATS 78a	Bermuda	
259	05/04/1995 to ??/??/1995	CSS Hudson	CJGOFS		Canada	T. Platt
260	10/04/1995 to 13/04/1995	R/V Weatherbird II	BATS	BATS 79	Bermuda	
261	27/04/1995 to 27/04/1995	R/V Weatherbird II	BATS	BATS 79a	Bermuda	
262	10/05/1995 to 13/05/1995	R/V Weatherbird II	BATS	BATS 80	Bermuda	
263	30/05/1995 to 07/05/1995	Victor Hansen	ESTOC	95	Germany	
264	01.06.1995	Victor Hensen	ESTOC	595	Germany	
265	03/06/1995 to 20/06/1995	RSS Charles Darwin	OMEX I	CD94	United Kingdom	P.J.Statham
266	04.06.1995	Victor Hensen	ESTOC	695	Germany	
267	12/06/1995 to 15/06/1995	R/V Weatherbird II	BATS	BATS 81	Bermuda	
268	24/06/1995 to 13/07/1995	R/V Valdivia	OMEX I	VLD153	Germany	Mohn
269	25/06/1995 to 08/07/1995	R/V Poseidon	GJGOFS	Pos 209/1	Germany	W. Koeve

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
270	10/07/1995 to 13/07/1995	R/V Weatherbird II	BATS	BATS 82	Bermuda	
271	10/07/1995 to 26/07/1995	R/V Poseidon	GJGOFS	Pos 209/2	Germany	
272	14/07/1995 to 30/07/1995	R/V Valdivia	OMEX I	VLD154	Germany	A. Spitzky
273	25/07/1995 to 28/07/1995	R/V Weatherbird II	BATS	BATS VAL14	Bermuda	
274	18/08/1995 to 22/08/1995	R/V Weatherbird II	BATS	BATS 83	Bermuda	
275	26/08/1995 to 12/09/1995	RRS Discovery	OMEX I	DI216	United Kingdom	P.J.Statham
276	30.08.1995	Taliarte	ESTOC	895	Spain	
277	??/09/1995 to ??/09/1995	Heincke	BAH	JGOFS 1995	Germany	
278	01/09/1995 to 10/09/1995	R/V Poseidon	OMEX I	PS211	Germany	L. Mintrop
279	11/09/1995 to 20/09/1995	Belgica	OMEX I	BG95-21	Belgium	M. Frankignoulle
280	12/09/1995 to 15/09/1995	R/V Weatherbird II	BATS	BATS 84	Bermuda	
281	14/09/1995 to 29/09/1995	R/V Poseidon	TRAPS/WOCE	Pos 212/2	Germany	T.Mueller
282	20/09/1995 to ??/??/1995	CSS Parizeau	CJGOFS		Canada	B. Boudreau
283	21/09/1995 to 30/09/1995	Belgica	OMEX I	BG95-22	Belgium	P. Dauby
284	27/09/1995 to 22/10/1995	RRS Discovery	OMEX I	DI217	United Kingdom	R. Lampitt
285	30/09/1995 to 08/10/1995	R/V Poseidon	ESTOC	212/3	Germany	
286	01.10.1995	R/V Poseidon	ESTOC	995	Germany	
287	03.10.1995	R/V Poseidon	ESTOC	1095	Germany	
288	06.10.1995	R/V Poseidon	ESTOC	1095	Germany	
289	10/10/1995 to 14/10/1995	R/V Weatherbird II	BATS	BATS 85	Bermuda	
290	12/10/1995 to 06/11/1995	RSS Charles Darwin	OMEX I	CD97	United Kingdom	R.D.Pingree
291	24/10/1995 to 27/10/1995	R/V Weatherbird II	BATS	BATS VAL15	Bermuda	
292	11/11/1995 to 11/11/1995	R/V Weatherbird II	BATS	BATS 86	Bermuda	
293	25.11.1995	Taliarte	ESTOC	1195	Spain	
294	14/12/1995 to 16/12/1996	R/V Weatherbird II	BATS	BATS 87	Bermuda	
	—					
295	10/01/1996 to ??/??/1996	CSS Hudson	CJGOFS		Canada	Therriault
296	22/01/1996 to 01/02/1996	Victor Hansen	ESTOC	A1/96-1	Germany	
297	30/01/1996 to 31/01/1996	R/V Weatherbird II	BATS	BATS 88	Bermuda	
298	02/02/1996 to 12/02/1996	Victor Hansen	ESTOC	A1/96-2	Germany	
299	12/02/1996 to 15/02/1996	R/V Weatherbird II	BATS	BATS 89	Bermuda	
300	28/02/1996 to 28/02/1996	R/V Weatherbird II	BATS	BATS 89a	Bermuda	
301	15.03.1996	Taliarte	ESTOC	396	Spain	
302	15/03/1996 to 16/03/1996	R/V Weatherbird II	BATS	BATS 90	Bermuda	
303	28/03/1996 to 28/03/1996	R/V Weatherbird II	BATS	BATS 90a	Bermuda	

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
304	08/04/1996 to 13/04/1996	R/V Weatherbird II	BATS	BATS 91	Bermuda	
305	23/04/1996 to 23/04/1996	R/V Weatherbird II	BATS	BATS 91a	Bermuda	
306	24.04.1996	Taliarte	ESTOC	496	Spain	
307	06/05/1996 to 10/05/1996	R/V Weatherbird II	BATS	BATS 92	Bermuda	
308	14/05/1996 to 01/06/1996	R/V Poseidon	ESTOC	219A	Germany	
309	06/06/1996 to 19/06/1996	R/V Meteor	GJGOFS	Met36/1	Germany	D. Schulz-Bull
310	10/06/1996 to 14/06/1996	R/V Weatherbird II	BATS	BATS 93	Bermuda	
311	11/06/1996 to 23/07/1996	RRS Discovery	PRIME	DI221	United Kingdom	G. Savidge
312	12.06.1996	Taliarte	ESTOC	696	Spain	
313	22/06/1996 to 18/07/1996	R/V Meteor	GJGOFS	Met36/2	Germany	K. Kremling
314	09.07.1996	Taliarte	ESTOC	796	Spain	
315	09/07/1996 to 12/07/1996	R/V Weatherbird II	BATS	BATS 94	Bermuda	
316	21/07/1996 to 17/08/1996	R/V Meteor	SFB313	Met36/3	Germany	J. Meinert
317	22/07/1996 to 31/08/1996	R/V Tydeman	DCM		Netherlands	M. Velhuis
318	05/08/1996 to 08/08/1996	R/V Weatherbird II	BATS	BATS 95	Bermuda	
319	20/08/1996 to 05/09/1996	R/V Meteor	BIGSET	Met36/4	Germany	G. Graf
320	29.08.1996	Taliarte	ESTOC	896	Spain	
321	03/09/1996 to 06/09/1996	R/V Weatherbird II	BATS	BATS 96	Bermuda	
322	07/09/1996 to 06/10/1996	R/V Meteor	GJGOFS	Met36/5	Germany	C. Hembelen
323	27.09.1996	Taliarte	ESTOC	996	Spain	
324	08/10/1996 TO 12/10/1996	R/V Weatherbird II	BATS	BATS 97	Bermuda	
325	09/10/1996 to 04/11/1996	R/V Meteor	GJGOFS(BIGSET/BENGAL)	Met36/6	Germany	O. Pfannkuche
326	17/10/1996 to 20/11/1996	CSS Hudson	WOCE	96026	Canada	J.Lazier/A.Clarke
327	30.10.1996	Taliarte	ESTOC	1096	Spain	
328	05/11/1996 to 13/11/1996	R/V Weatherbird II	BATS	BATS 98	Bermuda	
329	12/12/1996 to 14/12/1996	R/V Weatherbird II	BATS	BATS 99	Bermuda	
330	17.12.1996	Taliarte	ESTOC	1296	Spain	
	—					
331	06/01/1997 to 22/01/1997	Meteor	ESTOC	37	Germany	
332	11.01.1997	R/V Meteor	ESTOC	197	Germany	
333	13/01/1997 to 18/01/1997	R/V Weatherbird II	BATS	BATS 100	Bermuda	
334	22.01.1997	R/V Meteor	ESTOC	297	Germany	
335	14.03.1997	Taliarte	ESTOC	397	Spain	
336	13.04.1997	R/V Meteor	ESTOC	497	Germany	
337	15/04/1997 to 16/05/1997	RRS Discovery	Plank.patchiness studies	DI227	United Kingdom	M. Srokosz

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
338	25/04/1997 to 03/05/1997	Victor Hansen	ESTOC	97/3-2	Germany	
339	05/05/1997 to 14/05/1997	Victor Hansen	ESTOC	97/3-3	Germany	
340	09/05/1997 to 11/06/1997	CSS Hudson	WOCE	97009	Canada	A.Clarke
341	29/05/1997 to 09/06/1997	R/V Charles Darwin	OMEX II	CD105A	United Kingdom	J. Huthnance
342	09.06.1997	Taliarte	ESTOC	697	Spain	
343	10/06/1997 to 22/06/1997	R/V Charles Darwin	OMEX II	CD105B	United Kingdom	J. Huthnance
344	11.06.1997	Navarro	ESTOC	697	Spain	
345	03.07.1997	Taliarte	ESTOC	797	Spain	
346	21/07/1997 to 01/08/1997	R/V Poseidon	GJGOFS	Pos231/2	Germany	U. Lundgreen
347	03/08/1997 to 15/08/1997	R/V Poseidon	GJGOFS	Pos231/3	Germany	J. Waniek
348	15/08/1997 to 03/09/1997	R/V Knorr	WOCE	151 leg 4	USA	T.M. Joyce
349	23.08.1997	Taliarte	ESTOC	897	Spain	
350	05/09/1997 to 21/09/1997	R/V Poseidon	ESTOC	233A	Germany	
351	14.09.1997	R/V Poseidon	ESTOC	997	Germany	
352	04.10.1997	R/V Poseidon	ESTOC	1097	Germany	
353	04.11.1997	Taliarte	ESTOC	1197	Spain	
354	02.12.1997	Taliarte	ESTOC	1297	Spain	
355	23/12/1997 to 05/01/1998	R/V Charles Darwin	OMEX II	CD110A	United Kingdom	J. Huthnance
	—					
356	06/01/1998 to 19/01/1998	R/V Charles Darwin	OMEX II	CD110B	United Kingdom	J. Huthnance
357	08/01/1998 to 24/02/1998	R/V Ronald H. Brown	WOCE		USA	
358	12/01/1998 to 16/01/1998	R/V Weatherbird II	BATS	BATS 112	Bermuda	
359	20.01.1998	Taliarte	ESTOC	198	Spain	
360	12/01/1998 to 16/01/1998	R/V Weatherbird II	BATS	BATS 112a	Bermuda	
361	09/02/1998 to 13/02/1998	R/V Weatherbird II	BATS	BATS 113	Bermuda	
362	17.02.1998	Taliarte	ESTOC	298	Spain	
363	24/02/1998 to 26/02/1998	R/V Weatherbird II	BATS	BATS 113a	Bermuda	
364	02/03/1998 to 27/03/1998	MERLIM			Netherlands	
365	09/03/1998 to 13/03/1998	R/V Weatherbird II	BATS	BATS 114	Bermuda	
366	23/03/1998 to 31/03/1998	R/V Poseidon	ESTOC	237/2b	Germany	
367	24.03.1998	Taliarte	ESTOC	398	Spain	
368	25/03/1998 to 27/03/1998	R/V Weatherbird II	BATS	BATS 114a	Bermuda	
369	02/04/1998 to 17/04/1998	R/V Poseidon	ESTOC	237/3	Germany	
370	06/04/1998 to 10/04/1998	R/V Weatherbird II	BATS	BATS 115	Bermuda	
371	14/04/1998 to 17/04/1998	R/V Weatherbird II	BATS	BATS 115a	Bermuda	

	Start & End Dates	Ship	Project	Cruise id.	Country	Chief Scientist
372	21/04/1998 to 30/04/1998	R/V Poseidon	ESTOC	237/4	Germany	
373	23/04/1998 to 01/06/1998	RRS Discovery	KAOS	DI233	United Kingdom	D. Smythe-Wright
374	04/05/1998 to 08/05/1998	R/V Weatherbird II	BATS	BATS 116	Bermuda	
375	01/06/1998 to 05/06/1998	R/V Weatherbird II	BATS	BATS 117	Bermuda	
376	24/06/1998 to 09/07/1998	CSS Hudson	WOCE	98023	Canada	E.Peter Jones
377	07/07/1998 to 10/07/1998	R/V Weatherbird II	BATS	BATS 118	Bermuda	
378	09/08/1998 to 14/08/1998	R/V Weatherbird II	BATS	BATS 119	Bermuda	

	Where	Record created	Comments
1	Prince Edward Islands	26.01.1994	
2	Pas de Calais front (English Channel)	06.07.1999	
3	English Channel	06.07.1999	
4	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
5	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
6	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
7	North-east Atlantic and Mediterranean Sea	07.05.1997	Cruise Reference 88006311
8	WOCE line A16S	22.04.1999	WOCE section with JGOFS observations
9	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
10	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
11	WOCE line A16C	22.04.1999	WOCE section with JGOFS observations
12	N.Atlantic 18N 30W, 33N 21W	01.06.1994	
13	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
14	N. Atlantic 34 47 and 60 N along	20 W	09.07.1993
15	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
16	N Atlantic 35-43 N 40-60 W	01.06.1994	
17	N. Atlantic 59-41 N along 20 W	09.07.1993	
18	N. Atlantic 39-45 N along 61.5 W	09.07.1993	
19	N. Atlantic 38 N 26 W to 48 N 54 W	09.07.1993	
20	N. Atlantic 48 N 20 W to 52 N 10 W	09.07.1993	
21	Prince Edward Islands	26.01.1994	
22	N. Atlantic 48 N 20 W to 52 N 11 W	09.07.1993	
23	N.Atlantic 47N 20W, 58N 21W	01.06.1994	
24	N Atlantic 47-60 N along 20 W	18.05.1993	
25	N. Atlantic 48 N 21 W to 53 N 9 W and N 19 W to 52 N 9W	09.07.1993	
26	N. Atlantic 47 N 20 W to 50 N to 17 W	19.11.1996	
27	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
28	N. Atlantic 60-46 N along 20 W	09.07.1993	
29	N. Atlantic 53 N 12.5 W to 53 N 9 W and 51.5 N 13.5 W to 52.2 N to 9W	09.07.1993	
30	N. Atlantic 48 N 21 W to 53 N 9 W and 46 N 17 W to 50 N to 13 W	09.07.1993	
31	N. Atlantic 52 N 20 W to 64 N 22 W	09.07.1993	
32	N. Atlantic 57 N 21 W to 64 N 21 W	09.07.1993	

	Where	Record created	Comments
33	N. Atlantic 56 N 22 W to 64 N 22 W	09.07.1993	
34	N. Atlantic 56 N 20 W to 64 N 23 W	09.07.1993	
35	N. Atlantic 47-60 N along 20 W	18.05.1993	
36	N. Atlantic 72N	8W	01.06.1994
37	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
38	N. Atlantic 59-64 N along 20 W	09.07.1993	
39	N. Atlantic 0-60 N 0-56 W	27.06.1997	
40	N. Atlantic 47-60 N along 20 W	18.05.1993	
41	N. Atlantic 47N 20 W	20.11.1996	
42	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
43	North Atlantic, 33-60 N, along 20 W	26.12.1993	
44	Atlantic and Mediterranean waters	27.06.1997	Cruise Reference 89001711
45	Prince Edward Islands	26.01.1994	
46	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
47	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
48	North Atlantic, 33-50 N, along 20 W	26.12.1993	
49	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
50	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
51	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
52	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
53	WOCE line SR2/A12 (South Africa to Antarctica)	22.04.1999	
54	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
55	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
56	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
57	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
58	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
59	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
60	N. Atlantic 32-47 N 40-62 W	01.06.1994	
61	N. Atlantic 48-50 N, 18-22 W	18.05.1993	
62	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
63	N. Atlantic 33-60 N, along 20 W	26.12.1993	
64	N. Atlantic 48-50 N, 16-20 W	18.05.1993	
65	E. Atlantic 25S 9E to 54N 6W	01.06.1994	Related cruise: JGOFS PI R. Reuther
66	N. Atlantic at 31.8 N 64.2 W	07.09.1993	

	Where	Record created	Comments
67	N. Atlantic 47-60 N along 20 W	18.05.1993	
68	N. Atlantic 46-49 N, 15-19 W	18.05.1993	
69	N. Atlantic 34N to 40N along 20W	20.11.1996	
70	North Atlantic, 40-58 N, along 20 W	26.12.1993	
71	N Atlantic 46-49 N, 14-18 W	18.05.1993	
72	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
73	Line AR7E (Greenland to Ireland)	21.04.1999	
74	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
75	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
76	72N 5W	20.11.1996	
77	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
78	N Atlantic 20-47 N along 20 W	18.05.1993	
79	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
80	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
81	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
82	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
83	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
84	N. Atlantic 0-60 N 0-56 W	07.05.1997	
85	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
86	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
87	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
88	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
89	N Atlantic 36-44 N 62-65 W	01.06.1994	
90	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
91	Line AR7E (Greenland to Ireland)	21.04.1999	
92	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
93	N. Atlantic survey 39N to 48N 10W to 28W including section along 20W	30.12.1993	Physics plus some Level 1s
94	N. Atlantic at 31.8 N 64.2 W	26.03.1997	
95	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
96	N. Atlantic survey 48N to 53N 10W to 35W including section along 20W	30.12.1993	Physics plus some Level 1s
97	N Atlantic 55-63 N along 20 W, 61N 23 W & 61 N 15 W	18.05.1993	
98	N. Atlantic at 31.8 N 64.2 W	07.09.1993	
99	N Atlantic 60-62 N along 20 W	18.05.1993	
100	N. Atlantic at 31.8 N 64.2 W	07.09.1993	

	Where	Record created	Comments	
101	N. Atlantic at 31.8 N 64.2 W	07.09.1993		
102	N. Atlantic at 31.8 N 64.2 W	07.09.1993		
103	Off coast Mauritania at 18-20N 20-23 W	14.03.1997		
104	N. Atlantic at 31.8 N 64.2 W	18.03.1997		
105	N. Atlantic at 31.8 N 64.2 W	18.03.1997		
106	Canary Islands, 29N 15W	01.06.1994		
107	N. Atlantic at 31.8 N 64.2 W	26.03.1997		
108	Central Atlantic 28N 33W to 18N 68W	01.06.1994	Related cruise: JGOFS PI S. Kempe	
109	N. Atlantic at 31.8 N 64.2 W	18.03.1997		
110	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
111	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
112	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
113	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
114	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
115	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
116	N. Atlantic 47N 20W	01.06.1994		
117	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
118	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
119	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
120	N. Atlantic 47N 20W	01.06.1994		
121	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
122	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
123	N. Atlantic section 20W, 34-60N	01.06.1994		
124	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
125	Northeast Atlantic 29N to 18N 32W to 15W	29.12.1993	Cruise Reference 92000511 & 92000512	
126	WOCE LINE AR7W (Greenland-Labrador)	21.04.1999		
127	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
128	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
129	Iceland/Norway/Svalbard	01.06.1994	Related cruise: JGOFS PI S. Kempe	
130	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
131	Trans-Atlantic Transect	26.12.1993		
132	Gulf of St. Lawrence	02.04.1997		
133	N. Atlantic section 20W 59-47N	01.06.1994		

	Where	Record created	Comments	
134	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
135	N. Atlantic	at 49N 16.3W	30.12.1993	BOFS follo
136	Gulf of St. Lawrence	02.04.1997		
137	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
138	N. Atlantic 28-44 N 10-55 W (Transect Nova Scotia-Marocco)	01.06.1994		
139	Canary Islands 29N 15W	01.06.1994		
140	Gulf of St. Lawrence	02.04.1997		
141	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
142	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
143	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
144	N. Atlantic at 31.8 N 64.2 W	05.11.1993		
145	Northeast Atlantic 30N to 10N 40W to 10W	29.12.1993	Cruise Reference 92006111	
146	Gulf of St. Lawrence	02.04.1997		
147	SANAE-Cape Town WOCE, JGOFS line A12SR2	26.01.1994		
148	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
149	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
150	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
151	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
152	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
153	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
154	Canary Islands 29N 15W	01.06.1994		
155	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
156	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
157	Channel/Iberian slope 2E-11W 42-52N	31.03.1998		
158	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
159	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
160	NW Atlantic (Scotia Shelf, 43N 62W)	01.06.1994		
161	WOCE line AR16	21.04.1999		
162	N Atlantic 24-44 N 10-56 W	01.06.1994		
163	N.Atlantic 47N 20W, 54N 21W	01.06.1994		
164	Gulf of St. Lawrence	02.04.1997		
165	P.Martens	N.Atlantic 47N 20W	01.06.1994	
166	N.Atlantic 47N 20W	01.06.1994		
167	N. Atlantic at 31.8 N 64.2 W	02.11.1993		

	Where	Record created	Comments	
168	NE Atlantic 5-15 W 45-50 N	31.03.1998		
169	NE Atlantic 5-15 W 45-50 N	31.03.1998		
170	Equatorial Atlantic 4S to 13N along 25W	24.09.1993		
171	Gulf of St. Lawrence	03.04.1997		
172	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
173	Canary Islands	26.12.1993		
174	Eastern North Atlantic 32N 18W to 15N 29W	24.09.1993		
175	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
176	Eastern North Atlantic 34N to 63N along 20W	24.09.1993		
177	N.Atlantic section near 20W 34-60N	01.06.1994		
178	N. Atlantic at 31.8 N 64.2 W	02.11.1993		
179	NE Atlantic 5-15W 45-50N	31.03.1998		
180	N. Atlantic at 31.8 N 64.2 W	08.10.1997		
181	N. Atlantic at 31.8 N 64.2 W	21.03.1997		
182	E. Atlantic 45N 13W to 57S 10E to 44S 15E	01.06.1994	Related cruise: JGOFS PI	R. Reuther
183	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
184	WOCE line AR16	21.04.1999		
185	Gulf of St. Lawrence	03.04.1997		
186	N. Atlantic at 31.8 N 64.2 W	08.10.1997		
187	North Atlantic 23N to 40N	30.12.1993	Mir submersibles available	
188	N Atlantic 47 N 60 W and 43 N 50 W			
189	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
190	NE Atlantic 2-35W 23-52N	31.03.1998		
191	NE Atlantic 5-15 W 45-50 N	01.06.1994		
192	NW Atlantic (Gulf of Maine)	03.04.1997		
193	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
194	NE Atlantic 5-15W 45-50N	31.03.1998		
195	N.Atlantic 47N 20W	01.06.1994		
196	N. Atlantic at 31.8 N 64.2 W	08.10.1997		
197	NE Atlantic 20.1N 15.3 W	22.05.1998		
198	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
199	Atlantic section 37N-10S along 30W	01.06.1994	Related cruise: JGOFS PIS. Kempe	
200	N. Atlantic at 31.8 N 64.2 W	25.03.1997		
201	NW Atlantic (Gulf of Maine)	03.04.1997		

	Where	Record created	Comments	
202	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
203	NE Atlantic 20.1N 15.3 W	22.05.1998		
204	NW Atlantic	03.04.1997		
205	NW Atlantic (Gulf of Maine)	03.04.1997		
206	N. Atlantic at 31.8 N 64.2 W	25.03.1997		
207	NE Atlantic 5-15W 45-50N	31.03.1998		
208	Gulf of St. Lawrence	03.04.1997		
209	NW Atlantic (Gulf of Maine)	03.04.1997		
210	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
211	NE Atlantic 5-15W 45-50N	31.03.1998		
212	NE Atlantic 20.1N 15.3 W	20.05.1998		
213	NE Atlantic 20.1N 15.3 W	22.05.1998		
214	N. Atlantic at 31.8 N 64.2 W	25.03.1997		
215	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
216	NE Atlantic 5-15W 45-50N	31.03.1998		
217	N. Atlantic at 31.8 N 64.2 W	24.03.1997	01.06.1994	
218	NE Atlantic 20.1N 15.3 W	22.05.1998		
219	N. Atlantic at 31.8 N 64.2 W	25.03.1997		
220	Eastern boundary along the western-european continental shelf	18.10.1996	Mainly Mooring	
221	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
222	Gulf of St. Lawrence	03.04.1997		
223	NE Atlantic 20.1N 15.3 W	22.05.1998		
224	Gulf of St. Lawrence	03.04.1997		
225	N. Atlantic at 31.8 N 64.2 W	08.10.1997		
226	NE Atlantic 20.1N 15.3 W	22.05.1998		
227	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
228	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
229	North eastern Atlantic	20.11.1996		
230	NE Atlantic 20.1N 15.3 W	22.05.1998		
231	N. Atlantic	11-16 W 38-50 N	20.11.1996	
232	NW Atlantic (Newfoundland shelf)	03.04.1997		
233	North east Atlantic	20.11.1996	Mainly Mooring	
234	N. Atlantic at 31.8 N 64.2 W	24.03.1997		
235	NE Atlantic 20.1N 15.3 W	22.05.1998		
236	N. Atlantic at 31.8 N 64.2 W	08.10.1997		

	Where	Record created	Comments
237	NE Atlantic 20.1N 15.3 W	22.05.1998	
238	WOCE line A02 (50N 10W to 40N 50W)	27.04.1999	
239	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
240	NE Atlantic 20.1N 15.3 W	22.05.1998	
241	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
242	Line AR7E (Ireland to Greenland)	21.04.1999	
243	NE Atlantic 20.1N 15.3 W	22.05.1998	
244	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
245	NW Atlantic (Gulf of Maine)	03.04.1997	
246	NE Atlantic 20.1N 15.3 W	22.05.1998	
247	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
248	NE Atlantic 20.1N 15.3 W	22.05.1998	
249	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
250	NW Atlantic (Gulf of Maine)	03.04.1997	
251	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
252	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
253	NE Atlantic 5-15W 45-50N	31.03.1998	
254	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
255	N. Atlantic at 31.8 N 64.2 W	08.10.1997	
256	Porcupine Bank/SeaBight, 5-15W 50-55N	31.03.1998	
257	NE Atlantic 20.1N 15.3 W	22.05.1998	
258	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
259	NW Atlantic	03.04.1997	
260	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
261	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
262	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
263	NE Atlantic 20.1N 15.3 W	20.05.1998	
264	NE Atlantic 20.1N 15.3 W	22.05.1998	
265	NE Atlantic 5-15W 45-50N	31.03.1998	
266	NE Atlantic 20.1N 15.3 W	22.05.1998	
267	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
268	Porcupine Bank/SeaBight, 5-15W 50-55N	31.03.1998	
269	N. Atlantic 47N 20W	20.11.1996	

	Where	Record created	Comments
270	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
271	N. Atlantic 53N 20W	20.11.1996	
272	NE Atlantic 5-15W 45-50N	31.03.1998	
273	N. Atlantic at 31.8 N 64.2 W	08.10.1997	
274	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
275	NE Atlantic 5-15W 45-50N	31.03.1998	
276	NE Atlantic 20.1N 15.3 W	22.05.1998	
277	North eastern Atlantic	20.11.1996	
278	NE Atlantic 5-15W 45-50N	31.03.1998	
279	NE Atlantic 5-15W 45-50N	31.03.1998	
280	N. Atlantic at 31.8 N 64.2 W	25.03.1997	
281	N. Atlantic 34N 20W	01.06.1994	
282	NW Atlantic (Newfounland shelf)	03.04.1997	
283	Shelf off Tagos River, 8-10W 38-39N	31.03.1998	
284	NE Atlantic 5-15W 45-50N	31.03.1998	
285	NE Atlantic 20.1N 15.3 W	20.05.1998	
286	NE Atlantic 20.1N 15.3 W	22.05.1998	
287	NE Atlantic 20.1N 15.3 W	22.05.1998	
288	NE Atlantic 20.1N 15.3 W	22.05.1998	
289	N. Atlantic at 31.8 N 64.2 W	26.03.1997	
290	NE Atlantic 5-15W 45-50N	31.03.1998	
291	N. Atlantic at 31.8 N 64.2 W	08.10.1997	
292	N. Atlantic at 31.8 N 64.2 W	26.03.1997	
293	NE Atlantic 20.1N 15.3 W	22.05.1998	
294	N. Atlantic at 31.8 N 64.2 W	26.03.1997	
295	NW Atlantic (Gulf of Maine)	03.04.1997	
296	NE Atlantic 20.1N 15.3 W	20.05.1998	
297	N. Atlantic at 31.8 N 64.2 W	26.03.1997	
298	NE Atlantic 20.1N 15.3 W	20.05.1998	
299	N. Atlantic at 31.8 N 64.2 W	26.03.1997	
300	N. Atlantic at 31.8 N 64.2 W	26.03.1997	
301	NE Atlantic 20.1N 15.3 W	22.05.1998	
302	N. Atlantic at 31.8 N 64.2 W	26.03.1997	
303	N. Atlantic at 31.8 N 64.2 W	26.03.1997	

	Where	Record created	Comments	
304	N. Atlantic at 31.8 N 64.2 W	26.03.1997		
305	N. Atlantic at 31.8 N 64.2 W	26.03.1997		
306	NE Atlantic 20.1N 15.3 W	22.05.1998		
307	N. Atlantic at 31.8 N 64.2 W	26.03.1997		
308	NE Atlantic 20.1N 15.3 W	20.05.1998		
309	Transect Bermuda to Las Palmas	18.10.1996	pCO2 intercalibration exercise	
310	N. Atlantic at 31.8 N 64.2 W	26.03.1997		
311	NE Atlantic	03.03.1998		
312	NE Atlantic 20.1N 15.3 W	22.05.1998		
313	Transect on 20W from 32N to 60 N (Las Palmas to Bergen)	18.10.1996		
314	NE Atlantic 20.1N 15.3 W	22.05.1998		
315	N. Atlantic at 31.8 N 64.2 W	16.04.1998		
316	Bergen (Norway) to Rykjavik (Iceland)	18.10.1996		
317	North Atlantic 5 - 35° N and 50 - 15° W	23.11.1998		
318	N. Atlantic at 31.8 N 64.2 W	16.04.1998		
319	BENGAL station; transect to 48N 11W	18.10.1996		
320	NE Atlantic 20.1N 15.3 W	22.05.1998		
321	N. Atlantic at 31.8 N 64.2 W	16.04.1998		
322	BIOTRANS (47N 20W) and BENGAL (49N 16.5 W)	18.10.1996		
323	NE Atlantic 20.1N 15.3 W	22.05.1998		
324	N. Atlantic at 31.8 N 64.2 W	16.04.1998		
325	BIOTRANS (47N 20W) and BENGAL (49N 16.5W)	18.10.1996	Benthic working programme	
326	WOCE line AR7W (Greenland-Labrador)	21.04.1999		
327	NE Atlantic 20.1N 15.3 W	22.05.1998		
328	N. Atlantic at 31.8 N 64.2 W	16.04.1998		
329	N. Atlantic at 31.8 N 64.2 W	16.04.1998		
330	NE Atlantic 20.1N 15.3 W	22.05.1998		
331	NE Atlantic 20.1N 15.3 W	20.05.1998		
332	NE Atlantic 20.1N 15.3 W	22.05.1998		
333	N. Atlantic at 31.8 N 64.2 W	16.04.1998		
334	NE Atlantic 20.1N 15.3 W	22.05.1998		
335	NE Atlantic 20.1N 15.3 W	22.05.1998		
336	NE Atlantic 20.1N 15.3 W	22.05.1998		
337	N. Atlantic 45-49N, 15-20W	09.06.1998		

	Where	Record created	Comments
338	NE Atlantic 20.1N 15.3 W	20.05.1998	
339	NE Atlantic 20.1N 15.3 W	20.05.1998	
340	WOCE line AR7W (Greenland-Labrador)	21.04.1999	
341	NE Atlantic, off Iberian Peninsula 41.3-43N 10W	31.03.1998	
342	NE Atlantic 20.1N 15.3 W	22.05.1998	
343	NE Atlantic 41.3-43N 9.3-10W	31.03.1998	
344	NE Atlantic 20.1N 15.3 W	22.05.1998	
345	NE Atlantic 20.1N 15.3 W	22.05.1998	
346	BIOTRANS (47N 20W)	23.09.1997	
347	German JGOFS Mooring L1 (33N,22W)	23.09.1997	Mooring service and other non-JGOFS moorings
348	WOCE line A22	21.04.1999	
349	NE Atlantic 20.1N 15.3 W	22.05.1998	
350	NE Atlantic 20.1N 15.3 W	20.05.1998	
351	NE Atlantic 20.1N 15.3 W	22.05.1998	
352	NE Atlantic 20.1N 15.3 W	22.05.1998	
353	NE Atlantic 20.1N 15.3 W	22.05.1998	
354	NE Atlantic 20.1N 15.3 W	22.05.1998	
355	NE Atlantic (Iberian Margin) 41-43°N 8.5-10W	31.03.1998	
356	NE Atlantic (Iberian Margin) 41-43°N 8.5-10W	31.03.1998	
357	WOCE line AR1	21.04.1999	
358	N. Atlantic at 31.8 N 64.2 W	08.09.1998	
359	NE Atlantic 20.1N 15.3 W	22.05.1998	
360	N. Atlantic at 31.8 N 64.2 W	08.09.1998	
361	N. Atlantic at 31.8 N 64.2 W	08.09.1998	
362	NE Atlantic 20.1N 15.3 W	22.05.1998	
363	N. Atlantic at 31.8 N 64.2 W	08.09.1998	
364	N. Atlantic 37-42.3N along 23W	21.06.1999	
365	N. Atlantic at 31.8 N 64.2 W	08.09.1998	
366	NE Atlantic 20.1N 15.3 W	20.05.1998	Mooring service and other non-JGOFS moorings
367	NE Atlantic 20.1N 15.3 W	22.05.1998	
368	N. Atlantic at 31.8 N 64.2 W	08.09.1998	
369	NE Atlantic 20.1N 15.3 W	20.05.1998	Mooring service and other non-JGOFS moorings
370	N. Atlantic at 31.8 N 64.2 W	08.09.1998	
371	N. Atlantic at 31.8 N 64.2 W	08.09.1998	

	Where	Record created	Comments	
372	NE Atlantic 20.1N 15.3 W	20.05.1998	Mooring service and other non-JGOFS moorings	
373	NE Atlantic 20-36N along 21W, 36-63N along 20W, Rockall Trough	09.06.1998		
374	N. Atlantic at 31.8 N 64.2 W	08.09.1998		
375	N. Atlantic at 31.8 N 64.2 W	08.09.1998		
376	WOCE line AR7W (Greenland-Labrador)	21.04.1999		
377	N. Atlantic at 31.8 N 64.2 W	08.09.1998		
378	N. Atlantic at 31.8 N 64.2 W	08.09.1998		

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