

**DISSOLVED INORGANIC CARBON SPECIES AND RELATED
CHEMISTRY OF THE NORTH ATLANTIC OCEAN
RESULTS OF THE TRANSIENT TRACERS IN THE OCEANS,
NORTH ATLANTIC STUDY, 1980-1981**

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**CARBON DIOXIDE PROJECT OF THE
GEOLOGICAL RESEARCH DIVISION OF THE
SCRIPPS INSTITUTION OF OCEANOGRAPHY,
UNIVERSITY OF CALIFORNIA, SAN DIEGO**

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Progress Report

Transient Tracers in the Ocean

North Atlantic Study, 1980-1981

The Carbon Dioxide Group of the Scripps Institution of Oceanography participated in the North Atlantic Ocean portion of the Transient Tracers in the Ocean (TTO-NAS or TTNA) program aboard the United States R.V. Knorr in October/November, 1980, for procedure testing, and from April to October, 1981. The ship's track for the TTO-NAS program was quite complex. Our group chose to sample that part of the ship's track which repeated the original GEOSECS 1972 line from its northern limit to its southern (75°N, 1°W, TTNA Stn 148 to 15°N, 54°W, TTNA Stn 32), with a spacing of approximately 3 to 5° between stations. Two hundred six pairs of bottles were collected for analyses of dissolved inorganic carbon (DIC) and carbon isotopic ratios. These samples included one surface sample at each of 57 of the 59 stations, and numerous, typically 9 or 10, subsurface sample pairs at each of 18 of the 59 stations.

In the tables below, we report DIC data for all 206 bottle pairs. Data were obtained primarily by using a constant volume mercury manometer, although a few samples were analyzed with a quartz spiral manometer. The spiral manometer was calibrated by measuring a series of samples that had been measured previously on the primary constant volume manometer.

The DIC data presented here provide a useful first highly-accurate record of the amount of carbon in the North Atlantic Ocean. Thus, these data provide the basis for observing future oceanic carbon changes as small as 1 or 2 $\mu\text{M}/\text{kg}$.

The Physical and Chemical Oceanographic Facility (PCODF) at Scripps Institution of Oceanography has made available salinity data both for subsamples taken at the time of shipboard collection and for subsamples we took subsequently, at the time of extraction of DIC from the sea water in the laboratory. These

comparative data, presented in Table 9, provide a check on whether the sea water contained in our sample bottles underwent evaporation during storage, as well as a check on salinity data obtained at sea.

Selected other data, including sample locations and depths, and DIC, temperature, oxygen, phosphate, nitrate and alkalinity, were obtained from PCODF in March, 1984. These data have been used to calculate the derived quantities that are presented in Tables 14 and 16 and explained in Table 15.

Dr. Ray Weiss of Scripps obtained sea water pCO₂ data at 30 minute intervals during a large part of the TTO-NAS expedition by using a shipboard equilibrator. Dr. Weiss kindly allowed us to enter his equilibrator data into our VAX 11/750 computer in March, 1985. From the Weiss data, we were able to determine corresponding pCO₂ data for 54 of our TTO-NAS surface water DIC samples by matching or cautiously interpolating sampling times for the two data sets. These pCO₂ data are presented in Table 13.

Since 1978, Dr. Willem Mook of the Isotopic Physics Laboratory in Gröningen, The Netherlands, has cooperated with our laboratory in carbon and oxygen isotope studies. Data for 194 pairs are presented in Tables 10, 11 and 12. We have determined that samples shipped to The Netherlands in 'short' tubes or transferred to 'short' tubes, instead of in 'long' tubes or flame-off tubes, have an associated systematic error. In this report, corrections have been applied to the C¹³/C¹² ratio data amounting to -0.06 for short tubes and -0.13 for transfers.

Extensive overlap in data will be noted between the various tables in this report. Our laboratory maintains a large data base for seawater data obtained from 11 expeditions and 4 fixed locations. The programs that manage and manipulate this data base have been written to provide output at each step that involves merging new data and calculating new entities to allow for review of selected aspects of the data. All output computer files that have been generated for the TTO North Atlantic Study are presented here to document fully our data management system. The tables are presented in the order that they are generated in working up the results for an expedition. The final four tables, Nos. 13 to 16, are of the greatest general interest.

We wish to thank Mr. Robert Williams for making the PCODF data available to us, Dr. Ray Weiss for making the equilibrator pCO₂ data available to us, and Dr. Willem Mook of the Isotopic Physics Laboratory in Gröningen for his cooperation in the isotope work.

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 1. CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	STN LEG	CAST NISKIN	BOTTLE TYPE	RUN SUBRUN	ALIQWT (G)	EXTRAC DATE	VACUUM COL HT	SAMPLE COL HT	MENISC CORR	VOL T(C)	ANALYS ID	EXTRAC BK PG	MANOM BK PG	SEA OBS	RUN REMARKS		
416	1	TTNA	0	3	5	44	289PA	46.380	810127	868.300	374.700	-.344	22.10	0	810128	3 95	24 149	XLNT
417	1	TTNA	0	3	5	44	289PB	44.782	810127	851.737	374.728	-.344	22.34	0	810128	3 95	24 151	XLNT
418	1	TTNA	0	3	5	44	290PA	41.666	810128	820.314	374.717	-.344	21.97	0	810129	3 97	25 3	VERY GOOD
419	1	TTNA	0	3	5	44	290PB	42.875	810128	832.136	374.724	-.344	22.47	0	810129	3 97	25 5	XLNT
420	1	TTNA	0	3	5	45	287PA	43.365	810129	834.764	374.730	-.344	22.72	0	810129	3 99	25 7	XLNT
421	1	TTNA	0	3	5	45	287PB	42.895	810129	828.740	374.756	-.344	22.07	0	810130	3 99	25 9	OK
422	1	TTNA	0	3	5	48	285PA	43.370	810200	832.968	374.896	-.374	22.17	0	810200	3 101	25 23	XLNT
423	1	TTNA	0	3	5	48	285PB	44.799	810200	848.577	374.860	-.374	22.62	0	810200	3 101	25 25	XLNT
424	1	TTNA	0	3	5	47	283PA	42.896	810210	828.675	374.868	-.374	22.59	0	810210	3 103	25 27	XLNT
425	1	TTNA	0	3	5	47	283PB	42.845	810210	828.090	374.880	-.374	22.53	0	810211	3 103	25 29	XLNT
426	1	TTNA	0	3	5	46	281PA	43.952	810211	840.572	374.907	-.374	22.88	0	810211	3 105	25 31	FAIR
427	1	TTNA	0	3	5	46	281PB	44.668	810211	847.356	374.888	-.374	22.46	0	810212	3 105	25 33	VERY GOOD
428	1	TTNA	0	3	5	42	279PA	44.428	810212	843.066	374.896	-.374	21.75	0	810212	3 107	25 35	VERY GOOD
429	1	TTNA	0	3	5	42	279PB	44.945	810212	848.152	374.918	-.374	21.59	0	810212	3 107	25 37	FAIR
430	1	TTNA	0	3	5	41	278PA	41.668	810213	812.755	374.908	-.374	21.13	0	810213	3 109	25 39	XLNT
431	1	TTNA	0	3	5	41	278PB	42.611	810213	823.126	374.902	-.374	21.43	0	810214	3 109	25 41	VERY GOOD
432	1	TTNA	0	13	3	33	303P	42.907	810217	826.790	374.867	-.374	21.73	0	810217	3 112	25 43	XLNT
433	1	TTNA	0	13	3	33	304P	42.860	810217	826.702	374.912	-.374	21.89	0	810217	3 112	25 45	OK
434	1	TTNA	0	13	3	21	301P	43.354	810218	827.771	374.902	-.374	21.28	0	810218	3 114	25 47	OK
435	1	TTNA	0	13	3	21	302P	44.719	810218	842.108	374.914	-.374	21.30	0	810219	3 114	25 49	XLNT
436	1	TTNA	0	13	3	12	299P	44.689	810219	844.642	374.916	-.374	21.43	0	810220	3 116	25 51	XLNT
437	1	TTNA	0	13	3	12	300P	44.948	810219	847.654	374.915	-.374	21.60	0	810220	3 116	25 53	XLNT
438	1	TTNA	0	13	3	02	297P	41.692	810223	786.084	374.902	-.374	21.75	0	810223	3 118	25 55	VERY GOOD
439	1	TTNA	0	13	3	02	298P	42.655	810223	795.986	374.942	-.374	21.91	0	810224	3 118	25 57	FAIR
440	1	TTNA	0	13	3	02	298P	42.655	810223	796.057	374.920	-.374	21.97	0	810224	3 118	25 58	VERY GOOD
468	1	TTNA	0	23	3	02	305P	44.688	810330	805.038	374.946	-.374	21.58	0	810330	3 147	25 111	VERY GOOD
469	1	TTNA	0	23	3	02	306P	44.968	810330	812.271	374.994	-.374	21.62	0	810331	3 147	25 113	XLNT
470	1	TTNA	0	23	3	16	307P	44.448	810331	838.610	375.006	-.374	21.49	0	810331	3 149	25 114	XLNT
471	1	TTNA	0	23	3	16	308P	43.968	810331	838.448	375.001	-.374	21.50	0	810401	3 149	25 117	XLNT
472	1	TTNA	0	4	2	02	293P	42.698	810401	794.162	374.990	-.374	21.71	0	810402	3 151	25 121	XLNT
473	1	TTNA	0	4	2	02	294P	42.948	810401	796.412	375.010	-.374	21.57	0	810402	3 151	25 119	XLNT
474	1	TTNA	0	4	2	24	295P	42.893	810402	826.604	374.998	-.374	21.52	0	810402	4 4	25 123	XLNT
475	1	TTNA	0	4	2	24	296P	43.387	810402	831.785	375.016	-.374	21.48	0	810403	4 4	25 125	XLNT
541	1	TTNA	1	1	2	27	309P	43.400	810528	815.544	374.970	-.358	21.49	0	810527	4 74	26 106	XLNT

CODE (SAMPLE CODE):

- 1 = SAMPLE ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER ONLY
- 2 = QUARTZ SPIRAL MANOMETER CALIBRATION STANDARD
- 4 = SAMPLE ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS (DOES NOT QUALIFY AS A STANDARD)
- 8 = SAMPLE NOT ANALYZED
- 9 = PEREMPTORILY-REJECTED SAMPLE

BOTTLE TYPE:

P = PYREX

VOL ID (MANOMETER CHAMBER VOLUME I.D.):

0 = 3.7974 CC

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 1 (CONT.). CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	LEG	STN	CAST	BOTTLE	RUN	ALIQUOT	EXTRAC	VACUUM	SAMPLE	MENISC	VOL	ANALYS	EXTRAC	MANOM	SEA	RUN	REMARKS		
				NISKIN	TYPE	SUBRUN	(G)	DATE	COL HT	COL HT	CORR	T(C)	ID	BK	PG	BK	PG	OBS		
542	1	TTNA	1	1	2	27	310P	44.822	810528	831.472	374.960	-.358	21.69	0	810529	4	74	26	108	XLNT
543	1	TTNA	1	3	1	01	311P	46.419	810601	848.379	374.978	-.358	21.63	0	810601	4	76	26	110	VERY GOOD
544	1	TTNA	1	3	1	01	312P	44.035	810601	823.681	374.978	-.358	21.34	0	810602	4	76	26	112	XLNT
545	1	TTNA	1	5	2	01	313P	42.966	810602	796.742	374.962	-.358	20.95	0	810603	4	78	26	114	XLNT
546	1	TTNA	1	5	2	01	314P	42.716	810602	795.307	374.971	-.358	21.74	0	810603	4	78	26	116	XLNT
547	1	TTNA	1	6	2	01	315P	41.742	810603	785.135	374.964	-.358	21.87	0	810603	4	80	26	118	XLNT
548	1	TTNA	1	6	2	01	316P	43.446	810603	800.477	375.002	-.358	21.10	0	810603	4	80	26	120	XLNT
549	1	TTNA	1	7	3	01	318P	45.682	810604	830.474	374.993	-.358	21.32	0	810605	4	82	26	122	XLNT
550	1	TTNA	1	8	3	01	319P	44.501	810604	818.550	374.984	-.358	21.94	0	810605	4	82	26	124	XLNT
551	1	TTNA	1	8	3	01	320P	42.953	810608	803.658	374.985	-.358	22.16	0	810608	4	85	26	126	XLNT
552	1	TTNA	1	11	2	01	321P	44.777	810608	821.139	374.989	-.358	21.91	0	810609	4	85	26	128	XLNT
553	1	TTNA	1	11	2	01	322P	42.971	810609	803.424	375.026	-.358	22.06	0	810609	4	87	26	130	XLNT
554	1	TTNA	1	13	1	09	324P	46.442	810609	829.500	374.988	-.358	22.15	0	810609	4	87	26	132	FAIR
555	1	TTNA	1	13	1	09	324P	46.442	810609	828.133	374.988	-.358	21.33	0	810610	4	87	26	133	XLNT
556	1	TTNA	2	15	2	01	341P	41.743	810610	786.894	374.988	-.358	21.84	0	810610	4	89	26	135	FAIR
557	1	TTNA	2	15	2	01	342P	43.435	810610	803.900	374.988	-.358	22.13	0	810610	4	89	26	137	XLNT
558	1	TTNA	2	16	2	01	343P	45.678	810610	820.752	374.980	-.358	21.39	0	810611	4	89	26	139	OK
559	1	TTNA	2	16	2	01	344P	44.494	810610	810.106	374.994	-.358	21.84	0	810611	4	89	26	141	XLNT
560	1	TTNA	2	20	2	01	345P	42.729	810611	798.002	375.004	-.358	22.00	0	810611	4	92	26	143	XLNT
561	1	TTNA	2	20	2	01	346P	44.031	810611	811.088	374.982	-.358	22.28	0	810611	4	92	26	145	XLNT
562	1	TTNA	2	22	1	01	347P	42.938	810612	796.848	375.014	-.358	21.50	0	810612	4	94	26	147	FAIR
563	1	TTNA	2	22	1	01	348P	43.344	810612	801.636	374.978	-.358	22.24	0	810612	4	94	26	149	VERY GOOD
564	1	TTNA	2	24	2	01	445P	46.448	810615	833.210	374.998	-.358	22.16	0	810615	4	96	26	151	VERY GOOD
565	1	TTNA	2	24	2	01	446P	44.775	810615	813.980	374.964	-.358	21.64	0	810616	4	98	27	3	VERY GOOD
566	1	TTNA	2	26	2	01	447P	45.693	810616	821.110	374.964	-.358	23.18	0	810616	4	98	27	5	VERY GOOD
567	1	TTNA	2	28	3	01	450P	44.466	810616	804.060	374.974	-.358	23.82	0	810616	4	98	27	7	OK
568	1	TTNA	2	29	1	01	451P	41.723	810617	777.894	374.994	-.358	23.61	0	810617	4	100	27	9	VERY GOOD
569	1	TTNA	2	29	1	01	452P	43.420	810617	796.024	374.978	-.358	24.76	0	810617	4	100	27	11	OK
570	1	TTNA	2	32	2	01	493P	43.288	810618	780.450	374.968	-.358	23.25	0	810618	4	102	27	13	VERY GOOD
571	1	TTNA	2	32	2	01	494P	42.651	810618	773.547	374.982	-.358	22.16	0	810619	4	102	27	15	XLNT
572	1	TTNA	2	32			495P	42.883	810619	777.061	374.970	-.358	23.33	0	810619	4	104	27	17	XLNT
573	1	TTNA	2	32			496P	43.964	810619	787.716	374.970	-.358	23.69	0	810619	4	104	27	19	XLNT
574	1	TTNA	2	32	3	44	497P	44.442	810622	845.822	374.983	-.358	22.92	0	810622	4	106	27	21	VERY GOOD
575	1	TTNA	2	32	3	44	498P	44.713	810622	847.280	374.975	-.358	22.10	0	810623	4	106	27	23	VERY GOOD

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TABLE 1 (CONT.). CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	LEG	STN	CAST	BOTTLE TYPE	RUN SUBRUN	ALIQUOT (G)	EXTRAC DATE	VACUUM COL HT	SAMPLE COL HT	MENISC CORR	VOL T(C)	ANALYS DATE	EXTRAC BK PG	MANOM BK PG	SEA OBS	RUN REMARKS	
576	1	TTNA	2	32	4	41	499P	43.353	810623	812.604	374.973	-.358	23.49	0	810623	4 108	27 25	OK
577	1	TTNA	2	32	4	41	500P	42.744	810623	806.918	374.970	-.358	23.65	0	810624	4 108	27 27	VERY GOOD
578	1	TTNA	2	32	4	43	565P	41.745	810624	811.634	374.968	-.358	26.20	0	810624	4 110	27 30	OK
579	1	TTNA	2	32	4	43	566P	44.558	810624	837.184	374.974	-.358	24.89	0	810625	4 110	27 32	VERY GOOD
580	1	TTNA	2	38		0	599P	42.918	810626	802.046	375.016	-.358	22.21	0	810626	4 112	27 34	OK
581	1	TTNA	2	38		0	600P	43.428	810626	807.366	374.982	-.358	22.60	0	810626	4 112	27 36	OK
582	1	TTNA	2	38	2	01	601P	46.456	810629	836.328	375.003	-.358	22.00	0	810629	4 114	27 38	OK
583	1	TTNA	2	38	2	01	602P	45.698	810629	828.816	375.001	-.358	21.97	0	810630	4 114	27 40	XLNT
584	1	TTNA	2	38	2	02	603P	44.511	810629	817.652	374.998	-.358	22.36	0	810630	4 113	27 42	XLNT
585	1	TTNA	2	38	2	02	604P	44.059	810630	813.141	375.008	-.358	22.56	0	810630	4 118	27 44	XLNT
586	1	TTNA	2	38	2	03	381P	44.787	810630	823.038	374.982	-.358	21.97	0	810701	4 116	27 46	XLNT
587	1	TTNA	2	38	2	03	382P	41.753	810701	793.358	374.998	-.358	22.33	0	810701	4 118	27 48	XLNT
588	1	TTNA	2	38	2	05	384P	42.705	810701	808.680	375.001	-.358	22.18	0	810702	4 118	27 50	XLNT
589	1	TTNA	2	38	2	07	385P	44.547	810706	830.488	374.968	-.358	23.36	0	810706	4 121	27 52	VERY GOOD
590	1	TTNA	2	38	2	07	386P	45.676	810706	840.920	375.012	-.358	22.44	0	810707	4 121	27 54	GOOD
591	1	TTNA	2	38	2	10	387P	42.910	810707	830.122	375.004	-.358	23.61	0	810707	4 123	27 56	XLNT
592	1	TTNA	2	38	2	10	388P	43.390	810707	835.580	375.000	-.358	23.78	0	810707	4 123	27 58	XLNT
593	1	TTNA	2	38	2	12	389P	43.966	810708	845.774	375.020	-.358	22.73	0	810708	4 126	27 60	VERY GOOD
594	1	TTNA	2	38	2	12	390P	44.700	810708	852.767	375.012	-.358	22.15	0	810709	4 126	27 62	VERY GOOD
595	1	TTNA	2	38	2	18	391P	43.290	810709	832.705	374.998	-.358	22.60	0	810709	4 128	27 64	XLNT
596	1	TTNA	2	38	2	18	392P	42.654	810709	826.774	375.002	-.358	23.00	0	810709	4 128	27 66	XLNT
597	1	TTNA	2	38	2	20	393P	41.692	810710	817.692	375.016	-.358	22.50	0	810710	4 130	27 68	OK
598	1	TTNA	2	38	2	20	394P	44.444	810710	847.235	375.006	-.358	22.82	0	810710	4 130	27 70	FAIR
599	1	TTNA	2	38	2	22	395P	42.888	810713	831.183	375.074	-.358	22.38	0	810713	4 134	27 72	OK
600	1	TTNA	2	38	2	22	396P	43.390	810713	837.628	375.075	-.358	23.11	0	810713	4 134	27 74	XLNT
601	1	TTNA	2	32	4	44	567P	46.402	810720	862.278	375.034	-.358	22.67	0	810720	4 136	27 77	FAIR
602	1	TTNA	2	32	4	44	568P	45.674	810720	854.384	375.032	-.358	22.53	0	810721	4 136	27 79	FAIR
603	1	TTNA	2	32	4	44	568P	45.674	810720	855.622	375.030	-.358	23.23	0	810721	4 136	27 80	XLNT
604	1	TTNA	2	32	4	45	569P	44.456	810721	847.614	375.028	-.358	22.01	0	810722	4 138	27 82	FAIR
605	1	TTNA	2	32	4	45	570P	44.011	810721	843.626	375.026	-.358	22.37	0	810722	4 138	27 84	VERY GOOD
606	1	TTNA	2	32	4	47	571P	41.679	810722	825.628	375.010	-.358	22.61	0	810722	4 140	27 86	FAIR
607	1	TTNA	2	32	4	47	572P	42.896	810722	837.786	375.018	-.358	21.88	0	810723	4 140	27 88	OK
608	1	TTNA	2	32	5	44	485P	43.372	810722	840.653	375.028	-.358	22.17	0	810723	4 140	27 90	OK
609	1	TTNA	2	32	5	44	486P	43.288	810723	840.044	375.020	-.358	22.45	0	810723	4 142	27 92	XLNT

CODE (SAMPLE CODE):

- 1 = SAMPLE ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER ONLY
- 2 = QUARTZ SPIRAL MANOMETER CALIBRATION STANDARD
- 4 = SAMPLE ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS (DOES NOT QUALIFY AS A STANDARD)
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BOTTLE TYPE:

P = PYREX

VOL ID (MANOMETER CHAMBER VOLUME I.D.):

0 = 3.7974 CC

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 1 (CONT.). CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	LEG	STN	CAST	BOTTLE RUN	ALIQUOT	EXTRAC	VACUUM	SAMPLE	MENISC	VOL	ANALYS	EXTRAC	MANOM	SEA	RUN	REMARKS		
				NISKIN	TYPE	(G)	DATE	COL HT	COL HT	CORR	T(C)	ID	BK	PG	BK	PG	OBS		
610	1	TTNA	2	32	5 45	487P	42.650	810723	824.107	375.026	-.358	22.72	0	810723	4	142	27	94	XLNT
611	1	TTNA	2	32	5 45	488P	44.709	810723	844.405	375.048	-.358	21.93	0	810724	4	142	27	96	XLNT
612	1	TTNA	2	32	5 48	489P	44.432	810727	844.582	375.082	-.358	21.84	0	810727	4	144	27	98	XLNT
613	1	TTNA	2	32	5 48	490P	43.983	810727	839.783	375.064	-.358	21.80	0	810728	4	144	27	100	VERY GOOD
614	1	TTNA	2	34	2 01	491P	46.400	810728	814.443	375.031	-.358	22.15	0	810728	4	146	27	102	XLNT
615	1	TTNA	2	34	2 01	492P	45.641	810728	806.682	375.047	-.358	21.77	0	810729	4	146	27	104	XLNT
616	1	TTNA	2	34	0	477P	41.688	810729	769.618	375.040	-.358	22.03	0	810729	4	148	27	106	XLNT
617	1	TTNA	2	34	0	478P	42.893	810729	781.328	375.080	-.358	22.23	0	810729	4	148	27	108	XLNT
618	1	TTNA	2	34	2 02	479P	43.465	810729	804.018	375.062	-.358	21.56	0	810730	4	148	27	110	VERY GOOD
619	1	TTNA	2	34	2 02	480P	43.375	810730	803.892	375.060	-.358	22.00	0	810730	4	150	27	112	XLNT
620	1	TTNA	2	34	2 04	481P	42.730	810730	810.469	375.046	-.358	22.19	0	810730	4	150	27	114	XLNT
621	1	TTNA	2	34	2 04	482P	44.505	810731	827.476	375.044	-.358	21.75	0	810731	5	2	27	116	XLNT
622	1	TTNA	2	34	2 06	483P	44.041	810731	828.520	375.048	-.358	22.05	0	810731	5	2	27	118	XLNT
623	1	TTNA	2	34	2 06	484P	44.476	810908	833.077	374.816	-.351	22.21	0	810908	5	10	28	108	OK
624	1	TTNA	2	34	2 08	581P	44.012	810908	833.056	374.845	-.351	21.58	0	810909	5	10	28	110	VERY GOOD
625	1	TTNA	2	34	2 08	582P	43.429	810909	826.692	374.816	-.351	21.56	0	810910	5	12	28	112	VERY GOOD
626	1	TTNA	2	34	2 11	583P	43.309	810909	839.843	374.844	-.351	22.39	0	810910	5	12	28	114	XLNT
627	1	TTNA	2	34	2 11	584P	42.657	810910	833.296	374.824	-.351	22.49	0	810910	5	14	28	116	XLNT
628	1	TTNA	2	34	2 13	585P	45.650	810910	864.170	374.834	-.351	21.22	0	810911	5	14	28	118	XLNT
629	1	TTNA	2	34	2 13	586P	41.688	810911	822.790	374.848	-.351	21.76	0	810911	5	16	28	124	OK
630	1	TTNA	2	34	2 18	587P	42.894	810911	826.598	374.840	-.351	22.14	0	810911	5	16	28	126	XLNT
631	1	TTNA	2	34	2 18	588P	44.461	810915	842.042	375.172	-.346	21.39	0	810916	5	18	28	130	XLNT
632	1	TTNA	2	34	2 20	629P	43.989	810915	841.318	375.174	-.346	22.36	0	810916	5	18	28	132	XLNT
633	1	TTNA	2	34	2 20	630P	43.345	810916	835.970	375.142	-.346	23.09	0	810916	5	20	28	134	XLNT
634	1	TTNA	2	34	2 22	631P	43.314	810916	835.445	375.179	-.346	21.72	0	810917	5	20	28	136	VERY GOOD
635	1	TTNA	2	34	2 22	632P	41.682	810917	820.932	375.176	-.346	22.95	0	810917	5	22	28	138	XLNT
636	1	TTNA	2	36	2 07	633P	42.703	810917	812.004	375.160	-.346	21.43	0	810918	5	22	28	140	XLNT
637	1	TTNA	2	36	2 07	634P	46.454	810917	851.770	375.141	-.346	22.12	0	810918	5	22	28	142	XLNT
638	1	TTNA	2	36	0	363P	42.933	810918	795.022	375.150	-.346	22.74	0	810918	5	24	28	144	XLNT
639	1	TTNA	2	36	0	364P	45.891	810918	821.678	375.142	-.346	22.94	0	810918	5	24	28	146	XLNT
640	1	TTNA	2	36	2 12	635P	44.453	810921	849.490	375.137	-.346	21.48	0	810921	5	26	28	148	XLNT
641	1	TTNA	2	36	2 12	636P	44.006	810921	845.542	375.148	-.346	21.96	0	810921	5	26	28	150	XLNT
642	1	TTNA	2	36	2 16	357P	42.878	810922	828.254	375.152	-.346	21.49	0	810922	5	29	28	152	XLNT
643	1	TTNA	2	36	2 16	358P	43.388	810922	830.694	375.167	-.346	21.01	0	810923	5	29	29	4	XLNT

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TABLE 1 (CONT.). CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	LEG	STN	CAST NISKIN	BOTTLE TYPE	RUN SUBRUN	ALIQUOT (G)	EXTRAC DATE	VACUUM COL HT	SAMPLE COL HT	MENISC CORR	VOL T(C)	ANALYS DATE	EXTRAC BK PG	MANOM BK PG	SEA OBS	RUN REMARKS			
644	1	TTNA	2	36	2	18	359P	41.685	810923	815.338	375.166	-.346	21.56	0	810923	5	32	29	6	XLNT
645	1	TTNA	2	36	2	18	360P	42.673	810923	826.092	375.153	-.346	21.91	0	810923	5	32	29	8	XLNT
646	1	TTNA	2	36	4	40	549P	46.425	810924	826.158	375.150	-.346	21.26	0	810924	5	33	29	10	XLNT
647	1	TTNA	2	36	4	40	550P	45.691	810924	819.758	375.143	-.346	21.71	0	810924	5	33	29	12	XLNT
648	1	TTNA	2	36	2	20	361P	44.442	810925	844.316	375.147	-.346	21.64	0	810925	5	35	29	14	XLNT
649	8	TTNA	2	36	2	20	362P	43.977	810925							5	36	29	14	NOT ANAL
650	1	TTNA	2	36	4	45	551P	41.753	810928	784.871	375.112	-.346	21.46	0	810928	5	37	29	17	XLNT
651	1	TTNA	2	36	4	45	552P	43.415	810928	803.438	375.147	-.346	21.62	0	810928	5	37	29	19	XLNT
652	1	TTNA	2	36	4	44	553P	45.708	810929	837.158	375.155	-.346	21.10	0	810929	5	39	29	21	XLNT
653	1	TTNA	2	36	4	44	554P	44.509	810929	825.402	375.168	-.346	21.46	0	810929	5	39	29	23	XLNT
654	1	TTNA	2	36	4	41	555P	44.063	810929	822.000	375.144	-.346	21.08	0	810930	5	39	29	25	XLNT
655	1	TTNA	2	36	4	41	556P	42.959	810930	811.754	375.138	-.346	21.41	0	810930	5	41	29	27	XLNT
656	1	TTNA	2	36	4	47	597P	42.675	810930	828.679	375.165	-.346	21.68	0	810930	5	41	29	29	XLNT
657	1	TTNA	2	39	2	01	437P	44.078	811001	809.808	375.139	-.346	21.46	0	811005	5	43	29	33	XLNT
658	1	TTNA	2	39	2	01	438P	41.738	811005	786.873	375.145	-.346	21.52	0	811005	5	45	29	35	XLNT
659	1	TTNA	2	39	2	01	439P	43.404	811005	803.378	375.165	-.346	21.59	0	811005	5	45	29	37	OK
660	1	TTNA	2	40	2	01	440PA	46.484	811006	833.848	375.168	-.346	20.95	0	811007	5	47	29	39	XLNT
661	1	TTNA	2	40	2	01	440PB	45.719	811006	826.622	375.166	-.346	21.18	0	811007	5	47	29	41	XLNT
662	1	TTNA	2	40	2	01	441PA	44.526	811007	815.468	375.160	-.346	21.36	0	811007	5	49	29	43	OK
663	1	TTNA	2	40	2	01	441PB	44.084	811007	811.176	375.176	-.346	21.56	0	811007	5	49	29	45	XLNT
664	1	TTNA	2	41	1	01	442PA	42.959	811008	801.440	375.180	-.346	20.91	0	811008	5	52	29	49	XLNT
665	1	TTNA	2	41	1	01	442PB	42.726	811008	799.606	375.184	-.346	21.30	0	811009	5	52	29	49	XLNT
666	1	TTNA	2	41	1	01	443PA	44.516	811009	817.284	375.188	-.346	21.38	0	811009	5	54	29	51	XLNT
667	1	TTNA	2	41	1	01	443PB	44.077	811009	812.980	375.164	-.346	21.43	0	811009	5	54	29	53	XLNT
668	1	TTNA	2	36	4	47	598P	44.477	811001	847.376	375.162	-.346	21.11	0	811010	5	43	29	31	XLNT
668	1	TTNA	0	3	5	42	280PA	42.898	811022	826.880	375.167	-.346	21.70	0	811022	5	69	29	91	XLNT
668	1	TTNA	0	3	5	42	280PB	42.645	811022	823.950	375.146	-.346	21.47	0	811023	5	69	29	93	OK
689	1	TTNA	0	3	5	47	284PA	44.469	811023	844.028	375.171	-.346	21.69	0	811023	5	71	29	95	XLNT
690	1	TTNA	0	3	5	47	284PB	44.017	811023	839.469	375.164	-.346	21.79	0	811023	5	71	29	97	XLNT
691	1	TTNA	0	3	5	45	288PA	40.358	811027	800.776	375.150	-.346	21.17	0	811028	5	73	29	99	OK
692	1	TTNA	0	3	5	45	288PB	39.407	811027	791.842	375.174	-.346	21.82	0	811028	5	73	29	101	XLNT
824	1	TTNA	0	3	5	41	277PA	42.681	820203	824.298	374.957	-.373	21.66	0	820203	6	40	31	70	XLNT
825	1	TTNA	0	3	5	41	277PB	43.274	820203	830.985	374.970	-.373	21.93	0	820203	6	40	31	72	XLNT
826	1	TTNA	0	3	5	46	282PA	42.902	820204	826.928	374.975	-.373	21.50	0	820204	6	42	31	75	XLNT

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REC NO.	EXP CODE	LEG	STN	CAST	BOTTLE	RUN	ALIQUOT	EXTRAC	VACUUM	SAMPLE	MENISC	VOL	ANALYS	EXTRAC	MANOM	SEA	RUN	REMARKS		
				NISKIN	TYPE	SUBRUN	(G)	DATE	COL HT	COL HT	CORR	T(C)	ID	BK	PG	BK	PG	OBS		
827	1	TTNA	0	3	5	48	282PB	42.853	820204	826.205	374.961	-.373	21.29	0	820205	6	42	31	77	XLNT
828	1	TTNA	0	3	5	48	286PA	42.678	820205	824.748	374.980	-.373	21.36	0	820205	6	44	31	79	OK
829	1	TTNA	0	3	5	48	286PB	43.287	820205	831.050	374.955	-.373	21.59	0	820205	6	44	31	81	XLNT
830	1	TTNA	7	224	1	01	761P	42.604	820219	784.512	375.010	-.373	21.38	0	820219	6	47	31	89	XLNT
831	8	TTNA	7	224	1	01	762P								6	47			NOT ANAL	
832	1	TTNA	7	225	3	01	763P	46.362	820219	819.945	375.012	-.373	21.69	0	820219	6	47	31	92	FAIR
833	1	TTNA	7	225	3	01	764P	42.836	820223	766.162	374.997	-.373	21.51	0	820224	6	49	31	100	XLNT
834	1	TTNA	7	226	3	01	501P	45.626	820223	818.088	375.016	-.373	21.89	0	820224	6	49	31	102	XLNT
835	1	TTNA	7	227	2	01	503P	42.689	820224	795.968	375.004	-.373	21.85	0	820224	6	51	31	104	OK
836	1	TTNA	7	227	2	01	504P	46.445	820224	832.702	375.011	-.373	21.80	0	820225	6	51	31	106	XLNT
837	1	TTNA	7	233	1	01	373P	42.941	820225	799.047	375.018	-.373	21.90	0	820225	6	53	31	113	XLNT
838	1	TTNA	7	233	1	01	374P	45.692	820225	825.383	374.990	-.373	21.35	0	820226	6	53	31	115	FAIR
839	1	TTNA	7	234	4	40	535P	42.713	820226	795.304	374.996	-.373	21.89	0	820226	6	55	31	122	XLNT
840	1	TTNA	7	234	4	40	536P	46.465	820226	831.779	374.985	-.373	21.86	0	820226	6	55	31	124	XLNT
841	1	TTNA	7	234	4	41	537P	42.945	820301	803.383	375.003	-.373	21.82	0	820301	6	57	31	131	XLNT
842	1	TTNA	7	234	4	41	538P	45.705	820301	830.380	374.999	-.373	21.51	0	820302	6	57	31	133	XLNT
843	1	TTNA	7	234	2	02	375P	42.721	820302	807.626	375.022	-.373	21.77	0	820302	6	59	31	138	XLNT
844	1	TTNA	7	234	2	02	376P	39.461	820302	774.079	375.016	-.373	21.26	0	820303	6	59	31	140	XLNT
845	1	TTNA	7	234	4	42	539P	42.940	820303	809.422	375.012	-.373	21.57	0	820303	6	61	31	142	XLNT
846	1	TTNA	7	234	4	42	540P	45.692	820303	837.208	375.008	-.373	21.70	0	820303	6	61	31	144	FAIR
847	1	TTNA	7	234	4	43	678P	43.300	820303	816.988	375.006	-.373	21.18	0	820304	6	61	31	146	XLNT
848	1	TTNA	7	234	2	04	377P	39.457	820304	780.340	375.002	-.373	21.80	0	820304	6	63	32	5	XLNT
849	1	TTNA	7	234	4	43	679P	42.717	820304	811.804	374.991	-.373	21.74	0	820304	6	63	32	3	OK
850	1	TTNA	7	234	2	04	378P	42.900	820305	815.571	375.016	-.373	21.75	0	820305	6	65	32	12	XLNT
851	1	TTNA	7	234	4	44	680P	45.675	820305	847.276	375.011	-.373	21.74	0	820305	6	65	32	14	XLNT
852	1	TTNA	7	234	4	44	684P	42.699	820307	817.262	374.980	-.347	22.22	0	820308	6	67	32	21	OK
853	1	TTNA	7	234	2	05	380P	39.435	820308	787.119	374.983	-.347	22.32	0	820308	6	68	32	23	OK
854	1	TTNA	7	234	2	06	533P	42.890	820309	829.282	374.994	-.347	21.99	0	820309	6	69	32	28	XLNT
855	1	TTNA	7	234	2	06	534P	45.630	820309	858.204	374.981	-.347	22.02	0	820309	6	69	32	30	OK
856	1	TTNA	7	231	2	01	425P	46.465	820310	831.818	375.010	-.347	21.77	0	820311	6	71	32	34	FAIR
857	1	TTNA	7	231	2	01	426P	43.330	820310	801.188	374.988	-.347	22.08	0	820311	6	71	32	39	XLNT
858	8	TTNA	7	248	1	01	682P		820310						6	71			#682P USED LATER	
859	1	TTNA	7	248	1	01	683P	42.576	820310	779.675	374.984	-.347	21.33	0	820311	6	71	32	32	XLNT
860	1	TTNA	7	231	2	02	427P	42.931	820311	806.125	375.020	-.347	22.08	0	820311	6	74	32	41	XLNT

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861	1	TTNA	7 231	2 02	428P	39.444	820311	770.638	374.994	-.347	21.56	0 820312	6 74	32 43		XLNT
862	1	TTNA	7 231	2 03	461P	46.456	820312	846.358	374.998	-.347	21.97	0 820312	6 76	32 50		XLNT
863	1	TTNA	7 248	1 01	682P	42.579	820312	780.705	375.000	-.347	21.98	0 820312	6 76	32 48		XLNT
864	1	TTNA	7 231	2 03	462P	42.697	820316	807.162	374.994	-.347	21.10	0 820316	6 79	32 64		XLNT
865	1	TTNA	7 231	4 40	685P	45.686	820316	840.290	374.993	-.347	21.43	0 820316	6 79	32 66		XLNT
866	1	TTNA	7 231	4 40	686P	39.443	820316	776.278	374.997	-.347	21.09	0 820317	6 79	32 68		XLNT
867	1	TTNA	7 231	4 41	687P	42.919	820317	816.912	375.010	-.347	21.69	0 820317	6 81	32 75		XLNT
868	1	TTNA	7 231	4 41	688P	43.278	820317	818.759	374.984	-.347	20.61	0 820318	6 81	32 77		XLNT
869	1	TTNA	7 231	2 05	463P	42.692	820318	817.695	375.000	-.347	21.56	0 820318	6 83	32 85		FAIR
870	1	TTNA	7 231	2 05	464P	45.676	820318	848.458	374.998	-.347	21.66	0 820318	6 83	32 87		FAIR
871	1	TTNA	7 231	2 06	465P	42.669	820323	824.832	375.010	-.347	20.98	0 820323	6 86	32 92		VERY GOOD
872	1	TTNA	7 231	2 06	466P	45.644	820323	855.922	375.003	-.347	20.88	0 820324	6 86	32 94		VERY GOOD
873	1	TTNA	7 231	4 43	689P	42.911	820324	828.338	374.993	-.347	21.41	0 820324	6 88	32 99		XLNT
874	1	TTNA	7 231	4 43	690P	39.429	820324	791.024	374.974	-.347	20.95	0 820325	6 88	32 101		XLNT
875	1	TTNA	7 231	2 08	467P	42.667	820325	825.046	374.991	-.347	21.19	0 820325	6 90	32 103		XLNT
876	1	TTNA	7 231	2 08	468P	45.665	820325	857.446	375.005	-.347	21.34	0 820325	6 90	32 105		XLNT
877	1	TTNA	7 231	4 45	691P	43.274	820325	830.526	375.004	-.347	20.83	0 820326	6 90	32 107		XLNT
878	1	TTNA	7 231	1 42	611P	39.419	820326	787.287	375.000	-.347	21.24	0 820326	6 92	32 114		XLNT
879	1	TTNA	7 231	4 45	692P	42.914	820326	827.424	375.021	-.347	21.22	0 820326	6 92	32 112		FAIR
880	1	TTNA	7 231	1 42	612P	42.675	820329	820.394	375.012	-.347	20.77	0 820329	6 94	32 119		XLNT
881	1	TTNA	7 231	1 44	421P	45.648	820329	853.254	375.018	-.347	20.84	0 820329	6 94	32 121		XLNT
882	1	TTNA	7 231	1 44	422P	42.899	820330	824.736	375.002	-.347	21.09	0 820331	6 96	32 131		XLNT
883	1	TTNA	7 231	1 46	423P	42.682	820331	824.333	375.002	-.347	21.13	0 820331	6 97	32 133		XLNT
884	1	TTNA	7 231	1 46	424P	45.688	820331	855.438	375.028	-.347	21.14	0 820401	6 97	32 135		XLNT
885	1	TTNA	7 229	3 01	807P	42.710	820412	797.916	374.966	-.347	23.75	0 820413	6 99	32 137		GOOD
886	1	TTNA	7 229	3 01	808P	45.691	820412	829.279	375.008	-.347	24.97	0 820413	6 99	32 139		XLNT
887	1	TTNA	7 229	3 02	809P	42.929	820413	803.990	374.946	-.347	25.22	0 820414	6 101	32 141		OK
888	1	TTNA	7 229	3 02	810P	46.455	820413	837.299	374.953	-.347	24.04	0 820414	6 101	32 143		GOOD
889	1	TTNA	7 229	3 03	811P	42.717	820414	809.504	374.950	-.347	23.76	0 820414	6 103	32 145		GOOD
890	1	TTNA	7 229	3 03	812P	45.695	820414	840.226	374.938	-.347	24.27	0 820415	6 103	32 147		GOOD
891	1	TTNA	7 229	4 41	531P	39.456	820414	776.163	374.948	-.347	23.16	0 820415	6 103	32 149		XLNT
892	1	TTNA	7 229	3 07	525P	42.925	820415	815.241	374.984	-.347	22.92	0 820415	6 105	33 3		FAIR
893	1	TTNA	7 229	4 41	532P	46.459	820415	847.622	374.960	-.347	23.02	0 820415	6 105	32 151		XLNT
894	1	TTNA	7 229	3 07	526P	42.691	820421	812.617	374.994	-.368	22.64	0 820421	6 108	33 30		XLNT

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 1 (CONT.). CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	LEG	STN	CAST	BOTTLE	RUN	ALIQUOT	EXTRAC	VACUUM	SAMPLE	MENISC	VOL	ANALYS	EXTRAC	MANOM	SEA	RUN	REMARKS		
				NISKIN	TYPE	SUBRUN	(G)	DATE	COL HT	COL HT	CORR	T(C)	ID	BK	PG	BK	PG	OBS		
895	1	TTNA	7	229	4	42	805P	43.288	820421	820.090	374.965	-.368	22.16	0	820422	6	108	33	34	XLNT
896	1	TTNA	7	229	4	42	806P	40.790	820421	795.165	374.969	-.368	22.72	0	820422	6	108	33	36	XLNT
897	1	TTNA	7	229	3	08	527P	42.911	820422	818.098	374.967	-.368	22.05	0	820422	6	110	33	38	XLNT
898	1	TTNA	7	229	3	08	528P	39.433	820422	781.129	374.964	-.368	21.91	0	820423	6	110	33	41	FAIR
899	1	TTNA	7	229	4	43	807P	40.986	820426	802.484	374.954	-.368	22.30	0	820427	6	113	33	54	XLNT
900	1	TTNA	7	229	4	43	808P	42.684	820426	820.477	374.944	-.368	22.49	0	820427	6	113	33	56	XLNT
901	1	TTNA	7	229	3	09	529P	40.747	820427	806.356	374.943	-.368	22.56	0	820427	6	116	33	58	XLNT
902	1	TTNA	7	229	3	09	530P	39.419	820427	791.718	374.968	-.368	22.15	0	820428	6	116	33	60	XLNT
903	1	TTNA	7	229	4	45	809P	42.661	820428	826.026	374.966	-.368	22.52	0	820428	6	118	33	62	XLNT
904	1	TTNA	7	229	2	40	825P	43.263	820428	828.930	374.978	-.368	22.51	0	820429	6	118	33	66	XLNT
905	1	TTNA	7	229	4	46	810P	45.638	820428	856.942	374.954	-.368	22.20	0	820429	6	118	33	64	XLNT
906	1	TTNA	7	229	2	40	828P	40.945	820429	804.424	374.974	-.368	22.38	0	820430	6	121	33	68	XLNT
907	1	TTNA	7	229	2	43	827P	40.745	820429	803.283	374.970	-.368	22.48	0	820430	6	121	33	70	OK
908	1	TTNA	7	229	2	43	828P	41.666	820430	813.111	374.984	-.368	22.60	0	820430	6	125	33	72	OK
909	1	TTNA	7	229	2	45	805P	39.379	820430	790.838	374.978	-.368	22.62	0	820430	6	125	33	74	XLNT
910	1	TTNA	7	228	2	41	505P	46.481	820503	845.819	374.988	-.368	22.24	0	820504	6	127	33	78	XLNT
911	1	TTNA	7	229	2	45	808P	42.658	820503	873.299	374.999	-.368	21.98	0	820504	6	127	33	76	FAIR
912	1	TTNA	7	228	2	41	506P	43.299	820504	813.700	374.988	-.368	22.38	0	820504	6	130	33	80	FAIR
913	1	TTNA	7	228	3	03	579P	45.696	820504	838.337	374.996	-.368	22.52	0	820504	6	130	33	82	XLNT
914	9	TTNA	7	228	3	03	580P	43.302	820504	813.620	375.002	-.368	22.16	0	820505	6	130	33	84	-REJECT-
915	1	TTNA	7	228	3	03	580P	43.302	820504	813.627	374.982	-.368	22.24	0	820505	6	130	33	85	FAIR
916	1	TTNA	7	228	2	42	507P	40.995	820505	791.064	374.972	-.368	22.40	0	820505	6	132	33	87	OK
917	1	TTNA	7	228	2	42	508P	46.451	820505	846.422	374.986	-.368	22.59	0	820505	6	132	33	93	VERY GOOD
918	1	TTNA	7	228	3	04	429P	40.793	820505	790.115	374.970	-.368	22.78	0	820505	6	132	33	91	XLNT
919	1	TTNA	7	228	3	04	430P	42.702	820506	808.531	375.006	-.368	22.18	0	820507	6	134	33	95	XLNT
920	1	TTNA	7	228	3	05	431P	39.451	820506	778.019	374.992	-.368	22.56	0	820507	6	134	33	95	XLNT
921	1	TTNA	7	228	2	43	573P	45.680	820507	842.438	374.980	-.368	22.67	0	820507	6	137	33	99	XLNT
922	1	TTNA	7	228	3	05	432P	43.292	820507	817.398	374.974	-.368	22.64	0	820507	6	137	33	97	XLNT
923	1	TTNA	7	228	2	43	574P	42.691	820513	811.105	374.954	-.368	22.10	0	820513	6	140	33	101	FAIR
924	1	TTNA	7	228	3	06	433P	39.438	820513	781.354	374.950	-.368	22.03	0	820514	6	140	33	103	FAIR
925	1	TTNA	7	228	2	44	575P	45.659	820514	853.264	374.968	-.368	22.49	0	820514	6	142	33	107	XLNT
926	1	TTNA	7	228	3	06	434P	43.272	820514	820.961	374.961	-.368	22.28	0	820514	6	142	33	105	FAIR
927	1	TTNA	7	228	2	44	576P	42.683	820518	821.296	374.986	-.368	21.93	0	820518	6	144	33	109	XLNT
928	1	TTNA	7	228	2	46	577P	40.739	820518	805.275	375.010	-.368	22.21	0	820518	6	144	33	111	FAIR

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TABLE 1 (CONT.). CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	LEG	STN	CAST NISKIN	BOTTLE TYPE	RUN SUBRUN	ALIQUOT (G)	EXTRAC DATE	VACUUM COL HT	SAMPLE COL HT	MENISC CORR	VOL T(C)	ANALYS DATE	EXTRAC BK PG	MANOM BK PG	SEA OBS	RUN REMARKS	
929	1	TTNA	7	228	2	46	578P	39.412	820518	791.147	374.954	-.368	22.16	0	820519	6 144	33 113	XLNT
930	1	TTNA	7	228	4	41	436P	43.263	820519	828.360	374.984	-.368	22.50	0	820519	6 145	33 115	XLNT
931	1	TTNA	7	228	4	41	436P	43.249	820519	828.343	374.958	-.368	22.71	0	820519	6 145	33 118	XLNT
932	1	TTNA	7	228	4	44	821P	45.850	820519	853.234	374.991	-.368	22.23	0	820520	6 145	33 120	XLNT
933	8	TTNA	7	228	4	44	822P	42.649	820520						6 148		NOT ANAL	
934	1	TTNA	7	228	4	46	823P	39.410	820520	790.282	374.976	-.368	22.55	0	820520	6 148	33 122	XLNT
935	1	TTNA	7	228	4	46	824P	42.680	820524	823.519	374.984	-.368	22.00	0	820524	7 2	33 124	XLNT
936	1	TTNA	6	214		0	697P	46.425	820524	833.552	375.014	-.368	21.86	0	820525	7 2	33 126	XLNT
937	1	TTNA	6	214		0	698P	39.413	820524	764.804	375.010	-.368	22.18	0	820525	7 2	33 128	OK
938	1	TTNA	6	214	7	01	699P	43.265	820525	817.159	375.004	-.368	22.38	0	820525	7 5	33 130	OK
939	1	TTNA	6	214	7	01	700P	43.275	820525	817.611	375.008	-.368	22.53	0	820525	7 5	33 132	XLNT
940	1	TTNA	6	214	7	02	509P	45.854	820525	841.038	375.012	-.368	22.10	0	820526	7 5	33 134	XLNT
941	1	TTNA	6	214	7	02	510P	46.439	820526	848.624	375.014	-.368	22.03	0	820526	7 7	33 136	XLNT
942	1	TTNA	6	214	7	04	511P	42.682	820526	825.227	375.000	-.368	22.15	0	820526	7 7	33 138	XLNT
943	1	TTNA	6	214	7	05	513P	39.388	820526	788.568	374.990	-.368	22.24	0	820527	7 7	33 140	XLNT
944	1	TTNA	6	214	7	05	514P	43.249	820527	829.140	374.942	-.368	22.29	0	820527	7 9	33 142	XLNT
945	1	TTNA	6	214	7	07	515P	43.253	820527	828.304	374.930	-.368	22.45	0	820527	7 9	33 144	XLNT
946	1	TTNA	6	214	7	07	516P	45.637	820527	852.888	374.944	-.368	22.12	0	820528	7 9	33 146	XLNT
947	1	TTNA	6	214	7	11	741P	42.640	820601	820.843	374.934	-.368	21.86	0	820601	7 13	33 148	XLNT
948	1	TTNA	6	214	7	11	742P	40.741	820601	801.527	374.931	-.368	22.17	0	820601	7 13	33 150	XLNT
949	9	TTNA	6	214	7	22	743P	39.410	820601	787.309	374.935	-.368	22.09	0	820602	7 13	33 152	-REJECT-
950	1	TTNA	6	214	7	22	743P	39.410	820601	787.417	374.928	-.368	22.21	0	820602	7 13	34 3	XLNT
951	1	TTNA	6	206		0	397P	46.394	820602	839.318	374.905	-.368	22.87	0	820602	7 15	34 7	XLNT
952	1	TTNA	6	214	7	22	744P	43.234	820602	827.664	374.922	-.368	22.38	0	820602	7 15	34 5	XLNT
953	1	TTNA	6	206		0	398P	45.614	820602	829.746	374.890	-.368	22.19	0	820603	7 15	34 9	XLNT
956	1	TTNA	6	206	1	01	399P	46.387	820607	837.806	374.782	-.368	22.15	0	820608	7 18	34 24	XLNT
957	1	TTNA	6	206	1	01	400P	42.628	820610	801.480	374.805	-.368	22.50	0	820610	7 22	34 36	XLNT
958	1	TTNA	6	206	1	02	401P	45.618	820610	847.430	374.792	-.368	22.50	0	820610	7 22	34 37	XLNT
959	1	TTNA	6	206	1	02	402P	42.648	820614	816.813	374.796	-.368	22.39	0	820614	7 25	34 42	XLNT
960	1	TTNA	6	206	1	03	403P	45.632	820614	850.111	374.781	-.368	22.58	0	820615	7 25	34 44	XLNT
961	1	TTNA	6	206	1	03	404P	46.395	820615	858.680	374.775	-.368	23.18	0	820615	7 27	34 51	FAIR
962	1	TTNA	6	206	1	04	365P	43.232	820615	825.820	374.782	-.368	22.00	0	820616	7 27	34 53	XLNT
963	1	TTNA	6	206	1	04	366P	42.660	820616	820.354	374.788	-.368	22.99	0	820616	7 29	34 60	XLNT
964	1	TTNA	6	206	1	06	367P	39.393	820616	787.998	374.812	-.368	22.44	0	820617	7 29	34 62	XLNT

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965	1	TTNA	6	206	1	06	368P	43.240	820617	828.711	374.804	-.368	22.93	0	820617	7 31 34 69	FAIR
966	1	TTNA	6	206	1	09	369P	40.743	820617	802.737	374.774	-.368	22.89	0	820617	7 31 34 71	XLNT
967	1	TTNA	6	206	1	09	370P	42.657	820621	822.004	374.850	-.368	22.45	0	820621	7 34 34 81	XLNT
968	1	TTNA	6	206	1	10	371P	39.396	820621	787.588	374.840	-.368	22.04	0	820622	7 34 34 83	OK
969	1	TTNA	6	206	1	10	372P	43.238	820622	827.368	374.834	-.368	22.25	0	820622	7 36 34 85	XLNT
970	1	TTNA	6	206	1	13	615P	40.759	820622	801.844	374.846	-.368	22.53	0	820622	7 36 34 87	XLNT
971	1	TTNA	6	206	1	13	616P	42.651	820623	822.410	374.818	-.368	22.72	0	820623	7 38 34 93	XLNT
972	1	TTNA	6	206	1	15	613P	39.409	820623	787.900	374.828	-.368	22.34	0	820624	7 38 34 95	OK
973	1	TTNA	6	206	1	15	614P	43.228	820624	828.190	374.838	-.368	22.70	0	820624	7 40 34 100	XLNT
974	1	TTNA	6	206	1	20	617P -01A	40.745	820624	804.488	374.818	-.368	22.73	0	820624	7 40 34 102	FAIR
975	1	TTNA	6	206	1	20	617P -01B	40.745	820624	804.205	374.820	-.368	22.51	0	820625	7 40 34 103	XLNT
976	1	TTNA	6	206	1	20	618PA	42.600	820625	823.790	374.826	-.368	22.80	0	820625	7 42 34 108	XLNT
977	1	TTNA	6	206	1	20	618PB	39.410	820625	789.728	374.825	-.368	22.99	0	820625	7 42 34 110	XLNT
978	1	TTNA	6	177	3	01	325PA	43.225	820709	825.444	374.809	-.368	22.96	0	820709	7 45 34 118	XLNT
979	1	TTNA	6	177	3	01	325PB	40.401	820709	859.225	374.816	-.368	23.40	0	820709	7 45 34 120	XLNT
980	1	TTNA	6	177	3	01	326PA	45.608	820712	851.094	374.834	-.368	23.42	0	820712	7 47 34 125	XLNT
981	1	TTNA	6	177	3	01	326PB	39.403	820712	786.754	374.825	-.368	23.04	0	820712	7 47 34 127	XLNT
982	1	TTNA	6	177	3	02	327P	42.667	820713	820.399	374.857	-.368	22.74	0	820714	7 49 34 132	OK
983	1	TTNA	6	177	3	02	328P	40.742	820713	800.656	374.810	-.368	22.99	0	820714	7 49 34 134	XLNT
984	1	TTNA	6	177	3	03	329P	43.240	820714	827.028	374.822	-.368	23.00	0	820714	7 51 34 136	OK
985	1	TTNA	6	177	3	03	330P	45.639	820714	852.284	374.826	-.368	23.21	0	820714	7 51 34 138	FAIR
986	1	TTNA	6	177	3	05	331P	39.399	820714	786.722	374.822	-.368	22.89	0	820715	7 51 34 140	XLNT
987	1	TTNA	6	177	3	05	332P	42.648	820715	821.912	374.808	-.368	23.74	0	820715	7 53 34 147	XLNT
988	1	TTNA	6	177	3	06	749P	40.738	820715	798.904	374.804	-.368	22.69	0	820716	7 53 34 149	XLNT
989	1	TTNA	6	177	3	06	677P	43.236	820716	828.013	374.964	-.368	23.57	0	820716	7 55 35 4	XLNT
990	1	TTNA	6	177		0	475P	46.382	820719	844.720	374.988	-.368	22.98	0	820720	7 56 35 11	FAIR
991	1	TTNA	6	177		0	476P	45.636	820719	837.608	374.983	-.368	23.38	0	820720	7 56 35 12	XLNT
992	1	TTNA	6	177	3	09	751P	39.398	820720	788.429	374.992	-.368	24.00	0	820720	7 58 35 15	FAIR
993	1	TTNA	6	177	3	09	752P	43.234	820720	829.216	374.982	-.368	24.33	0	820720	7 58 35 17	FAIR
994	1	TTNA	6	177	3	13	753P	42.651	820720	821.954	375.024	-.368	23.13	0	820721	7 58 35 19	FAIR
995	1	TTNA	6	177	3	13	754P	43.238	820721	830.667	374.997	-.368	24.59	0	820721	7 60 35 24	XLNT
996	1	TTNA	6	177	3	17	755P	45.608	820721	854.427	375.004	-.368	23.15	0	820722	7 60 35 26	FAIR
997	1	TTNA	6	167	4	40	455P	42.639	820722	809.536	374.994	-.368	24.87	0	820722	7 62 35 33	XLNT
998	1	TTNA	6	177	3	17	756P	43.225	820722	831.737	375.020	-.368	24.59	0	820722	7 62 35 31	FAIR

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- 9 = PEREMPTORILY-REJECTED SAMPLE

BOTTLE TYPE:

P = PYREX

VOL ID (MANOMETER CHAMBER VOLUME I.D.):

0 = 3.7974 CC

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 1 (CONT.). CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	STN LEG	CAST NISKIN	BOTTLE TYPE	RUN SUBRUN	ALIQUOT (G)	EXTRAC DATE	VACUUM COL HT	SAMPLE COL HT	MENISC CORR	VOL T(C)	ANALYS DATE	EXTRAC BK PG	MANOM BK PG	SEA OBS	RUN REMARKS
999	1	TTNA	6 177	3 21	829P	43.246	820726	829.182	374.881	-.365	23.82	0 820726	7 64	35 42		XLNT
1000	1	TTNA	6 177	3 21	830P	45.632	820726	854.368	374.894	-.365	24.04	0 820726	7 64	35 44		VERY GOOD
1001	1	TTNA	5 167	4 40	456P	43.245	820727	812.608	374.889	-.365	23.73	0 820727	7 66	35 51		FAIR
1002	1	TTNA	5 167	3 80	453P	46.405	820727	857.658	374.910	-.365	22.65	0 820728	7 66	35 53		XLNT
1003	1	TTNA	5 167	3 80	454P	43.244	820728	827.094	374.904	-.365	24.25	0 820728	7 68	35 60		XLNT
1004	1	TTNA	5 167	4 41	457P	42.661	820728	821.816	374.903	-.365	23.97	0 820729	7 68	35 62		FAIR
1005	1	TTNA	5 167	4 41	458P	43.231	820730	826.912	375.002	-.365	23.48	0 820730	7 70	35 67		FAIR
1006	1	TTNA	5 167	4 42	459P	46.401	820730	860.078	375.022	-.365	23.23	0 820731	7 70	35 69		XLNT
1007	1	TTNA	5 167	4 42	460P	39.405	820803	786.830	374.990	-.365	22.97	0 820803	7 73	35 77		XLNT
1008	1	TTNA	5 167	6 40	781P	43.251	820803	828.356	375.0	-.365	23.49	0 820803	7 73	35 79		XLNT
1009	1	TTNA	5 167	6 40	782P	46.411	820803	859.820	374.986	-.365	22.74	0 820804	7 73	35 81		XLNT
1010	1	TTNA	5 167	6 41	783P	40.740	820804	802.872	374.998	-.365	23.81	0 820804	7 75	35 86		XLNT
1011	1	TTNA	5 167	6 44	785P	42.660	820804	823.125	374.996	-.365	23.08	0 820805	7 75	35 88		XLNT
1012	1	TTNA	5 167	6 44	786P	39.402	820805	791.163	374.995	-.365	24.71	0 820805	7 77	35 93		XLNT
1013	1	TTNA	5 167	6 46	787P	43.239	820805	832.057	374.981	-.365	25.08	0 820805	7 77	35 95		XLNT
1014	1	TTNA	5 167	2 40	409P	42.647	820806	827.556	374.972	-.365	26.07	0 820806	7 79	35 102		XLNT
1015	1	TTNA	5 167	6 46	788P	40.728	820806	806.888	374.988	-.365	25.87	0 820806	7 79	35 102		XLNT
1016	1	TTNA	5 167	2 40	410P	43.235	820809	830.852	374.988	-.365	24.20	0 820809	7 81	35 109		VERY GOOD
1017	1	TTNA	5 167	2 48	411P	45.646	820809	855.771	375.013	-.365	24.42	0 820809	7 81	35 111		XLNT
1018	1	TTNA	5 167	2 48	412P	42.631	820810	823.842	374.998	-.365	24.12	0 820810	7 83	35 120		XLNT
1019	1	TTNA	5 159	4 40	779P	46.398	820810	842.234	374.975	-.365	22.77	0 820811	7 83	35 122		XLNT
1020	1	TTNA	5 159	4 40	780P	43.236	820811	812.796	374.991	-.365	23.92	0 820811	7 85	35 129		XLNT
1021	1	TTNA	5 159	4 41	517P	43.237	820811	829.683	374.977	-.365	24.10	0 820811	7 85	35 131		XLNT
1022	1	TTNA	5 159	4 42	519P	40.737	820812	801.538	374.981	-.365	22.57	0 820813	7 87	35 134		XLNT
1023	1	TTNA	5 159	4 42	520P	42.651	820812	821.870	374.986	-.365	22.76	0 820813	7 87	35 136		XLNT
1024	1	TTNA	5 159	4 43	521P	46.396	820812	862.296	374.988	-.365	23.43	0 820813	7 87	35 141		VERY GOOD
1025	1	TTNA	5 159	4 43	522P	39.389	820816	788.708	374.996	-.365	23.28	0 820817	7 89	35 146		XLNT
1026	1	TTNA	5 159	4 44	524P	45.623	820816	855.796	374.994	-.365	23.51	0 820817	7 89	35 148		XLNT
1027	1	TTNA	5 159	4 44	523P	46.413	820817	864.740	374.957	-.365	23.77	0 820817	7 91	35 150		XLNT
1028	1	TTNA	5 159	4 45	541P	43.257	820817	831.962	374.978	-.365	24.01	0 820817	7 91	35 152		XLNT
1029	1	TTNA	5 159	4 45	542P	42.664	820817	824.178	374.968	-.365	23.08	0 820818	7 91	36 4		XLNT
1030	1	TTNA	5 159	4 46	543P	39.396	820818	791.862	374.973	-.365	23.88	0 820818	7 93	36 9		XLNT
1031	1	TTNA	5 159	4 46	544P	43.242	820818	829.974	374.986	-.365	22.82	0 820819	7 93	36 11		XLNT
1032	1	TTNA	5 159	4 48	545P	43.230	820819	831.850	375.008	-.365	24.06	0 820819	7 95	36 16		XLNT

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TABLE 1 (CONT.). CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	LEG	STN	CAST	BOTTLE RUN	ALIQUOT	EXTRAC	VACUUM	SAMPLE	MENISC	VOL	ANALYS	EXTRAC	MANOM	SEA	RUN	REMARKS			
				NISKIN	TYPE	(G)	DATE	COL HT	COL HT	CORR	T(C)	ID	BK	PG	BK	PG	OBS			
1033	1	TTNA	5	159	4	48	546P	42.632	820819	823.668	375.020	-.365	22.94	0	820820	7	95	36	18	VERY GOOD
1034	1	TTNA	5	159	1	40	775P	39.395	820820	792.164	375.017	-.365	24.40	0	820820	7	97	36	23	FAIR
1035	1	TTNA	5	159	1	40	776P	43.239	820820	833.144	374.990	-.365	24.81	0	820820	7	97	36	25	XLNT
1036	1	TTNA	5	159	1	48	777P	43.251	820830	833.564	375.054	-.365	24.15	0	820830	7	99	36	42	XLNT
1037	1	TTNA	5	159	1	48	778P	42.662	820830	827.829	375.048	-.365	24.44	0	820830	7	99	36	44	FAIR
1038	1	TTNA	5	148	5	40	561P	45.605	820831	833.296	375.031	-.365	24.96	0	820831	7	101	36	49	XLNT
1039	1	TTNA	5	148	5	40	562P	46.382	820831	837.892	375.056	-.365	22.98	0	820901	7	101	36	51	OK
1040	1	TTNA	5	148	2	02	661P	39.372	820901	771.284	375.041	-.365	25.30	0	820901	7	103	36	56	XLNT
1041	1	TTNA	5	148	2	02	662P	43.229	820901	808.038	375.033	-.365	23.66	0	820902	7	103	36	58	OK
1042	1	TTNA	5	148	5	41	563P	43.239	820902	832.045	375.044	-.365	25.19	0	820902	7	106	36	60	XLNT
1043	1	TTNA	5	148	5	41	564P	45.635	820902	858.098	375.042	-.365	25.73	0	820902	7	106	36	62	OK
1044	1	TTNA	5	148	5	42	589P	46.398	820902	864.587	375.058	-.365	24.21	0	820903	7	106	36	64	OK
1045	1	TTNA	5	148	5	42	590P	39.395	820903	793.870	375.037	-.365	26.24	0	820903	7	108	36	69	XLNT
1046	1	TTNA	5	148	5	43	591P	43.221	820903	835.508	375.028	-.365	26.62	0	820903	7	108	36	71	XLNT
1047	1	TTNA	5	148	4	40	665P	40.943	820907	808.387	375.049	-.365	24.69	0	820907	7	110	36	78	XLNT
1048	1	TTNA	5	148	5	43	592P	43.232	820907	831.417	375.027	-.365	24.02	0	820907	7	110	36	76	XLNT
1049	1	TTNA	5	148	4	40	666P	39.400	820908	791.462	375.026	-.365	24.20	0	820908	7	112	36	83	VERY GOOD
1050	1	TTNA	5	148	4	42	667P	43.241	820908	833.078	375.045	-.365	24.87	0	820908	7	112	36	85	FAIR
1051	1	TTNA	5	148	4	42	668P	43.245	820910	833.188	375.044	-.365	23.91	0	820910	7	114	36	92	OK
1052	1	TTNA	5	148	4	40	557P	40.945	820910	807.867	375.052	-.365	24.41	0	820910	7	114	36	94	XLNT
1053	1	TTNA	5	148	4	40	558P	39.388	820921	790.116	375.054	-.365	23.40	0	820921	7	116	36	96	VERY GOOD
1054	1	TTNA	5	148	4	48	559P	43.210	820921	831.442	375.042	-.365	24.19	0	820921	7	116	36	98	XLNT
1055	1	TTNA	5	148	4	48	560P	43.214	820921	828.397	375.066	-.365	22.29	0	820922	7	116	36	100	XLNT
1056	1	TTNA	5	148	2	32	663P	41.664	820922	813.882	375.039	-.365	23.48	0	820922	7	118	36	102	XLNT
1057	1	TTNA	5	148	2	32	664P	40.925	820922	807.308	375.057	-.365	24.22	0	820922	7	118	36	104	OK
1058	1	TTNA	5	149	2	02	593P	46.348	820922	824.743	375.060	-.365	23.01	0	820923	7	118	36	106	VERY GOOD
1059	1	TTNA	5	149	2	02	594P	39.360	820923	758.688	375.028	-.365	23.70	0	820924	7	120	36	108	OK
1060	1	TTNA	5	158	1	01	595P	43.131	820923	777.138	375.015	-.365	24.62	0	820924	7	120	36	110	OK
1061	1	TTNA	5	143	4	01	769P	45.627	820924	844.064	374.998	-.365	26.56	0	820924	7	122	36	114	XLNT
1062	1	TTNA	5	158	1	01	596P	43.117	820924	776.936	375.006	-.365	25.75	0	820924	7	122	36	112	VERY GOOD
1063	1	TTNA	5	143	4	01	770P	39.424	820927	772.352	375.012	-.365	22.76	0	820927	7	124	36	116	VERY GOOD
1064	1	TTNA	5	145	5	01	417P	43.269	820927	811.338	375.016	-.365	23.54	0	820927	7	124	36	118	XLNT
1065	1	TTNA	5	145	5	01	418P	46.428	820927	840.191	374.986	-.365	21.96	0	820928	7	124	36	120	XLNT
1066	1	TTNA	5	146	1	01	419P	43.259	820928	811.099	375.004	-.365	22.98	0	820928	7	126	36	122	XLNT

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TABLE 1 (CONT.). CONSTANT VOLUME MERCURY MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	STN LEG	CAST NISKIN	BOTTLE TYPE	RUN SUBRUN	ALIQUOT (G)	EXTRAC DATE	VACUUM COL HT	SAMPLE COL HT	MENISC CORR	VOL T(C)	ANALYS ID DATE	EXTRAC BK PG	MANOM BK PG	SEA OBS	RUN REMARKS
1067	1 TTNA	5 146	1 01	420P		40.947	820928	790.520	375.000	-.365	23.47	0 820928	7 126	36 124		OK
1068	1 TTNA	5 144	5 42	416P		45.644	820928	836.466	374.997	-.365	21.86	0 820929	7 126	36 126		XLNT
1069	1 TTNA	5 144	5 42	416P		39.419	820929	771.768	374.997	-.365	22.62	0 820929	7 128	36 128		FAIR
1070	1 TTNA	6 207	1 01	619P		46.403	820929	836.764	374.984	-.365	23.24	0 820929	7 128	36 130		XLNT
1071	1 TTNA	6 207	1 01	620P		43.244	820929	803.380	374.982	-.365	21.75	0 820930	7 128	36 132		XLNT
1072	1 TTNA	6 209	1 01	791P		43.257	820930	801.972	375.007	-.365	22.18	0 820930	7 130	36 134		OK
1073	1 TTNA	6 209	1 01	792P		40.952	820930	780.221	374.996	-.365	22.88	0 820930	7 130	36 136		FAIR
1074	1 TTNA	6 211	2 01	795P		45.658	820930	825.911	375.000	-.365	21.84	0 821001	7 130	36 138		FAIR
1075	1 TTNA	4 124	3 01	721P		46.396	821001	852.997	374.970	-.365	23.29	0 821001	7 132	36 142		XLNT
1076	1 TTNA	4 124	3 01	722P		43.241	821001	816.630	374.981	-.365	23.71	0 821001	7 132	36 144		XLNT
1077	1 TTNA	6 211	2 01	796P		39.423	821001	764.968	375.002	-.365	22.35	0 821001	7 132	36 140		XLNT
1078	1 TTNA	6 210	1 01	793PA		43.258	821213	800.974	374.979	-.371	21.50	0 821213	7 135	38 14		XLNT
1079	1 TTNA	6 210	1 01	793PB		46.412	821213	831.915	374.964	-.371	21.52	0 821214	7 135	38 16		XLNT
1080	1 TTNA	6 210	1 01	794PA		39.397	821214	763.978	374.998	-.371	22.18	0 821214	7 137	38 18		XLNT
1082	1 TTNA	6 210	1 01	794PB		43.248	821214	800.262	374.985	-.371	21.20	0 821215	7 137	38 20		XLNT
1164	2 TTNA	3 43	4 1	647PA-01		43.543	840104	808.312	375.282	-.397	21.48	0 840111	8 94	41 132	MJ	XLNT
1165	1 TTNA	3 43	4 1	647PB		39.476	840104	767.682	375.281	-.397	21.37	0 840111	8 94	41 134	MJ	OK
1166	1 TTNA	3 43	4 1	648PA		43.782	840105	809.666	375.285	-.397	21.36	0 840111	8 95	41 136	MJ	OK
1167	4 TTNA	3 43	4 1	648PB		46.372	840105	835.740	375.305	-.397	21.33	0 840111	8 95	41 138	MJ	VERY GOOD
1168	1 TTNA	4 125	1 1	723P		46.435	840106	847.086	375.314	-.397	21.61	0 840111	8 97	41 140	CC	GOOD
1169	2 TTNA	4 125	1 1	724P -01		41.105	840106	806.474	375.288	-.397	21.47	0 840112	8 97	41 144	CC	XLNT
1170	4 TTNA	5 141	2 1	707P		41.116	840111	790.386	375.281	-.397	21.59	0 840112	8 105	41 147	P,W	XLNT
1171	4 TTNA	5 141	2 1	708P		39.451	840111	773.980	375.281	-.397	21.67	0 840112	8 105	41 149	P,W	XLNT
1172	4 TTNA	4 127	2 1	671P		44.421	840109	829.732	375.252	-.397	22.04	0 840117	8 100	41 151	RP	XLNT
1173	4 TTNA	4 127	2 1	672P		43.722	840110	828.073	375.238	-.397	21.86	0 840117	8 103	42 3	RP	VERY GOOD
1185	2 TTNA	3 43	4 1	647PA-02		43.543	840104	807.968	375.286	-.406	21.30	0 840131	8 94	42 37	CK	XLNT
1186	2 TTNA	4 125	1 1	724P -02		41.105	840106	805.764	375.256	-.406	21.12	0 840131	8 97	42 35	CC	XLNT
1208	2 TTNA	3 43	4 1	647PA-03		43.543	840104	808.460	375.288	-.406	21.62	0 840223	8 94	42 96	MJ	XLNT

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 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 2. QUARTZ SPIRAL MANOMETER MEASUREMENTS (ORDERED BY ANALYSIS DATE, EXTRACTION DATE)

REC NO.	EXP CODE	STN LEG	CAST	NISKIN	BOTTLE TYPE	RUN SUBRUN	ALIQUOT (G)	EXTRAC DATE	ZERO COUNT	T(C)	ANALYSIS DATE	EXTRAC BK	PG	ANALYS PAGE	SEA OBS	RUN REMARKS
151	2	TTNA	3	43	4	1	647PA-01	43.543 840104	-10	36993	38.83	840117	8	94	312	MJ
152	4	TTNA	3	43	4	1	648PB-01	46.372 840105	-8	39426	38.84	840117	8	95	313	MJ
153	4	TTNA	5	141	2	1	707P	41.116 840111	-11	35475	38.83	840117	8	105	312	RW+
154	4	TTNA	5	141	2	1	708P	39.451 840111	-9	33680	38.82	840117	8	105	313	RW+
158	2	TTNA	3	43	4	1	647PA-02	43.543 840104	12	37012	38.82	840118	8	94	316	MJ
159	4	TTNA	3	43	4	1	648PB-02	46.372 840105	12	39474	38.83	840118	8	95	317	MJ
160	2	TTNA	4	125	1	1	724P -01	41.105 840106	13	36851	38.84	840118	8	97	316	CC
161	1	TTNA	4	126	2	1	670P	39.448 840109	16	34213	38.83	840118	8	101	315	RP
162	4	TTNA	4	127	2	1	671P	44.421 840109	13	38754	38.79	840118	8	101	316	RP
163	4	TTNA	4	127	2	1	672P	43.722 840110	12	38654	38.80	840118	8	103	317	RP
165	4	TTNA	3	43	4	1	648PB-03	46.372 840105	12	39411	38.90	840120	8	95	319	MJ
166	2	TTNA	4	125	1	1	724P -02	41.105 840106	10	36853	38.85	840120	8	97	318	CC
182	2	TTNA	3	43	4	1	647PA-03	43.543 840104	1	37018	38.88	840127	8	94	323	MJ
183	2	TTNA	4	125	1	1	724P -03	41.105 840106	3	36858	38.93	840127	8	97	324	CC
187	2	TTNA	3	43	4	1	647PA-04	43.543 840104	-6	36993	38.85	840203	8	94	325	MJ
197	2	TTNA	3	43	4	1	647PA-05	43.543 840104	0	36999	38.88	840210	8	94	332	MJ
221	2	TTNA	3	43	4	1	647PA-06	43.543 840104	-1	36988	38.84	840224	8	94	337	MJ
234	2	TTNA	3	43	4	1	647PA-07	43.543 840104	5	37031	38.93	840301	8	94	342	MJ

 CODE (SAMPLE CODE):
 1 = SAMPLE ANALYZED ON QUARTZ SPIRAL MANOMETER ONLY
 2 = QUARTZ SPIRAL CALIBRATION STANDARD
 4 = SAMPLE ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS (DOES NOT QUALIFY AS A STANDARD)
 BOTTLE TYPE:
 P = PYREX

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 3. QUARTZ SPIRAL MANOMETER CONVERSION FACTORS, VERSION 13 JUNE 1985

RECORD NO.	EFFECTIVE DATE		CONVERSION FACTOR
	BEGIN	END	MOLES CARBON/COUNT X 10 ⁻⁹
3	840117	840118	2.41211
4	840120	840224	2.41174
5	840301	840330	2.41273

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 4. DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMETER VOLUME (CC)	ALIQUT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)	
416	1	TTNA	0	3 5 44	289PA	810127	810128	868.300	374.709	-0.344	22.10	3.7974	46.380	13.5407	-125.952	10.154399	2189.39
417	1	TTNA	0	3 5 44	289PB	810127	810128	851.737	374.728	-0.344	22.34	3.7974	44.782	13.5401	-125.723	9.803427	2189.14
418	1	TTNA	0	3 5 44	290PA	810128	810129	820.314	374.717	-0.344	21.97	3.7974	41.060	13.5410	-126.077	9.167625	2200.27
419	1	TTNA	0	3 5 44	290PB	810128	810129	832.136	374.724	-0.344	22.47	3.7974	42.875	13.5398	-125.598	9.394721	2191.19
420	1	TTNA	0	3 5 45	287PA	810129	810129	834.764	374.730	-0.344	22.72	3.7974	43.365	13.5392	-125.360	9.440289	2176.94
421	1	TTNA	0	3 5 45	287PB	810129	810130	828.740	374.756	-0.344	22.07	3.7974	42.895	13.5408	-125.981	9.337484	2176.82
422	1	TTNA	0	3 5 48	285PA	810200	810200	832.968	374.896	-0.374	22.17	3.7974	43.370	13.5405	-125.885	9.417800	2171.52
423	1	TTNA	0	3 5 48	285PB	810200	810200	848.577	374.860	-0.374	22.62	3.7974	44.799	13.5394	-125.455	9.725074	2170.82
424	1	TTNA	0	3 5 47	283PA	810210	810210	826.675	374.868	-0.374	22.59	3.7974	42.896	13.5395	-125.484	9.315751	2171.71
425	1	TTNA	0	3 5 47	283PB	810210	810211	828.090	374.880	-0.374	22.53	3.7974	42.845	13.5397	-125.541	9.305457	2171.89
426	1	TTNA	0	3 5 46	281PA	810211	810211	840.572	374.907	-0.374	22.88	3.7974	43.952	13.5388	-125.208	9.550181	2172.87
427	1	TTNA	0	3 5 46	281PB	810211	810212	847.356	374.888	-0.374	22.46	3.7974	44.068	13.5398	-125.608	9.704918	2172.68
428	1	TTNA	0	3 5 42	279PA	810212	810212	843.066	374.896	-0.374	21.75	3.7974	44.426	13.5416	-126.288	9.640921	2170.11
429	1	TTNA	0	3 5 42	279PB	810212	810212	848.152	374.918	-0.374	21.59	3.7974	44.945	13.5420	-126.442	9.751257	2169.60
430	1	TTNA	0	3 5 41	278PA	810213	810213	812.755	374.908	-0.374	21.13	3.7974	41.068	13.5431	-126.885	9.034300	2168.16
431	1	TTNA	0	3 5 41	278PB	810213	810214	823.128	374.902	-0.374	21.43	3.7974	42.611	13.5424	-126.596	9.239244	2168.28
432	1	TTNA	0	13 3 33	303P	810217	810217	826.790	374.867	-0.374	21.73	3.7974	42.907	13.5416	-126.307	9.305711	2168.81
433	1	TTNA	0	13 3 33	304P	810217	810217	826.702	374.912	-0.374	21.89	3.7974	42.860	13.5412	-126.153	9.297595	2169.29
434	1	TTNA	0	13 3 21	301P	810218	810218	827.771	374.902	-0.374	21.28	3.7974	43.354	13.5427	-126.740	9.340430	2154.46
435	1	TTNA	0	13 3 21	302P	810218	810219	842.108	374.914	-0.374	21.30	3.7974	44.719	13.5427	-126.721	9.636389	2154.88
436	1	TTNA	0	13 3 12	299P	810219	810220	844.642	374.916	-0.374	21.43	3.7974	44.689	13.5424	-126.596	9.684276	2167.04
437	1	TTNA	0	13 3 12	300P	810219	810220	847.654	374.915	-0.374	21.60	3.7974	44.946	13.5419	-126.432	9.740664	2167.19
438	1	TTNA	0	13 3 2	297P	810223	810223	786.084	374.902	-0.374	21.75	3.7974	41.692	13.5416	-126.288	8.463116	2029.91
439	1	TTNA	0	13 3 2	298P	810223	810224	795.986	374.942	-0.374	21.91	3.7974	42.655	13.5412	-126.134	8.661877	2030.68
440	1	TTNA	0	13 3 2	298P	810223	810224	796.057	374.920	-0.374	21.97	3.7974	42.655	13.5410	-126.077	8.661925	2030.69
468	1	TTNA	0	23 3 2	305P	810330	810330	805.038	374.946	-0.374	21.58	3.7974	44.088	13.5420	-126.451	8.859288	1982.47
469	1	TTNA	0	23 3 2	306P	810330	810331	812.271	374.994	-0.374	21.62	3.7974	44.966	13.5419	-126.413	9.006544	2002.97
470	1	TTNA	0	23 3 16	307P	810331	810331	836.610	375.006	-0.374	21.49	3.7974	44.448	13.5422	-126.538	9.514095	2140.50
471	1	TTNA	0	23 3 16	308P	810331	810401	836.448	375.001	-0.374	21.50	3.7974	43.968	13.5422	-126.528	9.510503	2163.05
472	1	TTNA	0	4 2 2	293P	810401	810402	794.182	374.990	-0.374	21.71	3.7974	42.698	13.5417	-126.326	8.629438	2021.04
473	1	TTNA	0	4 2 2	294P	810401	810402	796.412	375.010	-0.374	21.57	3.7974	42.946	13.5420	-126.461	8.679903	2021.12
474	1	TTNA	0	4 2 24	295P	810402	810402	826.604	374.998	-0.374	21.52	3.7974	42.893	13.5421	-126.509	9.306208	2169.63
475	1	TTNA	0	4 2 24	296P	810402	810403	831.785	375.016	-0.374	21.48	3.7974	43.387	13.5422	-126.547	9.414386	2169.86
541	1	TTNA	1	1 2 27	309P	810528	810527	815.544	374.970	-0.358	21.49	3.7974	43.400	13.5422	-126.538	9.079306	2092.01

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQOUT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)		
542	1	TTNA	1	1 2 27	310P	810528	810529	831.472	374.980	-0.358	21.69	3.7974	44.822	13.5417	-126.345	9.402269	2097.69	
543	1	TTNA	1	3 1 1	311P	810601	810601	848.379	374.978	-0.358	21.63	3.7974	46.419	13.5419	-126.403	9.753635	2101.22	
544	1	TTNA	1	3 1 1	312P	810601	810602	823.681	374.978	-0.358	21.34	3.7974	44.035	13.5426	-126.682	9.252494	2101.17	
545	1	TTNA	1	5 2 1	313P	810602	810603	796.742	374.962	-0.358	20.95	3.7974	42.966	13.5435	-127.059	8.707521	2026.81	
546	1	TTNA	1	5 2 1	314P	810602	810603	795.307	374.971	-0.358	21.74	3.7974	42.716	13.5416	-126.297	8.652887	2025.68	
547	1	TTNA	1	6 2 1	315P	810603	810603	785.135	374.964	-0.358	21.87	3.7974	41.742	13.5413	-126.173	8.438910	2021.68	
548	1	TTNA	1	6 2 1	316P	810603	810603	800.477	375.002	-0.358	21.10	3.7974	43.446	13.5432	-126.914	8.779333	2020.75	
549	1	TTNA	1	7 3 1	318P	810604	810605	830.474	374.993	-0.358	21.32	3.7974	45.682	13.5426	-126.701	9.393491	2056.28	
550	1	TTNA	1	8 3 1	319P	810604	810605	818.550	374.984	-0.358	21.94	3.7974	44.501	13.5411	-126.106	9.126378	2050.83	
551	1	TTNA	1	8 3 1	320P	810608	810608	803.658	374.985	-0.358	22.16	3.7974	42.953	13.5406	-126.895	8.811818	2051.50	
552	1	TTNA	1	11 2 1	321P	810608	810609	821.139	374.989	-0.358	21.91	3.7974	44.777	13.5412	-126.134	9.180743	2050.33	
553	1	TTNA	1	11 2 1	322P	810609	810609	803.424	375.026	-0.358	22.06	3.7974	42.971	13.5408	-126.991	8.809315	2050.06	
554	1	TTNA	1	13 1 69	324P	-01A	810609	810609	829.500	374.988	-0.358	22.15	3.7974	46.442	13.5406	-126.904	9.345403	2012.27
555	1	TTNA	1	13 1 69	324P	-01B	810609	810610	828.133	374.988	-0.358	21.33	3.7974	46.442	13.5426	-126.692	9.344789	2012.14
556	1	TTNA	2	15 2 1	341P	810610	810610	786.894	374.988	-0.358	21.84	3.7974	41.743	13.5414	-126.201	8.475655	2030.44	
557	1	TTNA	2	15 2 1	342P	810610	810610	803.900	374.986	-0.358	22.13	3.7974	43.435	13.5406	-126.923	8.817743	2030.10	
558	1	TTNA	2	16 2 1	343P	810610	810611	820.752	374.980	-0.358	21.39	3.7974	45.678	13.5425	-126.634	9.190161	2011.94	
559	1	TTNA	2	16 2 1	344P	810610	810611	810.106	374.994	-0.358	21.84	3.7974	44.494	13.5414	-126.201	8.955003	2012.63	
560	1	TTNA	2	20 2 1	345P	810611	810611	798.002	375.004	-0.358	22.00	3.7974	42.729	13.5410	-126.048	8.699737	2036.03	
561	1	TTNA	2	20 2 1	346P	810611	810611	811.088	374.982	-0.358	22.28	3.7974	44.031	13.5403	-126.780	8.961323	2035.23	
562	1	TTNA	2	22 1 1	347P	810612	810612	796.848	375.014	-0.358	21.50	3.7974	42.938	13.5422	-126.528	8.691360	2024.17	
563	1	TTNA	2	22 1 1	348P	810612	810612	801.636	374.978	-0.358	22.24	3.7974	43.344	13.5404	-126.818	8.767716	2022.82	
564	1	TTNA	2	24 2 1	445P	810615	810615	833.210	374.996	-0.358	22.16	3.7974	46.448	13.5406	-126.895	9.421481	2028.39	
565	1	TTNA	2	24 2 1	446P	810615	810616	813.980	374.964	-0.358	21.64	3.7974	44.775	13.5418	-126.393	9.042180	2019.47	
566	1	TTNA	2	26 2 1	447P	810616	810616	821.110	374.964	-0.358	23.18	3.7974	45.693	13.5381	-124.923	9.138811	2000.06	
567	1	TTNA	2	28 3 1	450P	810616	810616	804.060	374.974	-0.358	23.82	3.7974	44.466	13.5365	-124.317	8.767918	1971.83	
568	1	TTNA	2	29 1 1	451P	810617	810617	777.894	374.994	-0.358	23.61	3.7974	41.723	13.5370	-124.515	8.237128	1974.24	
569	1	TTNA	2	29 1 1	452P	810617	810617	796.024	374.978	-0.358	24.76	3.7974	43.420	13.5342	-123.432	8.574164	1974.70	
570	1	TTNA	2	32 2 1	493P	810618	810618	780.450	374.968	-0.358	23.25	3.7974	43.288	13.5379	-124.858	8.300810	1917.58	
571	1	TTNA	2	32 2 1	494P	810618	810619	773.547	374.982	-0.358	22.16	3.7974	42.651	13.5406	-126.895	8.190708	1920.40	
572	1	TTNA	2	32 0 0	495P	810619	810619	777.061	374.970	-0.358	23.33	3.7974	42.883	13.5377	-124.780	8.228781	1918.89	
573	1	TTNA	2	32 0 0	496P	810619	810619	787.716	374.970	-0.358	23.69	3.7974	43.984	13.5368	-124.439	8.436747	1919.01	
574	1	TTNA	2	32 3 44	497P	810622	810622	845.822	374.983	-0.358	22.92	3.7974	44.442	13.5387	-126.170	9.655660	2172.64	
575	1	TTNA	2	32 3 44	498P	810622	810623	847.280	374.975	-0.358	22.10	3.7974	44.713	13.5407	-126.952	9.714477	2172.63	

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TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQUT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)	
576	1	TTNA	2	32 4 41	499P	810623	810623	812.604	374.973	-0.358	23.49	3.7974	43.353	13.5373	-124.629	8.953769	2065.32
577	1	TTNA	2	32 4 41	500P	810623	810624	806.918	374.970	-0.358	23.65	3.7974	42.744	13.5369	-124.477	8.831996	2066.25
578	1	TTNA	2	32 4 43	505P	810624	810624	811.634	374.968	-0.358	26.20	3.7974	41.745	13.5306	-122.091	8.847939	2119.52
579	1	TTNA	2	32 4 43	506P	810624	810625	837.164	374.974	-0.358	24.89	3.7974	44.558	13.5338	-123.311	9.410942	2112.07
580	1	TTNA	2	38 0 0	599P	810626	810626	802.046	375.016	-0.358	22.21	3.7974	42.918	13.5404	-125.847	8.776337	2044.91
581	1	TTNA	2	38 0 0	600P	810626	810626	807.386	374.982	-0.358	22.60	3.7974	43.428	13.5395	-125.474	8.874741	2043.55
582	1	TTNA	2	38 2 1	601P	810629	810629	836.328	375.003	-0.358	22.00	3.7974	46.456	13.5410	-126.048	9.491171	2043.05
583	1	TTNA	2	38 2 1	602P	810629	810630	828.816	375.001	-0.358	21.97	3.7974	45.698	13.5410	-126.077	9.337070	2043.21
584	1	TTNA	2	38 2 2	603P	810629	810630	817.652	374.998	-0.358	22.36	3.7974	44.511	13.5401	-125.703	9.093774	2043.04
585	1	TTNA	2	38 2 2	604P	810630	810630	813.141	375.008	-0.358	22.56	3.7974	44.059	13.5396	-125.513	8.994067	2041.37
586	1	TTNA	2	38 2 3	381P	810630	810701	823.038	374.982	-0.358	21.97	3.7974	44.787	13.5410	-126.077	9.218122	2058.21
587	1	TTNA	2	38 2 3	382P	810701	810701	793.358	374.998	-0.358	22.33	3.7974	41.753	13.5401	-125.732	8.593778	2058.24
588	1	TTNA	2	38 2 5	384P	810701	810702	808.680	375.001	-0.358	22.18	3.7974	42.705	13.5405	-125.876	8.914471	2087.45
589	1	TTNA	2	38 2 7	385P	810706	810706	830.468	374.968	-0.358	23.36	3.7974	44.547	13.5376	-124.752	9.325136	2093.33
590	1	TTNA	2	38 2 7	386P	810706	810707	840.920	375.012	-0.358	22.44	3.7974	45.676	13.5399	-125.627	9.570652	2095.33
591	1	TTNA	2	38 2 10	387P	810707	810707	830.122	375.004	-0.358	23.61	3.7974	42.910	13.5370	-124.515	9.308934	2169.41
592	1	TTNA	2	38 2 10	388P	810707	810707	835.580	375.000	-0.358	23.78	3.7974	43.390	13.5366	-124.354	9.415348	2169.94
593	1	TTNA	2	38 2 12	389P	810708	810708	845.774	375.020	-0.358	22.73	3.7974	43.966	13.5392	-125.350	9.660508	2197.27
594	1	TTNA	2	38 2 12	390P	810708	810709	852.767	375.012	-0.358	22.15	3.7974	44.700	13.5406	-125.904	9.825256	2198.04
595	1	TTNA	2	38 2 18	391P	810709	810709	832.705	374.998	-0.358	22.60	3.7974	43.290	13.5395	-125.474	9.396119	2170.51
596	1	TTNA	2	38 2 18	392P	810709	810709	826.774	375.002	-0.358	23.00	3.7974	42.654	13.5385	-125.094	9.260484	2171.07
597	1	TTNA	2	38 2 20	393P	810710	810710	817.692	375.016	-0.358	22.50	3.7974	41.692	13.5397	-125.570	9.089647	2180.19
598	1	TTNA	2	38 2 20	394P	810710	810710	847.235	375.006	-0.358	22.82	3.7974	44.444	13.5389	-125.265	9.687761	2179.77
599	1	TTNA	2	38 2 22	395P	810713	810713	831.193	375.074	-0.358	22.38	3.7974	42.888	13.5400	-125.684	9.370602	2184.90
600	1	TTNA	2	38 2 22	396P	810713	810713	837.628	375.075	-0.358	23.11	3.7974	43.390	13.5382	-124.989	9.478598	2184.51
601	1	TTNA	2	32 4 44	567P	810720	810720	862.278	375.034	-0.358	22.67	3.7974	46.402	13.5393	-125.408	10.002447	2155.61
602	1	TTNA	2	32 4 44	568P	810720	810721	854.384	375.032	-0.358	22.53	3.7974	45.674	13.5397	-125.541	9.844746	2155.44
603	1	TTNA	2	32 4 44	568P	810720	810721	855.622	375.030	-0.358	23.23	3.7974	45.674	13.5379	-124.875	9.845499	2155.60
604	1	TTNA	2	32 4 45	569P	810721	810722	847.614	375.028	-0.358	22.01	3.7974	44.456	13.5409	-126.038	9.723435	2187.20
605	1	TTNA	2	32 4 45	570P	810721	810722	843.626	375.026	-0.358	22.37	3.7974	44.011	13.5400	-125.694	9.628598	2187.77
606	1	TTNA	2	32 4 47	571P	810722	810722	825.628	375.010	-0.358	22.61	3.7974	41.679	13.5395	-125.465	9.249696	2219.27
607	1	TTNA	2	32 4 47	572P	810722	810723	837.786	375.018	-0.358	21.88	3.7974	42.896	13.5413	-126.163	9.525098	2220.51
608	1	TTNA	2	32 5 44	485P	810722	810723	840.653	375.028	-0.358	22.17	3.7974	43.372	13.5405	-125.885	9.574122	2207.44
609	1	TTNA	2	32 5 44	486P	810723	810723	840.044	375.020	-0.358	22.45	3.7974	43.288	13.5399	-125.618	9.552077	2206.63

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMETER VOLUME (CC)	ALIQOUT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)
610	1	TTNA	2	32 5 45	487P	810723	810723	824.107	375.026	-0.358	22.72	3.7974	42.650	13.5392	-125.360	9.214379 2160.46
611	1	TTNA	2	32 5 45	488P	810723	810724	844.405	375.048	-0.358	21.93	3.7974	44.709	13.5411	-126.115	9.659519 2160.53
612	1	TTNA	2	32 5 48	489P	810727	810727	844.582	375.062	-0.358	21.84	3.7974	44.432	13.5414	-126.201	9.665612 2175.37
613	1	TTNA	2	32 5 48	490P	810727	810728	839.783	375.064	-0.358	21.80	3.7974	43.983	13.5415	-126.240	9.568175 2175.43
614	1	TTNA	2	34 2 1	491P	810728	810728	814.443	375.031	-0.358	22.15	3.7974	46.400	13.5406	-125.904	9.033744 1946.93
615	1	TTNA	2	34 2 1	492P	810728	810729	806.682	375.047	-0.358	21.77	3.7974	45.641	13.5415	-126.269	8.885413 1946.81
616	1	TTNA	2	34 0 0	477P	810729	810729	769.618	375.040	-0.358	22.03	3.7974	41.686	13.5409	-126.019	8.112272 1946.04
617	1	TTNA	2	34 0 0	478P	810729	810729	781.328	375.060	-0.358	22.23	3.7974	42.893	13.5404	-125.828	8.347488 1946.12
618	1	TTNA	2	34 2 2	479P	810729	810730	804.018	375.062	-0.358	21.56	3.7974	43.465	13.5420	-126.470	8.836746 2033.07
619	1	TTNA	2	34 2 2	480P	810730	810730	803.892	375.060	-0.358	22.00	3.7974	43.375	13.5410	-126.048	8.820180 2033.47
620	1	TTNA	2	34 2 4	481P	810730	810730	810.469	375.046	-0.358	22.19	3.7974	42.730	13.5405	-125.866	8.950134 2094.58
621	1	TTNA	2	34 2 4	482P	810731	810731	827.478	375.044	-0.358	21.75	3.7974	44.505	13.5416	-126.288	9.315892 2093.22
622	1	TTNA	2	34 2 6	483P	810731	810731	828.520	375.048	-0.358	22.05	3.7974	44.041	13.5408	-126.000	9.327296 2117.87
623	1	TTNA	2	34 2 6	484P	810908	810908	833.077	374.816	-0.351	22.21	3.7974	44.476	13.5404	-125.847	9.420898 2118.20
624	1	TTNA	2	34 2 8	581P	810908	810909	833.056	374.845	-0.351	21.58	3.7974	44.012	13.5420	-126.451	9.441291 2145.16
625	1	TTNA	2	34 2 8	582P	810909	810910	828.692	374.816	-0.351	21.56	3.7974	43.429	13.5420	-126.470	9.310925 2143.94
626	1	TTNA	2	34 2 11	583P	810909	810910	839.843	374.844	-0.351	22.39	3.7974	43.309	13.5400	-125.675	9.553770 2205.95
627	1	TTNA	2	34 2 11	584P	810910	810910	833.296	374.824	-0.351	22.49	3.7974	42.657	13.5398	-125.579	9.415755 2207.32
628	1	TTNA	2	34 2 13	585P	810910	810911	864.170	374.834	-0.351	21.22	3.7974	45.650	13.5429	-126.798	10.098405 2212.14
629	1	TTNA	2	34 2 13	586P	810911	810911	822.790	374.848	-0.351	21.76	3.7974	41.688	13.5415	-126.278	9.222893 2212.36
630	1	TTNA	2	34 2 18	587P	810911	810911	828.596	374.840	-0.351	22.14	3.7974	42.894	13.5406	-125.914	9.288994 2165.57
631	1	TTNA	2	34 2 18	588P	810915	810916	842.042	375.172	-0.346	21.39	3.7974	44.461	13.5425	-126.634	9.627127 2165.30
632	1	TTNA	2	34 2 20	629P	810915	810916	841.316	375.174	-0.346	22.36	3.7974	43.989	13.5401	-125.703	9.578484 2177.47
633	1	TTNA	2	34 2 20	630P	810916	810916	835.970	375.142	-0.346	23.09	3.7974	43.345	13.5383	-125.808	9.444037 2178.81
634	1	TTNA	2	34 2 22	631P	810916	810917	835.445	375.179	-0.346	21.72	3.7974	43.314	13.5416	-126.317	9.479114 2188.46
635	1	TTNA	2	34 2 22	632P	810917	810917	820.932	375.176	-0.346	22.95	3.7974	41.682	13.5386	-125.141	9.138584 2192.45
636	1	TTNA	2	36 2 7	633P	810917	810918	812.004	375.160	-0.346	21.43	3.7974	42.703	13.5424	-126.596	9.004342 2108.60
637	1	TTNA	2	36 2 7	634P	810917	810918	851.770	375.141	-0.346	22.12	3.7974	46.454	13.5407	-125.933	9.803314 2110.33
638	1	TTNA	2	36 0 0	363P	810918	810918	795.022	375.150	-0.346	22.74	3.7974	42.933	13.5391	-125.341	8.612495 2006.03
639	1	TTNA	2	36 0 0	364P	810918	810918	821.678	375.142	-0.346	22.94	3.7974	45.691	13.5386	-125.151	9.154965 2003.67
640	1	TTNA	2	36 2 12	635P	810921	810921	849.490	375.137	-0.346	21.48	3.7974	44.453	13.5422	-126.547	9.778872 2199.82
641	1	TTNA	2	36 2 12	636P	810921	810921	845.542	375.148	-0.346	21.96	3.7974	44.006	13.5411	-126.086	9.680147 2199.73
642	1	TTNA	2	36 2 16	357P	810922	810922	826.254	375.152	-0.346	21.49	3.7974	42.878	13.5422	-126.538	9.297367 2168.33
643	1	TTNA	2	36 2 16	358P	810922	810923	830.694	375.167	-0.346	21.01	3.7974	43.366	13.5434	-127.001	9.405225 2168.80

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TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQUT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)	
644	1	TTNA	2	36 2 18	359P	810923	810923	815.338	375.166	-0.346	21.56	3.7974	41.685	13.5420	-126.470	9.068946	2175.59
645	1	TTNA	2	36 2 18	360P	810923	810923	826.092	375.153	-0.346	21.91	3.7974	42.673	13.5412	-126.134	9.279922	2174.66
646	1	TTNA	2	36 4 40	549P	810924	810924	826.156	375.150	-0.346	21.26	3.7974	46.425	13.5428	-126.759	9.303106	2003.96
647	1	TTNA	2	36 4 40	550P	810924	810924	819.756	375.143	-0.346	21.71	3.7974	45.691	13.5417	-126.326	9.155841	2003.86
648	1	TTNA	2	36 2 20	361P	810925	810925	844.316	375.147	-0.346	21.64	3.7974	44.442	13.5418	-126.393	9.665992	2174.97
649	8	TTNA	2	36 2 20	362P	810925	0	0.000	0.000	0.000	0.00	3.7974	43.977	0.0000	0.000	0.000000	0.00
650	1	TTNA	2	36 4 45	551P	810928	810928	784.871	375.112	-0.346	21.46	3.7974	41.753	13.5423	-126.567	8.443120	2022.16
651	1	TTNA	2	36 4 45	552P	810928	810928	803.438	375.147	-0.346	21.62	3.7974	43.415	13.5419	-126.413	8.821334	2031.86
652	1	TTNA	2	36 4 44	553P	810929	810929	837.158	375.155	-0.346	21.10	3.7974	45.708	13.5432	-126.914	9.530361	2086.37
653	1	TTNA	2	36 4 44	554P	810929	810929	825.402	375.168	-0.346	21.46	3.7974	44.509	13.5423	-126.567	9.280413	2085.06
654	1	TTNA	2	36 4 41	555P	810929	810930	822.000	375.144	-0.346	21.08	3.7974	44.063	13.5432	-126.938	9.223169	2093.18
655	1	TTNA	2	36 4 41	556P	810930	810930	811.754	375.138	-0.346	21.41	3.7974	42.959	13.5424	-126.615	9.000274	2095.08
656	1	TTNA	2	36 4 47	597P	810930	810930	828.679	375.165	-0.346	21.68	3.7974	42.675	13.5417	-126.355	9.340866	2188.84
657	1	TTNA	2	39 2 1	437P	811001	811005	809.808	375.139	-0.346	21.46	3.7974	44.078	13.5423	-126.567	8.958370	2032.39
658	1	TTNA	2	39 2 1	438P	811005	811005	786.873	375.145	-0.346	21.52	3.7974	41.738	13.5421	-126.509	8.482006	2032.20
659	1	TTNA	2	39 2 1	439P	811005	811005	803.376	375.165	-0.346	21.59	3.7974	43.404	13.5420	-126.442	8.820034	2032.22
660	1	TTNA	2	40 2 1	440PA	811006	811007	833.848	375.168	-0.346	20.95	3.7974	46.484	13.5435	-127.059	9.472638	2037.83
661	1	TTNA	2	40 2 1	440PB	811006	811007	826.622	375.166	-0.346	21.18	3.7974	45.719	13.5430	-126.836	9.315117	2037.47
662	1	TTNA	2	40 2 1	441PA	811007	811007	815.468	375.160	-0.346	21.36	3.7974	44.526	13.5425	-126.663	9.078311	2038.88
663	1	TTNA	2	40 2 1	441PB	811007	811007	811.176	375.176	-0.346	21.56	3.7974	44.084	13.5420	-126.470	8.982663	2037.62
664	1	TTNA	2	41 1 1	442PA	811008	811008	801.440	375.180	-0.346	20.91	3.7974	42.959	13.5436	-127.097	8.801883	2048.90
665	1	TTNA	2	41 1 1	442PB	811008	811009	799.608	375.184	-0.346	21.30	3.7974	42.726	13.5427	-126.721	8.751448	2048.27
666	1	TTNA	2	41 1 1	443PA	811009	811009	817.284	375.188	-0.346	21.38	3.7974	44.516	13.5425	-126.644	9.114660	2047.50
667	1	TTNA	2	41 1 1	443PB	811009	811009	812.980	375.184	-0.346	21.43	3.7974	44.077	13.5424	-126.598	9.024454	2047.43
668	1	TTNA	2	36 4 47	598P	811001	811010	847.376	375.162	-0.346	21.11	3.7974	44.477	13.5431	-126.904	9.747627	2191.61
667	1	TTNA	0	3 5 42	280PA	811022	811022	826.880	375.167	-0.346	21.70	3.7974	42.898	13.5417	-126.336	9.302956	2168.62
668	1	TTNA	0	3 5 42	280PB	811022	811023	823.950	375.146	-0.346	21.47	3.7974	42.645	13.5423	-126.557	9.250489	2169.19
669	1	TTNA	0	3 5 47	284PA	811023	811023	844.028	375.171	-0.346	21.69	3.7974	44.469	13.5417	-126.345	9.657795	2171.80
690	1	TTNA	0	3 5 47	284PB	811023	811023	839.469	375.164	-0.346	21.79	3.7974	44.017	13.5415	-126.249	9.560210	2171.94
691	1	TTNA	0	3 5 45	288PA	811027	811028	800.776	375.150	-0.346	21.17	3.7974	40.358	13.5430	-126.846	8.780489	2175.65
692	1	TTNA	0	3 5 45	288PB	811027	811028	791.842	375.174	-0.346	21.82	3.7974	39.407	13.5414	-126.221	8.574873	2175.98
824	1	TTNA	0	3 5 41	277PA	820203	820203	824.298	374.957	-0.373	21.86	3.7974	42.681	13.5418	-126.374	9.254693	2168.34
825	1	TTNA	0	3 5 41	277PB	820203	820203	830.985	374.970	-0.373	21.93	3.7974	43.274	13.5411	-126.115	9.383555	2168.40
826	1	TTNA	0	3 5 46	282PA	820204	820204	826.928	374.975	-0.373	21.50	3.7974	42.902	13.5422	-126.528	9.314080	2171.01

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REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQUOT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)	
827	1	TTNA	0	3 5 46	282PB	820204	820205	826.205	374.961	-0.373	21.29	3.7974	42.853	13.5427	-126.730	9.306467	2171.72
828	1	TTNA	0	3 5 48	286PA	820205	820205	824.748	374.980	-0.373	21.36	3.7974	42.678	13.5425	-126.663	9.273560	2172.91
829	1	TTNA	0	3 5 48	286PB	820205	820205	831.050	374.955	-0.373	21.59	3.7974	43.267	13.5420	-126.442	9.396727	2171.80
830	1	TTNA	7	224 1 1	781P	820219	820219	784.512	375.010	-0.373	21.38	3.7974	42.604	13.5425	-126.644	8.439683	1980.96
831	8	TTNA	7	224 1 1	782P	0	0	0.000	0.000	0.000	0.00	3.7974	0.000	0.0000	0.000	0.000000	0.00
832	1	TTNA	7	225 3 1	783P	820219	820219	819.945	375.012	-0.373	21.69	3.7974	46.362	13.5417	-126.345	9.162559	1976.31
833	1	TTNA	7	225 3 1	784P	820223	820224	786.162	374.997	-0.373	21.51	3.7974	42.836	13.5422	-126.519	8.470112	1977.33
834	1	TTNA	7	226 3 1	501P	820223	820224	818.086	375.016	-0.373	21.89	3.7974	45.626	13.5412	-126.153	9.117467	1998.31
835	1	TTNA	7	227 2 1	503P	820224	820224	795.968	375.004	-0.373	21.85	3.7974	42.689	13.5413	-126.192	8.662118	2029.12
836	1	TTNA	7	227 2 1	504P	820224	820225	832.702	375.011	-0.373	21.80	3.7974	46.445	13.5415	-126.240	9.422596	2028.76
837	1	TTNA	7	233 1 1	373P	820225	820225	799.047	375.018	-0.373	21.90	3.7974	42.941	13.5412	-126.144	8.723854	2031.59
838	1	TTNA	7	233 1 1	374P	820225	820228	825.383	374.990	-0.373	21.35	3.7974	45.692	13.5426	-126.673	9.286833	2032.49
839	1	TTNA	7	234 4 40	535P	820226	820226	795.304	374.996	-0.373	21.89	3.7974	42.713	13.5412	-126.153	8.647322	2024.52
840	1	TTNA	7	234 4 40	536P	820226	820226	831.779	374.985	-0.373	21.86	3.7974	46.465	13.5413	-126.182	9.402022	2023.46
841	1	TTNA	7	234 4 41	537P	820301	820301	803.383	375.003	-0.373	21.82	3.7974	42.945	13.5414	-126.221	8.816255	2052.92
842	1	TTNA	7	234 4 41	538P	820301	820302	830.380	374.999	-0.373	21.51	3.7974	45.705	13.5422	-126.519	9.384668	2053.31
843	1	TTNA	7	234 2 2	375P	820302	820302	807.628	375.022	-0.373	21.77	3.7974	42.721	13.5415	-126.269	8.905127	2084.48
844	1	TTNA	7	234 2 2	376P	820302	820303	774.079	375.016	-0.373	21.26	3.7974	39.461	13.5428	-126.759	8.227311	2084.92
845	1	TTNA	7	234 4 42	539P	820303	820303	809.422	375.012	-0.373	21.57	3.7974	42.940	13.5420	-126.461	8.948900	2084.05
846	1	TTNA	7	234 4 42	540P	820303	820303	837.208	375.006	-0.373	21.70	3.7974	45.692	13.5417	-126.336	9.519230	2083.35
847	1	TTNA	7	234 4 43	678P	820303	820304	816.988	375.006	-0.373	21.18	3.7974	43.300	13.5430	-126.836	9.118327	2105.85
848	1	TTNA	7	234 2 4	377P	820304	820304	780.340	375.002	-0.373	21.80	3.7974	39.457	13.5415	-126.240	8.340905	2113.92
849	1	TTNA	7	234 4 43	679P	820304	820304	811.804	374.991	-0.373	21.74	3.7974	42.717	13.5416	-126.297	8.993077	2105.27
850	1	TTNA	7	234 2 4	378P	820305	820305	815.571	375.018	-0.373	21.75	3.7974	42.908	13.5416	-126.288	9.070090	2113.85
851	1	TTNA	7	234 4 44	680P	820305	820305	847.276	375.011	-0.373	21.74	3.7974	45.675	13.5416	-126.297	9.725962	2129.38
852	1	TTNA	7	234 4 44	684P	820307	820308	817.262	374.980	-0.347	22.22	3.7974	42.699	13.5404	-125.837	9.090910	2129.07
853	1	TTNA	7	234 2 5	380P	820308	820308	787.119	374.983	-0.347	22.32	3.7974	39.435	13.5402	-125.742	8.465989	2146.82
854	1	TTNA	7	234 2 6	533P	820309	820309	829.282	374.994	-0.347	21.99	3.7974	42.890	13.5410	-126.058	9.346393	2179.15
855	1	TTNA	7	234 2 6	534P	820309	820309	858.204	374.981	-0.347	22.02	3.7974	45.630	13.5409	-126.029	9.943052	2179.06
856	1	TTNA	7	231 2 1	425P	820310	820311	831.818	375.010	-0.347	21.77	3.7974	46.465	13.5415	-126.269	9.405901	2024.30
857	1	TTNA	7	231 2 1	426P	820310	820311	801.188	374.988	-0.347	22.08	3.7974	43.330	13.5408	-125.971	8.763543	2022.51
858	8	TTNA	7	248 1 1	682P	820310	0	0.000	0.000	0.000	0.00	3.7974	0.000	0.0000	0.000	0.000000	0.00
859	1	TTNA	7	248 1 1	683P	820310	820311	779.675	374.984	-0.347	21.33	3.7974	42.576	13.5426	-126.692	8.342205	1959.37
860	1	TTNA	7	231 2 2	427P	820311	820311	806.125	375.020	-0.347	22.08	3.7974	42.931	13.5408	-125.971	8.864780	2064.89

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- 9 = PEREMPTORILY-REJECTED SAMPLE

BOTTLE TYPE:

P = PYREX

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQWOT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)	
861	1	TTNA	7	231 2 2	428P	820311	820312	770.638	374.994	-0.347	21.56	3.7974	39.444	13.5420	-126.470	8.148279	2065.78
862	1	TTNA	7	231 2 3	461P	820312	820312	846.358	374.998	-0.347	21.97	3.7974	46.456	13.5410	-126.077	9.699735	2087.94
863	1	TTNA	7	248 1 1	682P	820312	820312	780.705	375.000	-0.347	21.98	3.7974	42.579	13.5410	-126.067	8.343610	1959.56
864	1	TTNA	7	231 2 3	462P	820310	820316	807.162	374.994	-0.347	21.10	3.7974	42.697	13.5432	-126.914	8.918190	2088.72
865	1	TTNA	7	231 4 40	685P	820316	820316	840.290	374.993	-0.347	21.43	3.7974	45.686	13.5424	-126.596	9.593156	2099.80
866	1	TTNA	7	231 4 40	686P	820316	820317	776.278	374.997	-0.347	21.09	3.7974	39.443	13.5432	-126.923	8.278826	2098.93
867	1	TTNA	7	231 4 41	687P	820317	820317	816.912	375.010	-0.347	21.89	3.7974	42.919	13.5417	-126.345	9.100437	2120.37
868	1	TTNA	7	231 4 41	688P	820317	820318	818.759	374.984	-0.347	20.81	3.7974	43.278	13.5444	-127.388	9.174897	2119.99
869	1	TTNA	7	231 2 5	463P	820318	820318	817.695	375.000	-0.347	21.56	3.7974	42.692	13.5420	-126.470	9.121107	2136.49
870	1	TTNA	7	231 2 5	464P	820318	820318	848.458	374.998	-0.347	21.66	3.7974	45.676	13.5418	-126.374	9.754028	2135.48
871	1	TTNA	7	231 2 6	465P	820323	820323	824.832	375.010	-0.347	20.98	3.7974	42.669	13.5435	-127.030	9.287963	2176.75
872	1	TTNA	7	231 2 6	466P	820323	820324	855.922	375.003	-0.347	20.88	3.7974	45.644	13.5437	-127.126	9.936297	2176.91
873	1	TTNA	7	231 4 43	689P	820324	820324	828.338	374.993	-0.347	21.41	3.7974	42.911	13.5424	-126.615	9.346456	2178.10
874	1	TTNA	7	231 4 43	690P	820324	820325	791.024	374.974	-0.347	20.95	3.7974	39.429	13.5435	-127.059	8.589012	2178.35
875	1	TTNA	7	231 2 8	467P	820325	820325	825.046	374.991	-0.347	21.19	3.7974	42.667	13.5430	-126.827	9.285741	2176.33
876	1	TTNA	7	231 2 8	468P	820325	820325	857.446	375.005	-0.347	21.34	3.7974	45.665	13.5426	-126.682	9.951299	2179.20
877	1	TTNA	7	231 4 45	691P	820325	820326	830.526	375.004	-0.347	20.83	3.7974	43.274	13.5438	-127.175	9.411227	2174.80
878	1	TTNA	7	231 1 42	611P	820326	820326	787.287	375.000	-0.347	21.24	3.7974	39.419	13.5428	-126.779	8.502130	2156.86
879	1	TTNA	7	231 4 45	692P	820326	820326	827.424	375.021	-0.347	21.22	3.7974	42.914	13.5429	-126.798	9.333363	2174.90
880	1	TTNA	7	231 1 42	612P	820329	820329	820.394	375.012	-0.347	20.77	3.7974	42.675	13.5440	-127.233	9.202919	2156.51
881	1	TTNA	7	231 1 44	421P	820329	820329	853.254	375.018	-0.347	20.84	3.7974	45.648	13.5438	-127.165	9.882070	2164.84
882	1	TTNA	7	231 1 44	422P	820330	820331	824.736	375.002	-0.347	21.09	3.7974	42.899	13.5432	-126.923	9.282447	2163.79
883	1	TTNA	7	231 1 46	423P	820331	820331	824.333	375.002	-0.347	21.13	3.7974	42.682	13.5431	-126.885	9.272756	2172.52
884	1	TTNA	7	231 1 46	424P	820331	820401	855.438	375.028	-0.347	21.14	3.7974	45.638	13.5431	-126.875	9.916404	2172.84
885	1	TTNA	7	229 3 1	807P	820412	820413	797.916	374.966	-0.347	23.75	3.7974	42.710	13.5367	-124.383	8.644468	2023.99
886	1	TTNA	7	229 3 1	808P	820412	820413	829.279	375.008	-0.347	24.97	3.7974	45.691	13.5337	-123.236	9.246669	2023.74
887	1	TTNA	7	229 3 2	809P	820413	820414	803.990	374.946	-0.347	25.22	3.7974	42.929	13.5330	-123.002	8.723536	2032.08
888	1	TTNA	7	229 3 2	810P	820413	820414	837.299	374.953	-0.347	24.04	3.7974	46.455	13.5359	-124.109	9.443016	2032.72
889	1	TTNA	7	229 3 3	811P	820414	820414	809.504	374.950	-0.347	23.76	3.7974	42.717	13.5366	-124.373	8.882205	2079.31
890	1	TTNA	7	229 3 3	812P	820414	820415	840.226	374.938	-0.347	24.27	3.7974	45.695	13.5354	-123.892	9.495515	2078.02
891	1	TTNA	7	229 4 41	531P	820414	820415	776.163	374.948	-0.347	23.16	3.7974	39.456	13.5381	-124.942	8.216021	2082.32
892	1	TTNA	7	229 3 7	525P	820415	820415	815.241	374.984	-0.347	22.92	3.7974	42.925	13.5387	-125.170	9.026374	2102.82
893	1	TTNA	7	229 4 41	532P	820415	820415	847.622	374.960	-0.347	23.02	3.7974	46.459	13.5384	-125.075	9.689936	2085.70
894	1	TTNA	7	229 3 7	526P	820421	820421	812.617	374.994	-0.368	22.64	3.7974	42.691	13.5394	-125.436	8.980768	2103.67

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQOUT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)
895	1	TTNA	7	229 4 42	806P	820421	820422	820.090	374.965	-0.368	22.16	3.7974	43.286	13.5406	-125.895	9.151115 2114.10
896	1	TTNA	7	229 4 42	806P	820421	820422	795.165	374.969	-0.368	22.72	3.7974	40.790	13.5392	-125.360	8.619331 2113.10
897	1	TTNA	7	229 3 8	527P	820422	820422	818.098	374.967	-0.368	22.65	3.7974	42.911	13.5394	-125.427	9.093912 2119.25
898	1	TTNA	7	229 3 8	528P	820422	820423	781.129	374.964	-0.368	21.91	3.7974	39.433	13.5412	-126.134	8.364777 2118.73
899	1	TTNA	7	229 4 43	807P	820426	820427	802.484	374.954	-0.368	22.30	3.7974	40.986	13.5402	-125.761	8.783599 2143.07
900	1	TTNA	7	229 4 43	808P	820426	820427	820.477	374.944	-0.368	22.49	3.7974	42.684	13.5398	-125.579	9.148660 2143.35
901	1	TTNA	7	229 3 9	529P	820427	820427	806.356	374.943	-0.368	22.56	3.7974	40.747	13.5396	-125.513	8.855393 2173.26
902	1	TTNA	7	229 3 9	530P	820427	820428	791.718	374.968	-0.368	22.15	3.7974	39.419	13.5406	-125.904	8.565925 2173.04
903	1	TTNA	7	229 4 45	809P	820428	820428	826.026	374.966	-0.368	22.52	3.7974	42.661	13.5397	-125.551	9.261597 2170.98
904	1	TTNA	7	229 2 40	825P	820428	820429	828.930	374.978	-0.368	22.51	3.7974	43.263	13.5397	-125.560	9.321546 2154.62
905	1	TTNA	7	229 4 45	810P	820428	820429	856.942	374.954	-0.368	22.20	3.7974	45.638	13.5405	-125.856	9.910670 2171.58
906	1	TTNA	7	229 2 40	826P	820429	820430	804.424	374.974	-0.368	22.38	3.7974	40.945	13.5400	-125.684	8.820856 2154.27
907	1	TTNA	7	229 2 43	827P	820429	820430	803.283	374.970	-0.368	22.48	3.7974	40.745	13.5398	-125.589	8.794050 2158.31
908	1	TTNA	7	229 2 43	828P	820430	820430	813.111	374.984	-0.368	22.60	3.7974	41.666	13.5395	-125.474	8.992444 2158.22
909	1	TTNA	7	229 2 45	805P	820430	820430	790.838	374.978	-0.368	22.62	3.7974	39.379	13.5394	-125.455	8.533125 2166.92
910	1	TTNA	7	228 2 41	505P	820503	820504	845.619	374.968	-0.368	22.24	3.7974	46.461	13.5404	-125.818	9.675232 2082.44
911	1	TTNA	7	229 2 45	806P	820503	820504	873.299	374.999	-0.368	21.96	3.7974	42.658	13.5411	-126.086	10.256358 2404.32
912	1	TTNA	7	228 2 41	506P	820504	820504	813.700	374.988	-0.368	22.38	3.7974	43.299	13.5400	-125.684	9.011627 2081.26
913	1	TTNA	7	228 3 3	579P	820504	820504	838.337	374.996	-0.368	22.52	3.7974	45.696	13.5397	-125.551	9.514767 2082.19
914	9	TTNA	7	228 3 3	580P	820504	820505	813.620	375.002	-0.368	22.16	3.7974	43.302	13.5406	-125.895	9.016827 2082.31
915	1	TTNA	7	228 3 3	580P	820504	820505	813.627	374.982	-0.368	22.24	3.7974	43.302	13.5404	-125.818	9.014787 2081.84
916	1	TTNA	7	228 2 42	507P	820505	820505	791.064	374.972	-0.368	22.40	3.7974	40.995	13.5400	-125.665	8.544859 2084.32
917	1	TTNA	7	228 2 42	508P	820505	820505	846.422	374.986	-0.368	22.59	3.7974	46.451	13.5395	-125.484	9.679228 2083.75
918	1	TTNA	7	228 3 4	429P	820505	820505	790.115	374.970	-0.368	22.76	3.7974	40.793	13.5391	-125.322	8.514114 2087.15
919	1	TTNA	7	228 3 4	430P	820506	820507	808.531	375.006	-0.368	22.18	3.7974	42.702	13.5405	-125.876	8.911087 2086.81
920	1	TTNA	7	228 3 5	431P	820506	820507	778.019	374.992	-0.368	22.56	3.7974	39.451	13.5396	-125.513	8.270627 2096.43
921	1	TTNA	7	228 2 43	573P	820507	820507	842.438	374.980	-0.368	22.67	3.7974	45.680	13.5393	-125.408	9.594467 2100.36
922	1	TTNA	7	228 3 5	432P	820507	820507	817.398	374.974	-0.368	22.64	3.7974	43.292	13.5394	-125.436	9.079673 2097.31
923	1	TTNA	7	228 2 43	574P	820513	820513	811.105	374.954	-0.368	22.10	3.7974	42.691	13.5407	-125.952	8.967855 2100.64
924	1	TTNA	7	228 3 6	433P	820513	820514	781.354	374.950	-0.368	22.03	3.7974	39.438	13.5409	-126.019	8.356108 2118.79
925	1	TTNA	7	228 2 44	575P	820514	820514	853.264	374.968	-0.368	22.49	3.7974	45.659	13.5398	-125.579	9.824179 2151.64
926	1	TTNA	7	228 3 6	434P	820514	820514	820.961	374.961	-0.368	22.28	3.7974	43.272	13.5403	-125.780	9.165212 2118.05
927	1	TTNA	7	228 2 44	576P	820518	820518	821.296	374.986	-0.368	21.93	3.7974	42.683	13.5411	-126.115	9.183179 2151.48
928	1	TTNA	7	228 2 46	577P	820518	820518	805.275	375.010	-0.368	22.21	3.7974	40.739	13.5404	-125.847	8.842868 2170.61

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TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQOUT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)	
929	1	TTNA	7	228 2 48	578P	820518	820519	791.147	374.954	-0.368	22.16	3.7974	39.412	13.5406	-125.895	8.554125	2170.44
930	1	TTNA	7	228 4 41	435P	820519	820519	828.360	374.984	-0.368	22.50	3.7974	43.263	13.5397	-125.570	9.310007	2151.96
931	1	TTNA	7	228 4 41	436P	820519	820519	828.343	374.958	-0.368	22.71	3.7974	43.249	13.5392	-125.370	9.303162	2151.07
932	1	TTNA	7	228 4 44	821P	820519	820520	853.234	374.991	-0.368	22.23	3.7974	45.050	13.5404	-125.828	9.832290	2153.84
933	8	TTNA	7	228 4 44	822P	820520	0	0.000	0.000	0.000	0.00	3.7974	42.649	0.0000	0.000	0.000000	0.00
934	1	TTNA	7	228 4 46	823P	820520	820520	790.282	374.976	-0.368	22.55	3.7974	39.410	13.5396	-125.522	8.523859	2162.87
935	1	TTNA	7	228 4 46	824P	820524	820524	823.519	374.984	-0.368	22.00	3.7974	42.660	13.5410	-126.048	9.226811	2162.87
936	1	TTNA	6	214 0 0	697P	820524	820525	833.552	375.014	-0.368	21.86	3.7974	46.425	13.5413	-126.182	9.438184	2032.99
937	1	TTNA	6	214 0 0	698P	820524	820525	764.804	375.010	-0.368	22.18	3.7974	39.413	13.5405	-125.876	8.009033	2032.08
938	1	TTNA	6	214 7 1	699P	820525	820525	817.159	375.004	-0.368	22.38	3.7974	43.265	13.5400	-125.684	9.082623	2099.30
939	1	TTNA	6	214 7 1	700P	820525	820525	817.611	375.008	-0.368	22.53	3.7974	43.275	13.5397	-125.541	9.086955	2099.82
940	1	TTNA	6	214 7 2	509P	820525	820526	841.038	375.012	-0.368	22.10	3.7974	45.654	13.5407	-125.952	9.584611	2099.40
941	1	TTNA	6	214 7 2	510P	820526	820526	848.624	375.014	-0.368	22.03	3.7974	46.439	13.5409	-126.019	9.743679	2098.17
942	1	TTNA	6	214 7 4	511P	820526	820526	825.227	375.000	-0.368	22.15	3.7974	42.662	13.5406	-125.904	9.256749	2169.79
943	1	TTNA	6	214 7 5	513P	820526	820527	788.568	374.990	-0.368	22.24	3.7974	39.388	13.5404	-125.818	8.497731	2157.44
944	1	TTNA	6	214 7 5	514P	820527	820527	829.140	374.942	-0.368	22.29	3.7974	43.249	13.5402	-125.770	9.334007	2158.20
945	1	TTNA	6	214 7 7	515P	820527	820527	828.304	374.930	-0.368	22.45	3.7974	43.253	13.5399	-125.618	9.311641	2152.83
946	1	TTNA	6	214 7 7	516P	820527	820528	852.888	374.944	-0.368	22.12	3.7974	45.637	13.5407	-125.933	9.830015	2153.96
947	1	TTNA	6	214 7 11	741P	820601	820601	820.843	374.934	-0.368	21.86	3.7974	42.640	13.5413	-126.182	9.177212	2152.25
948	1	TTNA	6	214 7 11	742P	820601	820601	801.527	374.931	-0.368	22.17	3.7974	40.741	13.5405	-125.885	8.768440	2152.24
949	9	TTNA	6	214 7 22	743P	-01A 820601	820602	787.309	374.935	-0.368	22.09	3.7974	39.410	13.5407	-125.962	8.477477	2151.10
950	1	TTNA	6	214 7 22	743P	-01B 820601	820602	787.417	374.928	-0.368	22.21	3.7974	39.410	13.5404	-125.847	8.476188	2150.77
951	1	TTNA	6	206 0 0	397P	820602	820602	839.318	374.905	-0.368	22.87	3.7974	46.394	13.5388	-125.217	9.524868	2053.04
952	1	TTNA	6	214 7 22	744P	820602	820602	827.664	374.922	-0.368	22.38	3.7974	43.234	13.5400	-125.684	9.300953	2151.31
953	1	TTNA	6	206 0 0	398P	820602	820603	829.746	374.890	-0.368	22.19	3.7974	45.614	13.5405	-125.866	9.350949	2050.02
956	1	TTNA	6	206 1 1	399P	820607	820608	837.806	374.782	-0.368	22.15	3.7974	46.387	13.5406	-125.904	9.521322	2052.58
957	1	TTNA	6	206 1 1	400P	820610	820610	801.480	374.805	-0.368	22.50	3.7974	42.628	13.5397	-125.570	8.759862	2054.91
958	1	TTNA	6	206 1 2	401P	820610	820610	847.430	374.792	-0.368	22.50	3.7974	45.616	13.5397	-125.570	9.707149	2128.01
959	1	TTNA	6	206 1 2	402P	820614	820614	816.813	374.798	-0.368	22.39	3.7974	42.648	13.5400	-125.675	9.079451	2128.93
960	1	TTNA	6	206 1 3	403P	820614	820615	850.111	374.781	-0.368	22.58	3.7974	45.632	13.5395	-125.493	9.759850	2138.82
961	1	TTNA	6	206 1 3	404P	820615	820615	858.880	374.775	-0.368	23.18	3.7974	46.395	13.5381	-124.923	9.915219	2137.13
962	1	TTNA	6	206 1 4	365P	820615	820616	825.820	374.782	-0.368	22.60	3.7974	43.232	13.5395	-125.474	9.258478	2141.58
963	1	TTNA	6	206 1 4	366P	820616	820616	820.354	374.788	-0.368	22.99	3.7974	42.660	13.5385	-125.103	9.132908	2140.86
964	1	TTNA	6	206 1 6	367P	820616	820617	787.998	374.812	-0.368	22.44	3.7974	39.393	13.5399	-125.027	8.483541	2153.57

RUN CODE:

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BOTTLE TYPE:

- P = PYREX

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQUOT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)				
965	1	TTNA	6	206	1	6	368P	820617	820617	828.711	374.804	-0.368	22.93	3.7974	43.240	13.5387	-125.160	9.306552	2152.30	
966	1	TTNA	6	206	1	9	369P	820617	820617	802.737	374.774	-0.368	22.89	3.7974	40.743	13.5388	-125.198	8.773897	2153.47	
967	1	TTNA	6	206	1	9	370P	820621	820621	822.004	374.850	-0.368	22.45	3.7974	42.657	13.5399	-125.618	9.183397	2152.85	
968	1	TTNA	6	206	1	10	371P	820621	820622	787.588	374.840	-0.368	22.04	3.7974	39.396	13.5409	-126.010	8.486722	2154.21	
969	1	TTNA	6	206	1	10	372P	820622	820622	827.368	374.834	-0.368	22.25	3.7974	43.238	13.5403	-125.809	9.301016	2151.12	
970	1	TTNA	6	206	1	13	615P	820622	820622	801.844	374.846	-0.368	22.53	3.7974	40.759	13.5397	-125.541	8.765372	2150.54	
971	1	TTNA	6	206	1	13	616P	820623	820623	822.410	374.818	-0.368	22.72	3.7974	42.651	13.5392	-125.360	9.183504	2153.17	
972	1	TTNA	6	206	1	15	613P	820623	820624	787.900	374.828	-0.368	22.34	3.7974	39.409	13.5401	-125.723	8.484243	2152.87	
973	1	TTNA	6	206	1	15	614P	820624	820624	828.190	374.838	-0.368	22.70	3.7974	43.228	13.5392	-125.379	9.302817	2152.03	
974	1	TTNA	6	206	1	20	617P	-01A	820624	820624	804.488	374.818	-0.368	22.73	3.7974	40.745	13.5392	-125.350	8.814091	2163.23
975	1	TTNA	6	206	1	20	617P	-01B	820624	820625	804.205	374.820	-0.368	22.51	3.7974	40.745	13.5397	-125.560	8.815192	2163.50
976	1	TTNA	6	206	1	20	618PA	820625	820625	823.790	374.826	-0.368	22.80	3.7974	42.660	13.5390	-125.284	9.209114	2158.72	
977	1	TTNA	6	206	1	20	618PB	820625	820625	789.728	374.825	-0.368	22.99	3.7974	39.410	13.5385	-125.103	8.502107	2157.35	
978	1	TTNA	6	177	3	1	325PA	820709	820709	825.444	374.809	-0.368	22.96	3.7974	43.225	13.5386	-125.132	9.238209	2137.24	
979	1	TTNA	6	177	3	1	325PB	820709	820709	859.225	374.818	-0.368	23.46	3.7974	46.401	13.5374	-124.657	9.915612	2136.94	
980	1	TTNA	6	177	3	1	326PA	820712	820712	851.094	374.834	-0.368	23.42	3.7974	45.608	13.5375	-124.695	9.749541	2137.68	
981	1	TTNA	6	177	3	1	326PB	820712	820712	786.754	374.825	-0.368	23.64	3.7974	39.403	13.5369	-124.487	8.421289	2137.22	
982	1	TTNA	6	177	3	2	327P	820713	820714	820.399	374.857	-0.368	22.74	3.7974	42.667	13.5391	-125.341	9.140623	2142.32	
983	1	TTNA	6	177	3	2	328P	820713	820714	800.656	374.810	-0.368	22.99	3.7974	40.742	13.5385	-125.103	8.727197	2142.06	
984	1	TTNA	6	177	3	3	329P	820714	820714	827.028	374.822	-0.368	23.06	3.7974	43.240	13.5384	-125.037	9.267211	2143.20	
985	1	TTNA	6	177	3	3	330P	820714	820714	852.284	374.826	-0.368	23.21	3.7974	45.639	13.5380	-124.894	9.781537	2143.24	
986	1	TTNA	6	177	3	5	331P	820714	820715	786.722	374.822	-0.368	22.89	3.7974	39.399	13.5388	-125.198	8.443375	2143.04	
987	1	TTNA	6	177	3	5	332P	820715	820715	821.912	374.808	-0.368	23.74	3.7974	42.648	13.5367	-124.392	9.139927	2143.11	
988	1	TTNA	6	177	3	6	749P	820715	820716	798.904	374.804	-0.368	22.69	3.7974	40.738	13.5393	-125.389	8.700653	2135.76	
989	1	TTNA	6	177	3	6	677P	820716	820716	828.013	374.964	-0.368	23.57	3.7974	43.236	13.5371	-124.553	9.267576	2143.49	
990	1	TTNA	6	177	0	0	475P	820719	820720	844.720	374.988	-0.368	22.98	3.7974	46.382	13.5385	-125.113	9.630585	2076.36	
991	1	TTNA	6	177	0	0	476P	820719	820720	837.608	374.983	-0.368	23.38	3.7974	45.636	13.5376	-124.733	9.470688	2075.27	
992	1	TTNA	6	177	3	9	751P	820720	820720	788.429	374.992	-0.368	24.00	3.7974	39.398	13.5360	-124.147	8.441345	2142.58	
993	1	TTNA	6	177	3	9	752P	820720	820720	829.216	374.982	-0.368	24.33	3.7974	43.234	13.5352	-123.836	9.266652	2143.37	
994	1	TTNA	6	177	3	13	753P	820720	820721	821.954	375.024	-0.368	23.13	3.7974	42.651	13.5382	-124.970	9.156370	2146.81	
995	1	TTNA	6	177	3	13	754P	820721	820721	830.667	374.997	-0.368	24.59	3.7974	43.238	13.5346	-123.592	9.287422	2147.98	
996	1	TTNA	6	177	3	17	755P	820721	820722	854.427	375.004	-0.368	23.15	3.7974	45.608	13.5381	-124.951	9.824073	2154.02	
997	1	TTNA	5	167	4	40	455P	820722	820722	809.536	374.994	-0.368	24.87	3.7974	42.639	13.5339	-123.329	8.846346	2074.71	
998	1	TTNA	6	177	3	17	756P	820722	820722	831.737	375.020	-0.368	24.59	3.7974	43.225	13.5346	-123.592	9.306844	2153.58	

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	NISK	BOTTLE/RUN	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQOUT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)		
999	1	TTNA	6	177	3	21	829P	820726	820726	829.182	374.981	-0.365	23.82	3.7974	43.246	13.5365	-124.317	9.285023	2147.02
1000	1	TTNA	6	177	3	21	830P	820726	820726	854.366	374.894	-0.365	24.04	3.7974	45.632	13.5359	-124.109	9.793821	2146.26
1001	1	TTNA	5	167	4	40	456P	820727	820727	812.608	374.889	-0.365	23.73	3.7974	43.245	13.5367	-124.402	8.947732	2069.08
1002	1	TTNA	5	167	3	80	453P	820727	820728	857.658	374.910	-0.365	22.65	3.7974	46.405	13.5394	-125.427	9.910347	2135.62
1003	1	TTNA	5	167	3	80	454P	820728	820728	827.094	374.904	-0.365	24.25	3.7974	43.244	13.5354	-123.911	9.227495	2133.82
1004	1	TTNA	5	167	4	41	457P	820728	820729	821.816	374.903	-0.365	23.97	3.7974	42.661	13.5361	-124.175	9.128545	2139.79
1005	1	TTNA	5	167	4	41	458P	820730	820730	826.912	375.002	-0.365	23.48	3.7974	43.231	13.5373	-124.638	9.247232	2139.03
1006	1	TTNA	5	167	4	42	459P	820730	820731	860.078	375.022	-0.365	23.23	3.7974	46.401	13.5379	-124.875	9.937175	2141.59
1007	1	TTNA	5	167	4	42	460P	820803	820803	786.830	374.990	-0.365	22.97	3.7974	39.405	13.5386	-125.122	8.439777	2141.80
1008	1	TTNA	5	167	6	40	781P	820803	820803	828.358	375.000	-0.365	23.49	3.7974	43.251	13.5373	-124.629	9.276603	2144.83
1009	1	TTNA	5	167	6	40	782P	820803	820804	859.820	374.986	-0.365	22.74	3.7974	46.411	13.5391	-125.341	9.950122	2143.91
1010	1	TTNA	5	167	6	41	783P	820804	820804	802.872	374.998	-0.365	23.81	3.7974	40.740	13.5365	-124.326	8.743230	2146.10
1011	1	TTNA	5	167	6	44	785P	820804	820805	823.125	374.996	-0.365	23.08	3.7974	42.660	13.5383	-125.018	9.182739	2152.54
1012	1	TTNA	5	167	6	44	786P	820805	820805	791.163	374.995	-0.365	24.71	3.7974	39.402	13.5343	-123.479	8.475838	2151.12
1013	1	TTNA	5	167	6	46	787P	820805	820805	832.057	374.981	-0.365	25.08	3.7974	43.239	13.5334	-123.133	9.299982	2150.83
1014	1	TTNA	5	167	2	40	409P	820806	820806	827.556	374.972	-0.365	26.07	3.7974	42.647	13.5309	-122.211	9.175798	2151.57
1015	1	TTNA	5	167	6	48	788P	820806	820806	806.888	374.988	-0.365	25.87	3.7974	40.728	13.5314	-122.397	8.761147	2151.14
1016	1	TTNA	5	167	2	40	410P	820809	820809	830.852	374.988	-0.365	24.20	3.7974	43.235	13.5355	-123.958	9.304422	2152.06
1017	1	TTNA	5	167	2	48	411P	820809	820809	855.771	375.013	-0.365	24.42	3.7974	45.646	13.5350	-123.751	9.806842	2148.46
1018	1	TTNA	5	167	2	48	412P	820810	820810	823.842	374.998	-0.365	24.12	3.7974	42.631	13.5357	-124.034	9.163217	2149.43
1019	1	TTNA	5	159	4	40	779P	820810	820811	842.234	374.975	-0.365	22.77	3.7974	46.398	13.5391	-125.312	9.586979	2066.25
1020	1	TTNA	5	159	4	40	780P	820811	820811	812.798	374.991	-0.365	23.92	3.7974	43.236	13.5362	-124.222	8.943409	2068.51
1021	1	TTNA	5	159	4	41	517P	820811	820811	829.683	374.977	-0.365	24.10	3.7974	43.237	13.5358	-124.053	9.284018	2147.24
1022	1	TTNA	5	159	4	42	519P	820812	820813	801.538	374.981	-0.365	22.57	3.7974	40.737	13.5396	-125.503	8.755088	2149.17
1023	1	TTNA	5	159	4	42	520P	820812	820813	821.870	374.986	-0.365	22.76	3.7974	42.651	13.5391	-125.322	9.167664	2149.46
1024	1	TTNA	5	159	4	43	521P	820812	820813	862.296	374.988	-0.365	23.43	3.7974	46.396	13.5374	-124.686	9.976330	2150.26
1025	1	TTNA	5	159	4	43	522P	820816	820817	788.708	374.996	-0.365	23.28	3.7974	39.389	13.5378	-124.828	8.468856	2150.06
1026	1	TTNA	5	159	4	44	524P	820816	820817	855.796	374.994	-0.365	23.51	3.7974	45.623	13.5372	-124.610	9.839778	2156.76
1027	1	TTNA	5	159	4	44	523P	820817	820817	864.740	374.957	-0.365	23.77	3.7974	46.413	13.5366	-124.364	10.014979	2157.80
1028	1	TTNA	5	159	4	45	541P	820817	820817	831.962	374.978	-0.365	24.01	3.7974	43.257	13.5360	-124.137	9.333717	2157.74
1029	1	TTNA	5	159	4	45	542P	820817	820818	824.176	374.968	-0.365	23.08	3.7974	42.664	13.5383	-125.018	9.204935	2157.54
1030	1	TTNA	5	159	4	46	543P	820818	820818	791.862	374.973	-0.365	23.88	3.7974	39.396	13.5363	-124.260	8.515805	2161.59
1031	1	TTNA	5	159	4	46	544P	820818	820819	829.974	374.986	-0.365	22.82	3.7974	43.242	13.5389	-125.265	9.332553	2158.21
1032	1	TTNA	5	159	4	46	545P	820819	820819	831.850	375.008	-0.365	24.06	3.7974	43.230	13.5359	-124.090	9.329185	2158.02

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMTER VOLUME (CC)	ALIQUOT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)	
1033	1	TTNA	5	159 4 48	548P	820819	820820	823.668	375.020	-0.365	22.94	3.7974	42.632	13.5386	-125.151	9.198040	2157.54
1034	1	TTNA	5	159 1 40	775P	820820	820820	792.164	375.017	-0.365	24.40	3.7974	39.395	13.5351	-123.770	8.505261	2158.97
1035	1	TTNA	5	159 1 40	778P	820820	820820	833.144	374.990	-0.365	24.81	3.7974	43.239	13.5340	-123.386	9.330970	2158.00
1036	1	TTNA	5	159 1 48	777P	820830	820830	833.564	375.054	-0.365	24.15	3.7974	43.251	13.5357	-124.005	9.360313	2164.18
1037	1	TTNA	5	159 1 48	778P	820830	820830	827.829	375.048	-0.365	24.44	3.7974	42.662	13.5350	-123.733	9.233324	2164.30
1038	1	TTNA	5	148 5 40	581P	820831	820831	833.296	375.031	-0.365	24.98	3.7974	45.605	13.5337	-123.245	9.328242	2045.44
1039	1	TTNA	5	148 5 40	582P	820831	820901	837.892	375.056	-0.365	22.98	3.7974	46.382	13.5385	-125.113	9.488707	2045.77
1040	1	TTNA	5	148 2 2	681P	820901	820901	771.264	375.041	-0.365	25.30	3.7974	39.372	13.5328	-122.927	8.051657	2045.02
1041	1	TTNA	5	148 2 2	682P	820901	820902	808.038	375.033	-0.365	23.66	3.7974	43.229	13.5369	-124.460	8.853228	2047.98
1042	1	TTNA	5	148 5 41	583P	820902	820902	832.045	375.044	-0.365	25.19	3.7974	43.239	13.5331	-123.030	9.294781	2149.63
1043	1	TTNA	5	148 5 41	584P	820902	820902	858.098	375.042	-0.365	25.73	3.7974	45.635	13.5318	-122.527	9.807922	2149.21
1044	1	TTNA	5	148 5 42	589P	820902	820903	864.587	375.058	-0.365	24.21	3.7974	46.398	13.5355	-123.949	9.993992	2153.97
1045	1	TTNA	5	148 5 42	590P	820903	820903	793.870	375.037	-0.365	26.24	3.7974	39.395	13.5305	-122.054	8.483982	2153.58
1046	1	TTNA	5	148 5 43	591P	820903	820903	835.508	375.028	-0.365	26.62	3.7974	43.221	13.5296	-121.702	9.318264	2155.96
1047	1	TTNA	5	148 4 40	685P	820907	820907	808.387	375.049	-0.365	24.69	3.7974	40.943	13.5343	-123.498	8.827476	2156.04
1048	1	TTNA	5	148 5 43	592P	820907	820907	831.417	375.027	-0.365	24.02	3.7974	43.232	13.5360	-124.128	9.321204	2156.09
1049	1	TTNA	5	148 4 40	686P	820908	820908	791.462	375.026	-0.365	24.20	3.7974	39.400	13.5355	-123.958	8.496784	2156.54
1050	1	TTNA	5	148 4 42	687P	820908	820908	833.078	375.045	-0.365	24.87	3.7974	43.241	13.5339	-123.329	9.326498	2156.86
1051	1	TTNA	5	148 4 42	688P	820910	820910	833.188	375.044	-0.365	23.91	3.7974	43.245	13.5363	-124.232	9.360853	2164.61
1052	1	TTNA	5	148 4 46	557P	820910	820910	807.867	375.052	-0.365	24.41	3.7974	40.945	13.5350	-123.761	8.825607	2155.48
1053	1	TTNA	5	148 4 46	558P	820921	820921	790.116	375.054	-0.365	23.40	3.7974	39.388	13.5375	-124.714	8.492938	2156.33
1054	1	TTNA	5	148 4 48	559P	820921	820921	831.442	375.042	-0.365	24.19	3.7974	43.210	13.5356	-123.968	9.315738	2155.92
1055	1	TTNA	5	148 4 48	580P	820921	820922	828.397	375.066	-0.365	22.29	3.7974	43.214	13.5402	-125.770	9.816181	2155.82
1056	1	TTNA	5	148 2 32	683P	820922	820922	813.882	375.039	-0.365	23.48	3.7974	41.664	13.5373	-124.638	8.978838	2155.06
1057	1	TTNA	5	148 2 32	684P	820922	820922	807.308	375.057	-0.365	24.22	3.7974	40.925	13.5355	-123.940	8.820054	2155.18
1058	1	TTNA	5	149 2 2	593P	820922	820923	824.743	375.060	-0.365	23.01	3.7974	46.348	13.5385	-125.084	9.217023	1988.66
1059	1	TTNA	5	149 2 2	594P	820923	820924	758.688	375.028	-0.365	23.70	3.7974	39.360	13.5368	-124.430	7.839737	1991.80
1060	1	TTNA	5	150 1 1	595P	820923	820924	777.138	375.015	-0.365	24.62	3.7974	43.131	13.5345	-123.564	8.191405	1899.19
1061	1	TTNA	5	143 4 1	789P	820924	820924	844.064	374.998	-0.365	26.58	3.7974	45.627	13.5297	-121.758	9.494703	2080.94
1062	1	TTNA	5	158 1 1	596P	820924	820924	778.936	375.006	-0.365	25.75	3.7974	43.117	13.5317	-122.508	8.154559	1891.26
1063	1	TTNA	5	143 4 1	770P	820927	820927	772.352	375.012	-0.365	22.76	3.7974	39.424	13.5391	-125.322	8.147705	2066.69
1064	1	TTNA	5	145 5 1	417P	820927	820927	811.338	375.016	-0.365	23.54	3.7974	43.269	13.5372	-124.581	8.925143	2062.71
1065	1	TTNA	5	145 5 1	418P	820927	820928	840.191	374.986	-0.365	21.98	3.7974	46.428	13.5411	-126.086	9.572551	2061.81
1066	1	TTNA	5	146 1 1	419P	820928	820928	811.099	375.004	-0.365	22.98	3.7974	43.259	13.5385	-125.113	8.938425	2066.26

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- 8 = SAMPLE NOT ANALYZED
- 9 = PEREMPTORILY-REJECTED SAMPLE

BOTTLE TYPE:

P = PYREX

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 4 (CONT.). DISSOLVED INORGANIC CARBON VALUES DERIVED FROM CONSTANT VOLUME MERCURY MANOMETER DATA

REC NO.	RUN CODE	EXP LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYS DATE	VACUUM COLUMN (MM)	SAMPLE COLUMN (MM)	MENISC CORR (MM)	TEMP (C)	MANOMETER VOLUME (CC)	ALIQWOT WEIGHT (GM)	MERCURY DENSITY (GM/CC)	VIRIAL COEFF	MOLES C (E-5)	DIC (UM/KG)	
1067	1	TTNA	5	146 1 1	420P	820928	820928	790.520	375.000	-0.365	23.47	3.7974	40.947	13.5373	-124.648	8.500211	2075.91
1068	1	TTNA	5	144 5 42	415P	820928	820929	836.468	374.997	-0.365	21.80	3.7974	45.644	13.5413	-126.182	9.498795	2081.06
1069	1	TTNA	5	144 5 42	416P	820929	820929	771.768	374.997	-0.365	22.62	3.7974	39.419	13.5394	-125.455	8.140088	2065.02
1070	1	TTNA	6	207 1 1	619P	820929	820929	836.764	374.984	-0.365	23.24	3.7974	46.403	13.5379	-124.866	9.458135	2038.26
1071	1	TTNA	6	207 1 1	620P	820929	820930	803.380	374.982	-0.365	21.75	3.7974	43.244	13.5416	-126.288	8.819017	2039.36
1072	1	TTNA	6	209 1 1	791P	820930	820930	801.972	375.007	-0.365	22.18	3.7974	43.257	13.5405	-125.876	8.775799	2028.76
1073	1	TTNA	6	209 1 1	792P	820930	820930	780.221	374.996	-0.365	22.88	3.7974	40.952	13.5388	-125.208	8.308407	2028.33
1074	1	TTNA	6	211 2 1	795P	820930	821001	825.911	375.000	-0.365	21.84	3.7974	45.658	13.5414	-126.201	9.281294	2032.79
1075	1	TTNA	4	124 3 1	721P	821001	821001	852.997	374.970	-0.365	23.29	3.7974	46.398	13.5378	-124.818	9.790489	2110.20
1076	1	TTNA	4	124 3 1	722P	821001	821001	816.630	374.981	-0.365	23.71	3.7974	43.241	13.5368	-124.421	9.029022	2088.07
1077	1	TTNA	6	211 2 1	796P	821001	821001	764.968	375.002	-0.365	22.35	3.7974	39.423	13.5401	-125.713	8.007744	2031.24
1078	1	TTNA	6	210 1 1	793PA	821213	821213	800.974	374.979	-0.371	21.50	3.7974	43.258	13.5422	-126.528	8.777149	2029.02
1079	1	TTNA	6	210 1 1	793PB	821213	821214	831.915	374.964	-0.371	21.52	3.7974	46.412	13.5421	-126.509	9.416854	2028.97
1080	1	TTNA	6	210 1 1	794PA	821214	821214	763.978	374.998	-0.371	22.18	3.7974	39.397	13.5405	-125.876	7.992186	2028.63
1082	1	TTNA	6	210 1 1	794PB	821214	821215	800.262	374.985	-0.371	21.20	3.7974	43.248	13.5429	-126.817	8.771794	2028.25
1164	2	TTNA	3	43 4 1	647PA-01	840104	840111	808.312	375.282	-0.397	21.48	3.7974	43.543	13.5422	-126.547	8.922763	2049.18
1165	1	TTNA	3	43 4 1	647PB	840104	840111	767.682	375.281	-0.397	21.37	3.7974	39.476	13.5425	-126.653	8.085755	2048.27
1166	1	TTNA	3	43 4 1	648PA	840105	840111	809.668	375.285	-0.397	21.36	3.7974	43.762	13.5425	-126.663	8.954589	2046.20
1167	4	TTNA	3	43 4 1	648PB	840105	840111	835.740	375.305	-0.397	21.33	3.7974	46.372	13.5426	-126.692	9.494915	2047.55
1168	1	TTNA	4	125 1 1	723P	840106	840111	847.086	375.314	-0.397	21.61	3.7974	46.435	13.5419	-126.422	9.719832	2093.21
1169	2	TTNA	4	125 1 1	724P -01	840106	840112	806.474	375.288	-0.397	21.47	3.7974	41.105	13.5423	-126.557	8.884939	2161.52
1170	4	TTNA	5	141 2 1	707P	840111	840112	790.386	375.281	-0.397	21.59	3.7974	41.116	13.5420	-126.442	8.548620	2079.15
1171	4	TTNA	5	141 2 1	708P	840111	840112	773.960	375.281	-0.397	21.67	3.7974	39.451	13.5418	-126.365	8.206724	2080.23
1172	4	TTNA	4	127 2 1	671P	840109	840117	829.732	375.252	-0.397	22.04	3.7974	44.421	13.5409	-126.010	9.347641	2104.33
1173	4	TTNA	4	127 2 1	672P	840110	840117	828.073	375.238	-0.397	21.86	3.7974	43.722	13.5413	-126.182	9.319718	2131.59
1185	2	TTNA	3	43 4 1	647PA-02	840104	840131	807.968	375.286	-0.406	21.30	3.7974	43.543	13.5427	-126.721	8.921174	2048.82
1186	2	TTNA	4	125 1 1	724P -02	840106	840131	805.764	375.256	-0.406	21.12	3.7974	41.105	13.5431	-126.894	8.881947	2160.79
1208	2	TTNA	3	43 4 1	647PA-03	840104	840223	808.460	375.288	-0.406	21.62	3.7974	43.543	13.5419	-126.413	8.921007	2048.78

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TABLE 5. DISSOLVED INORGANIC CARBON VALUES DERIVED FROM QUARTZ SPIRAL MANOMETER DATA

REC NO.	RUN CODE	EXP	LEG	CAST STN	BOTTLE/RUN NISK	EXTRAC DATE	ANALYSIS DATE	ALIQWGT (GM)	ZERO COUNTS	NET COUNTS	TEMP (C)	NET COUNTS NORMALIZED TO 38.80 C	CARBON MOLES/CT (E-9)	MOLES CARBON (E-5)	DIC (UM/KG)			
151	2	TTNA	3	43	4	1	647PA-01	840104	840117	43.543	-10	36993	37003	38.83	36999.4	2.41211	8.924672	2049.62
152	4	TTNA	3	43	4	1	648PB-01	840105	840117	46.372	-8	39426	39434	38.84	39428.9	2.41211	9.510695	2050.96
153	4	TTNA	5	141	2	1	707P	840111	840117	41.116	-11	35475	35486	38.83	35482.6	2.41211	8.558790	2081.62
154	4	TTNA	5	141	2	1	708P	840111	840117	39.451	-9	33680	33689	38.82	33686.8	2.41211	8.125636	2059.68
158	2	TTNA	3	43	4	1	647PA-02	840104	840118	43.543	12	37012	37000	38.82	36997.6	2.41211	8.924235	2049.52
159	4	TTNA	3	43	4	1	648PB-02	840105	840118	46.372	12	39474	39462	38.83	39458.2	2.41211	9.517753	2052.48
160	2	TTNA	4	125	1	1	724P -01	840106	840118	41.105	13	36851	36838	38.84	36833.3	2.41211	8.884591	2161.44
161	1	TTNA	4	128	2	1	670P	840109	840118	39.448	16	34213	34197	38.83	34193.7	2.41211	8.247899	2090.83
162	4	TTNA	4	127	2	1	671P	840109	840118	44.421	13	36754	36741	38.79	36742.2	2.41211	9.345055	2103.75
163	4	TTNA	4	127	2	1	672P	840110	840118	43.722	12	36654	36642	38.80	36642.0	2.41211	9.320875	2131.85
165	4	TTNA	3	43	4	1	648PB-03	840105	840120	46.372	12	39411	39399	38.90	39386.4	2.41174	9.498869	2048.43
166	2	TTNA	4	125	1	1	724P -02	840106	840120	41.105	10	36853	36843	38.85	36837.1	2.41174	8.884150	2161.33
182	2	TTNA	3	43	4	1	647PA-03	840104	840127	43.543	1	37018	37017	38.88	37007.5	2.41174	8.925249	2049.76
183	2	TTNA	4	125	1	1	724P -03	840106	840127	41.105	3	36858	36855	38.93	36839.6	2.41174	8.884765	2161.48
187	2	TTNA	3	43	4	1	647PA-04	840104	840203	43.543	-6	36993	36999	38.85	36993.1	2.41174	8.921767	2048.96
197	2	TTNA	3	43	4	1	647PA-05	840104	840210	43.543	0	36999	36999	38.88	36989.5	2.41174	8.920909	2048.76
221	2	TTNA	3	43	4	1	647PA-06	840104	840224	43.543	-1	36988	36989	38.84	36984.3	2.41174	8.919641	2048.47
234	2	TTNA	3	43	4	1	647PA-07	840104	840301	43.543	5	37031	37026	38.93	37010.6	2.41273	8.920653	2050.77

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BOTTLE TYPE:

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 6. DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC		LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE		NISKIN		EXTRACTION		ANALYSIS		DIC (UM/KG SW)		RUN CODE	
		REC	EXP						DATE	CAST	BOTTLE/RUN	DATE	DATE	SIO	P&CODF					
M	1	416	TTNA	0	3	31-48N	50-46W	4677	23	OCT 80	5	44	289PA	27	JAN 81	28	JAN 81	2189.39	2200	N
M	2	417	TTNA	0	3	31-48N	50-46W	4677	23	OCT 80	5	44	289PB	27	JAN 81	28	JAN 81	2189.14	2200	N
M	3	418	TTNA	0	3	31-48N	50-46W	4677	23	OCT 80	5	44	290PA	28	JAN 81	29	JAN 81	2200.27	2200	N
M	4	419	TTNA	0	3	31-48N	50-46W	4677	23	OCT 80	5	44	290PB	28	JAN 81	29	JAN 81	2191.19	2200	N
M	5	420	TTNA	0	3	31-48N	50-46W	4125	23	OCT 80	5	45	287PA	29	JAN 81	29	JAN 81	2176.94	2178	N
M	6	421	TTNA	0	3	31-48N	50-46W	4125	23	OCT 80	5	45	287PB	29	JAN 81	30	JAN 81	2176.82	2178	N
M	7	422	TTNA	0	3	31-48N	50-46W	3675	23	OCT 80	5	48	285PA	6	FEB 81	6	FEB 81	2171.52	2179	N
M	8	423	TTNA	0	3	31-48N	50-46W	3675	23	OCT 80	5	48	285PB	6	FEB 81	6	FEB 81	2170.82	2179	N
M	9	424	TTNA	0	3	31-48N	50-46W	3667	23	OCT 80	5	47	283PA	10	FEB 81	10	FEB 81	2171.71	2177	N
M	10	425	TTNA	0	3	31-48N	50-46W	3667	23	OCT 80	5	47	283PB	10	FEB 81	11	FEB 81	2171.89	2177	N
M	11	426	TTNA	0	3	31-48N	50-46W	3209	23	OCT 80	5	46	281PA	11	FEB 81	11	FEB 81	2172.87	2177	N
M	12	427	TTNA	0	3	31-48N	50-46W	3209	23	OCT 80	5	46	281PB	11	FEB 81	12	FEB 81	2172.68	2177	N
M	13	428	TTNA	0	3	31-48N	50-46W	2750	23	OCT 80	5	42	279PA	12	FEB 81	12	FEB 81	2170.11	2169	N
M	14	429	TTNA	0	3	31-48N	50-46W	2750	23	OCT 80	5	42	279PB	12	FEB 81	12	FEB 81	2169.60	2169	N
M	15	430	TTNA	0	3	31-48N	50-46W	2612	23	OCT 80	5	41	278PA	13	FEB 81	13	FEB 81	2168.16	2172	N
M	16	431	TTNA	0	3	31-48N	50-46W	2612	23	OCT 80	5	41	278PB	13	FEB 81	14	FEB 81	2168.28	2172	N
M	17	432	TTNA	0	13	38-59N	43-58W	4843	31	OCT 80	3	33	303P	17	FEB 81	17	FEB 81	2168.81	2168	N
M	18	433	TTNA	0	13	38-59N	43-58W	4843	31	OCT 80	3	33	304P	17	FEB 81	17	FEB 81	2169.29	2168	N
M	19	434	TTNA	0	13	38-59N	43-58W	2239	31	OCT 80	3	21	301P	18	FEB 81	18	FEB 81	2154.46	2162	N
M	20	435	TTNA	0	13	38-59N	43-58W	2239	31	OCT 80	3	21	302P	18	FEB 81	19	FEB 81	2154.88	2162	N
M	21	436	TTNA	0	13	38-59N	43-58W	746	31	OCT 80	3	12	299P	19	FEB 81	20	FEB 81	2167.04	2164	N
M	22	437	TTNA	0	13	38-59N	43-58W	746	31	OCT 80	3	12	300P	19	FEB 81	20	FEB 81	2167.19	2164	N
M	23	438	TTNA	0	13	38-59N	43-58W	3	31	OCT 80	3	2	297P	23	FEB 81	23	FEB 81	2029.91	2033	N
M	24	439	TTNA	0	13	38-59N	43-58W	3	31	OCT 80	3	2	298P	23	FEB 81	24	FEB 81	2030.68	2033	N
M	25	440	TTNA	0	13	38-59N	43-58W	3	31	OCT 80	3	2	298P	23	FEB 81	24	FEB 81	2030.69	2033	N
M	26	468	TTNA	0	23	40-33N	54-14W	2	06	NOV 80	3	2	305P	30	MAR 81	30	MAR 81	1982.47	2006	N
M	27	469	TTNA	0	23	40-33N	54-14W	2	06	NOV 80	3	2	306P	30	MAR 81	31	MAR 81	2002.97	2006	N
M	28	470	TTNA	0	23	40-33N	54-14W	3719	06	NOV 80	3	16	307P	31	MAR 81	31	MAR 81	2140.50	2166	N
M	29	471	TTNA	0	23	40-33N	54-14W	3719	06	NOV 80	3	16	308P	31	MAR 81	1	APR 81	2163.05	2166	N
M	30	472	TTNA	0	4	35-56N	47-01W	1	26	OCT 80	2	2	293P	1	APR 81	2	APR 81	2021.04	2029	N
M	31	473	TTNA	0	4	35-56N	47-01W	1	26	OCT 80	2	2	294P	1	APR 81	2	APR 81	2021.12	2029	N
M	32	474	TTNA	0	4	35-56N	47-01W	3854	26	OCT 80	2	24	295P	2	APR 81	2	APR 81	2169.63	2169	N
M	33	475	TTNA	0	4	35-56N	47-01W	3854	26	OCT 80	2	24	296P	2	APR 81	3	APR 81	2169.86	2169	N
M	34	541	TTNA	1	1	39-48N	70-05W	10	2	APR 81	2	27	309P	28	MAY 81	27	MAY 81	2092.01	2105	N
M	35	542	TTNA	1	1	39-48N	70-05W	10	2	APR 81	2	27	310P	28	MAY 81	29	MAY 81	2097.69	2105	N
M	36	543	TTNA	1	3	38-17N	69-10W	12	3	APR 81	1	1	311P	1	JUN 81	1	JUN 81	2101.22	2112	N

TYPE (SAMPLE):

M = ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE/RUN:

P = PYREX BOTTLE TYPE

RUN CODE:

C = QUARTZ SPIRAL MANOMETER CALIBRATION STANDARD

D = ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN		EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW)		RUN CODE	
										CAST	BOTTLE/RUN			SIO	P&CODF		
M	37	544	TTNA	1	3	38-17N	69-10W	12	3 APR 81	1	1	312P	1 JUN 81	2 JUN 81	2101.17	2112	N
M	38	545	TTNA	1	5	38-00N	68-00W	10	5 APR 81	2	1	313P	2 JUN 81	3 JUN 81	2026.61	2037	N
M	39	546	TTNA	1	5	38-00N	68-00W	10	5 APR 81	2	1	314P	2 JUN 81	3 JUN 81	2025.68	2037	N
M	40	547	TTNA	1	6	34-41N	67-21W	11	5 APR 81	2	1	315P	3 JUN 81	3 JUN 81	2021.68	2030	N
M	41	548	TTNA	1	6	34-41N	67-21W	11	5 APR 81	2	1	316P	3 JUN 81	3 JUN 81	2020.75	2030	N
M	42	549	TTNA	1	7	31-40N	68-30W	12	7 APR 81	3	1	318P	4 JUN 81	5 JUN 81	2050.28		N
M	43	550	TTNA	1	8	31-20N	71-30W	12	8 APR 81	3	1	319P	4 JUN 81	5 JUN 81	2050.83	2056	N
M	44	551	TTNA	1	8	31-20N	71-30W	12	8 APR 81	3	1	320P	8 JUN 81	8 JUN 81	2051.50	2056	N
M	45	552	TTNA	1	11	30-50N	74-03W	7	10 APR 81	2	1	321P	8 JUN 81	9 JUN 81	2050.33	2058	N
M	46	553	TTNA	1	11	30-50N	74-03W	7	10 APR 81	2	1	322P	9 JUN 81	9 JUN 81	2050.06	2058	N
M	47	554	TTNA	1	13	29-56N	77-21W	9	11 APR 81	1	69	324P	9 JUN 81	9 JUN 81	2012.27	2022	N
M	48	555	TTNA	1	13	29-56N	77-21W	9	11 APR 81	1	69	324P	9 JUN 81	10 JUN 81	2012.14	2022	N
M	49	556	TTNA	2	15	25-35N	76-23W	11	17 APR 81	2	1	341P	10 JUN 81	10 JUN 81	2030.44	2042	N
M	50	557	TTNA	2	15	25-35N	76-23W	11	17 APR 81	2	1	342P	10 JUN 81	10 JUN 81	2030.10	2042	N
M	51	558	TTNA	2	16	22-51N	73-10W	13	19 APR 81	2	1	343P	10 JUN 81	11 JUN 81	2011.94	2025	N
M	52	559	TTNA	2	16	22-51N	73-10W	13	19 APR 81	2	1	344P	10 JUN 81	11 JUN 81	2012.63	2025	N
M	53	560	TTNA	2	20	25-47N	70-26W	13	21 APR 81	2	1	345P	11 JUN 81	11 JUN 81	2036.03	2049	N
M	54	561	TTNA	2	20	25-47N	70-26W	13	21 APR 81	2	1	346P	11 JUN 81	11 JUN 81	2035.23	2049	N
M	55	562	TTNA	2	22	25-47N	66-00W	13	23 APR 81	1	1	347P	12 JUN 81	12 JUN 81	2024.17	2036	N
M	56	563	TTNA	2	22	25-47N	66-00W	13	23 APR 81	1	1	348P	12 JUN 81	12 JUN 81	2022.82	2036	N
M	57	564	TTNA	2	24	23-18N	64-10W	12	24 APR 81	2	1	445P	15 JUN 81	15 JUN 81	2028.39	2022	N
M	58	565	TTNA	2	24	23-18N	64-10W	12	24 APR 81	2	1	446P	15 JUN 81	16 JUN 81	2019.47	2022	N
M	59	566	TTNA	2	26	20-47N	62-16W	11	26 APR 81	2	1	447P	16 JUN 81	16 JUN 81	2000.05	2010	N
M	60	567	TTNA	2	28	18-07N	60-39W	12	27 APR 81	3	1	450P	16 JUN 81	16 JUN 81	1971.83	1985	N
M	61	568	TTNA	2	29	17-08N	59-31W	11	28 APR 81	1	1	451P	17 JUN 81	17 JUN 81	1974.24	1985	N
M	62	569	TTNA	2	29	17-08N	59-31W	11	28 APR 81	1	1	452P	17 JUN 81	17 JUN 81	1974.70	1985	N
M	63	570	TTNA	2	32	15-03N	53-57W	11	30 APR 81	2	1	493P	18 JUN 81	18 JUN 81	1917.58	1930	N
M	64	571	TTNA	2	32	15-03N	53-57W	11	30 APR 81	2	1	494P	18 JUN 81	19 JUN 81	1920.40	1930	N
M	65	572	TTNA	2	32	15-03N	53-57W	4p	30 APR 81	0	0	495P	19 JUN 81	19 JUN 81	1918.89		N
M	66	573	TTNA	2	32	15-03N	53-57W	4p	30 APR 81	0	0	496P	19 JUN 81	19 JUN 81	1919.01		N
M	67	574	TTNA	2	32	15-03N	53-57W	3993	30 APR 81	3	44	497P	22 JUN 81	22 JUN 81	2172.64	2177	N
M	68	575	TTNA	2	32	15-03N	53-57W	3993	30 APR 81	3	44	498P	22 JUN 81	23 JUN 81	2172.63	2177	N
M	69	576	TTNA	2	32	15-03N	53-57W	99	30 APR 81	4	41	499P	23 JUN 81	23 JUN 81	2066.32	2075	N
M	70	577	TTNA	2	32	15-03N	53-57W	99	30 APR 81	4	41	500P	23 JUN 81	24 JUN 81	2066.25	2075	N
M	71	578	TTNA	2	32	15-03N	53-57W	152	30 APR 81	4	43	565P	24 JUN 81	24 JUN 81	2119.52	2132	N
M	72	579	TTNA	2	32	15-03N	53-57W	152	30 APR 81	4	43	566P	24 JUN 81	25 JUN 81	2112.07	2132	N

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RUN CODE:

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SIO	P&CODF	RUN CODE
M	73	580	TTNA	2	38	23-51N	54-03W	4p	05 MAY 81	0	0	599P	26 JUN 81	2044.91		N
M	74	581	TTNA	2	38	23-51N	54-03W	4p	05 MAY 81	0	0	600P	26 JUN 81	2043.55		N
M	75	582	TTNA	2	38	23-51N	54-03W	11	5 MAY 81	2	1	601P	29 JUN 81	2043.05	2058	N
M	76	583	TTNA	2	38	23-51N	54-03W	11	5 MAY 81	2	1	602P	29 JUN 81	2043.21	2058	N
M	77	584	TTNA	2	38	23-51N	54-03W	48	5 MAY 81	2	2	603P	29 JUN 81	2043.04	2058	N
M	78	585	TTNA	2	38	23-51N	54-03W	48	5 MAY 81	2	2	604P	30 JUN 81	2041.37	2058	N
M	79	586	TTNA	2	38	23-51N	54-03W	106	5 MAY 81	2	3	381P	30 JUN 81	2058.21	2075	N
M	80	587	TTNA	2	38	23-51N	54-03W	106	5 MAY 81	2	3	382P	1 JUL 81	2058.24	2075	N
M	81	588	TTNA	2	38	23-51N	54-03W	273	5 MAY 81	2	5	384P	1 JUL 81	2087.45	2101	N
M	82	589	TTNA	2	38	23-51N	54-03W	355	5 MAY 81	2	7	385P	6 JUL 81	2093.33	2105	N
M	83	590	TTNA	2	38	23-51N	54-03W	355	5 MAY 81	2	7	386P	6 JUL 81	2095.33	2105	N
M	84	591	TTNA	2	38	23-51N	54-03W	693	5 MAY 81	2	10	387P	7 JUL 81	2169.41	2176	N
M	85	592	TTNA	2	38	23-51N	54-03W	693	5 MAY 81	2	10	388P	7 JUL 81	2169.94	2176	N
M	86	593	TTNA	2	38	23-51N	54-03W	992	5 MAY 81	2	12	389P	8 JUL 81	2197.27	2198	N
M	87	594	TTNA	2	38	23-51N	54-03W	992	5 MAY 81	2	12	390P	8 JUL 81	2198.04	2198	N
M	88	595	TTNA	2	38	23-51N	54-03W	1958	5 MAY 81	2	18	391P	9 JUL 81	2170.51	2176	N
M	89	596	TTNA	2	38	23-51N	54-03W	1958	5 MAY 81	2	18	392P	9 JUL 81	2171.07	2176	N
M	90	597	TTNA	2	38	23-51N	54-03W	2841	5 MAY 81	2	20	393P	10 JUL 81	2180.19	2185	N
M	91	598	TTNA	2	38	23-51N	54-03W	2841	5 MAY 81	2	20	394P	10 JUL 81	2179.77	2185	N
M	92	599	TTNA	2	38	23-51N	54-03W	3747	5 MAY 81	2	22	395P	13 JUL 81	2184.90	2190	N
M	93	600	TTNA	2	38	23-51N	54-03W	3747	5 MAY 81	2	22	396P	13 JUL 81	2184.51	2190	N
M	94	601	TTNA	2	32	15-03N	53-57W	253	30 APR 81	4	44	567P	20 JUL 81	2155.61		N
M	95	602	TTNA	2	32	15-03N	53-57W	253	30 APR 81	4	44	568P	20 JUL 81	2155.44		N
M	96	603	TTNA	2	32	15-03N	53-57W	253	30 APR 81	4	44	568P	20 JUL 81	2155.60		N
M	97	604	TTNA	2	32	15-03N	53-57W	352	30 APR 81	4	45	569P	21 JUL 81	2187.20	2194	N
M	98	605	TTNA	2	32	15-03N	53-57W	352	30 APR 81	4	45	570P	21 JUL 81	2187.77	2194	N
M	99	606	TTNA	2	32	15-03N	53-57W	749	30 APR 81	4	47	571P	22 JUL 81	2219.27	2223	N
M	100	607	TTNA	2	32	15-03N	53-57W	749	30 APR 81	4	47	572P	22 JUL 81	2220.51	2223	N
M	101	608	TTNA	2	32	15-03N	53-57W	1097	30 APR 81	5	44	485P	22 JUL 81	2207.44	2202	N
M	102	609	TTNA	2	32	15-03N	53-57W	1097	30 APR 81	5	44	486P	23 JUL 81	2206.63	2202	N
M	103	610	TTNA	2	32	15-03N	53-57W	1982	30 APR 81	5	45	487P	23 JUL 81	2160.40	2163	N
M	104	611	TTNA	2	32	15-03N	53-57W	1982	30 APR 81	5	45	488P	23 JUL 81	2160.53	2163	N
M	105	612	TTNA	2	32	15-03N	53-57W	2970	30 APR 81	5	48	489P	27 JUL 81	2175.37	2178	N
M	106	613	TTNA	2	32	15-03N	53-57W	2970	30 APR 81	5	48	490P	27 JUL 81	2175.43	2178	N
M	107	614	TTNA	2	34	18-02N	53-58W	8	2 MAY 81	2	1	491P	28 JUL 81	1946.93	1958	N
M	108	615	TTNA	2	34	18-02N	53-58W	8	2 MAY 81	2	1	492P	28 JUL 81	1946.81	1958	N

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TABLE 8 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SIO	P&CODEF	RUN CODE
M	109	616	TTNA	2	34	18-02N	53-58W	4p	02 MAY 81	0	0	477P	29 JUL 81	29 JUL 81	1946.04	N
M	110	617	TTNA	2	34	18-02N	53-58W	4p	02 MAY 81	0	0	478P	29 JUL 81	29 JUL 81	1946.12	N
M	111	618	TTNA	2	34	18-02N	53-58W	71	2 MAY 81	2	2	479P	29 JUL 81	30 JUL 81	2033.07	2044 N
M	112	619	TTNA	2	34	18-02N	53-58W	71	2 MAY 81	2	2	480P	30 JUL 81	30 JUL 81	2033.47	2044 N
M	113	620	TTNA	2	34	18-02N	53-58W	146	2 MAY 81	2	4	481P	30 JUL 81	30 JUL 81	2094.58	N
M	114	621	TTNA	2	34	18-02N	53-58W	146	2 MAY 81	2	4	482P	31 JUL 81	31 JUL 81	2093.22	N
M	115	622	TTNA	2	34	18-02N	53-58W	247	2 MAY 81	2	6	483P	31 JUL 81	31 JUL 81	2117.87	2126 N
M	116	623	TTNA	2	34	18-02N	53-58W	247	2 MAY 81	2	6	484P	8 SEP 81	8 SEP 81	2118.20	2126 N
M	117	624	TTNA	2	34	18-02N	53-58W	346	2 MAY 81	2	8	581P	8 SEP 81	9 SEP 81	2145.16	2151 N
M	118	625	TTNA	2	34	18-02N	53-58W	346	2 MAY 81	2	8	582P	9 SEP 81	10 SEP 81	2143.94	2151 N
M	119	626	TTNA	2	34	18-02N	53-58W	667	2 MAY 81	2	11	583P	9 SEP 81	10 SEP 81	2205.95	2210 N
M	120	627	TTNA	2	34	18-02N	53-58W	667	2 MAY 81	2	11	584P	10 SEP 81	10 SEP 81	2207.32	2210 N
M	121	628	TTNA	2	34	18-02N	53-58W	962	2 MAY 81	2	13	585P	10 SEP 81	11 SEP 81	2212.14	2214 N
M	122	629	TTNA	2	34	18-02N	53-58W	962	2 MAY 81	2	13	586P	11 SEP 81	11 SEP 81	2212.36	2214 N
M	123	630	TTNA	2	34	18-02N	53-58W	1975	2 MAY 81	2	18	587P	11 SEP 81	11 SEP 81	2165.57	2170 N
M	124	631	TTNA	2	34	18-02N	53-58W	1975	2 MAY 81	2	18	588P	15 SEP 81	16 SEP 81	2165.30	2170 N
M	125	632	TTNA	2	34	18-02N	53-58W	2951	2 MAY 81	2	20	629P	15 SEP 81	16 SEP 81	2177.47	2183 N
M	126	633	TTNA	2	34	18-02N	53-58W	2951	2 MAY 81	2	20	630P	16 SEP 81	16 SEP 81	2178.81	2183 N
M	127	634	TTNA	2	34	18-02N	53-58W	3928	2 MAY 81	2	22	631P	16 SEP 81	17 SEP 81	2188.46	2194 N
M	128	635	TTNA	2	34	18-02N	53-58W	3928	2 MAY 81	2	22	632P	17 SEP 81	17 SEP 81	2192.45	2194 N
M	129	636	TTNA	2	36	21-01N	53-59W	365	3 MAY 81	2	7	633P	17 SEP 81	18 SEP 81	2108.60	2115 N
M	130	637	TTNA	2	36	21-01N	53-59W	365	3 MAY 81	2	7	634P	17 SEP 81	18 SEP 81	2110.33	2115 N
M	131	638	TTNA	2	36	21-01N	53-59W	4p	03 MAY 81	0	0	635P	18 SEP 81	18 SEP 81	2006.03	N
M	132	639	TTNA	2	36	21-01N	53-59W	4p	03 MAY 81	0	0	636P	18 SEP 81	18 SEP 81	2003.67	N
M	133	640	TTNA	2	36	21-01N	53-59W	994	3 MAY 81	2	12	635P	21 SEP 81	21 SEP 81	2199.82	2202 N
M	134	641	TTNA	2	36	21-01N	53-59W	994	3 MAY 81	2	12	636P	21 SEP 81	21 SEP 81	2199.73	2202 N
M	135	642	TTNA	2	36	21-01N	53-59W	1973	3 MAY 81	2	16	357P	22 SEP 81	22 SEP 81	2168.33	2170 N
M	136	643	TTNA	2	36	21-01N	53-59W	1973	3 MAY 81	2	16	358P	22 SEP 81	23 SEP 81	2168.80	2170 N
M	137	644	TTNA	2	36	21-01N	53-59W	2925	3 MAY 81	2	18	359P	23 SEP 81	23 SEP 81	2175.59	2179 N
M	138	645	TTNA	2	36	21-01N	53-59W	2925	3 MAY 81	2	18	360P	23 SEP 81	23 SEP 81	2174.66	2179 N
M	139	646	TTNA	2	36	21-01N	53-59W	10	3 MAY 81	4	40	549P	24 SEP 81	24 SEP 81	2003.90	2014 N
M	140	647	TTNA	2	36	21-01N	53-59W	10	3 MAY 81	4	40	550P	24 SEP 81	24 SEP 81	2003.86	2014 N
M	141	648	TTNA	2	36	21-01N	53-59W	3899	3 MAY 81	2	20	361P	25 SEP 81	25 SEP 81	2174.97	2180 N
M	142	649	TTNA	2	36	21-01N	53-59W	3899	3 MAY 81	2	20	362P	25 SEP 81	0 0 00	2180	R
M	143	650	TTNA	2	36	21-01N	53-59W	70	3 MAY 81	4	45	551P	28 SEP 81	28 SEP 81	2022.16	2033 N
M	144	651	TTNA	2	36	21-01N	53-59W	70	3 MAY 81	4	45	552P	28 SEP 81	28 SEP 81	2031.86	2033 N

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TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SIO	P&CODEF	RUN CODE
M	145	852	TTNA	2	36	21-01N	53-59W	159	3 MAY 81	4 44	553P	29 SEP 81	29 SEP 81	2086.37	2101	N
M	146	853	TTNA	2	36	21-01N	53-59W	159	3 MAY 81	4 44	554P	29 SEP 81	29 SEP 81	2085.08	2101	N
M	147	854	TTNA	2	36	21-01N	53-59W	239	3 MAY 81	4 41	555P	29 SEP 81	30 SEP 81	2093.18	2105	N
M	148	855	TTNA	2	36	21-01N	53-59W	239	3 MAY 81	4 41	556P	30 SEP 81	30 SEP 81	2095.08	2105	N
M	149	856	TTNA	2	36	21-01N	53-59W	676	3 MAY 81	4 47	597P	30 SEP 81	30 SEP 81	2188.84	2194	N
M	150	857	TTNA	2	39	25-21N	55-54W	11	6 MAY 81	2 1	437P	1 OCT 81	5 OCT 81	2032.39	2037	N
M	151	858	TTNA	2	39	25-21N	55-54W	11	6 MAY 81	2 1	438P	5 OCT 81	5 OCT 81	2032.20	2037	N
M	152	859	TTNA	2	39	25-21N	55-54W	11	6 MAY 81	2 1	439P	5 OCT 81	5 OCT 81	2032.22	2037	N
M	153	860	TTNA	2	40	27-30N	58-35W	7	7 MAY 81	2 1	440PA	6 OCT 81	7 OCT 81	2037.83	2049	N
M	154	861	TTNA	2	40	27-30N	58-35W	7	7 MAY 81	2 1	440PB	6 OCT 81	7 OCT 81	2037.47	2049	N
M	155	862	TTNA	2	40	27-30N	58-35W	7	7 MAY 81	2 1	441PA	7 OCT 81	7 OCT 81	2038.88	2049	N
M	156	863	TTNA	2	40	27-30N	58-35W	7	7 MAY 81	2 1	441PB	7 OCT 81	7 OCT 81	2037.62	2049	N
M	157	864	TTNA	2	41	29-43N	61-18W	13	9 MAY 81	1 1	442PA	8 OCT 81	8 OCT 81	2048.90	2058	N
M	158	865	TTNA	2	41	29-43N	61-18W	13	9 MAY 81	1 1	442PB	8 OCT 81	9 OCT 81	2048.27	2058	N
M	159	866	TTNA	2	41	29-43N	61-18W	13	9 MAY 81	1 1	443PA	9 OCT 81	9 OCT 81	2047.50	2058	N
M	160	867	TTNA	2	41	29-43N	61-18W	13	9 MAY 81	1 1	443PB	9 OCT 81	9 OCT 81	2047.43	2058	N
M	161	868	TTNA	2	36	21-01N	53-59W	676	3 MAY 81	4 47	598P	1 OCT 81	10 OCT 81	2191.61	2194	N
M	162	867	TTNA	0	3	31-48N	50-46W	2750	23 OCT 80	5 42	280PA	22 OCT 81	22 OCT 81	2188.62	2169	N
M	163	868	TTNA	0	3	31-48N	50-46W	2750	23 OCT 80	5 42	280PB	22 OCT 81	23 OCT 81	2169.19	2169	N
M	164	869	TTNA	0	3	31-48N	50-46W	3667	23 OCT 80	5 47	284PA	23 OCT 81	23 OCT 81	2171.80	2177	N
M	165	890	TTNA	0	3	31-48N	50-46W	3667	23 OCT 80	5 47	284PB	23 OCT 81	23 OCT 81	2171.94	2177	N
M	166	891	TTNA	0	3	31-48N	50-46W	4125	23 OCT 80	5 45	288PA	27 OCT 81	28 OCT 81	2175.65	2178	N
M	167	892	TTNA	0	3	31-48N	50-46W	4125	23 OCT 80	5 45	288PB	27 OCT 81	28 OCT 81	2175.98	2178	N
M	168	824	TTNA	0	3	31-48N	50-46W	2612	23 OCT 80	5 41	277PA	3 FEB 82	3 FEB 82	2168.34	2172	N
M	169	825	TTNA	0	3	31-48N	50-46W	2612	23 OCT 80	5 41	277PB	3 FEB 82	3 FEB 82	2168.40	2172	N
M	170	826	TTNA	0	3	31-48N	50-46W	3209	23 OCT 80	5 46	282PA	4 FEB 82	4 FEB 82	2171.01	2177	N
M	171	827	TTNA	0	3	31-48N	50-46W	3209	23 OCT 80	5 46	282PB	4 FEB 82	5 FEB 82	2171.72	2177	N
M	172	828	TTNA	0	3	31-48N	50-46W	3675	23 OCT 80	5 48	286PA	5 FEB 82	5 FEB 82	2172.91	2179	N
M	173	829	TTNA	0	3	31-48N	50-46W	3675	23 OCT 80	5 48	286PB	5 FEB 82	5 FEB 82	2171.80	2179	N
M	174	830	TTNA	7	224	46-56N	43-04W	8	25 SEP 81	1 1	761P	19 FEB 82	19 FEB 82	1980.96	1993	N
M	175	831	TTNA	7	224	46-56N	43-04W	8	25 SEP 81	1 1	762P	0 0 00	0 0 00		1993	R
M	176	832	TTNA	7	225	46-55N	41-49W	15	26 SEP 81	3 1	763P	19 FEB 82	19 FEB 82	1976.31	1985	N
M	177	833	TTNA	7	225	46-55N	41-49W	15	26 SEP 81	3 1	764P	23 FEB 82	24 FEB 82	1977.33	1985	N
M	178	834	TTNA	7	226	46-42N	40-00W	11	26 SEP 81	3 1	501P	23 FEB 82	24 FEB 82	1998.31	2009	N
M	179	835	TTNA	7	227	44-59N	42-02W	27	28 SEP 81	2 1	503P	24 FEB 82	24 FEB 82	2029.12	2041	N
M	180	836	TTNA	7	227	44-59N	42-02W	27	28 SEP 81	2 1	504P	24 FEB 82	25 FEB 82	2028.76	2041	N

TYPE (SAMPLE):

M = ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4

DEPTH:

P = SURFACE PUMP SAMPLE

BOTTLE/RUN:

P = PYREX BOTTLE TYPE

RUN CODE:

C = QUARTZ SPIRAL MANOMETER CALIBRATION STANDARD

D = ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS

N = SAMPLE ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER ONLY

R = SAMPLE NOT ANALYZED, OR PEREMPTORILY-REJECTED SAMPLE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SIO	P&CODF	RUN CODE
M	181	837	TTNA	7	233	33-55N	49-35W	8	4 OCT 81	1 1	373P	25 FEB 82	25 FEB 82	2031.59	2043	N
M	182	838	TTNA	7	233	33-55N	49-35W	8	4 OCT 81	1 1	374P	25 FEB 82	26 FEB 82	2032.49	2043	N
M	183	839	TTNA	7	234	31-45N	50-45W	8	5 OCT 81	4 40	535P	26 FEB 82	26 FEB 82	2024.52	2043	N
M	184	840	TTNA	7	234	31-45N	50-45W	8	5 OCT 81	4 40	536P	26 FEB 82	26 FEB 82	2023.46	2043	N
M	185	841	TTNA	7	234	31-45N	50-45W	98	5 OCT 81	4 41	537P	1 MAR 82	1 MAR 82	2052.92	2062	N
M	186	842	TTNA	7	234	31-45N	50-45W	98	5 OCT 81	4 41	538P	1 MAR 82	2 MAR 82	2053.31	2062	N
M	187	843	TTNA	7	234	31-45N	50-45W	159	5 OCT 81	2 2	375P	2 MAR 82	2 MAR 82	2084.48		N
M	188	844	TTNA	7	234	31-45N	50-45W	159	5 OCT 81	2 2	376P	2 MAR 82	3 MAR 82	2084.92		N
M	189	845	TTNA	7	234	31-45N	50-45W	243	5 OCT 81	4 42	539P	3 MAR 82	3 MAR 82	2084.05	2100	N
M	190	846	TTNA	7	234	31-45N	50-45W	243	5 OCT 81	4 42	540P	3 MAR 82	3 MAR 82	2083.35	2100	N
M	191	847	TTNA	7	234	31-45N	50-45W	387	5 OCT 81	4 43	678P	3 MAR 82	4 MAR 82	2105.85	2113	N
M	192	848	TTNA	7	234	31-45N	50-45W	452	5 OCT 81	2 4	377P	4 MAR 82	4 MAR 82	2113.92		N
M	193	849	TTNA	7	234	31-45N	50-45W	387	5 OCT 81	4 43	679P	4 MAR 82	4 MAR 82	2105.27	2113	N
M	194	850	TTNA	7	234	31-45N	50-45W	452	5 OCT 81	2 4	378P	5 MAR 82	5 MAR 82	2113.85		N
M	195	851	TTNA	7	234	31-45N	50-45W	529	5 OCT 81	4 44	680P	5 MAR 82	5 MAR 82	2129.38	2146	N
M	196	852	TTNA	7	234	31-45N	50-45W	529	5 OCT 81	4 44	684P	7 MAR 82	8 MAR 82	2129.07	2146	N
M	197	853	TTNA	7	234	31-45N	50-45W	596	5 OCT 81	2 5	380P	8 MAR 82	8 MAR 82	2146.82	2157	N
M	198	854	TTNA	7	234	31-45N	50-45W	750	5 OCT 81	2 6	533P	9 MAR 82	9 MAR 82	2179.15		N
M	199	855	TTNA	7	234	31-45N	50-45W	750	5 OCT 81	2 6	534P	9 MAR 82	9 MAR 82	2179.08		N
M	200	856	TTNA	7	231	36-00N	47-01W	15	3 OCT 81	2 1	425P	10 MAR 82	11 MAR 82	2024.30	2043	N
M	201	857	TTNA	7	231	36-00N	47-01W	15	3 OCT 81	2 1	426P	10 MAR 82	11 MAR 82	2022.51	2043	N
M	202	858	TTNA	7	248	43-01N	59-35W	7	16 OCT 81	1 1	682P	10 MAR 82	0 0 00		1969	R
M	203	859	TTNA	7	248	43-01N	59-35W	7	16 OCT 81	1 1	683P	10 MAR 82	11 MAR 82	1959.37	1969	N
M	204	860	TTNA	7	231	36-00N	47-01W	75	3 OCT 81	2 2	427P	11 MAR 82	11 MAR 82	2064.89	2073	N
M	205	861	TTNA	7	231	36-00N	47-01W	75	3 OCT 81	2 2	428P	11 MAR 82	12 MAR 82	2065.78	2073	N
M	206	862	TTNA	7	231	36-00N	47-01W	150	3 OCT 81	2 3	461P	12 MAR 82	12 MAR 82	2087.94	2109	N
M	207	863	TTNA	7	248	43-01N	59-35W	7	16 OCT 81	1 1	682P	12 MAR 82	12 MAR 82	1959.56	1969	N
M	208	864	TTNA	7	231	36-00N	47-01W	150	3 OCT 81	2 3	462P	16 MAR 82	16 MAR 82	2088.72	2109	N
M	209	865	TTNA	7	231	36-00N	47-01W	247	3 OCT 81	4 40	685P	16 MAR 82	16 MAR 82	2099.80	2112	N
M	210	866	TTNA	7	231	36-00N	47-01W	247	3 OCT 81	4 40	686P	16 MAR 82	17 MAR 82	2098.93	2112	N
M	211	867	TTNA	7	231	36-00N	47-01W	397	3 OCT 81	4 41	687P	17 MAR 82	17 MAR 82	2120.37	2141	N
M	212	868	TTNA	7	231	36-00N	47-01W	397	3 OCT 81	4 41	688P	17 MAR 82	18 MAR 82	2119.99	2141	N
M	213	869	TTNA	7	231	36-00N	47-01W	473	3 OCT 81	2 5	463P	18 MAR 82	18 MAR 82	2136.49	2150	N
M	214	870	TTNA	7	231	36-00N	47-01W	473	3 OCT 81	2 5	464P	18 MAR 82	18 MAR 82	2135.48	2150	N
M	215	871	TTNA	7	231	36-00N	47-01W	672	3 OCT 81	2 6	465P	23 MAR 82	23 MAR 82	2176.75	2180	N
M	216	872	TTNA	7	231	36-00N	47-01W	672	3 OCT 81	2 6	466P	23 MAR 82	24 MAR 82	2176.91	2180	N

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TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SIO	P&CODF	RUN CODE
M	217	873	TTNA	7	231	36-00N	47-01W	695	3 OCT 81	4 43	689P	24 MAR 82	24 MAR 82	2178.10	2191	N
M	218	874	TTNA	7	231	36-00N	47-01W	695	3 OCT 81	4 43	690P	24 MAR 82	25 MAR 82	2178.35	2191	N
M	219	875	TTNA	7	231	36-00N	47-01W	922	3 OCT 81	2 8	467P	25 MAR 82	25 MAR 82	2176.33	2181	N
M	220	876	TTNA	7	231	36-00N	47-01W	922	3 OCT 81	2 8	468P	25 MAR 82	25 MAR 82	2179.20	2181	N
M	221	877	TTNA	7	231	36-00N	47-01W	996	3 OCT 81	4 45	691P	25 MAR 82	26 MAR 82	2174.80	2184	N
M	222	878	TTNA	7	231	36-00N	47-01W	2093	3 OCT 81	1 42	611P	26 MAR 82	26 MAR 82	2156.86	2158	N
M	223	879	TTNA	7	231	36-00N	47-01W	996	3 OCT 81	4 45	692P	26 MAR 82	26 MAR 82	2174.90	2184	N
M	224	880	TTNA	7	231	36-00N	47-01W	2093	3 OCT 81	1 42	612P	29 MAR 82	29 MAR 82	2158.51	2158	N
M	225	881	TTNA	7	231	36-00N	47-01W	3074	3 OCT 81	1 44	421P	29 MAR 82	29 MAR 82	2164.84	2172	N
M	226	882	TTNA	7	231	36-00N	47-01W	3074	3 OCT 81	1 44	422P	30 MAR 82	31 MAR 82	2163.79	2172	N
M	227	883	TTNA	7	231	36-00N	47-01W	4060	3 OCT 81	1 46	423P	31 MAR 82	31 MAR 82	2172.52	2181	N
M	228	884	TTNA	7	231	36-00N	47-01W	4060	3 OCT 81	1 46	424P	31 MAR 82	1 APR 82	2172.84	2181	N
M	229	885	TTNA	7	229	39-00N	44-00W	11	1 OCT 81	3 1	807P	12 APR 82	13 APR 82	2023.99	2032	N
M	230	886	TTNA	7	229	39-00N	44-00W	11	1 OCT 81	3 1	808P	12 APR 82	13 APR 82	2023.74	2032	N
M	231	887	TTNA	7	229	39-00N	44-00W	55	1 OCT 81	3 2	809P	13 APR 82	14 APR 82	2032.08		N
M	232	888	TTNA	7	229	39-00N	44-00W	55	1 OCT 81	3 2	810P	13 APR 82	14 APR 82	2032.72		N
M	233	889	TTNA	7	229	39-00N	44-00W	152	1 OCT 81	3 3	811P	14 APR 82	14 APR 82	2079.31		N
M	234	890	TTNA	7	229	39-00N	44-00W	152	1 OCT 81	3 3	812P	14 APR 82	15 APR 82	2078.02		N
M	235	891	TTNA	7	229	39-00N	44-00W	247	1 OCT 81	4 41	531P	14 APR 82	15 APR 82	2082.32	2090	N
M	236	892	TTNA	7	229	39-00N	44-00W	398	1 OCT 81	3 7	525P	15 APR 82	15 APR 82	2102.82	2112	N
M	237	893	TTNA	7	229	39-00N	44-00W	247	1 OCT 81	4 41	532P	15 APR 82	15 APR 82	2085.70	2090	N
M	238	894	TTNA	7	229	39-00N	44-00W	398	1 OCT 81	3 7	526P	21 APR 82	21 APR 82	2103.67	2112	N
M	239	895	TTNA	7	229	39-00N	44-00W	495	1 OCT 81	4 42	605P	21 APR 82	22 APR 82	2114.10	2121	N
M	240	896	TTNA	7	229	39-00N	44-00W	495	1 OCT 81	4 42	606P	21 APR 82	22 APR 82	2113.10	2121	N
M	241	897	TTNA	7	229	39-00N	44-00W	602	1 OCT 81	3 8	527P	22 APR 82	22 APR 82	2119.25		N
M	242	898	TTNA	7	229	39-00N	44-00W	602	1 OCT 81	3 8	528P	22 APR 82	23 APR 82	2118.73		N
M	243	899	TTNA	7	229	39-00N	44-00W	693	1 OCT 81	4 43	607P	26 APR 82	27 APR 82	2143.07	2147	N
M	244	900	TTNA	7	229	39-00N	44-00W	693	1 OCT 81	4 43	608P	26 APR 82	27 APR 82	2143.35	2147	N
M	245	901	TTNA	7	229	39-00N	44-00W	797	1 OCT 81	3 9	529P	27 APR 82	27 APR 82	2173.26	2176	N
M	246	902	TTNA	7	229	39-00N	44-00W	797	1 OCT 81	3 9	530P	27 APR 82	28 APR 82	2173.04	2176	N
M	247	903	TTNA	7	229	39-00N	44-00W	992	1 OCT 81	4 45	609P	28 APR 82	28 APR 82	2170.98	2171	N
M	248	904	TTNA	7	229	39-00N	44-00W	2073	1 OCT 81	2 40	825P	28 APR 82	29 APR 82	2154.62	2157	N
M	249	905	TTNA	7	229	39-00N	44-00W	992	1 OCT 81	4 45	610P	28 APR 82	29 APR 82	2171.58	2171	N
M	250	906	TTNA	7	229	39-00N	44-00W	2073	1 OCT 81	2 40	826P	29 APR 82	30 APR 82	2154.27	2157	N
M	251	907	TTNA	7	229	39-00N	44-00W	3064	1 OCT 81	2 43	827P	29 APR 82	30 APR 82	2158.31	2161	N
M	252	908	TTNA	7	229	39-00N	44-00W	3064	1 OCT 81	2 43	828P	30 APR 82	30 APR 82	2158.22	2161	N

TYPE (SAMPLE):

M = ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE/RUN:

P = PYREX BOTTLE TYPE

RUN CODE:

C = QUARTZ SPIRAL MANOMETER CALIBRATION STANDARD

D = ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SID	P&CODF	RUN CODE
M	253	909	TTNA	7	229	39-00N	44-00W	4056	1 OCT 81	2 45	805P	30 APR 82	30 APR 82	2166.92	2170	N
M	254	910	TTNA	7	228	42-01N	42-00W	84	29 SEP 81	2 41	505P	3 MAY 82	4 MAY 82	2082.44	2091	N
M	255	911	TTNA	7	229	39-00N	44-00W	4056	1 OCT 81	2 45	806P	3 MAY 82	4 MAY 82	2404.32	2170	N
M	256	912	TTNA	7	228	42-01N	42-00W	84	29 SEP 81	2 41	506P	4 MAY 82	4 MAY 82	2081.26	2091	N
M	257	913	TTNA	7	228	42-01N	42-00W	152	29 SEP 81	3 3	579P	4 MAY 82	4 MAY 82	2082.19	2095	N
M	258	914	TTNA	7	228	42-01N	42-00W	152	29 SEP 81	3 3	580P	4 MAY 82	5 MAY 82	2082.31	2095	R
M	259	915	TTNA	7	228	42-01N	42-00W	152	29 SEP 81	3 3	580P	4 MAY 82	5 MAY 82	2081.84	2095	N
M	260	916	TTNA	7	228	42-01N	42-00W	185	29 SEP 81	2 42	507P	5 MAY 82	5 MAY 82	2084.32	2096	N
M	261	917	TTNA	7	228	42-01N	42-00W	185	29 SEP 81	2 42	508P	5 MAY 82	5 MAY 82	2083.75	2096	N
M	262	918	TTNA	7	228	42-01N	42-00W	251	29 SEP 81	3 4	429P	5 MAY 82	5 MAY 82	2087.15	2094	N
M	263	919	TTNA	7	228	42-01N	42-00W	251	29 SEP 81	3 4	430P	6 MAY 82	7 MAY 82	2086.81	2094	N
M	264	920	TTNA	7	228	42-01N	42-00W	302	29 SEP 81	3 5	431P	6 MAY 82	7 MAY 82	2096.43	2107	N
M	265	921	TTNA	7	228	42-01N	42-00W	379	29 SEP 81	2 43	573P	7 MAY 82	7 MAY 82	2100.36	2106	N
M	266	922	TTNA	7	228	42-01N	42-00W	302	29 SEP 81	3 5	432P	7 MAY 82	7 MAY 82	2097.31	2107	N
M	267	923	TTNA	7	228	42-01N	42-00W	379	29 SEP 81	2 43	574P	13 MAY 82	13 MAY 82	2100.64	2106	N
M	268	924	TTNA	7	228	42-01N	42-00W	499	29 SEP 81	3 6	433P	13 MAY 82	14 MAY 82	2118.79	2121	N
M	269	925	TTNA	7	228	42-01N	42-00W	679	29 SEP 81	2 44	575P	14 MAY 82	14 MAY 82	2151.64	2156	N
M	270	926	TTNA	7	228	42-01N	42-00W	499	29 SEP 81	3 6	434P	14 MAY 82	14 MAY 82	2118.05	2121	N
M	271	927	TTNA	7	228	42-01N	42-00W	679	29 SEP 81	2 44	576P	18 MAY 82	18 MAY 82	2151.48	2156	N
M	272	928	TTNA	7	228	42-01N	42-00W	975	29 SEP 81	2 46	577P	18 MAY 82	18 MAY 82	2170.61	2173	N
M	273	929	TTNA	7	228	42-01N	42-00W	975	29 SEP 81	2 46	578P	18 MAY 82	19 MAY 82	2170.44	2173	N
M	274	930	TTNA	7	228	42-01N	42-00W	2048	29 SEP 81	4 41	435P	19 MAY 82	19 MAY 82	2151.96	2154	N
M	275	931	TTNA	7	228	42-01N	42-00W	2048	29 SEP 81	4 41	436P	19 MAY 82	19 MAY 82	2151.07	2154	N
M	276	932	TTNA	7	228	42-01N	42-00W	3048	29 SEP 81	4 44	821P	19 MAY 82	20 MAY 82	2153.84	2156	N
M	277	933	TTNA	7	228	42-01N	42-00W	3048	29 SEP 81	4 44	822P	20 MAY 82	0 0 00		2156	R
M	278	934	TTNA	7	228	42-01N	42-00W	4025	29 SEP 81	4 46	823P	20 MAY 82	20 MAY 82	2162.87	2163	N
M	279	935	TTNA	7	228	42-01N	42-00W	4025	29 SEP 81	4 46	824P	24 MAY 82	24 MAY 82	2162.87	2163	N
M	280	936	TTNA	6	214	51-00N	42-58W	4p	13 SEP 81	0 0	697P	24 MAY 82	25 MAY 82	2032.99		N
M	281	937	TTNA	6	214	51-00N	42-58W	4p	13 SEP 81	0 0	698P	24 MAY 82	25 MAY 82	2032.08		N
M	282	938	TTNA	6	214	51-00N	42-58W	157	13 SEP 81	7 1	699P	25 MAY 82	25 MAY 82	2099.30	2110	N
M	283	939	TTNA	6	214	51-00N	42-58W	157	13 SEP 81	7 1	700P	25 MAY 82	25 MAY 82	2099.82	2110	N
M	284	940	TTNA	6	214	51-00N	42-58W	304	13 SEP 81	7 2	509P	25 MAY 82	26 MAY 82	2099.40	2106	N
M	285	941	TTNA	6	214	51-00N	42-58W	304	13 SEP 81	7 2	510P	26 MAY 82	26 MAY 82	2098.17	2106	N
M	286	942	TTNA	6	214	51-00N	42-58W	706	13 SEP 81	7 4	511P	26 MAY 82	26 MAY 82	2169.79		N
M	287	943	TTNA	6	214	51-00N	42-58W	904	13 SEP 81	7 5	513P	26 MAY 82	27 MAY 82	2157.44	2163	N
M	288	944	TTNA	6	214	51-00N	42-58W	904	13 SEP 81	7 5	514P	27 MAY 82	27 MAY 82	2158.20	2163	N

TYPE (SAMPLE):

M = ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE/RUN:

P = PYREX BOTTLE TYPE

RUN CODE:

C = QUARTZ SPIRAL MANOMETER CALIBRATION STANDARD

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SIO	P&CODE	RUN CODE
M	289	945	TTNA	6	214	51-00N	42-58W	1304	13 SEP 81	7 7	516P	27 MAY 82	27 MAY 82	2152.83	2158	N
M	290	946	TTNA	6	214	51-00N	42-58W	1304	13 SEP 81	7 7	516P	27 MAY 82	28 MAY 82	2153.98	2158	N
M	291	947	TTNA	6	214	51-00N	42-58W	2244	13 SEP 81	7 11	741P	1 JUN 82	1 JUN 82	2152.25	2158	N
M	292	948	TTNA	6	214	51-00N	42-58W	2244	13 SEP 81	7 11	742P	1 JUN 82	1 JUN 82	2152.24	2158	N
M	293	949	TTNA	6	214	51-00N	42-58W	4236	13 SEP 81	7 22	743P	-01A 1 JUN 82	2 JUN 82	2151.10	2157	R
M	294	950	TTNA	6	214	51-00N	42-58W	4236	13 SEP 81	7 22	743P	-01B 1 JUN 82	2 JUN 82	2150.77	2157	N
M	295	951	TTNA	6	206	53-55N	39-53W	4p	08 SEP 81	0 0	397P	2 JUN 82	2 JUN 82	2053.04		N
M	296	952	TTNA	6	214	51-00N	42-58W	4236	13 SEP 81	7 22	744P	2 JUN 82	2 JUN 82	2151.31	2157	N
M	297	953	TTNA	6	206	53-55N	39-53W	4p	08 SEP 81	0 0	398P	2 JUN 82	3 JUN 82	2050.02		N
M	298	956	TTNA	6	206	53-55N	39-53W	13	8 SEP 81	1 1	399P	7 JUN 82	8 JUN 82	2052.58	2060	N
M	299	957	TTNA	6	206	53-55N	39-53W	13	8 SEP 81	1 1	400P	10 JUN 82	10 JUN 82	2054.91	2060	N
M	300	958	TTNA	6	206	53-55N	39-53W	54	8 SEP 81	1 2	401P	10 JUN 82	10 JUN 82	2128.01	2138	N
M	301	959	TTNA	6	206	53-55N	39-53W	54	8 SEP 81	1 2	402P	14 JUN 82	14 JUN 82	2128.93	2138	N
M	302	960	TTNA	6	206	53-55N	39-53W	78	8 SEP 81	1 3	403P	14 JUN 82	15 JUN 82	2138.82	2145	N
M	303	961	TTNA	6	206	53-55N	39-53W	78	8 SEP 81	1 3	404P	15 JUN 82	15 JUN 82	2137.13	2145	N
M	304	962	TTNA	6	206	53-55N	39-53W	164	8 SEP 81	1 4	365P	15 JUN 82	16 JUN 82	2141.58	2150	N
M	305	963	TTNA	6	206	53-55N	39-53W	164	8 SEP 81	1 4	366P	16 JUN 82	16 JUN 82	2140.86	2150	N
M	306	964	TTNA	6	206	53-55N	39-53W	379	8 SEP 81	1 6	367P	16 JUN 82	17 JUN 82	2153.57	2159	N
M	307	965	TTNA	6	206	53-55N	39-53W	379	8 SEP 81	1 6	368P	17 JUN 82	17 JUN 82	2152.30	2159	N
M	308	966	TTNA	6	206	53-55N	39-53W	803	8 SEP 81	1 9	369P	17 JUN 82	17 JUN 82	2153.47	2157	N
M	309	967	TTNA	6	206	53-55N	39-53W	803	8 SEP 81	1 9	370P	21 JUN 82	21 JUN 82	2152.85	2157	N
M	310	968	TTNA	6	206	53-55N	39-53W	1001	8 SEP 81	1 10	371P	21 JUN 82	22 JUN 82	2154.21	2158	N
M	311	969	TTNA	6	206	53-55N	39-53W	1001	8 SEP 81	1 10	372P	22 JUN 82	22 JUN 82	2151.12	2158	N
M	312	970	TTNA	6	206	53-55N	39-53W	1597	8 SEP 81	1 13	615P	22 JUN 82	22 JUN 82	2150.54	2155	N
M	313	971	TTNA	6	206	53-55N	39-53W	1597	8 SEP 81	1 13	616P	23 JUN 82	23 JUN 82	2153.17	2155	N
M	314	972	TTNA	6	206	53-55N	39-53W	2052	8 SEP 81	1 15	613P	23 JUN 82	24 JUN 82	2152.87	2158	N
M	315	973	TTNA	6	206	53-55N	39-53W	2052	8 SEP 81	1 15	614P	24 JUN 82	24 JUN 82	2152.03	2158	N
M	316	974	TTNA	6	206	53-55N	39-53W	3097	8 SEP 81	1 20	617P	-01A 24 JUN 82	24 JUN 82	2163.23	2164	N
M	317	975	TTNA	6	206	53-55N	39-53W	3097	8 SEP 81	1 20	617P	-01B 24 JUN 82	25 JUN 82	2163.50	2164	N
M	318	976	TTNA	6	206	53-55N	39-53W	3097	8 SEP 81	1 20	618PA	25 JUN 82	25 JUN 82	2158.72	2164	N
M	319	977	TTNA	6	206	53-55N	39-53W	3097	8 SEP 81	1 20	618PB	25 JUN 82	25 JUN 82	2157.35	2164	N
M	320	978	TTNA	6	177	58-40N	38-16W	103	26 AUG 81	3 1	325PA	9 JUL 82	9 JUL 82	2137.24	2149	N
M	321	979	TTNA	6	177	58-40N	38-16W	103	26 AUG 81	3 1	325PB	9 JUL 82	9 JUL 82	2136.94	2149	N
M	322	980	TTNA	6	177	58-40N	38-16W	103	26 AUG 81	3 1	326PA	12 JUL 82	12 JUL 82	2137.68	2149	N
M	323	981	TTNA	6	177	58-40N	38-16W	103	26 AUG 81	3 1	326PB	12 JUL 82	12 JUL 82	2137.22	2149	N
M	324	982	TTNA	6	177	58-40N	38-16W	192	26 AUG 81	3 2	327P	13 JUL 82	14 JUL 82	2142.32	2151	N

TYPE (SAMPLE):

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN		EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW)		RUN CODE	
										CAST	BOTTLE/RUN			SIO	P&CODF		
M	325	983	TTNA	6	177	58-40N	38-16W	192	26 AUG 81	3	2	328P	13 JUL 82	14 JUL 82	2142.00	2151	N
M	326	984	TTNA	6	177	58-40N	38-16W	253	26 AUG 81	3	3	329P	14 JUL 82	14 JUL 82	2143.20	2148	N
M	327	985	TTNA	6	177	58-40N	38-16W	253	26 AUG 81	3	3	330P	14 JUL 82	14 JUL 82	2143.24	2148	N
M	328	986	TTNA	6	177	58-40N	38-16W	504	26 AUG 81	3	5	331P	14 JUL 82	15 JUL 82	2143.04	2149	N
M	329	987	TTNA	6	177	58-40N	38-16W	504	26 AUG 81	3	5	332P	15 JUL 82	15 JUL 82	2143.11	2149	N
M	330	988	TTNA	6	177	58-40N	38-16W	604	26 AUG 81	3	6	749P	15 JUL 82	16 JUL 82	2135.76		N
M	331	989	TTNA	6	177	58-40N	38-16W	604	26 AUG 81	3	6	677P	16 JUL 82	16 JUL 82	2143.49		N
M	332	990	TTNA	6	177	58-40N	38-16W	4p	26 AUG 81	0	0	475P	19 JUL 82	20 JUL 82	2078.36		N
M	333	991	TTNA	6	177	58-40N	38-16W	4p	26 AUG 81	0	0	476P	19 JUL 82	20 JUL 82	2075.27		N
M	334	992	TTNA	6	177	58-40N	38-16W	830	26 AUG 81	3	9	751P	20 JUL 82	20 JUL 82	2142.58	2149	N
M	335	993	TTNA	6	177	58-40N	38-16W	830	26 AUG 81	3	9	752P	20 JUL 82	20 JUL 82	2143.37	2149	N
M	336	994	TTNA	6	177	58-40N	38-16W	1550	26 AUG 81	3	13	753P	20 JUL 82	21 JUL 82	2146.81	2155	N
M	337	995	TTNA	6	177	58-40N	38-16W	1550	26 AUG 81	3	13	754P	21 JUL 82	21 JUL 82	2147.98	2155	N
M	338	996	TTNA	6	177	58-40N	38-16W	2587	26 AUG 81	3	17	755P	21 JUL 82	22 JUL 82	2154.02	2164	N
M	339	997	TTNA	5	167	64-05N	33-19W	13	13 AUG 81	4	40	455P	22 JUL 82	22 JUL 82	2074.71	2058	N
M	340	998	TTNA	6	177	58-40N	38-16W	2587	26 AUG 81	3	17	756P	22 JUL 82	22 JUL 82	2153.58	2164	N
M	341	999	TTNA	6	177	58-40N	38-16W	3159	26 AUG 81	3	21	829P	26 JUL 82	26 JUL 82	2147.02		N
M	342	1000	TTNA	6	177	58-40N	38-16W	3159	26 AUG 81	3	21	830P	26 JUL 82	26 JUL 82	2146.26		N
M	343	1001	TTNA	5	167	64-05N	33-19W	13	13 AUG 81	4	40	456P	27 JUL 82	27 JUL 82	2069.08	2058	N
M	344	1002	TTNA	5	167	64-05N	33-19W	70	13 AUG 81	3	80	453P	27 JUL 82	28 JUL 82	2135.62		N
M	345	1003	TTNA	5	167	64-05N	33-19W	70	13 AUG 81	3	80	454P	28 JUL 82	28 JUL 82	2133.82		N
M	346	1004	TTNA	5	167	64-05N	33-19W	104	13 AUG 81	4	41	457P	28 JUL 82	29 JUL 82	2139.79	2146	N
M	347	1005	TTNA	5	167	64-05N	33-19W	104	13 AUG 81	4	41	458P	30 JUL 82	30 JUL 82	2139.03	2146	N
M	348	1006	TTNA	5	167	64-05N	33-19W	203	13 AUG 81	4	42	459P	30 JUL 82	31 JUL 82	2141.59	2146	N
M	349	1007	TTNA	5	167	64-05N	33-19W	203	13 AUG 81	4	42	460P	3 AUG 82	3 AUG 82	2141.80	2146	N
M	350	1008	TTNA	5	167	64-05N	33-19W	296	13 AUG 81	6	40	781P	3 AUG 82	3 AUG 82	2144.83	2150	N
M	351	1009	TTNA	5	167	64-05N	33-19W	296	13 AUG 81	6	40	782P	3 AUG 82	4 AUG 82	2143.91	2150	N
M	352	1010	TTNA	5	167	64-05N	33-19W	396	13 AUG 81	6	41	783P	4 AUG 82	4 AUG 82	2146.10	2153	N
M	353	1011	TTNA	5	167	64-05N	33-19W	837	13 AUG 81	6	44	785P	4 AUG 82	5 AUG 82	2152.54	2157	N
M	354	1012	TTNA	5	167	64-05N	33-19W	837	13 AUG 81	6	44	786P	5 AUG 82	5 AUG 82	2151.12	2157	N
M	355	1013	TTNA	5	167	64-05N	33-19W	1233	13 AUG 81	6	46	787P	5 AUG 82	5 AUG 82	2150.83	2155	N
M	356	1014	TTNA	5	167	64-05N	33-19W	1986	13 AUG 81	2	40	409P	6 AUG 82	6 AUG 82	2151.57	2159	N
M	357	1015	TTNA	5	167	64-05N	33-19W	1233	13 AUG 81	6	46	788P	6 AUG 82	6 AUG 82	2151.14	2155	N
M	358	1016	TTNA	5	167	64-05N	33-19W	1986	13 AUG 81	2	40	410P	9 AUG 82	9 AUG 82	2152.06	2159	N
M	359	1017	TTNA	5	167	64-05N	33-19W	2317	13 AUG 81	2	48	411P	9 AUG 82	9 AUG 82	2148.46	2152	N
M	360	1018	TTNA	5	167	64-05N	33-19W	2317	13 AUG 81	2	48	412P	10 AUG 82	10 AUG 82	2149.43	2152	N

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TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SIO	P&CODF	RUN CODE
M	361	1019	TTNA	5	159	08-44N	10-34W	11	8 AUG 81	4 40	779P	10 AUG 82	11 AUG 82	2066.25	2061	N
M	362	1020	TTNA	5	159	08-44N	10-34W	11	8 AUG 81	4 40	780P	11 AUG 82	11 AUG 82	2068.51	2061	N
M	363	1021	TTNA	5	159	08-44N	10-34W	76	8 AUG 81	4 41	517P	11 AUG 82	11 AUG 82	2147.24	2141	N
M	364	1022	TTNA	5	159	08-44N	10-34W	201	8 AUG 81	4 42	519P	12 AUG 82	13 AUG 82	2149.17	2148	N
M	365	1023	TTNA	5	159	08-44N	10-34W	201	8 AUG 81	4 42	520P	12 AUG 82	13 AUG 82	2149.46	2148	N
M	366	1024	TTNA	5	159	08-44N	10-34W	301	8 AUG 81	4 43	521P	12 AUG 82	13 AUG 82	2150.28	2153	N
M	367	1025	TTNA	5	159	08-44N	10-34W	301	8 AUG 81	4 43	522P	16 AUG 82	17 AUG 82	2150.06	2153	N
M	368	1026	TTNA	5	159	08-44N	10-34W	399	8 AUG 81	4 44	524P	16 AUG 82	17 AUG 82	2156.76	2156	N
M	369	1027	TTNA	5	159	08-44N	10-34W	399	8 AUG 81	4 44	523P	17 AUG 82	17 AUG 82	2157.80	2156	N
M	370	1028	TTNA	5	159	08-44N	10-34W	500	8 AUG 81	4 45	541P	17 AUG 82	17 AUG 82	2157.74	2160	N
M	371	1029	TTNA	5	159	08-44N	10-34W	500	8 AUG 81	4 45	542P	17 AUG 82	18 AUG 82	2157.54	2160	N
M	372	1030	TTNA	5	159	08-44N	10-34W	600	8 AUG 81	4 46	543P	18 AUG 82	18 AUG 82	2161.59	2157	N
M	373	1031	TTNA	5	159	08-44N	10-34W	600	8 AUG 81	4 46	544P	18 AUG 82	19 AUG 82	2158.21	2157	N
M	374	1032	TTNA	5	159	08-44N	10-34W	797	8 AUG 81	4 48	545P	19 AUG 82	19 AUG 82	2158.02	2160	N
M	375	1033	TTNA	5	159	08-44N	10-34W	797	8 AUG 81	4 48	546P	19 AUG 82	20 AUG 82	2157.54	2160	N
M	376	1034	TTNA	5	159	08-44N	10-34W	949	8 AUG 81	1 40	775P	20 AUG 82	20 AUG 82	2158.97	2158	N
M	377	1035	TTNA	5	159	08-44N	10-34W	949	8 AUG 81	1 40	776P	20 AUG 82	20 AUG 82	2158.00	2158	N
M	378	1036	TTNA	5	159	08-44N	10-34W	2140	8 AUG 81	1 48	777P	30 AUG 82	30 AUG 82	2164.18	2164	N
M	379	1037	TTNA	5	159	08-44N	10-34W	2140	8 AUG 81	1 48	778P	30 AUG 82	30 AUG 82	2164.30	2164	N
M	380	1038	TTNA	5	148	74-56N	1-08W	9	30 JUL 81	5 40	561P	31 AUG 82	31 AUG 82	2045.44	2047	N
M	381	1039	TTNA	5	148	74-56N	1-08W	9	30 JUL 81	5 40	562P	31 AUG 82	1 SEP 82	2045.77	2047	N
M	382	1040	TTNA	5	148	74-56N	1-08W	13	30 JUL 81	2 2	661P	1 SEP 82	1 SEP 82	2045.02	2048	N
M	383	1041	TTNA	5	148	74-56N	1-08W	13	30 JUL 81	2 2	662P	1 SEP 82	2 SEP 82	2047.98	2048	N
M	384	1042	TTNA	5	148	74-56N	1-08W	77	30 JUL 81	5 41	563P	2 SEP 82	2 SEP 82	2149.63	2149	N
M	385	1043	TTNA	5	148	74-56N	1-08W	77	30 JUL 81	5 41	564P	2 SEP 82	2 SEP 82	2149.21	2149	N
M	386	1044	TTNA	5	148	74-56N	1-08W	247	30 JUL 81	5 42	569P	2 SEP 82	3 SEP 82	2153.97	2156	N
M	387	1045	TTNA	5	148	74-56N	1-08W	247	30 JUL 81	5 42	590P	3 SEP 82	3 SEP 82	2153.56	2156	N
M	388	1046	TTNA	5	148	74-56N	1-08W	444	30 JUL 81	5 43	591P	3 SEP 82	3 SEP 82	2155.96	2159	N
M	389	1047	TTNA	5	148	74-56N	1-08W	740	30 JUL 81	4 40	665P	7 SEP 82	7 SEP 82	2156.04	2158	N
M	390	1048	TTNA	5	148	74-56N	1-08W	444	30 JUL 81	5 43	592P	7 SEP 82	7 SEP 82	2156.09	2159	N
M	391	1049	TTNA	5	148	74-56N	1-08W	740	30 JUL 81	4 40	666P	8 SEP 82	8 SEP 82	2156.54	2158	N
M	392	1050	TTNA	5	148	74-56N	1-08W	937	30 JUL 81	4 42	667P	8 SEP 82	8 SEP 82	2156.86	2156	N
M	393	1051	TTNA	5	148	74-56N	1-08W	937	30 JUL 81	4 42	668P	10 SEP 82	10 SEP 82	2164.61	2156	N
M	394	1052	TTNA	5	148	74-56N	1-08W	1879	30 JUL 81	4 46	557P	10 SEP 82	10 SEP 82	2155.48		N
M	395	1053	TTNA	5	148	74-56N	1-08W	1879	30 JUL 81	4 46	558P	21 SEP 82	21 SEP 82	2156.33		N
M	396	1054	TTNA	5	148	74-56N	1-08W	2482	30 JUL 81	4 48	559P	21 SEP 82	21 SEP 82	2155.92		N

TYPE (SAMPLE):

M = ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE/RUN:

P = PYREX BOTTLE TYPE

RUN CODE:

C = QUARTZ SPIRAL MANOMETER CALIBRATION STANDARD

D = ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS

N = SAMPLE ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER ONLY

R = SAMPLE NOT ANALYZED, OR PEREMPTORILY-REJECTED SAMPLE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SIO	P&CODF	RUN CODE	
M	397	1055	TTNA	5	148	74-50N	1-08W	2482	30 JUL 81	4	48	660P	21 SEP 82	22 SEP 82	2155.82	N	
M	398	1056	TTNA	5	148	74-50N	1-08W	2978	30 JUL 81	2	32	663P	22 SEP 82	22 SEP 82	2155.06	2156	N
M	399	1057	TTNA	5	148	74-50N	1-08W	2978	30 JUL 81	2	32	664P	22 SEP 82	22 SEP 82	2155.18	2158	N
M	400	1058	TTNA	5	149	76-53N	1-02E	11	31 JUL 81	2	2	593P	22 SEP 82	23 SEP 82	1988.66		N
M	401	1059	TTNA	5	149	76-53N	1-02E	11	31 JUL 81	2	2	594P	23 SEP 82	24 SEP 82	1991.80		N
M	402	1060	TTNA	5	150	71-10N	7-29W	5	5 AUG 81	1	1	595P	23 SEP 82	24 SEP 82	1899.19	1885	N
M	403	1061	TTNA	5	149	64-50N	6-14W	9	25 JUL 81	4	1	769P	24 SEP 82	24 SEP 82	2080.94	2062	N
M	404	1062	TTNA	5	150	71-10N	7-29W	5	5 AUG 81	1	1	596P	24 SEP 82	24 SEP 82	1891.26	1885	N
M	405	1063	TTNA	5	148	64-50N	6-14W	9	25 JUL 81	4	1	770P	27 SEP 82	27 SEP 82	2066.69	2062	N
M	406	1064	TTNA	5	145	70-00N	2-29E	14	27 JUL 81	5	1	417P	27 SEP 82	27 SEP 82	2062.71		N
M	407	1065	TTNA	5	145	70-00N	2-29E	14	27 JUL 81	5	1	418P	27 SEP 82	28 SEP 82	2061.81		N
M	408	1066	TTNA	5	148	72-25N	2-04E	10	29 JUL 81	1	1	419P	28 SEP 82	28 SEP 82	2066.26	2060	N
M	409	1067	TTNA	5	146	72-25N	2-04E	10	29 JUL 81	1	1	420P	28 SEP 82	28 SEP 82	2075.91	2060	N
M	410	1068	TTNA	5	144	67-41N	3-20W	12	26 JUL 81	5	42	415P	28 SEP 82	29 SEP 82	2081.06		N
M	411	1069	TTNA	5	144	67-41N	3-20W	12	26 JUL 81	5	42	416P	29 SEP 82	29 SEP 82	2065.02		N
M	412	1070	TTNA	6	207	53-05N	37-51W	7	9 SEP 81	1	1	619P	29 SEP 82	29 SEP 82	2038.26	2042	N
M	413	1071	TTNA	6	207	53-05N	37-51W	7	9 SEP 81	1	1	620P	29 SEP 82	30 SEP 82	2039.36	2042	N
M	414	1072	TTNA	6	209	50-05N	37-52W	10	10 SEP 81	1	1	791P	30 SEP 82	30 SEP 82	2028.76	2036	N
M	415	1073	TTNA	6	209	50-05N	37-52W	10	10 SEP 81	1	1	792P	30 SEP 82	30 SEP 82	2028.33	2036	N
M	416	1074	TTNA	6	211	47-40N	37-50W	10	11 SEP 81	2	1	795P	30 SEP 82	1 OCT 82	2032.79	2045	N
M	417	1075	TTNA	4	124	53-15N	36-41W	14	6 JUL 81	3	1	721P	1 OCT 82	1 OCT 82	2110.20	2058	N
M	418	1076	TTNA	4	124	53-15N	36-41W	14	6 JUL 81	3	1	722P	1 OCT 82	1 OCT 82	2088.07	2058	N
M	419	1077	TTNA	6	211	47-40N	37-50W	10	11 SEP 81	2	1	796P	1 OCT 82	1 OCT 82	2031.24	2045	N
M	420	1078	TTNA	6	210	48-50N	37-50W	13	10 SEP 81	1	1	793PA	13 DEC 82	13 DEC 82	2029.02	2034	N
M	421	1079	TTNA	6	210	48-50N	37-50W	13	10 SEP 81	1	1	793PB	13 DEC 82	14 DEC 82	2028.97	2034	N
M	422	1080	TTNA	6	210	48-50N	37-50W	13	10 SEP 81	1	1	794PA	14 DEC 82	14 DEC 82	2028.63	2034	N
M	423	1082	TTNA	6	210	48-50N	37-50W	13	10 SEP 81	1	1	794PB	14 DEC 82	15 DEC 82	2028.25	2034	N
M	424	1164	TTNA	3	43	31-40N	50-45W	10	18 MAY 81	4	1	647PA-01	4 JAN 84	11 JAN 84	2049.18	2057	C
M	425	1165	TTNA	3	43	31-40N	50-45W	10	18 MAY 81	4	1	647PB	4 JAN 84	11 JAN 84	2048.27	2057	N
M	426	1166	TTNA	3	43	31-40N	50-45W	10	18 MAY 81	4	1	648PA	5 JAN 84	11 JAN 84	2046.20	2057	N
M	427	1167	TTNA	3	43	31-40N	50-45W	10	18 MAY 81	4	1	648PB	5 JAN 84	11 JAN 84	2047.55	2057	D
M	428	1168	TTNA	4	125	55-00N	34-41W	13	7 JUL 81	1	1	723P	6 JAN 84	11 JAN 84	2093.21	2050	N
M	429	1169	TTNA	4	125	55-00N	34-41W	13	7 JUL 81	1	1	724P -01	6 JAN 84	12 JAN 84	2161.52	2050	C
M	430	1170	TTNA	5	141	58-34N	11-33W	14	23 JUL 81	2	1	707P	11 JAN 84	12 JAN 84	2079.15	2079	D
M	431	1171	TTNA	5	141	58-34N	11-33W	14	23 JUL 81	2	1	708P	11 JAN 84	12 JAN 84	2080.23	2079	D
M	432	1172	TTNA	4	127	58-30N	30-00W	10	8 JUL 81	2	1	671P	9 JAN 84	17 JAN 84	2104.33	2078	D

TYPE (SAMPLE):

M = ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE/RUN:

P = PYREX BOTTLE TYPE

RUN CODE:

C = QUARTZ SPIRAL MANOMETER CALIBRATION STANDARD

D = ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS

N = SAMPLE ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER ONLY

R = SAMPLE NOT ANALYZED, OR PEREMPTORILY-REJECTED SAMPLE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 6 (CONT.). DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	DIC REC	DIC REC	EXP	LEG STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN CAST	NISKIN BOTTLE/RUN	EXTRACTION DATE	ANALYSIS DATE	DIC (UM/KG SW) SID	P&CODF	RUN CODE
M	433	1173	TTNA	4 127	58-30N	30-00W	10	8 JUL 81	2 1	672P	10 JAN 84	17 JAN 84	2131.59	2078	D
M	434	1185	TTNA	3 43	31-48N	50-45W	10	18 MAY 81	4 1	647PA-02	4 JAN 84	31 JAN 84	2048.82	2057	C
M	435	1186	TTNA	4 125	55-00N	34-41W	13	7 JUL 81	1 1	724P-02	6 JAN 84	31 JAN 84	2160.79	2050	C
M	436	1208	TTNA	3 43	31-48N	50-45W	10	18 MAY 81	4 1	647PA-03	4 JAN 84	23 FEB 84	2048.78	2057	C

TYPE (SAMPLE):

M = ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4

DEPTH:

P = SURFACE PUMP SAMPLE

BOTTLE/RUN:

P = PYREX BOTTLE TYPE

RUN CODE:

C = QUARTZ SPIRAL MANOMETER CALIBRATION STANDARD

D = ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS

N = SAMPLE ANALYZED ON CONSTANT VOLUME MERCURY MANOMETER ONLY

R = SAMPLE NOT ANALYZED, OR PEREMPTORILY-REJECTED SAMPLE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 7. DATES, LOCATIONS AND DEPTHS OF SAMPLES ANALYZED FOR DISSOLVED INORGANIC CARBON

TYPE	REC	DIC REC	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISKIN		EXTRACTION DATE	ANALYSIS DATE		DIC (UM/KG SW)		RUN CODE
										CAST	BOTTLE/RUN		SIO	P&CODF			
S	1	151	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	647PA-01	4 JAN 84	17 JAN 84	2049.62	2057	C
S	2	152	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	648PB-01	5 JAN 84	17 JAN 84	2050.96	2057	D
S	3	153	TTNA	5	141	58-34N	11-33W	14	23 JUL 81	2	1	707P	11 JAN 84	17 JAN 84	2081.62	2079	D
S	4	154	TTNA	5	141	58-34N	11-33W	14	23 JUL 81	2	1	708P	11 JAN 84	17 JAN 84	2059.68	2079	D
S	5	158	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	647PA-02	4 JAN 84	18 JAN 84	2049.52	2057	C
S	6	159	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	648PB-02	5 JAN 84	18 JAN 84	2052.48	2057	D
S	7	160	TTNA	4	125	55-00N	34-41W	13	7 JUL 81	1	1	724P -01	6 JAN 84	18 JAN 84	2161.44	2050	C
S	8	161	TTNA	4	126	57-00N	32-20W	14	8 JUL 81	2	1	670P	9 JAN 84	18 JAN 84	2090.83	2075	N
S	9	162	TTNA	4	127	58-30N	30-00W	10	8 JUL 81	2	1	671P	9 JAN 84	18 JAN 84	2103.75	2078	D
S	10	163	TTNA	4	127	58-30N	30-00W	10	8 JUL 81	2	1	672P	10 JAN 84	18 JAN 84	2131.85	2078	D
S	11	165	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	648PB-03	5 JAN 84	20 JAN 84	2048.43	2057	D
S	12	166	TTNA	4	125	55-00N	34-41W	13	7 JUL 81	1	1	724P -02	6 JAN 84	20 JAN 84	2161.33	2050	C
S	13	182	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	647PA-03	4 JAN 84	27 JAN 84	2049.76	2057	C
S	14	183	TTNA	4	125	55-00N	34-41W	13	7 JUL 81	1	1	724P -03	6 JAN 84	27 JAN 84	2161.48	2050	C
S	15	187	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	647PA-04	4 JAN 84	3 FEB 84	2048.96	2057	C
S	16	197	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	647PA-05	4 JAN 84	10 FEB 84	2048.76	2057	C
S	17	221	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	647PA-06	4 JAN 84	24 FEB 84	2048.47	2057	C
S	18	234	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4	1	647PA-07	4 JAN 84	1 MAR 84	2050.77	2057	C

 TYPE (SAMPLE):

S = ANALYZED ON QUARTZ SPIRAL MANOMETER

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 5

BOTTLE TYPE:

P = PYREX

RUN CODE:

C = QUARTZ SPIRAL CALIBRATION STANDARD

D = SAMPLE ANALYZED ON BOTH CONSTANT VOLUME AND QUARTZ SPIRAL MANOMETERS (DOES NOT QUALIFY AS A STANDARD)

N = SAMPLE ANALYZED ON QUARTZ SPIRAL MANOMETER ONLY

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 8. SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)			P&CODF "NISKIN" AVG (UM/KG)	P&COD -S.I.O					
											SUBRUN	ALIQUOT	BOTTLE DELTA (PQ2-PQ1)							
0-3	31-48N 50-46W	5 41 2612	23OCT80	3FEB82	3FEB82	824	M	277PA			2168.34	2168.34	2168.37	-0.15	2168.30	2172	+3.7			
				3FEB82	3FEB82	825	M	277PB			2168.40	2168.40								
				13FEB81	13FEB81	430	M	278PA			2168.16	2168.16	2168.22							
				13FEB81	14FEB81	431	M	278PB			2168.28	2168.28								
		5 42 2750		12FEB81	12FEB81	428	M	279PA			2170.11	2170.11	2169.86	-0.95	2169.38	2169	-0.4			
						429	M	279PB			2169.60	2169.60								
						22OCT81	22OCT81	687	M	280PA			2168.62	2168.62	2168.91					
						22OCT81	23OCT81	688	M	280PB			2169.19	2169.19						
		5 46 3209		11FEB81	11FEB81	426	M	281PA			2172.87	2172.87	2172.78	-1.41	2172.07	2177	+4.9			
						427	M	281PB			2172.68	2172.68								
						4FEB82	4FEB82	826	M	282PA			2171.01	2171.01	2171.37					
						4FEB82	5FEB82	827	M	282PB			2171.72	2171.72						
		5 47 3667		10FEB81	10FEB81	424	M	283PA			2171.71	2171.71	2171.80	+0.07	2171.84	2177	+5.2			
						425	M	283PB			2171.89	2171.89								
						23OCT81	23OCT81	689	M	284PA			2171.80	2171.80	2171.87					
						23OCT81	23OCT81	690	M	284PB			2171.94	2171.94						
		5 48 3675		6FEB81	6FEB81	422	M	285PA			2171.52	2171.52	2171.17	+1.19	2171.76	2179	+7.2			
						423	M	285PB			2170.82	2170.82								
						5FEB82	5FEB82	826	M	286PA			2172.91	2172.91	2172.36					
						5FEB82	5FEB82	829	M	286PB			2171.80	2171.80						
		5 45 4125		29JAN81	29JAN81	420	M	287PA			2176.94	2176.94	2176.88	-1.07	2176.35	2178	+1.6			
						421	M	287PB			2176.82	2176.82								
						27OCT81	28OCT81	691	M	288PA			2175.65	2175.65	2175.81					
						27OCT81	28OCT81	692	M	288PB			2175.98	2175.98						
5 44 4677		27JAN81	28JAN81	416	M	289PA			2189.39	2189.39	2189.26	+1.93	2190.23	2200	+9.8					
				417	M	289PB			2189.14	2189.14										
				28JAN81	29JAN81	418	M	290PA			2200.27	2200.27	2191.19							
				28JAN81	29JAN81	419	M	290PB			2191.19	2191.19								

DEPTH:

p = SURFACE PUMP SAMPLE

MANO TYPE:

M = CONSTANT VOLUME MERCURY MANOMETER DATUM

S = QUARTZ SPIRAL MANOMETER DATUM

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)
OR TABLE 5 (S MANO TYPE)

SAMPLE BOTTLE:

P = PYREX

FLAGS:

* = REJECTED PEREMPTORILY FOR LONG STORAGE, 5 'NISKINS'

& = REJECTED FOR CAUSE, 14 BOTTLES AND 2 ALIQUOTS

= DELETED FOR STATISTICS, 6 'NISKINS' AND 3 BOTTLES

[3 BOTTLES (416P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOL/KG SW)			DELTA "NISKIN" AVG (PQ2-PQ1)	P&CODF DIC (UM/KG)	P&COD -S.I.O			
											SUBRUN	ALIQUOT	BOTTLE (PorQ)						
0-4	35-56N 47-01W	2 2	1	26OCT80	1APR81	2APR81	472	M	293P		2021.04	2021.04	2021.04	+0.08	2021.08	2029	+7.9		
					1APR81	2APR81	473	M	294P		2021.12	2021.12	2021.12						
		2 24	3854	2APR81	2APR81	474	M	295P		2169.63	2169.63	2169.63	+0.23	2169.74	2169	-0.7			
				2APR81	3APR81	475	M	296P		2169.86	2169.86	2169.86							
0-13	38-59N 43-58W	3 2	3	31OCT80	23FEB81	23FEB81	438	M	297P		2029.91	2029.91	2029.91	+0.78	2030.30	2033	+2.7		
					23FEB81	24FEB81	439	M	298P	-A	2030.68	2030.69	2030.69						
					23FEB81	24FEB81	440	M	298P	-B	2030.69								
		3 12	746	19FEB81	20FEB81	436	M	299P		2167.04	2167.04	2167.04	+0.15	2167.11	2164	-3.1			
				19FEB81	20FEB81	437	M	300P		2167.19	2167.19	2167.19							
		3 21	2239	18FEB81	18FEB81	434	M	301P		2154.46	2154.46	2154.46	+0.42	2154.67	2162	+7.3			
				18FEB81	19FEB81	435	M	302P		2154.88	2154.88	2154.88							
		3 33	4843	17FEB81	17FEB81	432	M	303P		2168.81	2168.81	2168.81	+0.48	2169.05	2168	-1.0			
				17FEB81	17FEB81	433	M	304P		2169.29	2169.29	2169.29							
		0-23	40-33N 54-14W	3 2	2	08NOV80	30MAR81	30MAR81	468	M	305P	⊠	1982.47	1982.47	1982.47		2002.97	2006	+3.0
							30MAR81	31MAR81	469	M	306P		2002.97	2002.97	2002.97				
				3 16	3719	31MAR81	31MAR81	470	M	307P		⊠	2140.50	2140.50	2140.50		2163.05	2166	+3.0
31MAR81	1APR81					471	M	308P		2163.05	2163.05	2163.05							
1-1	39-48N 70-05W	2 27	10	2APR81	28MAY81	27MAY81	541	M	309P	‡	2092.01	2092.01	2092.01	+5.68	2094.85‡	2105	+10.2		
					28MAY81	29MAY81	542	M	310P		‡	2097.69	2097.69	2097.69					
1-3	38-17N 69-10W	1 1	12	3APR81	1JUN81	1JUN81	543	M	311P		2101.22	2101.22	2101.22	-0.05	2101.19	2112	+10.8		
					1JUN81	2JUN81	544	M	312P		2101.17	2101.17	2101.17						

DEPTH:

p = SURFACE PUMP SAMPLE

MANO TYPE:

M = CONSTANT VOLUME MERCURY MANOMETER DATUM

S = QUARTZ SPIRAL MANOMETER DATUM

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)

OR TABLE 5 (S MANO TYPE)

SAMPLE BOTTLE:

P = PYREX

FLAGS:

* = REJECTED PEREMPTORILY FOR LONG STORAGE, 5 'NISKINS'

⊠ = REJECTED FOR CAUSE, 14 BOTTLES AND 2 ALIQUOTS

‡ = DELETED FOR STATISTICS, 6 'NISKINS' AND 3 BOTTLES [3 BOTTLES (416P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC MANO REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)			DELTA "NISKIN" (PQ2-PQ1)	P&CODF "NISKIN" AVG	DIC (UM/KG)	P&COD -S.I.O
											SUBRUN	ALIQUOT	BOTTLE (P&Q)				
1-5	36-00N 68-00W	2 1	10	5APR81	2JUN81	3JUN81	545	M	313P		2026.61	2026.61	2026.61	-0.93	2026.15	2037	+10.9
					2JUN81	3JUN81	548	M	314P		2025.68	2025.68	2025.68				
1-6	34-41N 67-21W	2 1	11	5APR81	3JUN81	3JUN81	547	M	315P		2021.68	2021.68	2021.68	-0.93	2021.22	2030	+8.8
					3JUN81	3JUN81	548	M	316P		2020.75	2020.75	2020.75				
1-7	31-40N 68-30W	3 1	12	7APR81	4JUN81	5JUN81	549	M	318P		2056.28	2056.28	2056.28		2056.28		
1-8	31-20N 71-30W	3 1	12	8APR81	4JUN81	5JUN81	550	M	319P		2050.83	2050.83	2050.83	+0.67	2051.17	2056	+4.8
					8JUN81	8JUN81	551	M	320P		2051.50	2051.50	2051.50				
1-11	30-50N 74-03W	2 1	7	10APR81	8JUN81	9JUN81	552	M	321P		2050.33	2050.33	2050.33	-0.27	2050.20	2058	+7.8
					9JUN81	9JUN81	553	M	322P		2050.06	2050.06	2050.06				
1-13	29-56N 77-21W	1 69	9	11APR81	9JUN81	9JUN81	554	M	324P -A		2012.27	2012.21	2012.21		2012.20	2022	+9.8
					9JUN81	10JUN81	555	M	324P -B		2012.14						
2-15	25-35N 76-23W	2 1	11	17APR81	10JUN81	10JUN81	556	M	341P		2030.44	2030.44	2030.44	-0.34	2030.27	2042	+11.7
					10JUN81	10JUN81	557	M	342P		2030.10	2030.10	2030.10				
2-16	22-51N 73-10W	2 1	13	19APR81	10JUN81	11JUN81	558	M	343P		2011.94	2011.94	2011.94	+0.69	2012.28	2025	+12.7
					10JUN81	11JUN81	559	M	344P		2012.63	2012.63	2012.63				
2-20	25-47N 70-26W	2 1	13	21APR81	11JUN81	11JUN81	560	M	345P		2036.03	2036.03	2036.03	-0.80	2035.63	2049	+13.4
					11JUN81	11JUN81	561	M	346P		2035.23	2035.23	2035.23				

DEPTH:

p = SURFACE PUMP SAMPLE

MANO TYPE:

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S = QUARTZ SPIRAL MANOMETER DATUM

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)
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[3 BOTTLES (416P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)				P&CODF DIC (UM/KG)	P&COD -S.I.O	
											SUBRUN	ALIQUOT	BOTTLE (P or Q)	DELTA (PQ2-PQ1)			"NISKIN" AVG
2-22	25-47N 66-00W	1 1	13	23APR81	12JUN81	12JUN81	562	M	347P		2024.17	2024.17	2024.17	-1.35	2023.49	2036	+12.5
					12JUN81	12JUN81	563	M	348P		2022.82	2022.82	2022.82				
2-24	23-18N 64-10W	2 1	12	24APR81	15JUN81	15JUN81	564	M	445P	*	2028.39	2028.39	2028.39		2019.47	2022	+2.5
					15JUN81	16JUN81	565	M	446P		2019.47	2019.47	2019.47				
2-26	20-47N 62-16W	2 1	11	26APR81	16JUN81	16JUN81	566	M	447P		2000.05	2000.05	2000.05		2000.05	2010	+9.9
2-28	18-07N 60-39W	3 1	12	27APR81	16JUN81	16JUN81	567	M	450P		1971.83	1971.83	1971.83		1971.83	1985	+13.2
2-29	17-08N 59-31W	1 1	11	28APR81	17JUN81	17JUN81	568	M	451P		1974.24	1974.24	1974.24	+0.46	1974.47	1985	+10.5
					17JUN81	17JUN81	569	M	452P		1974.70	1974.70	1974.70				

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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)			DELTA "NISKIN" (PQ2-PQ1)	P&CODF "NISKIN" AVG DIC (UM/KG)	P&COD -S.I.O	
											SUBRUN	ALIQUOT	BOTTLE (PorQ)				
2-32	15-03N 53-57W	0 0	4p	30APR81	19JUN81	19JUN81	572	M	495P		1918.89	1918.89	1918.89	+0.12	1918.95		
					19JUN81	19JUN81	573	M	498P		1919.01	1919.01	1919.01				
		2 1	11		18JUN81	18JUN81	570	M	493P		1917.50	1917.50	1917.50		1930	+12.4	
					18JUN81	19JUN81	571	M	494P	Δ	1920.40	1920.40	1920.40				
		4 41	99		23JUN81	23JUN81	576	M	499P		2065.32	2065.32	2065.32	+0.93	2065.79	2075	+9.2
					23JUN81	24JUN81	577	M	500P		2066.25	2066.25	2066.25				
		4 43	152		24JUN81	24JUN81	578	M	565P		2119.52	2119.52	2119.52		2132	+12.5	
					24JUN81	25JUN81	579	M	568P	Δ	2112.07	2112.07	2112.07				
		4 44	253		20JUL81	20JUL81	601	M	567P		2155.61	2155.61	2155.61	-0.09	2155.57		
					20JUL81	21JUL81	602	M	568P	-A	2155.44	2155.52	2155.52				
					20JUL81	21JUL81	603	M	568P	-B	2155.60						
		4 45	352		21JUL81	22JUL81	604	M	569P		2187.20	2187.20	2187.20	+0.57	2187.48	2194	+8.5
					21JUL81	22JUL81	605	M	570P		2187.77	2187.77	2187.77				
		4 47	749		22JUL81	22JUL81	606	M	571P		2219.27	2219.27	2219.27	+1.24	2219.89	2223	+3.1
					22JUL81	23JUL81	607	M	572P		2220.51	2220.51	2220.51				
		5 44	1097		22JUL81	23JUL81	608	M	485P		2207.44	2207.44	2207.44	-0.81	2207.03	2202	-5.0
					23JUL81	23JUL81	609	M	486P		2206.63	2206.63	2206.63				
		5 45	1982		23JUL81	23JUL81	610	M	487P		2160.46	2160.46	2160.46	+0.07	2160.49	2163	+2.5
					23JUL81	24JUL81	611	M	488P		2160.53	2160.53	2160.53				
		5 48	2970		27JUL81	27JUL81	612	M	489P		2175.37	2175.37	2175.37	+0.06	2175.40	2178	+2.6
					27JUL81	28JUL81	613	M	490P		2175.43	2175.43	2175.43				
		3 44	3993		22JUN81	22JUN81	574	M	497P		2172.64	2172.64	2172.64	-0.01	2172.63	2177	+4.4
					22JUN81	23JUN81	575	M	498P		2172.63	2172.63	2172.63				

DEPTH:

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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOL/KG SW)			DELTA "NISKIN" AVG (PQ2-PQ1)	P&CODF DIC (UM/KG)	P&COD -S.I.O	
											SUBRUN	ALIQUOT	BOTTLE (PorQ)				
2-34	18-02N 53-58W	0 0	4p	2MAY81	29JUL81	29JUL81	616	M	477P		1946.04	1946.04	1946.04	+0.08	1946.08		
					29JUL81	29JUL81	617	M	478P		1946.12	1946.12	1946.12				
		2 1	8		28JUL81	28JUL81	614	M	491P		1946.93	1946.93	1946.93	-0.12	1946.87	1958	+11.1
					28JUL81	29JUL81	615	M	492P		1946.81	1946.81	1946.81				
		2 2	71		29JUL81	30JUL81	618	M	479P		2033.07	2033.07	2033.07	+0.40	2033.27	2044	+10.7
					30JUL81	30JUL81	619	M	480P		2033.47	2033.47	2033.47				
		2 4	146		30JUL81	30JUL81	620	M	481P		2094.58	2094.58	2094.58	-1.36	2093.90		
					31JUL81	31JUL81	621	M	482P		2093.22	2093.22	2093.22				
		2 6	247		31JUL81	31JUL81	622	M	483P		2117.87	2117.87	2117.87	+0.33	2118.04	2126	+8.0
					8SEP81	8SEP81	623	M	484P		2118.20	2118.20	2118.20				
		2 8	346		8SEP81	9SEP81	624	M	581P		2145.16	2145.16	2145.16	-1.22	2144.55	2151	+6.5
					9SEP81	10SEP81	625	M	582P		2143.94	2143.94	2143.94				
		2 11	667		9SEP81	10SEP81	626	M	583P		2205.95	2205.95	2205.95	+1.37	2206.64	2210	+3.4
					10SEP81	10SEP81	627	M	584P		2207.32	2207.32	2207.32				
		2 13	962		10SEP81	11SEP81	628	M	585P		2212.14	2212.14	2212.14	+0.22	2212.25	2214	+1.8
					11SEP81	11SEP81	629	M	586P		2212.36	2212.36	2212.36				
		2 18	1975		11SEP81	11SEP81	630	M	587P		2165.57	2165.57	2165.57	-0.27	2165.44	2170	+4.6
					15SEP81	16SEP81	631	M	588P		2165.30	2165.30	2165.30				
		2 20	2951		15SEP81	16SEP81	632	M	629P		2177.47	2177.47	2177.47	+1.34	2178.14	2183	+4.9
					16SEP81	16SEP81	633	M	630P		2178.81	2178.81	2178.81				
		2 22	3928		16SEP81	17SEP81	634	M	631P	&	2188.46	2188.46	2188.46		2192.45	2194	+1.6
					17SEP81	17SEP81	635	M	632P		2192.45	2192.45	2192.45				

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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)			DELTA "NISKIN" (PQ2-PQ1)	P&CODF "NISKIN" AVG	DIC (UM/KG)	P&COD -S.I.O
											SUBRUN	ALIQUOT	BOTTLE (PorQ)				
2-38	21-01N 53-59W	0 0	4p	3MAY81	18SEP81	18SEP81	638	M	363P	Δ	2006.03	2006.03	2006.03	2003.67			
					18SEP81	18SEP81	639	M	364P		2003.67	2003.67	2003.67				
	4 40	10	24SEP81	24SEP81	646	M	549P		2003.90	2003.90	2003.90	-0.04	2003.88	2014	+10.1		
			24SEP81	24SEP81	647	M	550P		2003.86	2003.86	2003.86						
	4 45	70	28SEP81	28SEP81	650	M	551P		2022.16	2022.16	2022.16		2022.16	2033	+10.8		
			28SEP81	28SEP81	651	M	552P		Δ	2031.88	2031.88					2031.88	
	4 44	159	29SEP81	29SEP81	652	M	553P		2086.37	2086.37	2086.37	-1.31	2085.72	2101	+15.3		
			29SEP81	29SEP81	653	M	554P		2085.06	2085.06	2085.06						
	4 41	239	29SEP81	30SEP81	654	M	555P		Δ	2093.18	2093.18	2093.18	2095.08	2105	+9.9		
			30SEP81	30SEP81	655	M	556P		2095.08	2095.08	2095.08						
	2 7	365	17SEP81	18SEP81	636	M	633P		2108.60	2108.60	2108.60	+1.73	2109.47	2115	+5.5		
			17SEP81	18SEP81	637	M	634P		2110.33	2110.33	2110.33						
	4 47	676	30SEP81	30SEP81	656	M	597P		2188.84	2188.84	2188.84	+2.77	2190.23	2194	+3.8		
			10OCT81	10OCT81	668	M	598P		2191.61	2191.61	2191.61						
	2 12	994	21SEP81	21SEP81	640	M	635P		2199.82	2199.82	2199.82	-0.09	2199.78	2202	+2.2		
			21SEP81	21SEP81	641	M	636P		2199.73	2199.73	2199.73						
2 16	1973	22SEP81	22SEP81	642	M	357P		2168.33	2168.33	2168.33	+0.47	2168.57	2170	+1.4			
		22SEP81	23SEP81	643	M	358P		2168.80	2168.80	2168.80							
2 18	2925	23SEP81	23SEP81	644	M	359P		2175.59	2175.59	2175.59	-0.93	2175.13	2179	+3.9			
		23SEP81	23SEP81	645	M	360P		2174.66	2174.66	2174.66							
2 20	3899	25SEP81	25SEP81	648	M	361P		2174.97	2174.97	2174.97		2174.97	2180	+5.0			
		25SEP81			M	362P		-- NOT ANALYZED --									

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											SUBRUN	ALIQUOT	BOTTLE (PorQ)					
2-38	23-51N 54-03W	0 0	4p	5MAY81	26JUN81	26JUN81	580	M	599P		2044.91	2044.91	2044.91	-1.36	2044.23			
					26JUN81	26JUN81	581	M	600P		2043.55	2043.55	2043.55					
			2	1	11	29JUN81	29JUN81	582	M	601P		2043.05	2043.05	2043.05	+0.16	2043.13	2058	+14.9
						29JUN81	30JUN81	583	M	602P		2043.21	2043.21	2043.21				
			2	2	48	29JUN81	30JUN81	584	M	603P		2043.04	2043.04	2043.04	-1.67	2042.21	2058	+13.8
						30JUN81	30JUN81	585	M	604P		2041.37	2041.37	2041.37				
			2	3	106	30JUN81	1JUL81	586	M	381P		2058.21	2058.21	2058.21	+0.03	2058.22	2075	+16.8
						1JUL81	1JUL81	587	M	382P		2058.24	2058.24	2058.24				
			2	5	273	1JUL81	2JUL81	588	M	384P		2087.45	2087.45	2087.45		2087.45	2101	+13.6
			2	7	355	6JUL81	6JUL81	589	M	385P	A	2093.33	2093.33	2093.33	2095.33	2105	+9.7	
						6JUL81	7JUL81	590	M	386P			2095.33	2095.33				2095.33
			2	10	693	7JUL81	7JUL81	591	M	387P		2169.41	2169.41	2169.41	+0.53	2169.67	2176	+6.3
						7JUL81	7JUL81	592	M	388P		2169.94	2169.94	2169.94				
			2	12	992	8JUL81	8JUL81	593	M	389P		2197.27	2197.27	2197.27	+0.77	2197.66	2198	+0.3
						8JUL81	9JUL81	594	M	390P		2198.04	2198.04	2198.04				
			2	18	1958	9JUL81	9JUL81	595	M	391P		2170.51	2170.51	2170.51	+0.56	2170.79	2176	+5.2
					9JUL81	9JUL81	596	M	392P		2171.07	2171.07	2171.07					
		2	20	2841	10JUL81	10JUL81	597	M	393P		2180.19	2180.19	2180.19	-0.42	2179.98	2185	+5.0	
					10JUL81	10JUL81	598	M	394P		2179.77	2179.77	2179.77					
		2	22	3747	13JUL81	13JUL81	599	M	395P		2184.90	2184.90	2184.90	-0.39	2184.70	2190	+5.3	
					13JUL81	13JUL81	600	M	396P		2184.51	2184.51	2184.51					

DEPTH:

p = SURFACE PUMP SAMPLE

MANO TYPE:

M = CONSTANT VOLUME MERCURY MANOMETER DATUM

S = QUARTZ SPIRAL MANOMETER DATUM

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)

OR TABLE 5 (S MANO TYPE)

SAMPLE BOTTLE:

P = PYREX

FLAGS:

* = REJECTED PEREMPTORILY FOR LONG STORAGE, 5 'NISKINS'

A = REJECTED FOR CAUSE, 14 BOTTLES AND 2 ALIQUOTS

= DELETED FOR STATISTICS, 6 'NISKINS' AND 3 BOTTLES

[3 BOTTLES (416P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)			DELTA (PQ2-PQ1)	"NISKIN" AVG	P&CODF DIC (UM/KG)	P&COD -S.I.O
											SUBRUN	ALIQUOT	BOTTLE				
2-39	25-21N 55-54W	2 1	11	6MAY81	10CT81	50CT81	657	M	437P		2032.39	2032.39	2032.39	-0.19	2032.30	2037	+4.7
					50CT81	50CT81	658	M	438P		2032.20	2032.20	2032.20				
					50CT81	50CT81	659	M	439P	Δ	2032.22	2032.22	2032.22				
2-40	27-30N 58-35W	2 1	7	7MAY81	60CT81	70CT81	660	M	440PA		2037.83	2037.83	2037.85	+0.80	2037.95	2049	+11.0
					60CT81	70CT81	661	M	440PB		2037.47	2037.47					
					70CT81	70CT81	662	M	441PA		2038.88	2038.88	2038.25				
					70CT81	70CT81	663	M	441PB		2037.62	2037.62					
2-41	29-43N 61-18W	1 1	13	9MAY81	80CT81	80CT81	664	M	442PA		2048.90	2048.90	2048.58	-1.12	2048.02	2058	+10.0
					80CT81	90CT81	665	M	442PB		2048.27	2048.27					
					90CT81	90CT81	666	M	443PA		2047.50	2047.50	2047.47				
					90CT81	90CT81	667	M	443PB		2047.43	2047.43					
3-43	31-40N 50-45W	4 1	10	18MAY81	4JAN84	11JAN84	1164	M	647PA	*	2049.18	2049.18	2048.73	-1.85	2047.80*	2057	+9.2
					4JAN84	11JAN84	1165	M	647PB	*	2048.27	2048.27					
					5JAN84	11JAN84	1166	M	648PA	*	2046.20	2046.20	2046.88				
					5JAN84	11JAN84	1167	M	648PB	*	2047.55	2047.55					
4-124	53-15N 36-41W	3 1	14	6JUL81	10CT82	10CT82	1075	M	721P	#	2110.20	2110.20	2110.20	-22.13	2099.14#	2058	-41.1
					10CT82	10CT82	1076	M	722P	#	2088.07	2088.07	2088.07				
4-125	55-00N 34-41W	1 1	13	7JUL81	6JAN84	11JAN84	1168	M	723P	*	2093.21	2093.21	2093.21	+68.31	2127.36*	2050	-77.4
					6JAN84	12JAN84	1169	M	724P	*	2161.52	2161.52	2161.52				

DEPTH:

P = SURFACE PUMP SAMPLE

MANO TYPE:

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S = QUARTZ SPIRAL MANOMETER DATUM

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)
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[3 BOTTLES (416P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOL/KG SW)			DELTA (PQ2-PQ1)	"NISKIN" AVG (UM/KG)	P&CODF DIC (UM/KG)	P&COD -S.I.O
											SUBRUN	ALIQUOT	BOTTLE (P or Q)				
4-126	57-00N 32-20W	2 1	14	8JUL81	9JAN84	18JAN84	161	S	670P	*	2090.83	2090.83	2090.83		2090.83*	2075	-15.8
4-127	58-30N 30-00W	2 1	10	8JUL81	9JAN84	17JAN84	1172	M	671P	*	2104.33	2104.33	2104.33	+27.26	2117.96*	2078	-40.0
					10JAN84	17JAN84	1173	M	672P	*	2131.59	2131.59	2131.59				
5-141	58-34N 11-33W	2 1	14	23JUL81	11JAN84	12JAN84	1170	M	707P	*	2079.15	2079.15	2079.15	+1.08	2079.69*	2079	-0.7
					11JAN84	12JAN84	1171	M	708P	*	2080.23	2080.23	2080.23				
5-143	64-50N 6-14W	4 1	9	25JUL81	24SEP82	24SEP82	1061	M	769P	#	2080.94	2080.94	2080.94		2066.69	2062	-4.7
					27SEP82	27SEP82	1063	M	770P		2066.69	2066.69	2066.69				
5-144	67-41N 3-20W	5 42	12	26JUL81	28SEP82	29SEP82	1068	M	415P	#	2081.06	2081.06	2081.06		2065.02		
					29SEP82	29SEP82	1069	M	416P		2065.02	2065.02	2065.02				
5-145	70-00N 2-29E	5 1	14	27JUL81	27SEP82	27SEP82	1064	M	417P		2062.71	2062.71	2062.71	-0.90	2062.26		
					27SEP82	28SEP82	1065	M	418P		2061.81	2061.81	2061.81				
5-146	72-25N 2-04E	1 1	10	29JUL81	28SEP82	28SEP82	1066	M	419P		2066.26	2066.26	2066.26		2066.26	2060	-6.3
					28SEP82	28SEP82	1067	M	420P	#	2075.91	2075.91	2075.91				

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RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)
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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOL/KG SW)			DELTA "NISKIN" AVG (PQ2-PQ1)	P&CODF DIC (UM/KG)	P&COD -S.I.O		
											SUBRUN	ALIQUOT	BOTTLE (PorQ)					
5-148	74-56N 1-08W	5 40	9	30JUL81	31AUG82	31AUG82	1038	M	561P		2045.44	2045.44	2045.44	+0.33	2045.60	2047	+1.4	
					31AUG82	1SEP82	1039	M	562P		2045.77	2045.77	2045.77					
		2 2	13			1SEP82	1SEP82	1040	M	661P		2045.02	2045.02	2045.02	+2.96	2046.50	2048	+1.5
						1SEP82	2SEP82	1041	M	662P		2047.98	2047.98	2047.98				
		5 41	77			2SEP82	2SEP82	1042	M	563P		2149.63	2149.63	2149.63	-0.42	2149.42	2149	-0.4
						2SEP82	2SEP82	1043	M	564P		2149.21	2149.21	2149.21				
		5 42	247			2SEP82	3SEP82	1044	M	589P		2153.97	2153.97	2153.97	-0.41	2153.77	2156	+2.2
						3SEP82	3SEP82	1045	M	590P		2153.56	2153.56	2153.56				
		5 43	444			3SEP82	3SEP82	1046	M	591P		2155.96	2155.96	2155.96	+0.13	2156.03	2159	+3.0
						7SEP82	7SEP82	1048	M	592P		2156.09	2156.09	2156.09				
		4 40	740			7SEP82	7SEP82	1047	M	665P		2156.04	2156.04	2156.04	+0.50	2156.29	2158	+1.7
						8SEP82	8SEP82	1049	M	666P		2156.54	2156.54	2156.54				
		4 42	937			8SEP82	8SEP82	1050	M	667P	#	2156.86	2156.86	2156.86	+7.75	2160.74#	2156	-4.7
						10SEP82	10SEP82	1051	M	668P	#	2164.61	2164.61	2164.61				
	4 46	1879			10SEP82	10SEP82	1052	M	557P		2155.48	2155.48	2155.48	+0.85	2155.91			
					21SEP82	21SEP82	1053	M	558P		2156.33	2156.33	2156.33					
	4 48	2482			21SEP82	21SEP82	1054	M	559P		2155.92	2155.92	2155.92	-0.10	2155.87			
					21SEP82	22SEP82	1055	M	560P		2155.82	2155.82	2155.82					
	2 32	2978			22SEP82	22SEP82	1056	M	663P		2155.06	2155.06	2155.06	+0.12	2155.12	2156	+0.9	
					22SEP82	22SEP82	1057	M	664P		2155.18	2155.18	2155.18					
5-149	76-53N 1-02E	2 2	11	31JUL81	22SEP82	23SEP82	1058	M	593P		1988.66	1988.66	1988.66	+3.14	1990.23			
					23SEP82	24SEP82	1059	M	594P		1991.80	1991.80	1991.80					

DEPTH:

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DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)
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SAMPLE BOTTLE:

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[3 BOTTLES (418P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MAND TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOL/KG SW)			P&CODF DIC (UM/KG)	P&COD -S.I.O			
											SUBRUN	ALIQUOT	BOTTLE (P&Q)			DELTA (PQ2-PQ1)	"NISKIN" AVG	
5-158	71-10N 7-29W	1 1	5	5AUG81	23SEP82	24SEP82	1000	M	595P	#	1899.19	1899.19	1899.19	-7.93	1895.22#	1885	-10.2	
					24SEP82	24SEP82	1002	M	596P		1891.26	1891.26	1891.26					
5-159	68-44N 10-34W	4 40	11	6AUG81	10AUG82	11AUG82	1019	M	779P		2066.25	2066.25	2066.25	+2.26	2067.38	2061	-6.4	
					11AUG82	11AUG82	1020	M	780P		2068.51	2068.51	2068.51					
		4 41	76		11AUG82	11AUG82	1021	M	517P			2147.24	2147.24	2147.24		2147.24	2141	-6.2
		4 43	301	12AUG82	13AUG82	1024	M	521P	2150.26	2150.26	2150.26	-0.20	2150.16	2153	+2.8			
																4 44	399	17AUG82
		4 45	500	17AUG82	17AUG82	1028	M	541P	2157.74	2157.74	2157.74	-0.20	2157.64	2160	+2.4			
																4 46	600	18AUG82
		4 48	797	19AUG82	19AUG82	1032	M	545P	2158.02	2158.02	2158.02	-0.48	2157.78	2160	+2.2			
																1 40	949	20AUG82
		1 48	2140	30AUG82	30AUG82	1036	M	777P	2164.18	2164.18	2164.18	+0.12	2164.24	2164	-0.2			
																30AUG82	30AUG82	1037

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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLES/KG SW)				P&CODF DIC (UM/KG)	P&COD -S.I.O		
											SUBRUN	ALIQUOT	BOTTLE (P or Q)	DELTA (PQ2-PQ1)			"NISKIN" AVG	
5-187	04-05N 33-19W	4 40	13	13AUG81	22JUL82	22JUL82	997	M	455P	‡	2074.71	2074.71	2074.71	-5.03	2071.90‡	2058	-13.9	
					27JUL82	27JUL82	1001	M	456P	‡	2069.08	2069.08	2069.08					
			3 80	70		27JUL82	28JUL82	1002	M	453P		2135.02	2135.02	2135.02	-1.80	2134.72		
					28JUL82	28JUL82	1003	M	454P		2133.82	2133.82	2133.82					
			4 41	104		28JUL82	29JUL82	1004	M	457P		2139.79	2139.79	2139.79	-0.76	2139.41	2146	+8.6
					30JUL82	30JUL82	1005	M	458P		2139.03	2139.03	2139.03					
			4 42	203		30JUL82	31JUL82	1006	M	459P		2141.59	2141.59	2141.59	+0.21	2141.70	2146	+4.3
					3AUG82	3AUG82	1007	M	460P		2141.80	2141.80	2141.80					
			6 40	296		3AUG82	3AUG82	1008	M	781P		2144.83	2144.83	2144.83	-0.92	2144.37	2150	+5.6
					3AUG82	4AUG82	1009	M	782P		2143.91	2143.91	2143.91					
			6 41	396		4AUG82	4AUG82	1010	M	783P		2146.10	2146.10	2146.10		2146.10	2153	+8.9
			6 44	837		4AUG82	5AUG82	1011	M	785P		2152.54	2152.54	2152.54	-1.42	2151.83	2157	+5.2
					5AUG82	5AUG82	1012	M	786P		2151.12	2151.12	2151.12					
			6 46	1233		5AUG82	5AUG82	1013	M	787P		2150.83	2150.83	2150.83	+0.31	2150.98	2155	+4.0
					6AUG82	6AUG82	1015	M	788P		2151.14	2151.14	2151.14					
			2 40	1966		6AUG82	6AUG82	1014	M	409P		2151.57	2151.57	2151.57	+0.49	2151.82	2159	+7.2
		9AUG82			9AUG82	1016	M	410P		2152.00	2152.00	2152.00						
		2 48	2317		9AUG82	9AUG82	1017	M	411P		2148.46	2148.46	2148.46	+0.97	2148.94	2152	+3.1	
				10AUG82	10AUG82	1018	M	412P		2149.43	2149.43	2149.43						

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											SUBRUN	ALIQOUT	BOTTLE (PorQ)	DELTA (PQ2-PQ1)		
6-177	58-40N 38-16W	0 0	4p	26AUG81	19JUL82	20JUL82	990	M	475P		2076.36	2076.36	2076.36	-1.09	2075.82	
					19JUL82	20JUL82	991	M	476P		2075.27	2075.27	2075.27			
		3 1 103	9JUL82	9JUL82	978	M	325PA	2137.24	2137.24	2137.09	+0.36	2137.27	2149	+11.7		
			9JUL82	9JUL82	979	M	325PB	2136.94	2136.94							
			12JUL82	12JUL82	980	M	326PA	2137.68	2137.68	2137.45						
			12JUL82	12JUL82	981	M	326PB	2137.22	2137.22							
		3 2 192	13JUL82	14JUL82	982	M	327P	2142.32	2142.32	2142.32	-0.26	2142.19	2151	+8.8		
			13JUL82	14JUL82	983	M	328P	2142.06	2142.06	2142.06						
		3 3 253	14JUL82	14JUL82	984	M	329P	2143.20	2143.20	2143.20	+0.04	2143.22	2148	+4.8		
			14JUL82	14JUL82	985	M	330P	2143.24	2143.24	2143.24						
		3 5 504	14JUL82	15JUL82	986	M	331P	2143.04	2143.04	2143.04	+0.07	2143.08	2149	+5.9		
			15JUL82	15JUL82	987	M	332P	2143.11	2143.11	2143.11						
		3 6 604	16JUL82	16JUL82	989	M	677P	2143.49	2143.49	2143.49		2143.49				
			15JUL82	16JUL82	988	M	749P	* 2135.76	2135.76	2135.76						
		3 9 830	20JUL82	20JUL82	992	M	751P	2142.58	2142.58	2142.58	+0.79	2142.98	2149	+6.0		
			20JUL82	20JUL82	993	M	752P	2143.37	2143.37	2143.37						
		3 13 1550	20JUL82	21JUL82	994	M	753P	2146.81	2146.81	2146.81	+1.17	2147.40	2155	+7.6		
			21JUL82	21JUL82	995	M	754P	2147.98	2147.98	2147.98						
		3 17 2587	21JUL82	22JUL82	996	M	755P	2154.02	2154.02	2154.02	-0.44	2153.80	2164	+10.2		
			22JUL82	22JUL82	998	M	756P	2153.58	2153.58	2153.58						
3 21 3159	26JUL82	26JUL82	999	M	829P	2147.02	2147.02	2147.02	-0.76	2146.64						
	26JUL82	26JUL82	1000	M	830P	2146.26	2146.26	2146.26								

DEPTH:

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DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)

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[3 BOTTLES (416P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED
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COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE
WHEN ALIQUOTS ARE TAKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)			DELTA (PQ2-PQ1)	"NISKIN" AVG	P&CODF DIC (UM/KG)	P&COD -S.I.O.	
											SUBRUN	ALIQUOT	BOTTLE (PorQ)					
6-208	53-55N 39-53W	0 0	4p	8SEP81	2JUN82	2JUN82	951	M	397P		2053.04	2053.04	2053.04	-3.02	2051.53			
					2JUN82	3JUN82	953	M	398P		2050.02	2050.02	2050.02					
			1 1	13		7JUN82	8JUN82	956	M	399P		2052.58	2052.58	2052.58	+2.33	2053.74	2080	+6.3
						10JUN82	10JUN82	957	M	400P		2054.91	2054.91	2054.91				
			1 2	54		10JUN82	10JUN82	958	M	401P		2128.01	2128.01	2128.01	+0.92	2128.47	2136	+7.5
						14JUN82	14JUN82	959	M	402P		2128.93	2128.93	2128.93				
			1 3	78		14JUN82	15JUN82	960	M	403P		2138.82	2138.82	2138.82	-1.69	2137.97	2145	+7.0
						15JUN82	15JUN82	961	M	404P		2137.13	2137.13	2137.13				
			1 4	164		15JUN82	16JUN82	962	M	385P		2141.58	2141.58	2141.58	-0.72	2141.22	2150	+8.8
						16JUN82	16JUN82	963	M	386P		2140.86	2140.86	2140.86				
			1 6	379		16JUN82	17JUN82	964	M	367P		2153.57	2153.57	2153.57	-1.27	2152.94	2159	+6.1
						17JUN82	17JUN82	965	M	368P		2152.30	2152.30	2152.30				
			1 9	803		17JUN82	17JUN82	966	M	369P		2153.47	2153.47	2153.47	-0.62	2153.16	2157	+3.8
						21JUN82	21JUN82	967	M	370P		2152.85	2152.85	2152.85				
			1 10	1001		21JUN82	22JUN82	968	M	371P		2154.21	2154.21	2154.21	-3.00	2152.67	2158	+5.3
						22JUN82	22JUN82	969	M	372P		2151.12	2151.12	2151.12				
			1 13	1597		22JUN82	22JUN82	970	M	615P		2150.54	2150.54	2150.54	+2.63	2151.85	2155	+3.1
						23JUN82	23JUN82	971	M	616P		2153.17	2153.17	2153.17				
		1 15	2052		23JUN82	24JUN82	972	M	613P		2152.87	2152.87	2152.87	-0.84	2152.45	2158	+5.5	
					24JUN82	24JUN82	973	M	614P		2152.03	2152.03	2152.03					
		1 20	3097		24JUN82	24JUN82	974	M	617P -A	#	2163.23	2163.37	2163.37	-5.33	2160.70#	2164	+3.3	
					24JUN82	25JUN82	975	M	617P -B	#	2163.50							
					25JUN82	25JUN82	976	M	618PA	#	2158.72	2158.72	2158.04					
					25JUN82	25JUN82	977	M	618PB	#	2157.35	2157.35						

- 62 -

DEPTH:

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[3 BOTTLES (416P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLES/KG SW)			DELTA "NISKIN" (PQ2-PQ1)	P&CODF "NISKIN" AVG (UM/KG)	P&COD -S.I.O	
											SUBRUN	ALIQUOT	BOTTLE				
6-207	53-05N 37-51W	1 1	7	9SEP81	29SEP82	29SEP82	1070	M	619P		2038.26	2038.26	2038.26	+1.10	2038.81	2042	+3.2
					29SEP82	30SEP82	1071	M	620P		2039.36	2039.36	2039.36				
6-209	50-05N 37-52W	1 1	10	10SEP81	30SEP82	30SEP82	1072	M	791P		2028.76	2028.76	2028.76	-0.43	2028.54	2036	+7.5
					30SEP82	30SEP82	1073	M	792P		2028.33	2028.33	2028.33				
6-210	48-50N 37-50W	1 1	13	10SEP81	13DEC82	13DEC82	1078	M	793PA		2029.02	2029.02	2029.00	-0.56	2028.72	2034	+5.3
					13DEC82	14DEC82	1079	M	793PB		2028.97	2028.97					
					14DEC82	14DEC82	1080	M	794PA		2028.63	2028.63	2028.44				
					14DEC82	15DEC82	1082	M	794PB		2028.25	2028.25					
6-211	47-40N 37-50W	2 1	10	11SEP81	30SEP82	10CT82	1074	M	795P		2032.79	2032.79	2032.79	-1.55	2032.02	2045	+13.0
					10CT82	10CT82	1077	M	796P		2031.24	2031.24	2031.24				

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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)			P&CODF DELTA "NISKIN" AVG (UM/KG)	P&COD -S.I.O			
											SUBRUN	ALIQUOT	BOTTLE (PorQ)					
6-214	51-00N 42-58W	0 0	4p	13SEP81	24MAY82	25MAY82	936	M	697P		2032.99	2032.99	2032.99	-0.91	2032.54			
					24MAY82	25MAY82	937	M	698P		2032.08	2032.08	2032.08					
		7	1	157		25MAY82	25MAY82	938	M	699P		2099.30	2099.30	2099.30	+0.52	2099.56	2110	+10.4
						25MAY82	25MAY82	939	M	700P		2099.82	2099.82	2099.82				
		7	2	304		25MAY82	26MAY82	940	M	509P		2099.40	2099.40	2099.40	-1.23	2098.78	2106	+7.2
						26MAY82	26MAY82	941	M	510P		2098.17	2098.17	2098.17				
		7	4	706		26MAY82	26MAY82	942	M	511P		2169.79	2169.79	2169.79		2169.79		
		7	5	904		26MAY82	27MAY82	943	M	513P		2157.44	2157.44	2157.44	+0.76	2157.82	2163	+5.2
						27MAY82	27MAY82	944	M	514P		2158.20	2158.20	2158.20				
		7	7	1304		27MAY82	27MAY82	945	M	515P		2152.83	2152.83	2152.83	+1.13	2153.40	2158	+4.6
						27MAY82	28MAY82	946	M	516P		2153.96	2153.96	2153.96				
		7	11	2244		1JUN82	1JUN82	947	M	741P		2152.25	2152.25	2152.25	-0.01	2152.24	2156	+3.8
						1JUN82	1JUN82	948	M	742P		2152.24	2152.24	2152.24				
		7	22	4236		1JUN82	2JUN82	950	M	743P	-B	2150.77	2150.77	2150.77	+0.54	2151.04	2157	+6.0
					2JUN82	2JUN82	952	M	744P		2151.31	2151.31	2151.31					
7-224	46-56N 43-04W	1 1	8	25SEP81	19FEB82	19FEB82	830	M	761P		1980.96	1980.96	1980.96		1980.96	1993	+12.0	
7-225	46-55N 41-49W	3 1	15	26SEP81	19FEB82	19FEB82	832	M	763P		1976.31	1976.31	1976.31	+1.02	1976.82	1985	+8.2	
					23FEB82	24FEB82	833	M	764P		1977.33	1977.33	1977.33					
7-226	46-42N 40-00W	3 1	11	26SEP81	23FEB82	24FEB82	834	M	501P		1998.31	1998.31	1998.31		1998.31	2009	+10.7	
7-227	44-50N 42-02W	2 1	27	28SEP81	24FEB82	24FEB82	835	M	503P		2029.12	2029.12	2029.12	-0.36	2028.94	2041	+12.1	
					24FEB82	25FEB82	836	M	504P		2028.76	2028.76	2028.76					

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[3 BOTTLES (418P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)			P&CODF DIC (UM/KG)	P&COD -S.I.O		
											SUBRUN	ALIQUOT	BOTTLE (PorQ)			DELTA (PQ2-PQ1)	"NISKIN" AVG
7-228	42-01N 42-00W	2 41	84	29SEP81	3MAY82	4MAY82	910	M	505P		2082.44	2082.44	2082.44	-1.18	2081.85	2091	+9.2
					4MAY82	4MAY82	912	M	506P		2081.26	2081.26	2081.26				
		3 3	152		4MAY82	4MAY82	913	M	579P		2082.19	2082.19	2082.19	-0.35	2082.02	2095	+13.0
				4MAY82	5MAY82	915	M	580P -B		2081.84	2081.84	2081.84					
		2 42	185		5MAY82	5MAY82	916	M	507P		2084.32	2084.32	2084.32	-0.57	2084.04	2098	+12.0
				5MAY82	5MAY82	917	M	508P		2083.75	2083.75	2083.75					
		3 4	251		5MAY82	5MAY82	918	M	429P		2087.15	2087.15	2087.15	-0.34	2086.98	2094	+7.0
				6MAY82	7MAY82	919	M	430P		2086.81	2086.81	2086.81					
		3 5	302		6MAY82	7MAY82	920	M	431P		2096.43	2096.43	2096.43	+0.88	2096.87	2107	+10.1
				7MAY82	7MAY82	922	M	432P		2097.31	2097.31	2097.31					
		2 43	379		7MAY82	7MAY82	921	M	573P		2100.36	2100.36	2100.36	+0.28	2100.50	2108	+5.5
				13MAY82	13MAY82	923	M	574P		2100.64	2100.64	2100.64					
		3 6	499		13MAY82	14MAY82	924	M	433P		2118.79	2118.79	2118.79	-0.74	2118.42	2121	+2.6
				14MAY82	14MAY82	926	M	434P		2118.05	2118.05	2118.05					
		2 44	679		14MAY82	14MAY82	925	M	575P		2151.64	2151.64	2151.64	-0.16	2151.56	2156	+4.4
				18MAY82	18MAY82	927	M	576P		2151.48	2151.48	2151.48					
	2 46	975		18MAY82	18MAY82	928	M	577P		2170.61	2170.61	2170.61	-0.17	2170.53	2173	+2.5	
			18MAY82	19MAY82	929	M	578P		2170.44	2170.44	2170.44						
	4 41	2046		19MAY82	19MAY82	930	M	435P		2151.96	2151.96	2151.96	-0.89	2151.52	2154	+2.5	
			19MAY82	19MAY82	931	M	436P		2151.07	2151.07	2151.07						
	4 44	3046		19MAY82	20MAY82	932	M	821P		2153.84	2153.84	2153.84		2153.84	2156	+2.2	
			20MAY82			M	822P		-- NOT ANALYZED --								
	4 46	4025		20MAY82	20MAY82	934	M	823P		2162.87	2162.87	2162.87	+0.00	2162.87	2163	+0.1	
			24MAY82	24MAY82	935	M	824P		2162.87	2162.87	2162.87						

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TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)				P&CODF DIC (UM/KG)	P&COD -S.I.O	
											SUBRUN	ALIQUOT	BOTTLE (P&Q)	DELTA "NISKIN" (PQ2-PQ1) AVG			
7-229	39-00N 44-00W	3 1	11	10CT81	12APR82	13APR82	885	M	807P		2023.99	2023.99	2023.99	-0.25	2023.86	2032	+8.1
					12APR82	13APR82	886	M	808P		2023.74	2023.74	2023.74				
		3 2	55		13APR82	14APR82	887	M	809P		2032.08	2032.08	2032.08	+0.64	2032.40		
				13APR82	14APR82	888	M	810P		2032.72	2032.72	2032.72					
		3 3	152		14APR82	14APR82	889	M	811P		2079.31	2079.31	2079.31	-1.29	2078.67		
				14APR82	15APR82	890	M	812P		2078.02	2078.02	2078.02					
		4 41	247		14APR82	15APR82	891	M	531P		2082.32	2082.32	2082.32	+3.38	2084.01	2090	+6.0
				15APR82	15APR82	893	M	532P		2085.70	2085.70	2085.70					
		3 7	398		15APR82	15APR82	892	M	525P		2102.82	2102.82	2102.82	+0.85	2103.24	2112	+8.8
				21APR82	21APR82	894	M	526P		2103.67	2103.67	2103.67					
		4 42	495		21APR82	22APR82	895	M	605P		2114.10	2114.10	2114.10	-1.00	2113.60	2121	+7.4
				21APR82	22APR82	896	M	606P		2113.10	2113.10	2113.10					
		3 8	602		22APR82	22APR82	897	M	527P		2119.25	2119.25	2119.25	-0.52	2118.99		
				22APR82	23APR82	898	M	528P		2118.73	2118.73	2118.73					
		4 43	693		26APR82	27APR82	899	M	607P		2143.07	2143.07	2143.07	+0.28	2143.21	2147	+3.8
				26APR82	27APR82	900	M	608P		2143.35	2143.35	2143.35					
		3 9	797		27APR82	27APR82	901	M	529P		2173.26	2173.26	2173.26	-0.22	2173.15	2176	+2.8
				27APR82	28APR82	902	M	530P		2173.04	2173.04	2173.04					
		4 45	992		28APR82	28APR82	903	M	609P		2170.98	2170.98	2170.98	+0.60	2171.28	2171	-0.3
				28APR82	29APR82	905	M	610P		2171.58	2171.58	2171.58					
		2 40	2073		28APR82	29APR82	904	M	825P		2154.62	2154.62	2154.62	-0.35	2154.45	2157	+2.6
				29APR82	30APR82	906	M	826P		2154.27	2154.27	2154.27					
		2 43	3064		29APR82	30APR82	907	M	827P		2158.31	2158.31	2158.31	-0.09	2158.27	2161	+2.7
				30APR82	30APR82	908	M	828P		2158.22	2158.22	2158.22					
		2 45	4058		30APR82	30APR82	909	M	805P		2166.92	2166.92	2166.92		2166.92	2170	+3.1
				3MAY82	4MAY82	911	M	806P		2404.32	2404.32	2404.32					

DEPTH:

p = SURFACE PUMP SAMPLE

MANO TYPE:

M = CONSTANT VOLUME MERCURY MANOMETER DATUM

S = QUARTZ SPIRAL MANOMETER DATUM

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)

OR TABLE 5 (S MANO TYPE)

SAMPLE BOTTLE:

P = PYREX

FLAGS:

* = REJECTED PEREMPTORILY FOR LONG STORAGE, 5 'NISKINS'

‡ = REJECTED FOR CAUSE, 14 BOTTLES AND 2 ALIQUOTS

‡ = DELETED FOR STATISTICS, 8 'NISKINS' AND 3 BOTTLES [3 BOTTLES (418P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLES/KG SW)			DELTA "NISKIN" (PQ2-PQ1)	P&CODF "NISKIN" AVG	DIC (UM/KG)	P&COD -S.I.O
											SUBRUN	ALIQOUT	BOTTLE (PorQ)				
7-231	36-00N 47-01W	2 1	15	30OCT81	10MAR82	11MAR82	856	M	425P		2024.30	2024.30	2024.30		2024.30	2043	+18.7
					10MAR82	11MAR82	857	M	426P	#	2022.51	2022.51	2022.51				
		2 2	75		11MAR82	11MAR82	860	M	427P		2064.89	2064.89	2064.89	+0.89	2065.33	2073	+7.7
				11MAR82	12MAR82	861	M	428P		2065.78	2065.78	2065.78					
		2 3	150		12MAR82	12MAR82	862	M	461P		2087.94	2087.94	2087.94	+0.78	2088.33	2109	+20.7
				16MAR82	16MAR82	864	M	462P		2088.72	2088.72	2088.72					
		4 40	247		16MAR82	16MAR82	865	M	685P		2099.80	2099.80	2099.80	-0.87	2099.36	2112	+12.6
				16MAR82	17MAR82	866	M	686P		2098.93	2098.93	2098.93					
		4 41	397		17MAR82	17MAR82	867	M	687P		2120.37	2120.37	2120.37	-0.38	2120.18	2141	+20.8
				17MAR82	18MAR82	868	M	688P		2119.99	2119.99	2119.99					
		2 5	473		18MAR82	18MAR82	869	M	463P		2136.49	2136.49	2136.49	-1.01	2135.98	2150	+14.0
				18MAR82	18MAR82	870	M	464P		2135.48	2135.48	2135.48					
		2 6	672		23MAR82	23MAR82	871	M	465P		2176.75	2176.75	2176.75	+0.16	2176.83	2180	+3.2
				23MAR82	24MAR82	872	M	466P		2176.91	2176.91	2176.91					
		4 43	695		24MAR82	24MAR82	873	M	689P		2178.10	2178.10	2178.10	+0.25	2178.23	2191	+12.8
				24MAR82	25MAR82	874	M	690P		2178.35	2178.35	2178.35					
		2 8	922		25MAR82	25MAR82	875	M	467P		2176.33	2176.33	2176.33	+2.87	2177.77	2181	+3.2
				25MAR82	25MAR82	876	M	468P		2179.20	2179.20	2179.20					
		4 45	996		25MAR82	26MAR82	877	M	691P		2174.80	2174.80	2174.80	+0.10	2174.85	2184	+9.2
				26MAR82	26MAR82	879	M	692P		2174.90	2174.90	2174.90					
		1 42	2093		26MAR82	26MAR82	878	M	611P		2156.86	2156.86	2156.86	-0.35	2156.69	2158	+1.3
				29MAR82	29MAR82	880	M	612P		2156.51	2156.51	2156.51					
		1 44	3074		29MAR82	29MAR82	881	M	421P		2164.84	2164.84	2164.84	-1.05	2164.32	2172	+7.7
				30MAR82	31MAR82	882	M	422P		2163.79	2163.79	2163.79					
		1 46	4060		31MAR82	31MAR82	883	M	423P		2172.52	2172.52	2172.52	+0.32	2172.68	2181	+8.3
				31MAR82	1APR82	884	M	424P		2172.84	2172.84	2172.84					

DEPTH:

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S = QUARTZ SPIRAL MANOMETER DATUM

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)

OR TABLE 5 (S MANO TYPE)

SAMPLE BOTTLE:

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= REJECTED FOR CAUSE, 14 BOTTLES AND 2 ALIQUOTS

= DELETED FOR STATISTICS, 8 'NISKINS' AND 3 BOTTLES

[3 BOTTLES (416P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 8 (CONT.). SUMMARY OF DISSOLVED INORGANIC CARBON DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANALYSIS DATE	DIC REC	MANO TYPE	SAMPLE BOTTLE	FLAGS	S.I.O. TOTAL DIC (UMOLE/KG SW)			DELTA "NISKIN" (PQ2-PQ1)	P&CODF "NISKIN" AVG (UM/KG)	P&COD DIC (UM/KG)	P&COD -S.I.O
											SUBRUN	ALIQUOT	BOTTLE (PorQ)				
7-233	33-55N 49-35W	1 1	6	40CT81	25FEB82	25FEB82	837	M	373P		2031.59	2031.59	2031.59	+0.90	2032.04	2043	+11.0
					26FEB82	26FEB82	838	M	374P		2032.49	2032.49	2032.49				
7-234	31-45N 50-45W	4 40	8	50CT81	26FEB82	26FEB82	839	M	535P		2024.52	2024.52	2024.52	-1.08	2023.99	2043	+19.0
					26FEB82	26FEB82	840	M	536P		2023.48	2023.48	2023.48				
		4 41	98	1MAR82	1MAR82	841	M	537P		2052.92	2052.92	2052.92	+0.39	2053.11	2062	+8.9	
				1MAR82	2MAR82	842	M	538P		2053.31	2053.31	2053.31					
		2 2	159	2MAR82	2MAR82	843	M	375P		2084.48	2084.48	2084.48	+0.44	2084.70			
				2MAR82	3MAR82	844	M	376P		2084.92	2084.92	2084.92					
		4 42	243	3MAR82	3MAR82	845	M	539P		2084.05	2084.05	2084.05	-0.70	2083.70	2100	+16.3	
				3MAR82	3MAR82	846	M	540P		2083.35	2083.35	2083.35					
		4 43	387	3MAR82	4MAR82	847	M	678P		2105.85	2105.85	2105.85	-0.58	2105.58	2113	+7.4	
				4MAR82	4MAR82	849	M	679P		2105.27	2105.27	2105.27					
		2 4	452	4MAR82	4MAR82	848	M	377P		2113.92	2113.92	2113.92	-0.07	2113.89			
				5MAR82	5MAR82	850	M	378P		2113.85	2113.85	2113.85					
		4 44	529	5MAR82	5MAR82	851	M	680P		2129.38	2129.38	2129.38	-0.31	2129.22	2146	+16.8	
				7MAR82	8MAR82	852	M	684P		2129.07	2129.07	2129.07					
2 5	598	8MAR82	8MAR82	853	M	380P		2146.82	2146.82	2146.82		2146.82	2157	+10.2			
		9MAR82	9MAR82	854	M	533P		2179.15	2179.15	2179.15	-0.09	2179.10					
2 6	750	9MAR82	9MAR82	855	M	534P		2179.08	2179.08	2179.08							
7-248	43-01N 59-35W	1 1	7	180CT81	12MAR82	12MAR82	863	M	682P		1959.56	1959.56	1959.56	-0.19	1959.47	1969	+9.5
					10MAR82	11MAR82	859	M	683P		1959.37	1959.37	1959.37				

DEPTH:

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MANO TYPE:

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DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (M MANO TYPE)

OR TABLE 5 (S MANO TYPE)

SAMPLE BOTTLE:

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& = REJECTED FOR CAUSE, 14 BOTTLES AND 2 ALIQUOTS

= DELETED FOR STATISTICS, 8 'NISKINS' AND 3 BOTTLES

[3 BOTTLES (418P, 419P, 770P) PAIRED WITH 3 BOTTLES DELETED FOR STATISTICS ACCEPTED PROVISIONALLY BASED ON COMPARISON WITH DATA FOR BOTTLES 417P, 418P]

NOTE: NORMALLY 2 BOTTLES/NISKIN; NORMALLY, 2 ALIQUOTS/BOTTLE WHEN ALIQUOTS ARE TAKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 9. COMPARISON OF SALINITY DATA FOR SUBSAMPLES TAKEN SHIPBOARD (ON DIC SAMPLE DATE) AND ON SHORE (ON DIC EXTRACTION DATE)

REC NO.	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	SHORE DATA							'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)
									EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SAL o/oo	SEQ NO.	DELTA ('1-2')	SAL AVG o/oo		
1	0	3	31-48N	50-46W	5 41	2612	277P	801023	820203	468	820505	34.963	2	-0.001	34.962	34.965	+0.003
2	0	3	31-48N	50-46W	5 42	2750	278P	801023	810213	113	810702	34.962	* 1	-0.058	34.929	34.955	+0.026
							279P	801023	810212	112	810702	34.9	** 1				
3	0	3	31-48N	50-46W	5 46	3209	280P	801023	811022	364	820216	34.958	2	-0.018	34.919	34.929	+0.010
							281P	801023	810211	111	810702	34.91	1				
4	0	3	31-48N	50-46W	5 47	3667	282P	801023	820204	489	820505	34.928	2	-0.007	34.906	34.906	+0.000
							283P	801023	810210	110	810702	34.902	1				
5	0	3	31-48N	50-46W	5 48	3675	284P	801023	811023	365	820216	34.909	2	+0.014	34.911	34.906	-0.005
							285P	801023	810206	106	810729	34.918	1				
6	0	3	31-48N	50-46W	5 45	4125	286P	801023	820205	470	820505	34.904	2	-0.008	34.889	34.893	+0.004
							287P	801023	810129	98	810729	34.885	1				
7	0	3	31-48N	50-46W	5 44	4677	288P	801023	811027	369	820216	34.893	2	+0.062	34.900	34.869	-0.031
							289P	801023	810127	96	810729	34.931	* 1				
8	0	4	35-56N	47-01W	2 2	1	290P	801023	810128	97	810729	34.869	* 2	-0.001	36.238	36.250	+0.012
							293P	801026	810401	157	810702	36.239	2				
9	0	4	35-56N	47-01W	2 24	3854	294P	801026	810401	157	810702	36.238	1	+0.000	34.895	34.901	+0.006
							295P	801026	810402	158	810702	34.895	1				
10	0	13	38-59N	43-58W	3 2	3	296P	801026	810402	158	810702	34.895	2	-0.002	36.296	36.310	+0.014
							297P	801031	810223	115	810702	36.295	1				
11	0	13	38-59N	43-58W	3 12	746	298P	801031	810223	115	810702	36.297	2	+0.009	35.365	35.367	+0.002
							299P	801031	810219	111	810702	35.369	1				
12	0	13	38-59N	43-58W	3 21	2239	300P	801031	810219	111	810702	35.360	2	+0.004	34.970	34.971	+0.001
							301P	801031	810218	110	810702	34.972	1				
13	0	13	38-59N	43-58W	3 33	4843	302P	801031	810218	110	810702	34.968	2	-0.004	34.888	34.903	+0.015
							303P	801031	810217	109	810702	34.886	1				
14	0	23	40-33N	54-14W	3 2	2	304P	801031	810217	109	810702	34.890	2	-0.345	34.740	34.926	+0.186
							305P	801106	810330	144	810702	34.567	1				
15	0	23	40-33N	54-14W	3 16	3719	306P	801106	810330	144	810702	34.912	2	-0.334	34.740	34.915	+0.175
							307P	801106	810331	145	810702	34.573	1				
16	1	1	39-48N	70-05W	2 27	10	308P	801106	810331	145	810702	34.907	2	-0.003	35.188	35.199	+0.011
							309P	810402	810528	56	810731	35.186	1				
17	1	3	38-17N	69-10W	1 1	12	310P	810402	810528	56	810731	35.189	2	+0.000	35.714	35.723	+0.009
							311P	810403	810601	59	810731	35.714	1				
18	1	5	38-00N	68-00W	2 1	10	312P	810403	810601	59	810731	35.714	2	-0.001	36.434	36.441	+0.007
							313P	810405	810602	58	810731	36.433	1				
							314P	810405	810602	58	810731	36.434	2				

BOTTLE TYPE:

P = PYREX

DATES:

'SAMPLE DATE' IS DATE OF THE DIC AND SHIPBOARD SALINITY SAMPLE
'EXTRACTION DATE' IS DATE OF DIC EXTRACTION AND DATE OF SUBSAMPLE FOR 'SHORE' SALINITY
'ANALYSIS DATE' IS DATE OF 'SHORE' SALINITY ANALYSIS BY P&CODF

STORAGE:

E-S = (DIC EXTRACTION DATE - DIC SAMPLE DATE), IN DAYS

FLAGS:

Δ = ERROR IN SAMPLE MANIPULATION
* = POSSIBLE LEAK IN SALINITY BOTTLE
** = PROBABLE LEAK IN SALINITY BOTTLE, CRACKED OR BROKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 9 (CONT.). COMPARISON OF SALINITY DATA FOR SUBSAMPLES TAKEN SHIPBOARD AND ON SHORE

REC NO.	LEG	STN	LAT.	LONG.	CAST	NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	EXTRAC DATE	STORAGE (E-S)	SHORE DATA				'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)	
												ANALYS. DATE	SAL o/oo	SEQ NO.	DELTA ('1-2')			
19	1	6	34-41N	67-21W	2	1	11	316P	810406	810603	59	810731	36.377	1	-0.001	36.378	36.385	+0.007
								316P	810406	810603	59	810731	36.378	2				
20	1	7	31-40N	68-30W	3	1	12	318P	810407	810604	58	810731	36.558	2		36.558	36.566	+0.008
21	1	8	31-20N	71-30W	3	1	12	319P	810408	810604	57	810731	36.564	1	-0.001	36.564	36.572	+0.008
								320P	810408	810608	61	810731	36.565	2				
22	1	11	30-50N	74-03W	2	1	7	321P	810410	810608	59	810731	36.633 *	1	+0.001	36.632	36.622	-0.010
								322P	810410	810609	60	810731	36.632 *	2				
23	1	13	29-56N	77-21W	1	69	9	324P	810411	810609	59	810731	36.329	2		36.329	36.335	+0.006
24	2	15	25-35N	76-23W	2	1	11	341P	810417	810610	54	810731	36.749 *	1	-0.001	36.750	36.762	+0.012
								342P	810417	810610	54	810731	36.750 *	2				
25	2	16	22-51N	73-10W	2	1	13	343P	810419	810610	52	810731	36.555	1	+0.001	36.554	36.562	+0.008
								344P	810419	810610	52	810731	36.554	2				
26	2	20	25-47N	70-26W	2	1	13	345P	810421	810611	51	810731	36.785	1	+0.000	36.785	36.807	+0.022
								346P	810421	810611	51	810731	36.785	2				
27	2	22	25-47N	66-00W	1	1	13	347P	810423	810612	50	810731	36.675	1	-0.001	36.676	36.686	+0.010
								348P	810423	810612	50	810731	36.676	2				
28	2	24	23-18N	64-10W	2	1	12	445P	810424	810615	52	810921	36.644	1	+0.001	36.644	36.645	+0.001
								446P	810424	810615	52	810921	36.643	2				
29	2	26	20-47N	62-16W	2	1	11	447P	810426	810616	51	810921	36.510	1		36.510	36.518	+0.008
30	2	28	18-07N	60-39W	3	1	12	450P	810427	810616	50	810921	35.787	2		35.787	35.792	+0.005
31	2	29	17-08N	59-31W	1	1	11	451P	810428	810617	50	810921	35.711	1	+0.000	35.711	35.716	+0.005
								452P	810428	810617	50	810921	35.711	2				
32	2	32	15-03N	53-57W	0	0	4p	495P	810430	810619	50	810921	34.689	1	-0.004	34.691	34.703	+0.012
								496P	810430	810619	50	810921	34.693	2				
33	2	32	15-03N	53-57W	2	1	11	493P	810430	810618	49	810921	34.693	1	+0.001	34.692	34.703	+0.011
								494P	810430	810618	49	810921	34.692	2				
34	2	32	15-03N	53-57W	4	41	99	499P	810430	810623	54	810921	37.159	1	+0.000	37.159	37.163	+0.004
								500P	810430	810623	54	810921	37.159	2				
35	2	32	15-03N	53-57W	4	43	152	565P	810430	810624	55	810921	36.893	2	+0.006	36.896	36.900	+0.004
								566P	810430	810624	55	810921	36.899	1				
36	2	32	15-03N	53-57W	4	44	253	567P	810430	810720	81	810923	36.044	1	-0.001	36.044	36.049	+0.005
								568P	810430	810720	81	810923	36.045	2				
37	2	32	15-03N	53-57W	4	45	352	569P	810430	810721	82	810923	35.563	1	+0.001	35.562	35.564	+0.002
								570P	810430	810721	82	810923	35.562	2				
38	2	32	15-03N	53-57W	4	47	749	571P	810430	810722	83	810923	34.745	1	-0.001	34.746	34.747	+0.001
								572P	810430	810722	83	810923	34.746	2				

BOTTLE TYPE:

P = PYREX

DATES:

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SUBSAMPLE FOR 'SHORE' SALINITY

'ANALYSIS DATE' IS DATE OF 'SHORE' SALINITY ANALYSIS BY P&CODF

STORAGE:

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FLAGS:

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 9 (CONT.). COMPARISON OF SALINITY DATA FOR SUBSAMPLES TAKEN SHIPBOARD AND ON SHORE

REC NO.	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	SHORE DATA.....				DELTA ('1-2')	SAL AVG o/oo	'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)	
									EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SAL o/oo					
39	2	32	15-03N	53-57W	5 44	1097	485P	810430	810722	83	810923	34.856	1	-0.001	34.856	34.860	+0.004
							486P	810430	810723	84	810923	34.857	2				
40	2	32	15-03N	53-57W	5 45	1982	487P	810430	810723	84	810923	34.975	1	-0.003	34.976	34.982	+0.006
							488P	810430	810723	84	810923	34.978	2				
41	2	32	15-03N	53-57W	5 48	2970	489P	810430	810727	88	810923	34.924	1	-0.002	34.925	34.931	+0.006
							490P	810430	810727	88	810923	34.926	2				
42	2	32	15-03N	53-57W	3 44	3993	497P	810430	810622	53	810921	34.900	1	+0.003	34.899	34.902	+0.003
							498P	810430	810622	53	810921	34.897	2				
43	2	34	18-02N	53-58W	0 0	4p	477P	810502	810729	88	810923	35.309	1	+0.000	35.309	35.343	+0.034
							478P	810502	810729	88	810923	35.309	2				
44	2	34	18-02N	53-58W	2 1	8	491P	810502	810728	87	810923	34.340	1	+0.000	34.340	35.343	+1.003
							492P	810502	810728	87	810923	34.340	2				
45	2	34	18-02N	53-58W	2 2	71	479P	810502	810729	88	810923	37.125	1	-0.002	37.126	37.127	+0.001
							480P	810502	810730	89	810923	37.127	2				
46	2	34	18-02N	53-58W	2 4	146	481P	810502	810730	89	810923	37.079	1	-0.004	37.081	37.082	+0.001
							482P	810502	810731	90	810923	37.083	2				
47	2	34	18-02N	53-58W	2 6	247	483P	810502	810731	90	810923	36.382	1	+0.000	36.382	36.385	+0.003
							484P	810502	810908	129	810923	36.382	2				
48	2	34	18-02N	53-58W	2 8	346	581P	810502	810908	129	820216	36.019	1	+0.004	36.017	36.014	-0.003
							582P	810502	810909	130	820216	36.015	2				
49	2	34	18-02N	53-58W	2 11	667	583P	810502	810909	130	820216	34.992	1	-0.006	34.995	34.988	-0.007
							584P	810502	810910	131	820216	34.998	2				
50	2	34	18-02N	53-58W	2 13	962	585P	810502	810910	131	820216	34.813	1	-0.001	34.814	34.812	-0.002
							586P	810502	810911	132	820216	34.814	2				
51	2	34	18-02N	53-58W	2 18	1975	587P	810502	810911	132	820216	34.988	1	+0.003	34.986	34.981	-0.005
							588P	810502	810915	136	820216	34.985	2				
52	2	34	18-02N	53-58W	2 20	2951	629P	810502	810915	136	820216	34.932	1	+0.001	34.932	34.929	-0.003
							630P	810502	810916	137	820216	34.931	2				
53	2	34	18-02N	53-58W	2 22	3928	631P	810502	810916	137	820216	34.885	1	-0.003	34.886	34.884	-0.002
							632P	810502	810917	138	820216	34.888	2				
54	2	36	21-01N	53-59W	0 0	4p	363P	810503	810918	138	820216	36.604	1	+0.003	36.602	36.599	-0.003
							364P	810503	810918	138	820216	36.601	2				
55	2	36	21-01N	53-59W	4 40	10	549P	810503	810924	144	820216	36.598	1	-0.002	36.599	36.599	+0.000
							550P	810503	810924	144	820216	36.600	2				
56	2	36	21-01N	53-59W	4 45	70	551P	810503	810928	148	820216	36.828	1	-0.004	36.830	36.827	-0.003
							552P	810503	810928	148	820216	36.832	2				

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TABLE 9 (CONT.). COMPARISON OF SALINITY DATA FOR SUBSAMPLES TAKEN SHIPBOARD AND ON SHORE

REC NO.	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SHORE DATA			'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)	
												SAL o/oo	SEQ NO.	DELTA ('1-2')			
57	2	36	21-01N	53-59W	4 44	159	553P	810503	810929	149	820216	36.755	1	+0.000	36.755	36.754	-0.001
							554P	810503	810929	149	820216	36.755	2				
58	2	36	21-01N	53-59W	4 41	239	555P	810503	810929	149	820216	36.530	1	-0.001	36.530	36.529	-0.001
							556P	810503	810930	150	820216	36.531	2				
59	2	36	21-01N	53-59W	2 7	365	633P	810503	810917	137	820216	36.208	1	+0.004	36.208	36.208	-0.000
							634P	810503	810917	137	820216	36.204	2				
60	2	36	21-01N	53-59W	4 47	676	597P	810503	810930	150	820216	35.226	1	-0.051	35.252	35.223	-0.029
							598P	810503	811001	151	820216	35.277	** 2				
61	2	36	21-01N	53-59W	2 12	994	635P	810503	810921	141	820216	34.924	1	+0.000	34.924	34.919	-0.005
							636P	810503	810921	141	820216	34.924	2				
62	2	36	21-01N	53-59W	2 16	1973	357P	810503	810922	142	820216	34.995	1	+0.000	34.995	34.990	-0.005
							358P	810503	810922	142	820216	34.995	2				
63	2	36	21-01N	53-59W	2 18	2925	359P	810503	810923	143	820216	34.935	1	+0.000	34.935	34.932	-0.003
							360P	810503	810923	143	820216	34.935	2				
64	2	36	21-01N	53-59W	2 20	3899	361P	810503	810925	145	820216	34.911	1	+0.012	34.905	34.897	-0.008
							362P	810503	810925	145	820216	34.899	* 2				
65	2	38	23-51N	54-03W	0 0	4p	599P	810505	810626	52	810921	37.196	1	-0.001	37.196	37.203	+0.007
							600P	810505	810626	52	810921	37.197	2				
66	2	38	23-51N	54-03W	2 1	11	601P	810505	810629	55	810921	37.197	1	-0.001	37.198	37.203	+0.005
							602P	810505	810629	55	810921	37.198	2				
67	2	38	23-51N	54-03W	2 2	48	603P	810505	810629	55	810921	37.198	1	+0.000	37.198	37.203	+0.005
							604P	810505	810630	56	810921	37.198	2				
68	2	38	23-51N	54-03W	2 3	106	381P	810505	810630	56	810921	37.299	1	+0.000	37.299	37.304	+0.005
							382P	810505	810701	57	810921	37.299	2				
69	2	38	23-51N	54-03W	2 5	273	384P	810505	810701	57	810921	36.502	2	+0.003	36.504	36.506	+0.002
							383P	810505	810701	57	810921	36.505	1				
70	2	38	23-51N	54-03W	2 7	355	385P	810505	810706	62	810921	36.366	1	+0.001	36.366	36.368	+0.002
							386P	810505	810706	62	810921	36.365	2				
71	2	38	23-51N	54-03W	2 10	693	387P	810505	810707	63	810921	35.465	1	+0.000	35.465	35.464	-0.001
							388P	810505	810707	63	810921	35.465	2				
72	2	38	23-51N	54-03W	2 12	992	389P	810505	810708	64	810923	35.029	1	+0.001	35.028	35.025	-0.003
							390P	810505	810708	64	810923	35.028	2				
73	2	38	23-51N	54-03W	2 18	1958	391P	810505	810709	65	810923	35.013	1	-0.003	35.014	35.013	-0.001
							392P	810505	810709	65	810923	35.016	2				
74	2	38	23-51N	54-03W	2 20	2841	393P	810505	810710	66	810923	34.934	1	-0.001	34.934	34.937	+0.003
							394P	810505	810710	66	810923	34.935	2				

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TABLE 9 (CONT.). COMPARISON OF SALINITY DATA FOR SUBSAMPLES TAKEN SHIPBOARD AND ON SHORE

REC NO.	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	SHORE DATA				DELTA ('1-2')	SAL AVG o/oo	'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)	
									EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SAL o/oo					
75	2	38	23-51N	54-03W	2 22	3747	395P	810505	810713	69	810923	34.888	1	+0.001	34.888	34.893	+0.005
76	2	39	25-21N	55-54W	2 1	11	398P	810506	810713	69	810923	34.887	2	+0.000	36.889	36.888	-0.001
							437P	810506	811001	148	820216	36.889	1				
							438P	810506	811005	152	820216	36.889	2				
							439P	810506	811005	152	820216	36.889	3				
77	2	40	27-30N	58-35W	2 1	7	440P	810507	811006	152	820216	36.655	1	-0.001	36.656	36.654	-0.002
							441P	810507	811007	153	820216	36.656	2				
78	2	41	29-43N	01-18W	1 1	13	442P	810509	811008	152	820216	36.631	1	+0.000	36.631	36.632	+0.001
							443P	810509	811009	153	820216	36.631	2				
79	3	43	31-46N	50-45W	4 1	10	647P	810518	840104	981	840508	36.446	1	+0.000	36.446	36.453	+0.007
							648P	810518	840105	982	840508	36.446	2				
80	4	124	53-15N	36-41W	3 1	14	721P	810706	821001	452	821007	34.718	1	+0.000	34.718	34.716	-0.002
							722P	810706	821001	452	821007	34.718	2				
81	4	125	55-00N	34-41W	1 1	13	723P	810707	840106	913	840508	34.691	1	-0.022	34.702	34.692	-0.010
							724P	810707	840106	913	840508	34.713	2				
82	4	126	57-00N	32-20W	2 1	14	670P	810708	840109	915	840508	34.888	1	-0.003	34.886	34.891	+0.005
							669P	810708	840109	915	840508	34.885	2				
83	4	127	58-30N	30-00W	2 1	10	671P	810708	840109	915	840508	34.987	1	-0.001	34.988	34.986	-0.002
							672P	810708	840110	916	840508	34.988	2				
84	5	141	58-34N	11-33W	2 1	14	707P	810723	840111	902	840508	35.314	1	+0.004	35.312	35.314	+0.002
							708P	810723	840111	902	840508	35.310	2				
85	5	143	04-50N	6-14W	4 1	9	769P	810725	820924	426	821007	34.917	1	+0.001	34.916	34.917	+0.001
							770P	810725	820927	429	821007	34.916	2				
86	5	144	67-41N	3-20W	5 42	12	415P	810726	820928	429	821007	35.016	1	+0.002	35.015	35.016	+0.001
							416P	810726	820929	430	821007	35.014	2				
87	5	145	70-00N	2-29E	5 1	14	417P	810727	820927	427	821007	34.084	1	+0.001	34.084	35.084	+1.000
							418P	810727	820927	427	821007	34.083	2				
88	5	146	72-25N	2-04E	1 1	10	419P	810729	820928	426	821007	34.998	2	+0.001	34.998	34.999	+0.001
							420P	810729	820928	426	821007	34.999	1				
89	5	148	74-56N	1-08W	5 40	9	561P	810730	820831	397	821005	34.411	1	+0.002	34.410	34.410	+0.000
							562P	810730	820831	397	821005	34.409	2				
90	5	148	74-56N	1-08W	2 2	13	661P	810730	820901	398	821005	34.388	1	-0.499	34.638	34.385	-0.253
							662P	810730	820901	398	821005	34.887	2				
91	5	148	74-56N	1-08W	5 41	77	563P	810730	820902	399	821005	34.859	1	-0.001	34.860	34.864	+0.004
							564P	810730	820902	399	821005	34.860	2				

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TABLE 9 (CONT.). COMPARISON OF SALINITY DATA FOR SUBSAMPLES TAKEN SHIPBOARD AND ON SHORE

REC NO.	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SHORE DATA			'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)	
												SAL o/oo	SEQ NO.	DELTA ('1-2')			
92	5	148	74-58N	1-08W	5 42	247	589P	810730	820902	399	821007	34.866	1	+0.001	34.866	34.871	+0.005
							590P	810730	820903	400	821007	34.865	2				
93	5	148	74-58N	1-08W	5 43	444	591P	810730	820903	400	821007	34.880	1	-0.003	34.882	34.887	+0.005
							592P	810730	820907	404	821007	34.883	2				
94	5	148	74-58N	1-08W	4 40	740	665P	810730	820907	404	821007	34.883	1	-0.001	34.884	34.886	+0.002
							666P	810730	820908	405	821007	34.884	2				
95	5	148	74-58N	1-08W	4 42	937	667P	810730	820908	405	821007	34.886	1	-0.001	34.886	34.888	+0.002
							668P	810730	820910	407	821007	34.887	2				
96	5	148	74-58N	1-08W	4 46	1879	557P	810730	820910	407	821007	34.889	1	+0.000	34.889	34.892	+0.003
							558P	810730	820921	418	821007	34.889	2				
97	5	148	74-58N	1-08W	4 48	2482	559P	810730	820921	418	821007	34.887	1	+0.000	34.887	34.912	+0.025
							560P	810730	820921	418	821007	34.887	2				
98	5	148	74-58N	1-08W	2 32	2978	663P	810730	820922	419	821007	34.887	1	+0.000	34.887	34.890	+0.003
							664P	810730	820922	419	821007	34.887	2				
99	5	149	76-53N	1-02E	2 2	11	593P	810731	820922	418	821007	33.411	1	-0.001	33.412	33.415	+0.003
							594P	810731	820923	419	821007	33.412	2				
100	5	158	71-10N	7-29W	1 1	5	595P	810805	820923	414	821007	31.411	1	+0.004	31.409	31.413	+0.004
							596P	810805	820924	415	821007	31.407	2				
101	5	159	68-44N	10-34W	4 40	11	779P	810806	820810	369	821007	34.674	1	-0.001	34.674	34.677	+0.003
							780P	810806	820811	370	821007	34.675	2				
102	5	159	68-44N	10-34W	4 41	76	517P	810806	820811	370	821005	34.782	1		34.782	34.784	+0.002
103	5	159	68-44N	10-34W	4 42	201	519P	810806	820812	371	821005	34.831	1	+0.001	34.830	34.833	+0.003
							520P	810806	820812	371	821005	34.830	2				
104	5	159	68-44N	10-34W	4 43	301	521P	810806	820812	371	821005	34.852	1	+0.000	34.852	34.863	+0.011
							522P	810806	820816	375	821005	34.852	2				
105	5	159	68-44N	10-34W	4 44	399	523P	810806	820817	376	821005	34.894	1	+0.001	34.894	34.896	+0.002
							524P	810806	820816	375	821005	34.893	2				
106	5	159	68-44N	10-34W	4 45	500	541P	810806	820817	376	821005	34.903	1	+0.002	34.902	34.903	+0.001
							542P	810806	820817	376	821005	34.901	2				
107	5	159	68-44N	10-34W	4 46	600	543P	810806	820818	377	821005	34.904	1	+0.000	34.904	34.909	+0.005
							544P	810806	820818	377	821005	34.904	2				
108	5	159	68-44N	10-34W	4 48	797	545P	810806	820819	378	821005	34.907	1	+0.000	34.907	34.911	+0.004
							546P	810806	820819	378	821005	34.907	2				
109	5	159	68-44N	10-34W	1 40	949	775P	810806	820820	379	821005	34.909	1	+0.000	34.909	34.911	+0.002
							776P	810806	820820	379	821005	34.909	2				

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												SAL o/oo	SEQ NO.				
110	5	159	68-44N	10-34W	1 48	2140	777P	810806	820830	389	821005	34.907	1	-0.001	34.908	34.909	+0.001
							778P	810806	820830	389	821005	34.908	2				
111	5	167	64-05N	33-19W	4 40	13	455P	810813	820722	343	821004	34.948	1	-0.001	34.948	34.947	-0.001
							456P	810813	820727	348	821004	34.949	2				
112	5	167	64-05N	33-19W	3 80	70	453P	810813	820727	348	821004	35.028	1	-0.001	35.028	35.025	-0.001
							454P	810813	820728	349	821004	35.027	2				
113	5	167	64-05N	33-19W	4 41	104	457P	810813	820728	349	821004	35.047	1	+0.000	35.047	35.054	+0.007
							458P	810813	820730	351	821004	35.047	2				
114	5	167	64-05N	33-19W	4 42	203	459P	810813	820730	351	821004	35.023	1	-1.003	35.524	35.023	-0.501
							460P	810813	820803	355	821004	36.028	2				
115	5	167	64-05N	33-19W	6 40	296	781P	810813	820803	355	821004	34.991	1	-0.002	34.992	34.992	+0.000
							782P	810813	820803	355	821004	34.993	2				
116	5	167	64-05N	33-19W	6 41	396	783P	810813	820804	356	821004	34.980	1		34.980	34.982	+0.002
117	5	167	64-05N	33-19W	6 44	837	785P	810813	820804	356	821004	34.914	1	+0.002	34.913	34.915	+0.002
							786P	810813	820805	357	821004	34.912	2				
118	5	167	64-05N	33-19W	6 46	1233	787P	810813	820805	357	821005	34.929	1	+0.008	34.925	34.923	-0.002
							788P	810813	820806	358	821005	34.921	2				
119	5	167	64-05N	33-19W	2 40	1966	409P	810813	820806	358	821005	34.947	1	+0.000	34.947	34.942	-0.005
							410P	810813	820809	361	821005	34.947	2				
120	5	167	64-05N	33-19W	2 48	2317	411P	810813	820809	361	821005	34.878	1	+0.002	34.877	34.878	+0.001
							412P	810813	820810	362	821005	34.876	2				
121	6	177	58-40N	38-16W	0 0	4p	475P	810826	820719	327	821004	34.548	1	-0.003	34.548	34.574	+0.026
							476P	810826	820719	327	821004	34.549	2				
122	6	177	58-40N	38-16W	3 1	103	325P	810826	820709	317	820917	34.718	1	-0.010	34.723	34.722	-0.001
							326P	810826	820712	320	820917	34.728	2				
123	6	177	58-40N	38-16W	3 2	192	327P	810826	820713	321	820917	34.763	1	-0.001	34.764	34.766	+0.002
							328P	810826	820713	321	821004	34.764	2				
124	6	177	58-40N	38-16W	3 3	253	329P	810826	820714	322	821004	34.773	1	-0.002	34.774	34.778	+0.004
							330P	810826	820714	322	821004	34.775	2				
125	6	177	58-40N	38-16W	3 5	504	331P	810826	820714	322	821004	34.821	1	-0.003	34.823	34.823	+0.000
							332P	810826	820715	323	821004	34.824	2				
126	6	177	58-40N	38-16W	3 6	604	677P	810826	820716	324	821004	34.822	2	+0.000	34.822	34.825	+0.003
							749P	810826	820715	323	821004	34.822	1				
127	6	177	58-40N	38-16W	3 9	830	751P	810826	820720	328	821004	34.829	1	+0.000	34.829	34.832	+0.003
							752P	810826	820720	328	821004	34.829	2				

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TABLE 9 (CONT.). COMPARISON OF SALINITY DATA FOR SUBSAMPLES TAKEN SHIPBOARD AND ON SHORE

REC NO.	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SHORE DATA		DELTA ('1-2')	SAL AVG o/oo	'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)
												SAL o/oo	SEQ NO.				
128	6	177	58-40N	38-16W	3 13	1550	753P	810828	820720	328	821004	34.884	1	-0.003	34.886	34.889	+0.003
							754P	810826	820721	329	821004	34.887	2				
129	6	177	58-40N	38-16W	3 17	2587	756P	810828	820721	329	821004	34.950	1	+0.000	34.950	34.953	+0.003
							756P	810826	820722	330	821004	34.950	2				
130	6	177	58-40N	38-16W	3 21	3159	829P	810826	820726	334	821004	34.882	1	+0.000	34.882	34.885	+0.003
							830P	810826	820726	334	821004	34.882	2				
131	6	206	53-55N	39-53W	0 0	4p	397P	810908	820602	267	820917	34.455	1	-0.009	34.460	34.457	-0.003
							398P	810908	820602	267	820917	34.464	2				
132	6	206	53-55N	39-53W	1 1	13	399P	810908	820607	272	820917	34.464	1	+0.003	34.462	34.457	-0.005
							400P	810908	820610	275	820917	34.461	2				
133	6	206	53-55N	39-53W	1 2	54	401P	810908	820610	275	820917	34.665	1	+0.002	34.664	34.663	-0.001
							402P	810908	820614	279	820917	34.663	2				
134	6	206	53-55N	39-53W	1 3	78	403P	810908	820614	279	820917	34.700	1	-0.006	34.703	34.697	-0.006
							404P	810908	820615	280	820917	34.708	2				
135	6	206	53-55N	39-53W	1 4	104	365P	810908	820615	280	820917	34.781	1	-0.007	34.784	34.781	-0.003
							366P	810908	820616	281	820917	34.788	2				
136	6	206	53-55N	39-53W	1 6	379	367P	810908	820616	281	820917	34.829	1	-0.002	34.830	34.831	+0.001
							368P	810908	820617	282	820917	34.831	2				
137	6	206	53-55N	39-53W	1 9	803	369P	810908	820617	282	820917	34.853	1	-0.003	34.854	34.856	+0.002
							370P	810908	820621	286	820917	34.856	2				
138	6	206	53-55N	39-53W	1 10	1001	371P	810908	820621	286	820917	34.880	1	+0.001	34.880	34.882	+0.002
							372P	810908	820622	287	820917	34.879	2				
139	6	206	53-55N	39-53W	1 13	1597	615P	810908	820622	287	820917	34.912	1	-0.002	34.913	34.915	+0.002
							616P	810908	820623	288	820917	34.914	2				
140	6	206	53-55N	39-53W	1 15	2052	613P	810908	820623	288	820917	34.945	1	-0.001	34.946	34.948	+0.002
							614P	810908	820624	289	820917	34.948	2				
141	6	206	53-55N	39-53W	1 20	3097	617P	810908	820624	289	820917	34.961	1	+0.003	34.960	34.958	-0.002
							618P	810908	820625	290	820917	34.958	2				
142	6	207	53-05N	37-51W	1 1	7	619P	810909	820929	385	821007	34.464	1	+0.000	34.464	34.469	+0.005
							620P	810909	820929	385	821007	34.464	2				
143	6	209	50-05N	37-52W	1 1	10	791P	810910	820930	385	821007	34.676	1	+0.000	34.676	34.683	+0.007
							792P	810910	820930	385	821007	34.676	2				
144	6	210	48-50N	37-50W	1 1	13	793P	810910	821213	459	830113	34.641	1	+0.003	34.640	34.637	-0.003
							794P	810910	821214	460	830113	34.638	2				
145	6	211	47-40N	37-50W	2 1	10	795P	810911	820930	384	821007	34.215	1	+0.001	34.214	35.217	+1.003
							796P	810911	821001	385	821007	34.214	2				

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TABLE 9 (CONT.). COMPARISON OF SALINITY DATA FOR SUBSAMPLES TAKEN SHIPBOARD AND ON SHORE

REC NO.	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	SHORE DATA							'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)
									EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SAL o/oo	SEQ NO.	DELTA ('1-2')	SAL AVG o/oo		
146	6	214	51-00N	42-58W	0 0	4p	697P	810913	820524	253	820916	35.328	1	+0.001	35.328	35.351	+0.023
147	6	214	51-00N	42-58W	7 1	157	698P	810913	820524	253	820916	35.327	2	+0.001	35.798	35.800	+0.002
							699P	810913	820525	254	820916	35.799	1				
							700P	810913	820525	254	820916	35.798	2				
148	6	214	51-00N	42-58W	7 2	304	509P	810913	820525	254	820916	35.825	1	+0.000	35.825	35.828	+0.001
							510P	810913	820526	255	820916	35.825	2				
149	6	214	51-00N	42-58W	7 4	708	511P	810913	820526	255	820916	34.950	1		34.950	34.951	+0.001
150	6	214	51-00N	42-58W	7 5	904	513P	810913	820526	255	820916	34.884	1	-0.003	34.886	34.887	+0.001
							514P	810913	820527	256	820916	34.887	2				
151	6	214	51-00N	42-58W	7 7	1304	515P	810913	820527	256	820916	34.928	1	+0.002	34.925	34.928	+0.001
							518P	810913	820527	256	820916	34.924	2				
152	6	214	51-00N	42-58W	7 11	2244	741P	810913	820601	261	820917	34.930	1	+0.001	34.930	34.929	-0.001
							742P	810913	820601	261	820917	34.929	2				
153	6	214	51-00N	42-58W	7 22	4236	743P	810913	820601	261	820917	34.881	1	-0.009	34.886	34.884	-0.002
							744P	810913	820602	262	820917	34.890	2				
154	7	224	46-58N	43-04W	1 1	8	781P	810925	820219	147	820505	32.856	1		32.856	32.860	+0.004
155	7	225	46-55N	41-49W	3 1	15	783P	810926	820219	146	820505	33.272	1	-0.002	33.273	33.278	+0.005
							784P	810926	820223	150	820505	33.274	2				
156	7	226	46-42N	40-00W	3 1	11	501P	810926	820223	150	820505	34.653	1		34.653	34.657	+0.004
							502P	810926		2							
157	7	227	44-59N	42-02W	2 1	27	503P	810928	820224	149	820505	35.707	1	+0.001	35.708	35.720	+0.014
							504P	810928	820224	149	820505	35.706	2				
158	7	228	42-01N	42-00W	2 41	84	505P	810929	820503	216	820513	36.466	1	+0.000	36.466	36.471	+0.005
							506P	810929	820504	217	820513	36.466	2				
							579P	810929	820504	217	820513	36.428	1				
159	7	228	42-01N	42-00W	3 3	152	580P	810929	820504	217	820513	36.428	2	+0.000	36.428		
							507P	810929				36.415					
160	7	228	42-01N	42-00W	2 42	185	508P	810929	820505	218	820916	36.415	2		36.351	36.355	+0.004
							429P	810929	820505	218	820916	36.350	1				
161	7	228	42-01N	42-00W	3 4	251	430P	810929	820506	219	820916	36.351	2	-0.001	36.351	36.355	+0.004
							431P	810929	820506	219	820916	36.213	1				
162	7	228	42-01N	42-00W	3 5	302	432P	810929	820507	220	820916	36.213	2	+0.000	36.213	36.217	+0.004
							573P	810929	820507	220	820916	36.015	1				
163	7	228	42-01N	42-00W	2 43	379	574P	810929	820513	226	820916	36.015	2	+0.000	36.015	36.019	+0.004
							433P	810929	820513	226	820916	35.779	1				
164	7	228	42-01N	42-00W	3 6	499	434P	810929	820514	227	820916	36.767	2	-0.988	36.273	35.770	-0.503

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REC NO.	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SHORE DATA		DELTA ('1-2')	SAL AVG o/oo	'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)
												SAL o/oo	SEQ NO.				
165	7	228	42-01N	42-00W	2 44	679	575P	810929	820514	227	820916	35.423	1	+0.000	35.423	35.425	+0.002
							576P	810929	820518	231	820916	35.423	2				
166	7	228	42-01N	42-00W	2 46	975	577P	810929	820518	231	820916	35.039	1	-0.003	35.040	35.040	+0.000
							578P	810929	820518	231	820916	35.042	2				
167	7	228	42-01N	42-00W	4 41	2046	435P	810929	820519	232	820916	34.942	1	+0.003	34.941	34.941	+0.000
							436P	810929	820519	232	820916	34.939	2				
168	7	228	42-01N	42-00W	4 44	3046	821P	810929	820519	232	820916	34.946	1	-0.002	34.947	34.939	-0.008
							822P	810929	820520	233	820916	34.948	2				
169	7	228	42-01N	42-00W	4 46	4025	823P	810929	820520	233	820916	34.912	1	-0.004	34.914	34.911	-0.003
							824P	810929	820524	237	820916	34.916	2				
170	7	229	39-00N	44-00W	3 1	11	807P	811001	820412	193	820505	36.251	1	-0.002	36.252	36.256	+0.004
							808P	811001	820412	193	820513	36.253	2				
171	7	229	39-00N	44-00W	3 2	55	809P	811001	820413	194	820513	36.247	1	+0.000	36.247	36.263	+0.016
							810P	811001	820413	194	820513	36.247	2				
172	7	229	39-00N	44-00W	3 3	152	811P	811001	820414	195	820513	36.496	1	-0.001	36.496	36.501	+0.005
							812P	811001	820414	195	820513	36.496	2				
173	7	229	39-00N	44-00W	4 41	247	531P	811001	820414	195	820513	36.533	1	+0.120	36.473	36.415	-0.058
							532P	811001	820415	196	820513	36.413	2				
174	7	229	39-00N	44-00W	3 7	398	525P	811001	820415	196	820513	36.164	1	-0.001	36.164	36.166	+0.002
							526P	811001	820421	202	820513	36.165	2				
175	7	229	39-00N	44-00W	4 42	495	605P	811001	820421	202	820513	35.923	1	+0.001	35.922	35.923	+0.001
							606P	811001	820421	202	820513	35.922	2				
176	7	229	39-00N	44-00W	3 8	602	527P	811001	820422	203	820513	35.724	1	+0.000	35.724	35.726	+0.002
							528P	811001	820422	203	820513	35.724	2				
177	7	229	39-00N	44-00W	4 43	693	607P	811001	820426	207	820513	35.528	1	-0.002	35.529	35.530	+0.001
							608P	811001	820426	207	820513	35.530	2				
178	7	229	39-00N	44-00W	3 9	797	529P	811001	820427	208	820513	35.235	1	+0.000	35.235	35.236	+0.001
							530P	811001	820427	208	820513	35.235	2				
179	7	229	39-00N	44-00W	4 45	992	609P	811001	820428	209	820513	35.050	1	+0.000	35.050	35.051	+0.001
							610P	811001	820428	209	820513	35.050	2				
180	7	229	39-00N	44-00W	2 40	2073	825P	811001	820428	209	820513	34.974	1	+0.002	34.973	34.976	+0.003
							826P	811001	820429	210	820513	34.972	2				
181	7	229	39-00N	44-00W	2 43	3064	827P	811001	820429	210	820513	34.936	1	+0.000	34.936	34.942	+0.006
							828P	811001	820430	211	820513	34.936	2				
182	7	229	39-00N	44-00W	2 45	4056	805P	811001	820430	211	820513	34.895	1	+0.000	34.895	34.904	+0.009
							806P	811001	820503	214	820513	34.895	2				

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									EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SAL o/oo					
183	7	231	36-00N	47-01W	2 1	15	425P	811003	820310	158	820505	36.313	1	+0.000	36.313	36.322	+0.009
							426P	811003	820310	158	820505	36.313	2				
184	7	231	36-00N	47-01W	2 2	75	427P	811003	820311	159	820505	36.307	1	+0.000	36.307	36.307	+0.000
							428P	811003	820311	159	820505	36.307	2				
185	7	231	36-00N	47-01W	2 3	150	481P	811003	820312	160	820505	36.287	1	+0.000	36.287	36.300	+0.013
							482P	811003	820316	164	820505	36.287	2				
186	7	231	36-00N	47-01W	4 40	247	685P	811003	820316	164	820505	36.093	1	-0.006	36.096	36.093	-0.003
							686P	811003	820316	164	820505	36.099	2				
187	7	231	36-00N	47-01W	4 41	397	687P	811003	820317	165	820505	35.814	1	+0.000	35.814	35.817	+0.003
							688P	811003	820317	165	820505	35.814	2				
188	7	231	36-00N	47-01W	2 5	473	463P	811003	820318	166	820505	35.642	1	-0.001	35.642	35.647	+0.005
							464P	811003	820318	166	820505	35.643	2				
189	7	231	36-00N	47-01W	2 6	672	465P	811003	820323	171	820505	35.219	1	+0.000	35.219	35.220	+0.001
							466P	811003	820323	171	820505	35.219	2				
190	7	231	36-00N	47-01W	4 43	695	689P	811003	820324	172	820505	35.207	1	+0.000	35.207	35.209	+0.002
							690P	811003	820324	172	820505	35.207	2				
191	7	231	36-00N	47-01W	2 8	922	467P	811003	820325	173	820505	35.318	1	-0.002	35.319	35.324	+0.005
							468P	811003	820325	173	820505	35.320	2				
192	7	231	36-00N	47-01W	4 45	996	691P	811003	820325	173	820505	35.305	1	-0.011	35.310	35.307	-0.003
							692P	811003	820326	174	820505	35.318	2				
193	7	231	36-00N	47-01W	1 42	2093	611P	811003	820326	174	820505	34.974	1	+0.002	34.973	34.974	+0.001
							612P	811003	820329	177	820505	34.972	2				
194	7	231	36-00N	47-01W	1 44	3074	421P	811003	820329	177	820505	34.928	1	+0.000	34.928	34.930	+0.002
							422P	811003	820330	178	820505	34.928	2				
195	7	231	36-00N	47-01W	1 46	4060	423P	811003	820331	179	820505	34.892	1	+0.000	34.892	34.898	+0.004
							424P	811003	820331	179	820505	34.892	2				
196	7	233	33-55N	49-35W	1 1	6	373P	811004	820225	144	820505	36.603	1	+0.000	36.603	36.606	+0.003
							374P	811004	820225	144	820505	36.603	2				
197	7	234	31-45N	50-45W	4 40	8	535P	811005	820226	144	820505	36.439	1	+0.000	36.439	36.439	+0.000
							536P	811005	820226	144	820505	36.439	2				
198	7	234	31-45N	50-45W	4 41	98	537P	811005	820301	147	820505	36.527	1	+0.000	36.527	36.526	-0.001
							538P	811005	820301	147	820505	36.527	2				
199	7	234	31-45N	50-45W	2 2	159	375P	811005	820302	148	820505	36.455	1	+0.000	36.455	36.455	+0.000
							376P	811005	820302	148	820505	36.455	2				
200	7	234	31-45N	50-45W	4 42	243	539P	811005	820303	149	820505	36.396	1	+0.000	36.396	36.395	-0.001
							540P	811005	820303	149	820505	36.396	2				

BOTTLE TYPE:

P = PYREX

DATES:

'SAMPLE DATE' IS DATE OF THE DIC AND SHIPBOARD SALINITY SAMPLE

'EXTRACTION DATE' IS DATE OF DIC EXTRACTION AND DATE OF

SUBSAMPLE FOR 'SHORE' SALINITY

'ANALYSIS DATE' IS DATE OF 'SHORE' SALINITY ANALYSIS BY P&CODF

STORAGE:

E-S = (DIC EXTRACTION DATE - DIC SAMPLE DATE), IN DAYS

FLAGS:

* = ERROR IN SAMPLE MANIPULATION

** = POSSIBLE LEAK IN SALINITY BOTTLE

*** = PROBABLE LEAK IN SALINITY BOTTLE, CRACKED OR BROKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 9 (CONT.). COMPARISON OF SALINITY DATA FOR SUBSAMPLES TAKEN SHIPBOARD AND ON SHORE

REC NO.	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE BOTTLE	SAMPLE DATE	EXTRAC DATE	STORAGE (E-S)	ANALYS. DATE	SHORE DATA		DELTA ('1-2')	SAL AVG o/oo	'SHIPBD' SAL o/oo	DELTA (SHIP SHORE)
												SAL o/oo	SEQ NO.				
201	7	234	31-45N	50-45W	4 43	387	678P	811005	820303	149	820505	36.158	1	+0.000	36.158	36.155	-0.001
							679P	811005	820304	150	820505	36.158	2				
202	7	234	31-45N	50-45W	2 4	452	377P	811005	820304	150	820505	36.025	1	+0.000	36.025	36.028	+0.001
							378P	811005	820305	151	820505	36.025	2				
203	7	234	31-45N	50-45W	4 44	529	680P	811005	820305	151	820505	35.753	1	+0.000	35.753	35.753	+0.000
							684P	811005	820307	153	820505	35.753	2				
204	7	234	31-45N	50-45W	2 5	596	380P	811005	820308	154	820505	35.597	2		35.597	35.597	+0.000
							379P	811005					1				
205	7	234	31-45N	50-45W	2 6	750	533P	811005	820309	155	820505	35.198	1	+0.002	35.197	35.199	+0.002
							534P	811005	820309	155	820505	35.198	2				
206	7	248	43-01N	59-35W	1 1	7	682P	811016	820310	145	820505	32.186	1	+0.002	32.185	32.170	+0.005
							683P	811016	820310	145	820505	32.184	2				

BOTTLE TYPE:

P = PYREX

DATES:

'SAMPLE DATE' IS DATE OF THE DIC AND SHIPBOARD SALINITY SAMPLE

'EXTRACTION DATE' IS DATE OF DIC EXTRACTION AND DATE OF SUBSAMPLE FOR 'SHORE' SALINITY

'ANALYSIS DATE' IS DATE OF 'SHORE' SALINITY ANALYSIS BY P&CODF

STORAGE:

E-S = (DIC EXTRACTION DATE - DIC SAMPLE DATE), IN DAYS

FLAGS:

Δ = ERROR IN SAMPLE MANIPULATION

* = POSSIBLE LEAK IN SALINITY BOTTLE

** = PROBABLE LEAK IN SALINITY BOTTLE, CRACKED OR BROKEN

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10. CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE	PRELIMINARY			DIC uM/kg	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP. NO.
					LATITUDE	LONGITUDE	DEPTH (M)						
K81-214	TTNA	WS	445P	24APR81	23-18 N	64-09 W	12	2028.39	15JUN81	04AUG81	+1.59	-0.95	36
K81-215	TTNA	WS	446P	24APR81	23-18 N	64-09 W	12	2019.47	15JUN81	04AUG81	+1.64	-0.83	36
K81-216	TTNA	WS	447P	26APR81	20-47 N	62-14 W	11	2000.05	16JUN81	04AUG81	+1.83	-1.37	36
K81-217	TTNA	WS	450P	27APR81	18-06 N	60-38 W	12	1971.82	16JUN81	05AUG81	+1.76	-1.13	36
K81-218	TTNA	WS	451P	28APR81	17-07 N	59-31 W	11	1974.24	17JUN81	05AUG81	+1.89	-1.11	36
K81-219	TTNA	WS	452P	28APR81	17-07 N	59-31 W	11	1974.70	17JUN81	05AUG81	+1.91	-1.07	36
K81-220	TTNA	WS	493P	30APR81	15-05 N	53-55 W	11	1917.58	18JUN81	05AUG81	+1.78	-2.33	36
K81-221	TTNA	WS	494P	30APR81	15-05 N	53-55 W	11	1920.40	18JUN81	05AUG81	+1.87	-0.93	36
K81-222	TTNA	WS	495P	30APR81	15-05 N	53-55 W	U 4	1918.89	19JUN81	05AUG81	+1.80	-0.89	36
K81-223	TTNA	WS	496P	30APR81	15-05 N	53-55 W	U 4	1919.01	19JUN81	05AUG81	+1.74	-1.31	36
K81-224	TTNA	WS	497P	1MAY81	15-08 N	53-55 W	3993	2172.84	22JUN81	05AUG81	+0.95	-1.39	36
K81-225	TTNA	WS	498P	1MAY81	15-08 N	53-55 W	3993	2172.63	22JUN81	05AUG81	+1.01	-1.24	36
K81-226	TTNA	WS	499P	1MAY81	15-05 N	53-55 W	99	2065.32	23JUN81	05AUG81	+1.81	-0.56	36
K81-227	TTNA	WS	500P	1MAY81	15-05 N	53-55 W	99	2086.25	23JUN81	05AUG81	+1.77	-0.97	36
K81-228	TTNA	WS	599P	5MAY81	23-50 N	54-00 W	U 4	2044.23	26JUN81	05AUG81	+1.75	-0.81	36
K81-230	TTNA	WL	309P	2APR81	39-48 N	70-05 W	10	2092.00	28MAY81	28JUL81	+1.20	-1.00	37
K81-231	TTNA	WL	310P	2APR81	39-48 N	70-05 W	10	2097.69	28MAY81	28JUL81	+1.15	-0.56	37
K81-232	TTNA	WL	311P	3APR81	38-16 N	69-09 W	12	2101.22	01JUN81	28JUL81	+1.20	-3.23	37
K81-233	TTNA	WL	312P	3APR81	38-16 N	69-09 W	12	2101.17	01JUN81	28JUL81	+1.13	-0.61	37
K81-234	TTNA	WL	313P	5APR81	35-59 N	68-00 W	10	2026.61	02JUN81	28JUL81	+1.67	+0.02	37
K81-235	TTNA	WL	314P	5APR81	35-59 N	68-00 W	10	2025.68	02JUN81	28JUL81	+1.70	-0.51	37
K81-236	TTNA	WL	315P	6APR81	34-39 N	67-21 W	11	2021.68	03JUN81	28JUL81	+1.66	-0.22	37
K81-237	TTNA	WL	316P	6APR81	34-39 N	67-21 W	11	2020.75	03JUN81	28JUL81	+1.70	-0.11	37
K81-238	TTNA	WL	318P	7APR81	31-40 N	68-29 W	12	2056.28	04JUN81	29JUL81	+1.50	-0.55	37
K81-239	TTNA	WL	319P	9APR81	31-20 N	71-30 W	12	2050.82	04JUN81	29JUL81	+1.55	-1.25	37
K81-240	TTNA	WL	320P	9APR81	31-20 N	71-30 W	12	2051.50	08JUN81	29JUL81	.	.	37
K81-241	TTNA	WL	321P	10APR81	30-50 N	74-03 W	7	2050.32	08JUN81	29JUL81	+1.56	-0.11	37
K81-242	TTNA	WL	322P	10APR81	30-50 N	74-03 W	7	2050.06	09JUN81	29JUL81	+1.48	-0.90	37
K81-243	TTNA	WL	324P	10APR81	29-55 N	77-21 W	9	2012.21	09JUN81	29JUL81	+1.67	-0.84	37
K81-244	TTNA	WL	341P	17APR81	25-36 N	76-21 W	11	2030.44	10JUN81	29JUL81	+1.68	-0.53	37
K81-245	TTNA	WL	342P	17APR81	25-36 N	76-21 W	11	2030.10	10JUN81	29JUL81	+1.65	-0.79	37
K81-246	TTNA	WL	343P	19APR81	22-51 N	73-07 W	13	2011.94	10JUN81	29JUL81	+1.67	-1.34	37
K81-247	TTNA	WL	344P	19APR81	22-51 N	73-07 W	13	2012.63	10JUN81	29JUL81	+1.69	-0.93	37
K81-248	TTNA	WL	345P	21APR81	25-45 N	70-24 W	13	2036.03	11JUN81	29JUL81	+1.63	-0.18	37
K81-249	TTNA	WL	346P	21APR81	25-45 N	70-24 W	13	2035.23	11JUN81	29JUL81	+1.68	-0.26	37

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)
*** = NO ANALYSIS

BOTTLE TYPE:

P = PYREX

DEPTH:

U = UNDERWAY SAMPLE
SP = SURFACE PUMP SAMPLE

NOTES:

OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH
SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE
DATE OF ANALYSIS IS DATE OF ISOTOPE ANALYSIS BY W. MOOK

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10 (CONT.). CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE	LATITUDE	LONGITUDE	DEPTH (M)	DIC $\mu\text{M/kg}$	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP. NO.
K81-250	TTNA	WL	347P	23APR81	25-47 N	66-00 W	13	2024.16	12 JUN81	29 JUL81	+1.66	-0.31	37
K81-251	TTNA	WL	348P	23APR81	25-47 N	66-00 W	13	2022.82	12 JUN81	29 JUL81	+1.68	-1.92	37
K81-252	TTNA	WL	566P	1MAY81	15-05 N	53-55 W	152	2112.06	24 JUN81	29 JUL81	+1.27	+0.10	37
K81-274	TTNA	WL	565P	1MAY81	15-05 N	53-55 W	152	2119.52	24 JUN81	10 SEP81	.	.	39 ***
K81-276	TTNA	WL	601P	5MAY81	23-50 N	53-55 W	11	2043.04	29 JUN81	10 SEP81	+1.81	-0.94	39
K81-277	TTNA	WL	602P	5MAY81	23-50 N	53-55 W	11	2043.21	29 JUN81	10 SEP81	+1.85	-0.72	39
K81-278	TTNA	WL	603P	5MAY81	23-50 N	53-55 W	48	2043.04	29 JUN81	10 SEP81	+1.86	-0.42	39
K81-279	TTNA	WL	604P	5MAY81	23-50 N	54-00 W	48	2041.37	30 JUN81	10 SEP81	+1.85	-0.62	39
K81-280	TTNA	WL	382P	5MAY81	23-50 N	54-00 W	106	2058.24	01 JUL81	10 SEP81	+1.77	-0.39	39
K81-281	TTNA	WL	384P	5MAY81	23-50 N	54-00 W	273	2087.45	01 JUL81	10 SEP81	+1.23	-0.63	39
K81-282	TTNA	WL	385P	5MAY81	23-50 N	54-00 W	355	2093.32	08 JUL81	10 SEP81	+1.23	-1.43	39
K81-283	TTNA	WL	386P	5MAY81	23-50 N	54-00 W	355	2096.33	08 JUL81	14 SEP81	+1.23	+0.04	39
K81-284	TTNA	WL	387P	5MAY81	23-50 N	54-00 W	693	2169.41	07 JUL81	14 SEP81	+0.86	-1.23	39
K81-285	TTNA	WL	388P	5MAY81	23-50 N	54-00 W	693	2169.94	07 JUL81	14 SEP81	+0.80	-0.37	39
K81-286	TTNA	WL	389P	5MAY81	23-50 N	54-00 W	992	2197.27	08 JUL81	14 SEP81	+0.70	-1.80	39
K81-287	TTNA	WL	390P	5MAY81	23-50 N	54-00 W	992	2198.04	08 JUL81	14 SEP81	+0.75	-1.33	39
K81-288	TTNA	WL	391P	5MAY81	23-50 N	54-00 W	1958	2170.50	09 JUL81	14 SEP81	+1.02	-1.74	39
K81-289	TTNA	WL	392P	5MAY81	23-50 N	54-00 W	1958	2171.07	09 JUL81	14 SEP81	+1.07	-1.25	39
K81-290	TTNA	WL	393P	5MAY81	23-50 N	54-00 W	2841	2180.19	10 JUL81	14 SEP81	+1.00	-0.98	39
K81-291	TTNA	WL	394P	5MAY81	23-50 N	54-00 W	2841	2179.77	10 JUL81	14 SEP81	+0.96	-1.08	39
K81-292	TTNA	WL	395P	5MAY81	23-50 N	54-00 W	3747	2184.90	13 JUL81	14 SEP81	+0.97	-0.91	39
K81-293	TTNA	WL	396P	5MAY81	23-50 N	54-00 W	3747	3184.51	13 JUL81	14 SEP81	+0.97	-0.76	39
K81-294	TTNA	WL	567P	1MAY81	15-05 N	53-55 W	253	2155.61	20 JUL81	14 SEP81	+0.82	-1.16	39
K81-295	TTNA	WL	568P	1MAY81	15-05 N	53-55 W	253	2155.52	20 JUL81	14 SEP81	+0.74	-2.53	39
K81-296	TTNA	WL	569P	1MAY81	15-05 N	53-55 W	352	2187.20	21 JUL81	14 SEP81	+0.60	-0.78	39
K81-297	TTNA	WL	570P	1MAY81	15-05 N	53-55 W	352	2187.77	21 JUL81	14 SEP81	+0.56	-1.41	39
K81-316	TTNA	WL	571P	1MAY81	15-05 N	53-55 W	749	2219.27	22 JUL81	23 OCT81	+0.59	-1.36	41
K81-317	TTNA	WL	572P	1MAY81	15-05 N	53-55 W	749	2220.51	22 JUL81	23 OCT81	+0.60	-1.72	41
K81-318	TTNA	WL	485P	1MAY81	15-05 N	53-55 W	1097	2207.44	22 JUL81	23 OCT81	+0.85	-0.85	41
K81-319	TTNA	WL	486P	1MAY81	15-05 N	53-55 W	1097	2206.63	23 JUL81	23 OCT81	+0.74	-1.64	41
K81-320	TTNA	WL	487P	1MAY81	15-05 N	53-55 W	1982	2160.46	23 JUL81	23 OCT81	+0.37	-2.37	41
K81-321	TTNA	WL	488P	1MAY81	15-05 N	53-55 W	1982	2160.53	23 JUL81	23 OCT81	+1.03	-0.79	41
K81-322	TTNA	WL	489P	1MAY81	15-05 N	53-55 W	2970	2175.37	27 JUL81	23 OCT81	.	.	41 ***
K81-323	TTNA	WL	490P	1MAY81	15-05 N	53-55 W	2970	2175.42	27 JUL81	23 OCT81	+1.02	-1.68	41
K81-324	TTNA	WL	491P	2MAY81	18-02 N	53-57 W	8	1946.93	28 JUL81	23 OCT81	+1.85	-1.27	41

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10 (CONT.). CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE	..... PRELIMINARY			DIC µM/kg	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP. NO.
					LATITUDE	LONGITUDE	DEPTH (M)						
K81-325	TTNA	WL	492P	2MAY81	18-02 N	53-57 W	8	1946.80	28JUL81	26OCT81	+1.86	-1.27	41
K81-326	TTNA	WL	477P	2MAY81	18-02 N	53-57 W	U 4	1946.04	29JUL81	28OCT81	+1.93	-0.63	41
K81-327	TTNA	WL	478P	2MAY81	18-02 N	53-57 W	U 4	1946.12	29JUL81	28OCT81	+1.88	-0.59	41
K81-328	TTNA	WL	479P	2MAY81	18-02 N	53-57 W	71	2033.07	29JUL81	28OCT81	+1.96	-0.57	41
K81-329	TTNA	WL	480P	2MAY81	18-02 N	53-57 W	71	2033.47	30JUL81	28OCT81	+1.96	-0.79	41
K81-330	TTNA	WL	481P	2MAY81	18-02 N	53-57 W	146	2094.58	30JUL81	27OCT81	+1.43	-0.32	41
K81-331	TTNA	WL	482P	2MAY81	18-02 N	53-57 W	146	2093.22	31JUL81	27OCT81	+1.47	-0.44	41
K81-332	TTNA	WL	483P	2MAY81	18-02 N	53-57 W	247	2117.87	31JUL81	27OCT81	+1.08	-1.12	41
K81-333	TTNA	WL	484P	2MAY81	18-02 N	53-57 W	247	2118.20	08SEP81	27OCT81	+1.10	-1.22	41
K81-334	TTNA	WL	581P	2MAY81	18-02 N	53-57 W	346	2145.16	08SEP81	27OCT81	+0.80	-0.84	41
K81-335	TTNA	WL	582P	2MAY81	18-02 N	53-57 W	346	2143.94	09SEP81	27OCT81	+0.86	-1.33	41
K81-336	TTNA	WL	583P	2MAY81	18-02 N	53-57 W	667	2206.95	09SEP81	27OCT81	+0.72	-0.85	41
K81-337	TTNA	WL	584P	2MAY81	18-02 N	53-57 W	667	2207.32	10SEP81	27OCT81	+0.56	-1.38	41
K81-338	TTNA	WL	585P	2MAY81	18-02 N	53-57 W	962	2212.14	10SEP81	27OCT81	+0.68	-1.12	41
K81-339	TTNA	WL	586P	2MAY81	18-02 N	53-57 W	962	2212.36	11SEP81	27OCT81	+0.68	-1.48	41
K81-340	TTNA	WL	587P	2MAY81	18-02 N	53-57 W	1975	2165.57	11SEP81	27OCT81	+0.94	-1.45	41
K81-341	TTNA	WL	588P	2MAY81	18-02 N	53-57 W	1975	2165.30	15SEP81	27OCT81	+0.91	-1.09	41
K81-361	TTNA	WS	629P	2MAY81	18-02 N	53-57 W	2951	2177.47	15SEP81	11NOV81	+1.00	-0.99	43
K81-362	TTNA	WS	630P	2MAY81	18-02 N	53-57 W	2951	2178.81	16SEP81	11NOV81	+1.00	-1.93	43
K81-363	TTNA	WS	631P	2MAY81	18-02 N	53-57 W	3928	2188.46	16SEP81	11NOV81	+0.94	-0.84	43
K81-364	TTNA	WS	632P	2MAY81	18-02 N	53-57 W	3928	2192.45	17SEP81	11NOV81	+0.86	-1.25	43
K81-365	TTNA	WS	633P	3MAY81	21-00 N	53-54 W	365	2108.60	17SEP81	11NOV81	+1.10	-1.00	43
K81-366	TTNA	WS	634P	3MAY81	21-00 N	53-54 W	365	2110.33	17SEP81	12NOV81	+1.06	-0.37	43
K81-367	TTNA	WS	363P	4MAY81	21-00 N	53-54 W	U 4	2006.03	18SEP81	11NOV81	+1.91	-1.74	43
K81-368	TTNA	WS	364P	4MAY81	21-00 N	53-54 W	U 4	2003.67	18SEP81	11NOV81	+1.93	-1.46	43
K81-369	TTNA	WS	635P	3MAY81	21-00 N	53-54 W	994	2199.82	21SEP81	12NOV81	+0.73	-1.29	43
K81-370	TTNA	WS	636P	3MAY81	21-00 N	53-54 W	994	2199.73	21SEP81	12NOV81	+0.67	-1.67	43
K81-371	TTNA	WS	357P	3MAY81	21-00 N	53-54 W	1973	2168.33	22SEP81	12NOV81	+1.02	-0.83	43
K81-372	TTNA	WS	358P	3MAY81	21-00 N	53-54 W	1973	2168.80	22SEP81	12NOV81	+1.00	-0.67	43
K81-373	TTNA	WS	359P	3MAY81	21-00 N	53-54 W	2925	2175.59	23SEP81	12NOV81	+0.97	-0.96	43
K81-374	TTNA	WS	360P	3MAY81	21-00 N	53-54 W	2925	2174.66	23SEP81	12NOV81	+1.03	-0.76	43
K81-375	TTNA	WS	549P	4MAY81	21-00 N	53-54 W	10	2003.90	24SEP81	12NOV81	+1.89	-0.45	43
K81-376	TTNA	WS	550P	4MAY81	21-00 N	53-54 W	10	2003.86	24SEP81	12NOV81	+1.86	-0.45	43
K81-377	TTNA	WS	361P	3MAY81	21-00 N	53-54 W	3899	2174.97	25SEP81	12NOV81	+1.00	-1.73	43
K81-378	TTNA	WS	551P	3MAY81	21-00 N	53-54 W	70	2022.16	28SEP81	12NOV81	+1.80	-0.86	43

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NOTES:

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10 (CONT.). CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE	LATITUDE	LONGITUDE	DEPTH (M)	DIC $\mu\text{M/kg}$	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP. NO.
K81-379	TTNA	WS	552P	3MAY81	21-00 N	53-54 W	70	2031.86	28SEP81	12NOV81	+1.67	-0.90	43
K81-380	TTNA	WS	553P	3MAY81	21-00 N	53-54 W	159	2085.71	29SEP81	12NOV81	+1.37	-0.33	43
K81-381	TTNA	WS	554P	4MAY81	21-00 N	53-54 W	159	2085.08	29SEP81	18NOV81	+1.37	-0.64	44
K81-382	TTNA	WS	555P	4MAY81	21-00 N	53-54 W	239	2093.18	29SEP81	18NOV81	+1.28	-0.92	44
K81-383	TTNA	WS	556P	4MAY81	21-00 N	53-54 W	239	2095.08	30SEP81	18NOV81	+1.23	-0.58	44
K81-384	TTNA	WS	597P	4MAY81	21-00 N	53-54 W	676	2188.84	30SEP81	18NOV81	+0.76	-0.49	44
K81-385	TTNA	WS	598P	4MAY81	21-00 N	53-54 W	676	2191.61	01OCT81	18NOV81	+0.73	-1.03	44
K81-386	TTNA	WS	437P	6MAY81	25-20 N	55-52 W	11	2032.39	01OCT81	18NOV81	+1.85	-0.68	44
K81-387	TTNA	WS	438P	6MAY81	25-20 N	55-52 W	11	2032.20	05OCT81	19NOV81	+1.69	-1.35	44
K81-388	TTNA	WS	439P	6MAY81	25-20 N	55-52 W	11	2032.22	05OCT81	19NOV81	.	.	44 ***
K81-389	TTNA	WS	440PA	8MAY81	27-27 N	58-32 W	7	2037.83	06OCT81	19NOV81	+1.68	-0.51	44
K81-390	TTNA	WS	440PB	8MAY81	27-27 N	58-32 W	7	2037.47	06OCT81	19NOV81	+1.59	-0.72	44
K81-391	TTNA	WS	441PA	8MAY81	27-27 N	58-32 W	7	2038.88	07OCT81	19NOV81	+1.64	-0.71	44
K81-392	TTNA	WS	441PB	8MAY81	27-27 N	58-32 W	7	2037.82	07OCT81	19NOV81	+1.73	-1.56	44
K81-393	TTNA	WS	442PA	9MAY81	29-43 N	01-18 W	13	2048.90	08OCT81	24NOV81	+1.71	-0.12	44
K81-394	TTNA	WS	442PB	9MAY81	29-43 N	01-18 W	13	2048.27	08OCT81	24NOV81	+1.60	-0.13	44
K81-395	TTNA	WS	443PA	9MAY81	29-43 N	01-18 W	13	2047.50	09OCT81	24NOV81	.	.	44 ***
K81-396	TTNA	WS	443PB	9MAY81	29-43 N	01-18 W	13	2047.43	09OCT81	24NOV81	+1.78	-0.00	44
K81-415	TTNA	WS	280PA	23OCT80	31-48 N	50-46 W	2750	2168.82	22OCT81	21DEC81	+1.03	-1.79	45
K81-416	TTNA	WS	280PB	23OCT80	31-48 N	50-46 W	2750	2169.18	22OCT81	21DEC81	+1.03	-0.57	45
K81-417	TTNA	WS	284PA	23OCT80	31-48 N	50-46 W	3667	2171.80	23OCT81	21DEC81	+1.06	-0.75	45
K81-418	TTNA	WS	284PB	23OCT80	31-48 N	50-46 W	3667	2171.94	23OCT81	21DEC81	+1.03	-0.47	45
K81-419	TTNA	WS	288PA	23OCT80	31-48 N	50-46 W	4125	2175.85	27OCT81	21DEC81	+0.99	-0.58	45
K81-420	TTNA	WS	288PB	23OCT80	31-48 N	50-46 W	4125	2175.98	27OCT81	21DEC81	+1.02	-0.57	45
K82-100	TTNA	WS	277PA	23OCT80	31-48 N	50-46 W	2612	2168.34	03FEB82	29MAR82	+0.95	-0.61	53
K82-101	TTNA	WS	277PB	23OCT80	31-48 N	50-46 W	2612	2168.40	03FEB82	29MAR82	+0.98	-0.03	53
K82-102	TTNA	WS	282PA	23OCT80	31-48 N	50-46 W	3209	2171.01	04FEB82	29MAR82	+1.01	-1.18	53
K82-103	TTNA	WS	282PB	23OCT80	31-48 N	50-46 W	3209	2171.72	04FEB82	29MAR82	+0.98	-0.79	53
K82-104	TTNA	WS	286PA	23OCT80	31-48 N	50-46 W	3675	2172.36	05FEB82	29MAR82	+0.90	-0.03	53
K82-105	TTNA	WS	286PB	23OCT80	31-48 N	50-46 W	3675	2171.80	05FEB82	29MAR82	+1.06	+0.02	53
K82-106	TTNA	WS	761P	25SEP81	46-56 N	43-04 W	8	1980.96	19FEB82	29MAR82	+2.30	-1.40	53
K82-107	TTNA	WS	763P	26SEP81	46-55 N	41-48 W	15	1976.31	19FEB82	29MAR82	.	.	53 ***
K82-108	TTNA	WS	764P	26SEP81	46-55 N	41-48 W	15	1977.33	23FEB82	29MAR82	+2.22	-1.99	53
K82-109	TTNA	WS	501P	26SEP81	46-42 N	40-00 W	11	1998.30	23FEB82	29MAR82	+1.91	-0.77	53
K82-110	TTNA	WS	503P	28SEP81	44-58 N	42-01 W	27	2029.12	24FEB82	29MAR82	+1.71	-1.06	53

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NOTES:

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TABLE 10 (CONT.). CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE	PRELIMINARY			DIC µM/kg	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP. NO.
					LATITUDE	LONGITUDE	DEPTH (M)						
K82-111	TTNA	WS	504P	28SEP81	44-58 N	42-01 W	27	2028.76	24FEB82	29MAR82	+1.69	-0.86	53
K82-132	TTNA	WL	374P	40CT81	33-55 N	49-35 W	6	2032.49	25FEB82	22APR82	.	.	55 ***
K82-133	TTNA	WL	536P	50CT81	31-49 N	50-44 W	8	2023.46	26FEB82	22APR82	+1.87	-0.13	55
K82-134	TTNA	WL	537P	50CT81	31-49 N	50-44 W	98	2052.92	01MAR82	22APR82	+1.58	-0.68	55
K82-135	TTNA	WL	375P	50CT81	31-49 N	50-44 W	159	2084.48	02MAR82	22APR82	+1.28	-0.51	55
K82-136	TTNA	WL	376P	50CT81	31-49 N	50-44 W	159	2084.92	02MAR82	22APR82	+1.44	+0.09	55
K82-137	TTNA	WL	540P	50CT81	31-49 N	50-44 W	243	2083.35	03MAR82	22APR82	+1.29	+0.73	55
K82-138	TTNA	WL	678P	50CT81	31-49 N	50-44 W	387	2105.85	03MAR82	22APR82	+1.28	+0.30	55
K82-139	TTNA	WL	679P	50CT81	31-49 N	50-44 W	387	2105.27	04MAR82	22APR82	+1.29	+0.19	55
K82-140	TTNA	WL	377P	50CT81	31-49 N	50-44 W	452	2113.92	04MAR82	22APR82	+1.22	+0.37	55
K82-141	TTNA	WL	378P	50CT81	31-49 N	50-44 W	452	2113.84	05MAR82	22APR82	+1.20	-0.11	55
K82-142	TTNA	WL	680P	50CT81	31-49 N	50-44 W	529	2129.38	05MAR82	22APR82	+1.14	+0.08	55
K82-143	TTNA	WL	684P	50CT81	31-49 N	50-44 W	529	2129.07	07MAR82	22APR82	+1.14	-0.58	55
K82-144	TTNA	WL	380P	50CT81	31-49 N	50-44 W	598	2146.82	08MAR82	22APR82	+1.07	-0.22	55
K82-145	TTNA	WL	533P	50CT81	31-49 N	50-44 W	750	2179.15	09MAR82	22APR82	+0.91	-0.65	55
K82-146	TTNA	WL	534P	50CT81	31-49 N	50-44 W	750	2179.08	09MAR82	22APR82	+0.84	-0.53	55
K82-147	TTNA	WL	683P	160CT81	43-00 N	59-35 W	7	1959.37	10MAR82	22APR82	+2.14	-2.20	55
K82-148	TTNA	WL	425P	30CT81	35-59 N	46-59 W	15	2024.30	10MAR82	23APR82	+1.74	-0.52	55
K82-149	TTNA	WL	426P	30CT81	35-59 N	46-59 W	15	2022.51	10MAR82	23APR82	+1.80	-0.31	55
K82-150	TTNA	WL	427P	30CT81	35-59 N	46-59 W	75	2064.89	11MAR82	23APR82	+1.48	-0.78	55
K82-151	TTNA	WL	428P	30CT81	35-59 N	46-59 W	75	2085.78	11MAR82	23APR82	+1.44	-0.28	55
K82-152	TTNA	WL	461P	30CT81	35-59 N	46-59 W	151	2087.94	12MAR82	23APR82	+1.22	-0.84	55
K82-153	TTNA	WL	462P	30CT81	35-59 N	46-59 W	151	2088.72	12MAR82	23APR82	+1.22	-1.00	55
K82-154	TTNA	WL	682P	160CT81	43-00 N	59-35 W	7	1959.56	12MAR82	23APR82	+2.11	-2.27	55
K82-155	TTNA	WL	685P	30CT81	35-59 N	46-59 W	247	2099.80	16MAR82	23APR82	+1.23	+0.07	55
K82-196	TTNA	WL	686P	30CT81	35-59 N	46-59 W	247	2098.93	18MAR82	21JUN82	+1.05	-0.59	58
K82-197	TTNA	WL	687P	30CT81	35-59 N	46-59 W	397	2120.37	17MAR82	21JUN82	+0.96	-0.74	58
K82-198	TTNA	WL	463P	30CT81	35-59 N	46-59 W	473	2136.49	18MAR82	23JUN82	+0.90	-0.44	58
K82-199	TTNA	WL	465P	30CT81	35-59 N	46-59 W	672	2176.75	23MAR82	23JUN82	+0.70	-0.49	58
K82-200	TTNA	WL	689P	30CT81	35-59 N	46-59 W	695	2178.10	24MAR82	23JUN82	+0.76	-1.10	58
K82-201	TTNA	WL	467P	30CT81	35-59 N	46-59 W	922	2176.33	25MAR82	21JUN82	+0.78	-1.22	58
K82-202	TTNA	WL	691P	30CT81	35-59 N	46-59 W	996	2174.80	25MAR82	21JUN82	+0.86	-0.17	58
K82-203	TTNA	WL	611P	30CT81	35-59 N	46-59 W	2093	2156.51	26MAR82	23JUN82	+1.07	-0.63	58
K82-204	TTNA	WL	421P	30CT81	35-59 N	46-59 W	3074	2164.84	29MAR82	21JUN82	+1.04	-0.42	58
K82-205	TTNA	WL	423P	30CT81	35-59 N	46-59 W	4060	2172.52	31MAR82	23JUN82	+0.99	-1.00	58

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					LATITUDE	LONGITUDE	DEPTH (M)						
K82-206	TTNA	WL	807P	10CT81	38-59 N	44-00 W	11	2023.99	12APR82	23JUN82	+1.64	-0.61	58
K82-207	TTNA	WL	809P	10CT81	38-59 N	44-00 W	55	2032.08	13APR82	23JUN82	+1.64	-0.60	58
K82-208	TTNA	WL	811P	10CT81	38-59 N	44-00 W	152	2078.06	14APR82	23JUN82	+1.22	-0.89	58
K82-209	TTNA	WL	531P	10CT81	38-59 N	44-00 W	247	2082.32	14APR82	23JUN82	+1.31	+0.24	58
K82-210	TTNA	WL	525P	10CT81	38-59 N	44-00 W	398	2102.82	15APR82	23JUN82	+1.09	-0.60	58
K82-211	TTNA	WL	605P	10CT81	38-59 N	44-00 W	495	2114.10	21APR82	23JUN82	+1.01	-0.98	58
K82-212	TTNA	WL	527P	10CT81	38-59 N	44-00 W	602	2119.25	22APR82	23JUN82	+0.97	-1.42	58
K82-213	TTNA	WL	607P	10CT81	38-59 N	44-00 W	693	2143.07	26APR82	23JUN82	+0.92	-1.52	58
K82-214	TTNA	WL	529P	10CT81	38-59 N	44-00 W	797	2173.26	27APR82	23JUN82	+0.77	-0.74	58
K82-215	TTNA	WL	609P	10CT81	38-59 N	44-00 W	992	2170.98	28APR82	23JUN82	+0.70	-1.11	58
K82-216	TTNA	WL	825P	10CT81	38-59 N	44-00 W	2073	2154.62	28APR82	23JUN82	+0.83	-0.44	58
K82-217	TTNA	WL	827P	10CT81	38-59 N	44-00 W	3064	2158.31	29APR82	23JUN82	+0.95	-0.30	58
K82-218	TTNA	WL	805P	10CT81	38-59 N	44-00 W	4058	2166.92	30APR82	23JUN82	+0.95	-0.54	58
K82-219	TTNA	WL	505P	29SEP81	42-00 N	42-00 W	84	2082.44	03MAY82	23JUN82	+1.05	-0.55	58
K82-220	TTNA	WF	464P	30CT81	35-59 N	46-59 W	473	2135.48	18MAR82	24JUN82	+0.89	-0.44	59
K82-221	TTNA	WF	468P	30CT81	35-59 N	46-59 W	672	2176.91	23MAR82	24JUN82	.	.	59 ***
K82-222	TTNA	WF	690P	30CT81	35-59 N	46-59 W	695	2178.35	24MAR82	24JUN82	+1.11	-0.63	59
K82-223	TTNA	WF	468P	30CT81	35-59 N	46-59 W	922	2179.20	25MAR82	24JUN82	+1.14	-0.80	59
K82-224	TTNA	WF	692P	30CT81	35-59 N	46-59 W	996	2174.90	26MAR82	24JUN82	+0.82	-0.53	59
K82-225	TTNA	WF	422P	30CT81	35-59 N	46-59 W	3074	2183.79	30MAR82	24JUN82	+0.99	-0.18	59
K82-226	TTNA	WF	424P	30CT81	35-59 N	46-59 W	4080	2172.84	31MAR82	24JUN82	+1.02	-0.78	59
K82-227	TTNA	WF	808P	10CT81	38-59 N	44-00 W	11	2023.74	12APR82	24JUN82	+1.70	-0.57	59
K82-228	TTNA	WF	810P	10CT81	38-59 N	44-00 W	55	2032.72	13APR82	24JUN82	.	.	59 ***
K82-229	TTNA	WF	812P	10CT81	38-59 N	44-00 W	152	2078.02	14APR82	24JUN82	+1.26	-0.32	59
K82-230	TTNA	WF	532P	10CT81	38-59 N	44-00 W	247	2085.70	15APR82	24JUN82	+1.16	-0.67	59
K82-231	TTNA	WF	526P	10CT81	38-59 N	44-00 W	398	2103.07	21APR82	24JUN82	+1.11	-0.84	59
K82-232	TTNA	WF	606P	10CT81	38-59 N	44-00 W	495	2113.10	21APR82	24JUN82	+0.95	+0.03	59
K82-233	TTNA	WF	528P	10CT81	38-59 N	44-00 W	602	2118.73	22APR82	24JUN82	+1.05	-0.52	59
K82-234	TTNA	WF	608P	10CT81	38-59 N	44-00 W	693	2143.35	26APR82	24JUN82	+0.84	-0.85	59
K82-235	TTNA	WF	530P	10CT81	38-59 N	44-00 W	797	2173.04	27APR82	24JUN82	.	.	59 ***
K82-236	TTNA	WF	610P	10CT81	38-59 N	44-00 W	992	2171.58	28APR82	24JUN82	+0.92	-0.61	59
K82-237	TTNA	WF	828P	10CT81	38-59 N	44-00 W	2073	2154.27	29APR82	23JUN82	+1.02	-0.60	59
K82-238	TTNA	WF	828P	10CT81	38-59 N	44-00 W	3064	2158.22	30APR82	23JUN82	+1.04	-1.91	59
K82-239	TTNA	WF	506P	29SEP81	42-00 N	42-00 W	84	2081.26	04MAY82	21JUN82	+1.12	-0.79	59
K82-279	TTNA	WT	433P	29SEP81	42-00 N	42-00 W	499	2118.42	13MAY82	20OCT82	+0.99	-1.32	62

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)
*** = NO ANALYSIS

BOTTLE TYPE:

P = PYREX

DEPTH:

U = UNDERWAY SAMPLE
SP = SURFACE PUMP SAMPLE

NOTES:

OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH
SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE
DATE OF ANALYSIS IS DATE OF ISOTOPE ANALYSIS BY W. MOOK

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10 (CONT.). CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE	LATITUDE	LONGITUDE	DEPTH (M)	DIC $\mu\text{M}/\text{kg}$	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP NO.
K82-280	TTNA	WT	575P	29SEP81	42-00 N	42-00 W	679	2151.64	14MAY82	20OCT82	+0.78	-0.87	62
K82-281	TTNA	WT	577P	29SEP81	42-00 N	42-00 W	975	2170.62	18MAY82	20OCT82	+0.88	-0.95	62
K82-282	TTNA	WT	435P	29SEP81	42-00 N	42-00 W	2046	2151.96	19MAY82	20OCT82	+0.95	-1.51	62
K82-283	TTNA	WT	821P	29SEP81	42-00 N	42-00 W	3046	2153.84	19MAY82	20OCT82	+1.02	-1.64	62
K82-284	TTNA	WT	823P	29SEP81	42-00 N	42-00 W	4025	2162.87	20MAY82	20OCT82	+0.99	-1.72	62
K82-285	TTNA	WS	697P	14SEP81	50-59 N	43-00 W	SP	2032.99	24MAY82	20OCT82	.	.	62 ***
K82-286	TTNA	WT	699P	14SEP81	50-59 N	43-00 W	157	2099.30	25MAY82	20OCT82	+1.10	-1.05	62
K82-287	TTNA	WT	509P	14SEP81	50-59 N	43-00 W	304	2099.40	25MAY82	20OCT82	+1.16	-2.16	62
K82-288	TTNA	WT	511P	14SEP81	50-59 N	43-00 W	706	2169.79	28MAY82	20OCT82	+0.85	-1.79	62
K82-289	TTNA	WT	513P	14SEP81	50-59 N	43-00 W	904	2157.44	28MAY82	20OCT82	+0.92	-1.41	62
K82-290	TTNA	WT	741P	14SEP81	50-59 N	43-00 W	2244	2152.25	01JUN82	20OCT82	+1.03	-2.33	62
K82-291	TTNA	WT	743P	14SEP81	50-59 N	43-00 W	4236	2150.77	01JUN82	20OCT82	+1.00	-1.03	62
K82-292	TTNA	WT	397P	8SEP81	53-54 N	39-52 W	SP	2053.04	02JUN82	20OCT82	+1.90	-1.70	62
K82-293	TTNA	WT	399P	8SEP81	53-54 N	39-52 W	13	2052.58	07JUN82	20OCT82	+1.89	-2.20	62
K82-294	TTNA	WT	401P	8SEP81	53-54 N	39-52 W	54	2128.01	10JUN82	20OCT82	+1.05	-1.99	62
K82-295	TTNA	WT	403P	8SEP81	53-54 N	39-52 W	78	2138.82	14JUN82	20OCT82	+1.09	-1.96	62
K82-296	TTNA	WS	385P	8SEP81	53-54 N	39-52 W	164	2141.58	15JUN82	20OCT82	.	.	62 ***
K82-297	TTNA	WT	387P	8SEP81	53-54 N	39-52 W	379	2153.56	16JUN82	20OCT82	+0.91	-1.35	62
K82-298	TTNA	WT	389P	8SEP81	53-54 N	39-52 W	803	2153.47	17JUN82	20OCT82	+0.90	-2.18	62
K82-300	TTNA	WF	580P	29SEP81	42-00 N	42-00 W	152	2081.84	04MAY82	25OCT82	+1.19	-0.46	63
K82-301	TTNA	WF	430P	29SEP81	42-00 N	42-00 W	251	2086.81	06MAY82	25OCT82	+1.16	-1.04	63
K82-302	TTNA	WF	432P	29SEP81	42-00 N	42-00 W	302	2097.31	07MAY82	25OCT82	+1.10	-1.09	63
K82-303	TTNA	WF	574P	29SEP81	42-00 N	42-00 W	379	2100.64	13MAY82	25OCT82	+1.09	-0.32	63
K82-304	TTNA	WF	434P	29SEP81	42-00 N	42-00 W	499	2118.05	14MAY82	25OCT82	+0.99	-0.82	63
K82-305	TTNA	WF	576P	29SEP81	42-00 N	42-00 W	679	2151.48	18MAY82	25OCT82	+0.85	-1.13	63
K82-306	TTNA	WF	578P	29SEP81	42-00 N	42-00 W	975	2170.44	18MAY82	25OCT82	+0.85	-0.42	63
K82-307	TTNA	WF	436P	29SEP81	42-00 N	42-00 W	2046	2151.07	19MAY82	25OCT82	+0.99	-0.97	63
K82-308	TTNA	WF	824P	29SEP81	42-00 N	42-00 W	4025	2162.87	24MAY82	25OCT82	+1.04	-1.85	63
K82-309	TTNA	WF	698P	14SEP81	50-59 N	43-00 W	SP	2032.08	24MAY82	25OCT82	+1.74	-1.27	63
K82-310	TTNA	WF	700P	14SEP81	50-59 N	43-00 W	157	2099.82	25MAY82	25OCT82	+1.07	-0.10	63
K82-311	TTNA	WF	510P	14SEP81	50-59 N	43-00 W	304	2098.17	26MAY82	25OCT82	+1.14	-0.63	63
K82-312	TTNA	WF	742P	14SEP81	50-59 N	43-00 W	2244	2152.24	01JUN82	25OCT82	+1.00	-1.16	63
K82-313	TTNA	WF	744P	14SEP81	50-59 N	43-00 W	4236	2151.30	02JUN82	25OCT82	+0.98	-0.83	63
K82-315	TTNA	WF	400P	8SEP81	53-54 N	39-52 W	13	2054.91	10JUN82	25OCT82	+1.80	-2.62	63
K82-316	TTNA	WF	402P	8SEP81	53-54 N	39-52 W	54	2128.93	14JUN82	25OCT82	+1.01	-1.34	63

FLAGS:

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T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)
*** = NO ANALYSIS

BOTTLE TYPE:
P = PYREX

DEPTH:

U = UNDERWAY SAMPLE
SP = SURFACE PUMP SAMPLE

NOTES:

OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH
SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE
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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10 (CONT.). CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE PRELIMINARY			DEPTH (M)	DIC uM/kg	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP. NO.
					LATITUDE	LONGITUDE	.....						
K82-317	TTNA	WF	404P	8SEP81	53-54 N	39-52 W	78	2137.13	15JUN82	25OCT82	+0.98	-1.34	63	
K82-318	TTNA	WF	368P	8SEP81	53-54 N	39-52 W	184	2140.86	16JUN82	26OCT82	+0.98	-1.05	63	
K82-319	TTNA	WF	368P	8SEP81	53-54 N	39-52 W	379	2152.30	17JUN82	26OCT82	+0.85	-1.40	63	
K82-320	TTNA	WF	370P	8SEP81	53-54 N	39-52 W	803	2152.85	21JUN82	26OCT82	+0.88	-1.52	63	
K82-321	TTNA	WF	372P	8SEP81	53-54 N	39-52 W	1001	2151.12	22JUN82	26OCT82	+0.95	-1.34	63	
K82-322	TTNA	WF	616P	8SEP81	53-54 N	39-52 W	1597	2153.17	23JUN82	26OCT82	+0.95	-1.23	63	
K82-323	TTNA	WF	614P	8SEP81	53-54 N	39-52 W	2052	2152.04	24JUN82	26OCT82	+1.00	-1.17	63	
K82-324	TTNA	WF	618PA	8SEP81	53-54 N	39-52 W	3097	2158.72	25JUN82	26OCT82	+0.98	-1.31	63	
K82-337	TTNA	WL	579P	29SEP81	42-00 N	42-00 W	152	2082.19	04MAY82	21JAN83	+1.22	-0.30	65	
K82-338	TTNA	WL	507P	29SEP81	42-00 N	42-00 W	185	2084.32	05MAY82	21JAN83	+1.17	-0.46	65	
K82-339	TTNA	WL	429P	29SEP81	42-00 N	42-00 W	251	2087.15	05MAY82	21JAN83	+1.18	-0.97	65	
K82-340	TTNA	WL	431P	29SEP81	42-00 N	42-00 W	302	2096.43	06MAY82	21JAN83	+1.17	-0.73	65	
K82-341	TTNA	WL	573P	29SEP81	42-00 N	42-00 W	379	2097.31	07MAY82	21JAN83	+1.13	-0.16	65	
K82-342	TTNA	WL	514P	14SEP81	50-59 N	43-00 W	904	2158.20	27MAY82	21JAN83	.	.	65 ***	
K82-343	TTNA	WL	515P	14SEP81	50-59 N	43-00 W	1304	2152.83	27MAY82	21JAN83	.	.	65 ***	
K82-344	TTNA	WL	518P	14SEP81	50-59 N	43-00 W	1304	2153.96	27MAY82	21JAN83	.	.	65 ***	
K82-345	TTNA	WL	398P	8SEP81	53-54 N	39-52 W	SP	2050.02	02JUN82	21JAN83	+1.93	-1.40	65	
K82-347	TTNA	WL	371P	8SEP81	53-54 N	39-52 W	1001	2154.21	21JUN82	21JAN83	.	.	65 ***	
K82-348	TTNA	WL	615P	8SEP81	53-54 N	39-52 W	1597	2150.54	22JUN82	21JAN83	+1.01	-1.00	65	
K82-349	TTNA	WL	613P	8SEP81	53-54 N	39-52 W	2052	2152.87	23JUN82	21JAN83	+1.05	+0.16	65	
K82-350	TTNA	WL	617P	8SEP81	53-54 N	39-52 W	3097	2163.37	24JUN82	21JAN83	+1.01	-0.94	65	
K82-351	TTNA	WL	618PB	8SEP81	53-54 N	39-52 W	3097	2157.35	25JUN82	21JAN83	+1.03	-1.68	65	
K82-353	TTNA	WL	325PA	26AUG81	58-40 N	38-15 W	103	2137.24	09JUL82	21JAN83	.	.	65 ***	
K82-354	TTNA	WL	326PA	26AUG81	58-40 N	38-15 W	103	2137.68	12JUL82	21JAN83	+1.05	-1.60	65	
K82-355	TTNA	WL	328P	26AUG81	58-40 N	38-15 W	192	2147.06	13JUL82	21JAN83	+0.99	-1.76	65	
K82-356	TTNA	WL	330P	26AUG81	58-40 N	38-15 W	253	2143.24	14JUL82	21JAN83	+1.05	-1.30	65	
K82-357	TTNA	WL	332P	26AUG81	58-40 N	38-15 W	504	2143.11	15JUL82	21JAN83	+1.04	-0.98	65	
K82-358	TTNA	WL	677P	26AUG81	58-40 N	38-15 W	604	2143.48	16JUL82	21JAN83	+1.00	-1.85	65	
K82-359	TTNA	WL	476P	26AUG81	58-40 N	38-15 W	SP	2075.26	19JUL82	21JAN83	+1.70	-1.26	65	
K82-360	TTNA	WL	752P	26AUG81	58-40 N	38-15 W	830	2143.37	20JUL82	21JAN83	+1.01	-1.03	65	
K82-367	TTNA	WF	325PB	26AUG81	58-40 N	38-15 W	103	2136.94	09JUL82	21OCT83	+1.16	-2.04	66	
K82-368	TTNA	WF	328PB	26AUG81	58-40 N	38-15 W	103	2137.22	12JUL82	21OCT83	+1.12	-1.20	66	
K82-369	TTNA	WF	327P	26AUG81	58-40 N	38-15 W	192	2141.32	13JUL82	21OCT83	+1.11	-1.31	66	
K82-370	TTNA	WF	329P	26AUG81	58-40 N	38-15 W	253	2143.22	14JUL82	21OCT83	+1.19	-1.33	66	
K82-371	TTNA	WF	331P	26AUG81	58-40 N	38-15 W	504	2143.04	14JUL82	21OCT83	+1.08	-1.54	66	

FLAGS:

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*** = NO ANALYSIS

BOTTLE TYPE:

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DEPTH:

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NOTES:

OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH
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TABLE 10 (CONT.). CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE PRELIMINARY			DIC µM/kg	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP. NO.
					LATITUDE	LONGITUDE	DEPTH (M)						
K82-372	TTNA	WF	749P	26AUG81	58-40 N	38-15 W	804	2135.76	15JUL82	21OCT83	+1.12	-0.90	66
K82-373	TTNA	WF	475P	26AUG81	58-40 N	38-15 W	SP	2076.36	19JUL82	21OCT83	+1.77	-0.92	66
K82-374	TTNA	WF	751P	28AUG81	58-40 N	38-15 W	830	2142.58	20JUL82	21OCT83	+1.12	-1.68	66
K82-375	TTNA	WF	753P	26AUG81	58-40 N	38-15 W	1550	2146.81	20JUL82	21OCT83	+1.11	-1.06	66
K82-376	TTNA	WF	755P	26AUG81	58-40 N	38-15 W	2587	2154.02	21JUL82	21OCT83	+1.13	-1.10	66
K82-377	TTNA	WF	829P	26AUG81	58-40 N	38-15 W	3159	2147.02	26JUL82	21OCT83	+1.13	-1.31	66
K82-378	TTNA	WF	455P	13AUG81	64-05 N	33-18 W	13	2074.71	22JUL82	21OCT83	+1.75	-1.14	66
K82-379	TTNA	WF	453P	13AUG81	64-05 N	33-18 W	70	2135.62	27JUL82	21OCT83	+1.13	-1.27	66
K82-380	TTNA	WF	457P	13AUG81	64-05 N	33-18 W	104	2139.79	28JUL82	21OCT83	+1.08	-0.96	66
K82-421	TTNA	WS	782P	13AUG81	64-05 N	33-18 W	296	2143.91	03AUG82	29OCT82	+0.98	-1.20	69
K82-422	TTNA	WS	786P	13AUG81	64-05 N	33-18 W	837	2151.12	05AUG82	29OCT82	+0.95	-2.36	69
K82-423	TTNA	WS	788P	13AUG81	64-05 N	33-18 W	1233	2151.14	08AUG82	29OCT82	+0.93	-2.58	69
K82-424	TTNA	WS	410P	13AUG81	64-05 N	33-18 W	1966	2152.06	09AUG82	29OCT82	+1.02	-2.02	69
K82-425	TTNA	WS	412P	13AUG81	64-05 N	33-18 W	2317	2149.42	10AUG82	29OCT82	+1.05	-2.05	69
K82-426	TTNA	WS	780P	6AUG81	68-43 N	10-33 W	11	2068.51	11AUG82	29OCT82	+2.22	-2.06	69
K82-427	TTNA	WS	520P	6AUG81	68-43 N	10-33 W	201	2149.46	12AUG82	29OCT82	+1.05	-1.66	69
K82-428	TTNA	WS	522P	6AUG81	68-43 N	10-33 W	301	2150.06	16AUG82	29OCT82	+1.09	-1.85	69
K82-429	TTNA	WS	524P	6AUG81	68-43 N	10-33 W	399	2156.76	16AUG82	01NOV82	+1.00	-1.69	69
K82-430	TTNA	WS	542P	6AUG81	68-43 N	10-33 W	500	2157.54	17AUG82	01NOV82	+0.98	-1.60	69
K82-431	TTNA	WS	544P	6AUG81	68-43 N	10-33 W	600	2158.22	18AUG82	01NOV82	+1.06	-1.63	69
K82-432	TTNA	WS	778P	6AUG81	68-43 N	10-33 W	949	2158.00	20AUG82	01NOV82	+1.05	-2.15	69
K82-433	TTNA	WS	778P	6AUG81	68-43 N	10-33 W	2140	2164.30	30AUG82	01NOV82	+1.02	-2.05	69
K82-434	TTNA	WS	562P	30JUL81	74-56 N	1-12 W	9	2045.77	31AUG82	01NOV82	+2.22	-2.23	69
K82-435	TTNA	WS	662P	30JUL81	74-56 N	1-12 W	13	2047.51	01SEP82	02NOV82	+2.15	-2.02	69
K82-436	TTNA	WS	564P	30JUL81	74-56 N	1-12 W	77	2149.21	02SEP82	02NOV82	+1.08	-2.16	69
K82-437	TTNA	WS	590P	30JUL81	74-56 N	1-12 W	248	2153.56	03SEP82	02NOV82	+1.25	-2.32	69
K82-438	TTNA	WS	592P	30JUL81	74-56 N	1-12 W	444	2156.09	07SEP82	02NOV82	+1.05	-2.73	69
K82-439	TTNA	WS	666P	30JUL81	74-56 N	1-12 W	742	2156.54	08SEP82	02NOV82	+1.04	-2.35	69
K82-440	TTNA	WF	459P	13AUG81	64-05 N	33-18 W	203	2141.59	30JUL82	29OCT82	+0.98	-1.36	70
K82-441	TTNA	WF	781P	13AUG81	64-05 N	33-18 W	296	2144.80	03AUG82	29OCT82	+0.94	-1.65	70
K82-442	TTNA	WF	783P	13AUG81	64-05 N	33-18 W	396	2146.10	04AUG82	29OCT82	+0.97	-1.96	70
K82-443	TTNA	WF	785P	13AUG81	64-05 N	33-18 W	837	2152.54	04AUG82	29OCT82	+0.89	-1.16	70
K82-444	TTNA	WF	787P	13AUG81	64-05 N	33-18 W	1233	2150.83	05AUG82	29OCT82	+0.95	-1.42	70
K82-445	TTNA	WF	409P	13AUG81	64-05 N	33-18 W	1966	2151.57	06AUG82	29OCT82	+1.01	-2.16	70
K82-446	TTNA	WF	411P	13AUG81	64-05 N	33-18 W	2317	2148.46	09AUG82	29OCT82	+1.05	-1.94	70

FLAGS:

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TABLE 10 (CONT.). CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE	PRELIMINARY			DIC uM/kg	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP. NO.
					LATITUDE	LONGITUDE	DEPTH (M)						
K82-447	TTNA	WF	779P	6AUG81	68-43 N	10-33 W	11	2066.25	10AUG82	29OCT82	+2.27	-1.74	70
K82-448	TTNA	WF	517P	6AUG81	68-43 N	10-33 W	76	2147.24	11AUG82	29OCT82	+1.13	-1.45	70
K82-449	TTNA	WF	519P	6AUG81	68-43 N	10-33 W	201	2149.17	12AUG82	29OCT82	+1.13	-2.23	70
K82-450	TTNA	WF	521P	6AUG81	68-43 N	10-33 W	301	2150.26	12AUG82	29OCT82	+1.11	-1.85	70
K82-451	TTNA	WF	523P	6AUG81	68-43 N	10-33 W	399	2157.80	17AUG82	01NOV82	+0.98	-1.53	70
K82-452	TTNA	WF	541P	6AUG81	68-43 N	10-33 W	500	2157.74	17AUG82	01NOV82	+1.02	-1.95	70
K82-453	TTNA	WF	543P	6AUG81	68-43 N	10-33 W	600	2161.59	18AUG82	01NOV82	+0.99	-1.63	70
K82-454	TTNA	WF	545P	6AUG81	68-43 N	10-33 W	797	2158.02	19AUG82	01NOV82	+1.07	-1.90	70
K82-455	TTNA	WF	775P	6AUG81	68-43 N	10-33 W	949	2158.97	20AUG82	01NOV82	+1.03	-1.85	70
K82-456	TTNA	WF	777P	6AUG81	68-43 N	10-33 W	2140	2164.18	30AUG82	01NOV82	+1.02	-2.20	70
K82-457	TTNA	WF	581P	30JUL81	74-56 N	1-12 W	9	2045.44	31AUG82	01NOV82	+1.24	-1.90	70
K82-458	TTNA	WF	661P	30JUL81	74-56 N	1-12 W	13	2045.02	01SEP82	02NOV82	+2.26	-2.08	70
K82-459	TTNA	WF	563P	30JUL81	74-56 N	1-12 W	77	2149.63	02SEP82	02NOV82	+1.07	-2.17	70
K82-460	TTNA	WF	589P	30JUL81	74-56 N	1-12 W	248	2153.97	02SEP82	09NOV82	+1.11	-2.29	71
K82-461	TTNA	WF	591P	30JUL81	74-56 N	1-12 W	444	2155.96	03SEP82	09NOV82	+1.16	-2.53	71
K82-462	TTNA	WF	685P	30JUL81	74-56 N	1-12 W	742	2156.04	07SEP82	09NOV82	+1.09	-2.04	71
K82-463	TTNA	WF	687P	30JUL81	74-56 N	1-12 W	939	2156.86	08SEP82	09NOV82	+1.10	-1.67	71
K82-464	TTNA	WF	557P	30JUL81	74-56 N	1-12 W	1883	2155.48	10SEP82	09NOV82	+1.07	-1.88	71
K82-465	TTNA	WF	559P	30JUL81	74-56 N	1-12 W	2488	2155.92	21SEP82	09NOV82	+1.14	-1.48	71
K82-466	TTNA	WF	663P	30JUL81	74-56 N	1-12 W	2984	2155.06	22SEP82	09NOV82	+1.13	-2.70	71
K82-467	TTNA	WF	593P	31JUL81	76-51 N	1-02 E	11	1988.66	22SEP82	09NOV82	+2.00	-1.81	71
K82-468	TTNA	WF	595P	5AUG81	71-09 N	7-29 W	5	1899.19	23SEP82	09NOV82	.	.	71
K82-469	TTNA	WF	789P	25JUL81	64-49 N	6-13 W	9	2080.94	24SEP82	11NOV82	+1.79	-1.89	71
K82-470	TTNA	WF	417P	28JUL81	69-59 N	2-27 E	14	2062.71	27SEP82	11NOV82	+1.97	-2.05	71
K82-471	TTNA	WF	419P	29JUL81	72-24 N	2-04 E	10	2066.26	28SEP82	11NOV82	+2.02	-1.86	71
K82-472	TTNA	WF	415P	26JUL81	67-39 N	3-16 W	12	2081.06	28SEP82	11NOV82	+1.79	-1.73	71
K82-473	TTNA	WF	619P	9SEP81	53-04 N	37-50 W	7	2038.81	29SEP82	11NOV82	+1.88	-1.78	71
K82-474	TTNA	WF	791P	10SEP81	50-04 N	37-51 W	10	2028.76	30SEP82	11NOV82	+1.87	-2.85	71
K82-475	TTNA	WF	795P	11SEP81	47-40 N	37-49 W	10	2032.78	30SEP82	11NOV82	+1.77	-1.65	71
K82-476	TTNA	WF	721P	6JUL81	53-14 N	36-40 W	14	2110.20	01OCT82	11NOV82	+1.09	-2.60	71
K82-477	TTNA	WL	754P	26AUG81	58-40 N	38-15 W	1550	2147.98	21JUL82	09NOV82	+0.99	-1.93	72
K82-478	TTNA	WL	756P	26AUG81	58-40 N	38-15 W	2587	2153.58	22JUL82	09NOV82	+0.99	-2.20	72
K82-479	TTNA	WL	830P	26AUG81	58-40 N	38-15 W	3159	2146.26	26JUL82	09NOV82	+1.03	-1.54	72
K82-480	TTNA	WL	456P	13AUG81	64-05 N	33-18 W	13	2069.08	27JUL82	09NOV82	+1.71	-2.07	72
K82-481	TTNA	WL	454P	13AUG81	64-05 N	33-18 W	70	2133.82	28JUL82	09NOV82	+1.03	-1.57	72

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*** = NO ANALYSIS

BOTTLE TYPE:

P = PYREX

DEPTH:

U = UNDERWAY SAMPLE
SP = SURFACE PUMP SAMPLE

NOTES:

OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH
SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE
DATE OF ANALYSIS IS DATE OF ISOTOPE ANALYSIS BY W. MOOK

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10 (CONT.). CARBON AND OXYGEN ISOTOPE DATA

EXTRAC NO.	EXP	FLAGS	BOTTLE NO.	SAMPLE DATE	LATITUDE	LONGITUDE	DEPTH (M)	DIC uM/kg	DATE OF EXTRACTION	DATE OF ANALYSIS	CARBON 13/12	OXYGEN 18/16	SHIP. NO.
K82-482	TTNA	WL	458P	13AUG81	64-05 N	33-18 W	104	2139.03	30JUL82	09NOV82	+1.01	-2.08	72
K82-483	TTNA	WL	460P	13AUG81	64-05 N	33-18 W	203	2141.80	03AUG82	09NOV82	+1.00	-2.17	72
K82-484	TTNA	WL	668P	30JUL81	74-56 N	1-12 W	939	2164.61	10SEP82	09NOV82	+0.97	-2.58	72
K82-485	TTNA	WL	558P	30JUL81	74-56 N	1-12 W	1883	2156.33	21SEP82	09NOV82	+1.13	-1.85	72
K82-486	TTNA	WL	594P	31JUL81	76-51 N	1-02 W	11	1991.80	23SEP82	09NOV82	+1.95	-2.90	72
K82-487	TTNA	WL	770P	25JUL81	64-49 N	6-13 W	9	2066.69	27SEP82	11NOV82	+2.12	-3.05	72
K82-488	TTNA	WL	418P	28JUL81	69-59 N	2-27 E	14	2061.80	27SEP82	11NOV82	+1.99	-1.75	72
K82-489	TTNA	WL	420P	29JUL81	72-24 N	2-04 E	10	2117.27	28SEP82	11NOV82	+1.90	-1.24	72
K82-490	TTNA	WL	416P	26JUL81	67-39 N	3-16 W	12	2065.03	29SEP82	11NOV82	+2.05	-1.67	72
K82-491	TTNA	WL	620P	9SEP81	53-04 N	37-52 W	7	2038.26	29SEP82	11NOV82	+1.89	-2.23	72
K82-492	TTNA	WL	792P	10SEP81	50-04 N	37-49 W	10	2028.33	30SEP82	11NOV82	+1.84	-1.64	72
K82-493	TTNA	WL	796P	11SEP81	47-40 N	37-49 W	10	2031.24	01OCT82	11NOV82	+1.82	-1.97	72
K82-494	TTNA	WL	722P	6JUL81	53-14 N	36-40 W	14	2088.07	01OCT82	11NOV82	+1.42	-2.10	72
K83- 1	TTNA	WF	793PA	10SEP81	48-49 N	37-49 W	13	2029.02	13DEC82	11FEB83	+1.83	+0.27	75
K83- 2	TTNA	WF	793PB	10SEP81	48-49 N	37-49 W	13	2028.97	13DEC82	11FEB83	+1.79	-0.64	75
K83- 3	TTNA	WF	794PA	10SEP81	48-49 N	37-49 W	13	2028.83	14DEC82	11FEB83	+1.82	-1.05	75
K83- 4	TTNA	WF	794PB	10SEP81	48-49 N	37-49 W	13	2028.25	14DEC82	11FEB83	+1.82	-0.82	75
K84- 54	TTNA	WL	724P	7JUL81	55-00 N	34-40 W	13	2161.52	06JAN84	07AUG84	+0.33	-0.15	97
K84- 55	TTNA	WL	670P	8JUL81	57-00 N	32-19 W	14	2090.53	09JAN84	07AUG84	+1.43	-0.36	97
K84- 56	TTNA	WL	671P	8JUL81	58-29 N	29-59 W	10	2104.33	09JAN84	07AUG84	+1.49	+0.77	97
K84- 57	TTNA	WL	707P	23JUL81	58-34 N	11-32 W	14	2079.15	11JAN84	07AUG84	.	.	97
K84- 78	TTNA	WF	647PB	20MAY81	31-45 N	50-47 W	10	2048.27	04JAN84	20JUN84	+1.31	+0.58	98
K84- 79	TTNA	WF	648PA	20MAY81	31-45 N	50-47 W	10	2046.20	05JAN84	20JUN84	+1.52	-0.25	98
K84- 80	TTNA	WF	723P	7JUL81	55-00 N	34-40 W	13	2093.21	06JAN84	20JUN84	+1.15	-1.14	98
K84- 81	TTNA	WF	708P	23JUL81	58-34 N	11-32 W	14	2080.23	11JAN84	20JUN84	+1.52	-0.02	98

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BOTTLE TYPE:

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DEPTH:

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NOTES:

OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH
SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11. CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	O18/O16	ISO FLAGS
K81- 214	36	TTNA	2	24	23-18N	64-10W	12	24 APR 81	2 1	445P	15 JUN 81	4 AUG 81	+1.59	-0.95	WS
K81- 215	36	TTNA	2	24	23-18N	64-10W	12	24 APR 81	2 1	446P	15 JUN 81	4 AUG 81	+1.64	-0.83	WS
K81- 216	36	TTNA	2	26	20-47N	62-16W	11	26 APR 81	2 1	447P	16 JUN 81	4 AUG 81	+1.83	-1.37	WS
K81- 217	36	TTNA	2	28	18-07N	60-39W	12	27 APR 81	3 1	450P	16 JUN 81	5 AUG 81	+1.76	-1.13	WS
K81- 218	36	TTNA	2	29	17-08N	59-31W	11	28 APR 81	1 1	451P	17 JUN 81	5 AUG 81	+1.89	-1.11	WS
K81- 219	36	TTNA	2	29	17-08N	59-31W	11	28 APR 81	1 1	452P	17 JUN 81	5 AUG 81	+1.91	-1.07	WS
K81- 220	36	TTNA	2	32	15-03N	53-57W	11	30 APR 81	2 1	493P	18 JUN 81	5 AUG 81	+1.78	-2.33	WS
K81- 221	36	TTNA	2	32	15-03N	53-57W	11	30 APR 81	2 1	494P	18 JUN 81	5 AUG 81	+1.87	-0.93	WS
K81- 222	36	TTNA	2	32	15-03N	53-57W	4p	30 APR 81	0 0	495P	19 JUN 81	5 AUG 81	+1.80	-0.89	WS
K81- 223	36	TTNA	2	32	15-03N	53-57W	4p	30 APR 81	0 0	496P	19 JUN 81	5 AUG 81	+1.74	-1.31	WS
K81- 224	36	TTNA	2	32	15-03N	53-57W	3993	30 APR 81	3 44	497P	22 JUN 81	5 AUG 81	+0.95	-1.39	WS
K81- 225	36	TTNA	2	32	15-03N	53-57W	3993	30 APR 81	3 44	498P	22 JUN 81	5 AUG 81	+1.01	-1.24	WS
K81- 226	36	TTNA	2	32	15-03N	53-57W	99	30 APR 81	4 41	499P	23 JUN 81	5 AUG 81	+1.81	-0.56	WS
K81- 227	36	TTNA	2	32	15-03N	53-57W	99	30 APR 81	4 41	500P	23 JUN 81	5 AUG 81	+1.77	-0.97	WS
K81- 228	36	TTNA	2	38	23-51N	54-03W	4p	5 MAY 81	0 0	599P	26 JUN 81	5 AUG 81	+1.75	-0.81	WS
K81- 230	37	TTNA	1	1	39-48N	70-05W	10	2 APR 81	2 27	309P	20 MAY 81	28 JUL 81	+1.20	-1.00	WL
K81- 231	37	TTNA	1	1	39-48N	70-05W	10	2 APR 81	2 27	310P	20 MAY 81	28 JUL 81	+1.15	-0.56	WL
K81- 232	37	TTNA	1	3	38-17N	69-10W	12	3 APR 81	1 1	311P	1 JUN 81	28 JUL 81	+1.20	-3.23	WL
K81- 233	37	TTNA	1	3	38-17N	69-10W	12	3 APR 81	1 1	312P	1 JUN 81	28 JUL 81	+1.13	-0.61	WL
K81- 234	37	TTNA	1	5	36-00N	68-00W	10	5 APR 81	2 1	313P	2 JUN 81	28 JUL 81	+1.67	+0.02	WL
K81- 235	37	TTNA	1	5	36-00N	68-00W	10	5 APR 81	2 1	314P	2 JUN 81	28 JUL 81	+1.70	-0.51	WL
K81- 236	37	TTNA	1	6	34-41N	67-21W	11	5 APR 81	2 1	315P	3 JUN 81	28 JUL 81	+1.68	-0.22	WL
K81- 237	37	TTNA	1	6	34-41N	67-21W	11	5 APR 81	2 1	316P	3 JUN 81	28 JUL 81	+1.70	-0.11	WL
K81- 238	37	TTNA	1	7	31-40N	68-30W	12	7 APR 81	3 1	318P	4 JUN 81	29 JUL 81	+1.50	-0.55	WL
K81- 239	37	TTNA	1	8	31-20N	71-30W	12	8 APR 81	3 1	319P	4 JUN 81	29 JUL 81	+1.55	-1.25	WL
K81- 240	37	TTNA	1	8	31-20N	71-30W	12	8 APR 81	3 1	320P	8 JUN 81	29 JUL 81	.	.	WL
K81- 241	37	TTNA	1	11	30-50N	74-03W	7	10 APR 81	2 1	321P	8 JUN 81	29 JUL 81	+1.56	-0.11	WL
K81- 242	37	TTNA	1	11	30-50N	74-03W	7	10 APR 81	2 1	322P	9 JUN 81	29 JUL 81	+1.48	-0.90	WL
K81- 243	37	TTNA	1	13	29-56N	77-21W	9	11 APR 81	1 69	324P	9 JUN 81	29 JUL 81	+1.67	-0.84	WL
K81- 244	37	TTNA	2	15	25-35N	76-23W	11	17 APR 81	2 1	341P	10 JUN 81	29 JUL 81	+1.68	-0.53	WL
K81- 245	37	TTNA	2	15	25-35N	76-23W	11	17 APR 81	2 1	342P	10 JUN 81	29 JUL 81	+1.65	-0.79	WL
K81- 246	37	TTNA	2	16	22-51N	73-10W	13	19 APR 81	2 1	343P	10 JUN 81	29 JUL 81	+1.67	-1.34	WL
K81- 247	37	TTNA	2	16	22-51N	73-10W	13	19 APR 81	2 1	344P	10 JUN 81	29 JUL 81	+1.69	-0.93	WL
K81- 248	37	TTNA	2	20	25-47N	70-26W	13	21 APR 81	2 1	345P	11 JUN 81	29 JUL 81	+1.63	-0.18	WL
K81- 249	37	TTNA	2	20	25-47N	70-26W	13	21 APR 81	2 1	346P	11 JUN 81	29 JUL 81	+1.68	-0.26	WL

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DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE TYPE:

P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
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TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	018/016	ISO FLAGS
K81- 250	37	TTNA	2	22	25-47N	66-00W	13	23 APR 81	1 1	347P	12 JUN 81	29 JUL 81	+1.65	-0.31	WL
K81- 251	37	TTNA	2	22	25-47N	66-00W	13	23 APR 81	1 1	348P	12 JUN 81	29 JUL 81	+1.58	-1.92	WL
K81- 252	37	TTNA	2	32	15-03N	53-57W	152	30 APR 81	4 43	566P	24 JUN 81	29 JUL 81	+1.27	+0.10	WL
K81- 274	39	TTNA	2	32	15-03N	53-57W	152	30 APR 81	4 43	565P	24 JUN 81	10 SEP 81	.	.	WL
K81- 276	39	TTNA	2	38	23-51N	54-03W	11	5 MAY 81	2 1	601P	29 JUN 81	10 SEP 81	+1.81	-0.94	WL
K81- 277	39	TTNA	2	38	23-51N	54-03W	11	5 MAY 81	2 1	602P	29 JUN 81	10 SEP 81	+1.85	-0.72	WL
K81- 278	39	TTNA	2	38	23-51N	54-03W	48	5 MAY 81	2 2	603P	29 JUN 81	10 SEP 81	+1.86	-0.42	WL
K81- 279	39	TTNA	2	38	23-51N	54-03W	48	5 MAY 81	2 2	604P	30 JUN 81	10 SEP 81	+1.85	-0.62	WL
K81- 280	39	TTNA	2	38	23-51N	54-03W	106	5 MAY 81	2 3	382P	1 JUL 81	10 SEP 81	+1.77	-0.39	WL
K81- 281	39	TTNA	2	38	23-51N	54-03W	273	5 MAY 81	2 5	384P	1 JUL 81	10 SEP 81	+1.23	-0.63	WL
K81- 282	39	TTNA	2	38	23-51N	54-03W	355	5 MAY 81	2 7	385P	6 JUL 81	10 SEP 81	+1.23	-1.43	WL
K81- 283	39	TTNA	2	38	23-51N	54-03W	355	5 MAY 81	2 7	386P	6 JUL 81	14 SEP 81	+1.23	+0.04	WL
K81- 284	39	TTNA	2	38	23-51N	54-03W	693	5 MAY 81	2 10	387P	7 JUL 81	14 SEP 81	+0.86	-1.23	WL
K81- 285	39	TTNA	2	38	23-51N	54-03W	693	5 MAY 81	2 10	388P	7 JUL 81	14 SEP 81	+0.80	-0.37	WL
K81- 286	39	TTNA	2	38	23-51N	54-03W	992	5 MAY 81	2 12	389P	8 JUL 81	14 SEP 81	+0.70	-1.80	WL
K81- 287	39	TTNA	2	38	23-51N	54-03W	992	5 MAY 81	2 12	390P	8 JUL 81	14 SEP 81	+0.75	-1.33	WL
K81- 288	39	TTNA	2	38	23-51N	54-03W	1958	5 MAY 81	2 18	391P	9 JUL 81	14 SEP 81	+1.02	-1.74	WL
K81- 289	39	TTNA	2	38	23-51N	54-03W	1958	5 MAY 81	2 18	392P	9 JUL 81	14 SEP 81	+1.07	-1.25	WL
K81- 290	39	TTNA	2	38	23-51N	54-03W	2841	5 MAY 81	2 20	393P	10 JUL 81	14 SEP 81	+1.00	-0.96	WL
K81- 291	39	TTNA	2	38	23-51N	54-03W	2841	5 MAY 81	2 20	394P	10 JUL 81	14 SEP 81	+0.96	-1.08	WL
K81- 292	39	TTNA	2	38	23-51N	54-03W	3747	5 MAY 81	2 22	395P	13 JUL 81	14 SEP 81	+0.97	-0.91	WL
K81- 293	39	TTNA	2	38	23-51N	54-03W	3747	5 MAY 81	2 22	396P	13 JUL 81	14 SEP 81	+0.97	-0.76	WL
K81- 294	39	TTNA	2	32	15-03N	53-57W	253	30 APR 81	4 44	567P	20 JUL 81	14 SEP 81	+0.82	-1.16	WL
K81- 295	39	TTNA	2	32	15-03N	53-57W	253	30 APR 81	4 44	568P	20 JUL 81	14 SEP 81	+0.74	-2.53	WL
K81- 296	39	TTNA	2	32	15-03N	53-57W	352	30 APR 81	4 45	569P	21 JUL 81	14 SEP 81	+0.60	-0.78	WL
K81- 297	39	TTNA	2	32	15-03N	53-57W	352	30 APR 81	4 45	570P	21 JUL 81	14 SEP 81	+0.56	-1.41	WL
K81- 316	41	TTNA	2	32	15-03N	53-57W	749	30 APR 81	4 47	571P	22 JUL 81	23 OCT 81	+0.59	-1.36	WL
K81- 317	41	TTNA	2	32	15-03N	53-57W	749	30 APR 81	4 47	572P	22 JUL 81	23 OCT 81	+0.60	-1.72	WL
K81- 318	41	TTNA	2	32	15-03N	53-57W	1097	30 APR 81	5 44	485P	22 JUL 81	23 OCT 81	+0.85	-0.85	WL
K81- 319	41	TTNA	2	32	15-03N	53-57W	1097	30 APR 81	5 44	486P	23 JUL 81	23 OCT 81	+0.74	-1.64	WL
K81- 320	41	TTNA	2	32	15-03N	53-57W	1982	30 APR 81	5 45	487P	23 JUL 81	23 OCT 81	+0.37	-2.37	WL
K81- 321	41	TTNA	2	32	15-03N	53-57W	1982	30 APR 81	5 45	488P	23 JUL 81	23 OCT 81	+1.03	-0.79	WL
K81- 322	41	TTNA	2	32	15-03N	53-57W	2970	30 APR 81	5 48	489P	27 JUL 81	23 OCT 81	.	.	WL
K81- 323	41	TTNA	2	32	15-03N	53-57W	2970	30 APR 81	5 48	490P	27 JUL 81	23 OCT 81	+1.02	-1.68	WL
K81- 324	41	TTNA	2	34	18-02N	53-58W	8	2 MAY 81	2 1	491P	28 JUL 81	23 OCT 81	+1.85	-1.27	WL

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE TYPE:

P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH
SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	018/016	ISO FLAGS
K81-325	41	TTNA	2	34	18-02N	53-58W	8	2 MAY 81	2 1	492P	28 JUL 81	26 OCT 81	+1.86	-1.27	WL
K81-326	41	TTNA	2	34	18-02N	53-58W	4p	2 MAY 81	0 0	477P	29 JUL 81	26 OCT 81	+1.93	-0.63	WL
K81-327	41	TTNA	2	34	18-02N	53-58W	4p	2 MAY 81	0 0	478P	29 JUL 81	26 OCT 81	+1.88	-0.59	WL
K81-328	41	TTNA	2	34	18-02N	53-58W	71	2 MAY 81	2 2	479P	29 JUL 81	26 OCT 81	+1.96	-0.57	WL
K81-329	41	TTNA	2	34	18-02N	53-58W	71	2 MAY 81	2 2	480P	30 JUL 81	26 OCT 81	+1.96	-0.79	WL
K81-330	41	TTNA	2	34	18-02N	53-58W	146	2 MAY 81	2 4	481P	30 JUL 81	27 OCT 81	+1.43	-0.32	WL
K81-331	41	TTNA	2	34	18-02N	53-58W	146	2 MAY 81	2 4	482P	31 JUL 81	27 OCT 81	+1.47	-0.44	WL
K81-332	41	TTNA	2	34	18-02N	53-58W	247	2 MAY 81	2 6	483P	31 JUL 81	27 OCT 81	+1.08	-1.12	WL
K81-333	41	TTNA	2	34	18-02N	53-58W	247	2 MAY 81	2 6	484P	8 SEP 81	27 OCT 81	+1.10	-1.22	WL
K81-334	41	TTNA	2	34	18-02N	53-58W	346	2 MAY 81	2 8	581P	8 SEP 81	27 OCT 81	+0.80	-0.84	WL
K81-335	41	TTNA	2	34	18-02N	53-58W	346	2 MAY 81	2 8	582P	9 SEP 81	27 OCT 81	+0.86	-1.33	WL
K81-336	41	TTNA	2	34	18-02N	53-58W	667	2 MAY 81	2 11	583P	9 SEP 81	27 OCT 81	+0.72	-0.85	WL
K81-337	41	TTNA	2	34	18-02N	53-58W	667	2 MAY 81	2 11	584P	10 SEP 81	27 OCT 81	+0.56	-1.38	WL
K81-338	41	TTNA	2	34	18-02N	53-58W	962	2 MAY 81	2 13	585P	10 SEP 81	27 OCT 81	+0.68	-1.12	WL
K81-339	41	TTNA	2	34	18-02N	53-58W	962	2 MAY 81	2 13	586P	11 SEP 81	27 OCT 81	+0.68	-1.48	WL
K81-340	41	TTNA	2	34	18-02N	53-58W	1975	2 MAY 81	2 18	587P	11 SEP 81	27 OCT 81	+0.94	-1.45	WL
K81-341	41	TTNA	2	34	18-02N	53-58W	1975	2 MAY 81	2 18	588P	15 SEP 81	27 OCT 81	+0.91	-1.09	WL
K81-361	43	TTNA	2	34	18-02N	53-58W	2951	2 MAY 81	2 20	629P	15 SEP 81	11 NOV 81	+1.00	-0.99	WS
K81-362	43	TTNA	2	34	18-02N	53-58W	2951	2 MAY 81	2 20	630P	16 SEP 81	11 NOV 81	+1.00	-1.93	WS
K81-363	43	TTNA	2	34	18-02N	53-58W	3928	2 MAY 81	2 22	631P	16 SEP 81	11 NOV 81	+0.94	-0.84	WS
K81-364	43	TTNA	2	34	18-02N	53-58W	3928	2 MAY 81	2 22	632P	17 SEP 81	11 NOV 81	+0.86	-1.25	WS
K81-365	43	TTNA	2	36	21-01N	53-59W	365	3 MAY 81	2 7	633P	17 SEP 81	11 NOV 81	+1.10	-1.00	WS
K81-366	43	TTNA	2	36	21-01N	53-59W	365	3 MAY 81	2 7	634P	17 SEP 81	12 NOV 81	+1.06	-0.37	WS
K81-367	43	TTNA	2	36	21-01N	53-59W	4p	3 MAY 81	0 0	363P	18 SEP 81	11 NOV 81	+1.91	-1.74	WS
K81-368	43	TTNA	2	36	21-01N	53-59W	4p	3 MAY 81	0 0	364P	18 SEP 81	11 NOV 81	+1.93	-1.46	WS
K81-369	43	TTNA	2	36	21-01N	53-59W	994	3 MAY 81	2 12	635P	21 SEP 81	12 NOV 81	+0.73	-1.29	WS
K81-370	43	TTNA	2	36	21-01N	53-59W	994	3 MAY 81	2 12	636P	21 SEP 81	12 NOV 81	+0.67	-1.67	WS
K81-371	43	TTNA	2	36	21-01N	53-59W	1973	3 MAY 81	2 16	357P	22 SEP 81	12 NOV 81	+1.02	-0.83	WS
K81-372	43	TTNA	2	36	21-01N	53-59W	1973	3 MAY 81	2 16	358P	22 SEP 81	12 NOV 81	+1.00	-0.67	WS
K81-373	43	TTNA	2	36	21-01N	53-59W	2925	3 MAY 81	2 18	359P	23 SEP 81	12 NOV 81	+0.97	-0.96	WS
K81-374	43	TTNA	2	36	21-01N	53-59W	2925	3 MAY 81	2 18	360P	23 SEP 81	12 NOV 81	+1.03	-0.76	WS
K81-375	43	TTNA	2	36	21-01N	53-59W	10	3 MAY 81	4 40	549P	24 SEP 81	12 NOV 81	+1.89	-0.45	WS
K81-376	43	TTNA	2	36	21-01N	53-59W	10	3 MAY 81	4 40	550P	24 SEP 81	12 NOV 81	+1.86	-0.45	WS
K81-377	43	TTNA	2	36	21-01N	53-59W	3899	3 MAY 81	2 20	361P	25 SEP 81	12 NOV 81	+1.00	-1.73	WS
K81-378	43	TTNA	2	36	21-01N	53-59W	70	3 MAY 81	4 45	551P	28 SEP 81	12 NOV 81	+1.80	-0.86	WS

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE TYPE:

P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	O18/O16	ISO FLAGS
K81- 379	43	TTNA	2	36	21-01N	53-59W	70	3 MAY 81	4 45	552P	28 SEP 81	12 NOV 81	+1.67	-0.90	WS
K81- 380	43	TTNA	2	36	21-01N	53-59W	159	3 MAY 81	4 44	553P	29 SEP 81	12 NOV 81	+1.37	-0.33	WS
K81- 381	44	TTNA	2	36	21-01N	53-59W	159	3 MAY 81	4 44	554P	29 SEP 81	18 NOV 81	+1.37	-0.64	WS
K81- 382	44	TTNA	2	36	21-01N	53-59W	239	3 MAY 81	4 41	555P	29 SEP 81	18 NOV 81	+1.28	-0.92	WS
K81- 383	44	TTNA	2	36	21-01N	53-59W	239	3 MAY 81	4 41	556P	30 SEP 81	18 NOV 81	+1.23	-0.58	WS
K81- 384	44	TTNA	2	36	21-01N	53-59W	676	3 MAY 81	4 47	597P	30 SEP 81	18 NOV 81	+0.76	-0.49	WS
K81- 385	44	TTNA	2	36	21-01N	53-59W	676	3 MAY 81	4 47	598P	1 OCT 81	18 NOV 81	+0.73	-1.03	WS
K81- 386	44	TTNA	2	39	25-21N	55-54W	11	6 MAY 81	2 1	437P	1 OCT 81	18 NOV 81	+1.85	-0.68	WS
K81- 387	44	TTNA	2	39	25-21N	55-54W	11	6 MAY 81	2 1	438P	5 OCT 81	19 NOV 81	+1.69	-1.35	WS
K81- 388	44	TTNA	2	39	25-21N	55-54W	11	6 MAY 81	2 1	439P	5 OCT 81	19 NOV 81	.	.	WS
K81- 389	44	TTNA	2	40	27-30N	58-35W	7	7 MAY 81	2 1	440PA	6 OCT 81	19 NOV 81	+1.68	-0.51	WS
K81- 390	44	TTNA	2	40	27-30N	58-35W	7	7 MAY 81	2 1	440PB	6 OCT 81	19 NOV 81	+1.59	-0.72	WS
K81- 391	44	TTNA	2	40	27-30N	58-35W	7	7 MAY 81	2 1	441PA	7 OCT 81	19 NOV 81	+1.64	-0.71	WS
K81- 392	44	TTNA	2	40	27-30N	58-35W	7	7 MAY 81	2 1	441PB	7 OCT 81	19 NOV 81	+1.73	-1.56	WS
K81- 393	44	TTNA	2	41	29-43N	61-18W	13	9 MAY 81	1 1	442PA	8 OCT 81	24 NOV 81	+1.71	-0.12	WS
K81- 394	44	TTNA	2	41	29-43N	61-18W	13	9 MAY 81	1 1	442PB	8 OCT 81	24 NOV 81	+1.60	-0.13	WS
K81- 395	44	TTNA	2	41	29-43N	61-18W	13	9 MAY 81	1 1	443PA	9 OCT 81	24 NOV 81	.	.	WS
K81- 396	44	TTNA	2	41	29-43N	61-18W	13	9 MAY 81	1 1	443PB	9 OCT 81	24 NOV 81	+1.78	-0.00	WS
K81- 415	45	TTNA	0	3	31-48N	50-46W	2750	23 OCT 80	5 42	280PA	22 OCT 81	21 DEC 81	+1.03	-1.79	WS
K81- 416	45	TTNA	0	3	31-48N	50-46W	2750	23 OCT 80	5 42	280PB	22 OCT 81	21 DEC 81	+1.03	-0.57	WS
K81- 417	45	TTNA	0	3	31-48N	50-46W	3667	23 OCT 80	5 47	284PA	23 OCT 81	21 DEC 81	+1.06	-0.75	WS
K81- 418	45	TTNA	0	3	31-48N	50-46W	3667	23 OCT 80	5 47	284PB	23 OCT 81	21 DEC 81	+1.03	-0.47	WS
K81- 419	45	TTNA	0	3	31-48N	50-46W	4125	23 OCT 80	5 45	288PA	27 OCT 81	21 DEC 81	+0.99	-0.58	WS
K81- 420	45	TTNA	0	3	31-48N	50-46W	4125	23 OCT 80	5 45	288PB	27 OCT 81	21 DEC 81	+1.02	-0.57	WS
K82- 100	53	TTNA	0	3	31-48N	50-46W	2612	23 OCT 80	5 41	277PA	3 FEB 82	29 MAR 82	+0.95	-0.61	WS
K82- 101	53	TTNA	0	3	31-48N	50-46W	2612	23 OCT 80	5 41	277PB	3 FEB 82	29 MAR 82	+0.98	-0.63	WS
K82- 102	53	TTNA	0	3	31-48N	50-46W	3209	23 OCT 80	5 46	282PA	4 FEB 82	29 MAR 82	+1.01	-1.18	WS
K82- 103	53	TTNA	0	3	31-48N	50-46W	3209	23 OCT 80	5 46	282PB	4 FEB 82	29 MAR 82	+0.98	-0.79	WS
K82- 104	53	TTNA	0	3	31-48N	50-46W	3675	23 OCT 80	5 48	286PA	5 FEB 82	29 MAR 82	+0.90	-0.63	WS
K82- 105	53	TTNA	0	3	31-48N	50-46W	3675	23 OCT 80	5 48	286PB	5 FEB 82	29 MAR 82	+1.06	+0.02	WS
K82- 106	53	TTNA	7	224	46-50N	43-04W	8	25 SEP 81	1 1	761P	19 FEB 82	29 MAR 82	+2.30	-1.40	WS
K82- 107	53	TTNA	7	225	46-55N	41-49W	15	26 SEP 81	3 1	763P	19 FEB 82	29 MAR 82	.	.	WS
K82- 108	53	TTNA	7	225	46-55N	41-49W	15	26 SEP 81	3 1	764P	23 FEB 82	29 MAR 82	+2.22	-1.99	WS
K82- 109	53	TTNA	7	226	46-42N	40-00W	11	26 SEP 81	3 1	501P	23 FEB 82	29 MAR 82	+1.91	-0.77	WS
K82- 110	53	TTNA	7	227	44-59N	42-02W	27	28 SEP 81	2 1	503P	24 FEB 82	29 MAR 82	+1.71	-1.06	WS

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.08 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE TYPE:

P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	O18/O16	ISO FLAGS
K82-111	53	TTNA	7	227	44-59N	42-02W	27	28 SEP 81	2 1	504P	24 FEB 82	29 MAR 82	+1.69	-0.86	WS
K82-132	55	TTNA	7	233	33-55N	49-35W	6	4 OCT 81	1 1	374P	25 FEB 82	22 APR 82	.	.	WL
K82-133	55	TTNA	7	234	31-45N	50-45W	8	5 OCT 81	4 40	538P	26 FEB 82	22 APR 82	+1.87	-0.13	WL
K82-134	55	TTNA	7	234	31-45N	50-45W	98	5 OCT 81	4 41	537P	1 MAR 82	22 APR 82	+1.58	-0.68	WL
K82-135	55	TTNA	7	234	31-45N	50-45W	159	5 OCT 81	2 2	375P	2 MAR 82	22 APR 82	+1.28	-0.51	WL
K82-136	55	TTNA	7	234	31-45N	50-45W	159	5 OCT 81	2 2	376P	2 MAR 82	22 APR 82	+1.44	+0.09	WL
K82-137	55	TTNA	7	234	31-45N	50-45W	243	5 OCT 81	4 42	540P	3 MAR 82	22 APR 82	+1.29	+0.73	WL
K82-138	55	TTNA	7	234	31-45N	50-45W	387	5 OCT 81	4 43	678P	3 MAR 82	22 APR 82	+1.28	+0.30	WL
K82-139	55	TTNA	7	234	31-45N	50-45W	387	5 OCT 81	4 43	679P	4 MAR 82	22 APR 82	+1.29	+0.19	WL
K82-140	55	TTNA	7	234	31-45N	50-45W	452	5 OCT 81	2 4	377P	4 MAR 82	22 APR 82	+1.22	+0.37	WL
K82-141	55	TTNA	7	234	31-45N	50-45W	452	5 OCT 81	2 4	378P	5 MAR 82	22 APR 82	+1.20	-0.11	WL
K82-142	55	TTNA	7	234	31-45N	50-45W	529	5 OCT 81	4 44	680P	5 MAR 82	22 APR 82	+1.14	+0.08	WL
K82-143	55	TTNA	7	234	31-45N	50-45W	529	5 OCT 81	4 44	684P	7 MAR 82	22 APR 82	+1.14	-0.58	WL
K82-144	55	TTNA	7	234	31-45N	50-45W	596	5 OCT 81	2 5	380P	8 MAR 82	22 APR 82	+1.07	-0.22	WL
K82-145	55	TTNA	7	234	31-45N	50-45W	750	5 OCT 81	2 6	533P	9 MAR 82	22 APR 82	+0.91	-0.65	WL
K82-146	55	TTNA	7	234	31-45N	50-45W	750	5 OCT 81	2 6	534P	9 MAR 82	22 APR 82	+0.84	-0.53	WL
K82-147	55	TTNA	7	248	43-01N	59-35W	7	16 OCT 81	1 1	683P	10 MAR 82	22 APR 82	+2.14	-2.20	WL
K82-148	55	TTNA	7	231	36-00N	47-01W	15	3 OCT 81	2 1	425P	10 MAR 82	23 APR 82	+1.74	-0.52	WL
K82-149	55	TTNA	7	231	36-00N	47-01W	15	3 OCT 81	2 1	426P	10 MAR 82	23 APR 82	+1.80	-0.31	WL
K82-150	55	TTNA	7	231	36-00N	47-01W	75	3 OCT 81	2 2	427P	11 MAR 82	23 APR 82	+1.48	-0.78	WL
K82-151	55	TTNA	7	231	36-00N	47-01W	75	3 OCT 81	2 2	428P	11 MAR 82	23 APR 82	+1.44	-0.28	WL
K82-152	55	TTNA	7	231	36-00N	47-01W	150	3 OCT 81	2 3	461P	12 MAR 82	23 APR 82	+1.22	-0.84	WL
K82-153	55	TTNA	7	231	36-00N	47-01W	150	3 OCT 81	2 3	462P	16 MAR 82	23 APR 82	+1.22	-1.00	WL
K82-154	55	TTNA	7	248	43-01N	59-35W	7	16 OCT 81	1 1	682P	10 MAR 82	23 APR 82	+2.11	-2.27	WL
K82-155	55	TTNA	7	231	36-00N	47-01W	247	3 OCT 81	4 40	685P	16 MAR 82	23 APR 82	+1.23	+0.07	WL
K82-198	58	TTNA	7	231	36-00N	47-01W	247	3 OCT 81	4 40	686P	16 MAR 82	21 JUN 82	+1.05	-0.59	WL
K82-197	58	TTNA	7	231	36-00N	47-01W	397	3 OCT 81	4 41	687P	17 MAR 82	21 JUN 82	+0.98	-0.74	WL
K82-198	58	TTNA	7	231	36-00N	47-01W	473	3 OCT 81	2 5	463P	18 MAR 82	23 JUN 82	+0.90	-0.44	WL
K82-199	58	TTNA	7	231	36-00N	47-01W	672	3 OCT 81	2 6	465P	23 MAR 82	23 JUN 82	+0.70	-0.49	WL
K82-200	58	TTNA	7	231	36-00N	47-01W	695	3 OCT 81	4 43	689P	24 MAR 82	23 JUN 82	+0.76	-1.10	WL
K82-201	58	TTNA	7	231	36-00N	47-01W	922	3 OCT 81	2 8	467P	25 MAR 82	21 JUN 82	+0.78	-1.22	WL
K82-202	58	TTNA	7	231	36-00N	47-01W	996	3 OCT 81	4 45	691P	25 MAR 82	21 JUN 82	+0.86	-0.17	WL
K82-203	58	TTNA	7	231	36-00N	47-01W	2093	3 OCT 81	1 42	611P	26 MAR 82	23 JUN 82	+1.07	-0.63	WL
K82-204	58	TTNA	7	231	36-00N	47-01W	3074	3 OCT 81	1 44	421P	29 MAR 82	21 JUN 82	+1.04	-0.42	WL
K82-205	58	TTNA	7	231	36-00N	47-01W	4060	3 OCT 81	1 46	423P	31 MAR 82	23 JUN 82	+0.99	-1.00	WL

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

P = SURFACE PUMP SAMPLE

BOTTLE TYPE:

P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	018/016	ISO FLAGS
K82-206	58	TTNA	7	229	39-00N	44-00W	11	1 OCT 81	3 1	807P	12 APR 82	23 JUN 82	+1.64	-0.61	WL
K82-207	58	TTNA	7	229	39-00N	44-00W	55	1 OCT 81	3 2	809P	13 APR 82	23 JUN 82	+1.64	-0.60	WL
K82-208	58	TTNA	7	229	39-00N	44-00W	152	1 OCT 81	3 3	811P	14 APR 82	23 JUN 82	+1.22	-0.89	WL
K82-209	58	TTNA	7	229	39-00N	44-00W	247	1 OCT 81	4 41	531P	14 APR 82	23 JUN 82	+1.31	+0.24	WL
K82-210	58	TTNA	7	229	39-00N	44-00W	398	1 OCT 81	3 7	525P	15 APR 82	23 JUN 82	+1.09	-0.60	WL
K82-211	58	TTNA	7	229	39-00N	44-00W	495	1 OCT 81	4 42	605P	21 APR 82	23 JUN 82	+1.01	-0.98	WL
K82-212	58	TTNA	7	229	39-00N	44-00W	602	1 OCT 81	3 8	527P	22 APR 82	23 JUN 82	+0.97	-1.42	WL
K82-213	58	TTNA	7	229	39-00N	44-00W	693	1 OCT 81	4 43	607P	26 APR 82	23 JUN 82	+0.92	-1.52	WL
K82-214	58	TTNA	7	229	39-00N	44-00W	797	1 OCT 81	3 9	529P	27 APR 82	23 JUN 82	+0.77	-0.74	WL
K82-215	58	TTNA	7	229	39-00N	44-00W	992	1 OCT 81	4 45	609P	28 APR 82	23 JUN 82	+0.70	-1.11	WL
K82-216	58	TTNA	7	229	39-00N	44-00W	2073	1 OCT 81	2 40	825P	28 APR 82	23 JUN 82	+0.83	-0.44	WL
K82-217	58	TTNA	7	229	39-00N	44-00W	3064	1 OCT 81	2 43	827P	29 APR 82	23 JUN 82	+0.95	-0.30	WL
K82-218	58	TTNA	7	229	39-00N	44-00W	4056	1 OCT 81	2 45	805P	30 APR 82	23 JUN 82	+0.95	-0.54	WL
K82-219	58	TTNA	7	228	42-01N	42-00W	84	29 SEP 81	2 41	505P	3 MAY 82	23 JUN 82	+1.05	-0.55	WL
K82-220	59	TTNA	7	231	36-00N	47-01W	473	3 OCT 81	2 5	464P	18 MAR 82	24 JUN 82	+0.89	-0.44	WF
K82-221	59	TTNA	7	231	36-00N	47-01W	672	3 OCT 81	2 6	466P	23 MAR 82	24 JUN 82	.	.	WF
K82-222	59	TTNA	7	231	36-00N	47-01W	695	3 OCT 81	4 43	690P	24 MAR 82	24 JUN 82	+1.11	-0.63	WF
K82-223	59	TTNA	7	231	36-00N	47-01W	922	3 OCT 81	2 8	468P	25 MAR 82	24 JUN 82	+1.14	-0.80	WF
K82-224	59	TTNA	7	231	36-00N	47-01W	996	3 OCT 81	4 45	692P	26 MAR 82	24 JUN 82	+0.82	-0.53	WF
K82-225	59	TTNA	7	231	36-00N	47-01W	3074	3 OCT 81	1 44	422P	30 MAR 82	24 JUN 82	+0.99	-0.18	WF
K82-226	59	TTNA	7	231	36-00N	47-01W	4060	3 OCT 81	1 46	424P	31 MAR 82	24 JUN 82	+1.02	-0.78	WF
K82-227	59	TTNA	7	229	39-00N	44-00W	11	1 OCT 81	3 1	808P	12 APR 82	24 JUN 82	+1.70	-0.57	WF
K82-228	59	TTNA	7	229	39-00N	44-00W	55	1 OCT 81	3 2	810P	13 APR 82	24 JUN 82	.	.	WF
K82-229	59	TTNA	7	229	39-00N	44-00W	152	1 OCT 81	3 3	812P	14 APR 82	24 JUN 82	+1.26	-0.32	WF
K82-230	59	TTNA	7	229	39-00N	44-00W	247	1 OCT 81	4 41	532P	15 APR 82	24 JUN 82	+1.16	-0.67	WF
K82-231	59	TTNA	7	229	39-00N	44-00W	398	1 OCT 81	3 7	526P	21 APR 82	24 JUN 82	+1.11	-0.84	WF
K82-232	59	TTNA	7	229	39-00N	44-00W	495	1 OCT 81	4 42	606P	21 APR 82	24 JUN 82	+0.95	+0.03	WF
K82-233	59	TTNA	7	229	39-00N	44-00W	602	1 OCT 81	3 8	528P	22 APR 82	24 JUN 82	+1.05	-0.52	WF
K82-234	59	TTNA	7	229	39-00N	44-00W	693	1 OCT 81	4 43	608P	26 APR 82	24 JUN 82	+0.84	-0.85	WF
K82-235	59	TTNA	7	229	39-00N	44-00W	797	1 OCT 81	3 9	530P	27 APR 82	24 JUN 82	.	.	WF
K82-236	59	TTNA	7	229	39-00N	44-00W	992	1 OCT 81	4 45	610P	28 APR 82	24 JUN 82	+0.92	-0.61	WF
K82-237	59	TTNA	7	229	39-00N	44-00W	2073	1 OCT 81	2 40	826P	29 APR 82	23 JUN 82	+1.02	-0.60	WF
K82-238	59	TTNA	7	229	39-00N	44-00W	3064	1 OCT 81	2 43	828P	30 APR 82	23 JUN 82	+1.04	-1.91	WF
K82-239	59	TTNA	7	228	42-01N	42-00W	84	29 SEP 81	2 41	506P	4 MAY 82	21 JUN 82	+1.12	-0.79	WF
K82-279	62	TTNA	7	228	42-01N	42-00W	499	29 SEP 81	3 6	433P	13 MAY 82	20 OCT 82	+0.99	-1.32	WT

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE TYPE:

P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	O18/O16	ISO FLAGS
K82-280	82	TTNA	7	228	42-01N	42-00W	679	29 SEP 81	2 44	575P	14 MAY 82	20 OCT 82	+0.78	-0.87	WT
K82-281	82	TTNA	7	228	42-01N	42-00W	975	29 SEP 81	2 46	577P	18 MAY 82	20 OCT 82	+0.88	-0.95	WT
K82-282	82	TTNA	7	228	42-01N	42-00W	2046	29 SEP 81	4 41	435P	19 MAY 82	20 OCT 82	+0.95	-1.51	WT
K82-283	82	TTNA	7	228	42-01N	42-00W	3048	29 SEP 81	4 44	821P	19 MAY 82	20 OCT 82	+1.02	-1.64	WT
K82-284	82	TTNA	7	228	42-01N	42-00W	4025	29 SEP 81	4 48	823P	20 MAY 82	20 OCT 82	+0.99	-1.72	WT
K82-285	82	TTNA	6	214	51-00N	42-58W	4p	13 SEP 81	0 0	697P	24 MAY 82	20 OCT 82	.	.	WS
K82-286	82	TTNA	6	214	51-00N	42-58W	157	13 SEP 81	7 1	699P	25 MAY 82	20 OCT 82	+1.10	-1.05	WT
K82-287	82	TTNA	6	214	51-00N	42-58W	304	13 SEP 81	7 2	509P	25 MAY 82	20 OCT 82	+1.16	-2.16	WT
K82-288	82	TTNA	6	214	51-00N	42-58W	706	13 SEP 81	7 4	511P	26 MAY 82	20 OCT 82	+0.85	-1.79	WT
K82-289	82	TTNA	6	214	51-00N	42-58W	904	13 SEP 81	7 5	513P	26 MAY 82	20 OCT 82	+0.92	-1.41	WT
K82-290	82	TTNA	6	214	51-00N	42-58W	2244	13 SEP 81	7 11	741P	1 JUN 82	20 OCT 82	+1.03	-2.33	WT
K82-291	82	TTNA	6	214	51-00N	42-58W	4236	13 SEP 81	7 22	743P	1 JUN 82	20 OCT 82	+1.00	-1.03	WT
K82-292	82	TTNA	6	206	53-55N	39-53W	4p	8 SEP 81	0 0	397P	2 JUN 82	20 OCT 82	+1.90	-1.70	WT
K82-293	82	TTNA	6	206	53-55N	39-53W	13	8 SEP 81	1 1	399P	7 JUN 82	20 OCT 82	+1.89	-2.20	WT
K82-294	82	TTNA	6	206	53-55N	39-53W	54	8 SEP 81	1 2	401P	10 JUN 82	20 OCT 82	+1.05	-1.99	WT
K82-295	82	TTNA	6	206	53-55N	39-53W	78	8 SEP 81	1 3	403P	14 JUN 82	20 OCT 82	+1.09	-1.96	WT
K82-296	82	TTNA	6	206	53-55N	39-53W	164	8 SEP 81	1 4	365P	15 JUN 82	20 OCT 82	.	.	WS
K82-297	82	TTNA	6	206	53-55N	39-53W	379	8 SEP 81	1 6	367P	16 JUN 82	20 OCT 82	+0.91	-1.35	WT
K82-298	82	TTNA	6	206	53-55N	39-53W	803	8 SEP 81	1 9	369P	17 JUN 82	20 OCT 82	+0.90	-2.18	WT
K82-300	83	TTNA	7	228	42-01N	42-00W	152	29 SEP 81	3 3	580P	4 MAY 82	25 OCT 82	+1.19	-0.46	WF
K82-301	83	TTNA	7	228	42-01N	42-00W	251	29 SEP 81	3 4	430P	6 MAY 82	25 OCT 82	+1.16	-1.04	WF
K82-302	83	TTNA	7	228	42-01N	42-00W	302	29 SEP 81	3 5	432P	7 MAY 82	25 OCT 82	+1.10	-1.09	WF
K82-303	83	TTNA	7	228	42-01N	42-00W	379	29 SEP 81	2 43	574P	13 MAY 82	25 OCT 82	+1.09	-0.32	WF
K82-304	83	TTNA	7	228	42-01N	42-00W	499	29 SEP 81	3 6	434P	14 MAY 82	25 OCT 82	+0.99	-0.82	WF
K82-305	83	TTNA	7	228	42-01N	42-00W	679	29 SEP 81	2 44	576P	18 MAY 82	25 OCT 82	+0.85	-1.13	WF
K82-306	83	TTNA	7	228	42-01N	42-00W	975	29 SEP 81	2 46	578P	18 MAY 82	25 OCT 82	+0.85	-0.42	WF
K82-307	83	TTNA	7	228	42-01N	42-00W	2046	29 SEP 81	4 41	436P	19 MAY 82	25 OCT 82	+0.99	-0.97	WF
K82-308	83	TTNA	7	228	42-01N	42-00W	4025	29 SEP 81	4 46	824P	24 MAY 82	25 OCT 82	+1.04	-1.85	WF
K82-309	83	TTNA	6	214	51-00N	42-58W	4p	13 SEP 81	0 0	698P	24 MAY 82	25 OCT 82	+1.74	-1.27	WF
K82-310	83	TTNA	6	214	51-00N	42-58W	157	13 SEP 81	7 1	700P	25 MAY 82	25 OCT 82	+1.07	-0.10	WF
K82-311	83	TTNA	6	214	51-00N	42-58W	304	13 SEP 81	7 2	510P	26 MAY 82	25 OCT 82	+1.14	-0.63	WF
K82-312	83	TTNA	6	214	51-00N	42-58W	2244	13 SEP 81	7 11	742P	1 JUN 82	25 OCT 82	+1.00	-1.16	WF
K82-313	83	TTNA	6	214	51-00N	42-58W	4236	13 SEP 81	7 22	744P	2 JUN 82	25 OCT 82	+0.98	-0.83	WF
K82-315	83	TTNA	6	206	53-55N	39-53W	13	8 SEP 81	1 1	400P	10 JUN 82	25 OCT 82	+1.80	-2.62	WF
K82-316	83	TTNA	6	206	53-55N	39-53W	54	8 SEP 81	1 2	402P	14 JUN 82	25 OCT 82	+1.01	-1.34	WF

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE TYPE:

P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	O18/O16	ISO FLAGS
K82- 317	63	TTNA	6	206	53-55N	39-53W	78	8 SEP 81	1 3	404P	15 JUN 82	25 OCT 82	+0.98	-1.34	WF
K82- 318	63	TTNA	6	206	53-55N	39-53W	164	8 SEP 81	1 4	366P	16 JUN 82	26 OCT 82	+0.96	-1.05	WF
K82- 319	63	TTNA	6	206	53-55N	39-53W	379	8 SEP 81	1 6	368P	17 JUN 82	26 OCT 82	+0.85	-1.40	WF
K82- 320	63	TTNA	6	206	53-55N	39-53W	803	8 SEP 81	1 9	370P	21 JUN 82	26 OCT 82	+0.88	-1.52	WF
K82- 321	63	TTNA	6	206	53-55N	39-53W	1001	8 SEP 81	1 10	372P	22 JUN 82	26 OCT 82	+0.95	-1.34	WF
K82- 322	63	TTNA	6	206	53-55N	39-53W	1597	8 SEP 81	1 13	616P	23 JUN 82	26 OCT 82	+0.95	-1.23	WF
K82- 323	63	TTNA	6	206	53-55N	39-53W	2052	8 SEP 81	1 15	614P	24 JUN 82	26 OCT 82	+1.00	-1.17	WF
K82- 324	63	TTNA	6	206	53-55N	39-53W	3097	8 SEP 81	1 20	618PA	25 JUN 82	26 OCT 82	+0.98	-1.31	WF
K82- 337	65	TTNA	7	228	42-01N	42-00W	152	29 SEP 81	3 3	579P	4 MAY 82	21 JAN 83	+1.22	-0.30	WL
K82- 338	65	TTNA	7	228	42-01N	42-00W	185	29 SEP 81	2 42	507P	5 MAY 82	21 JAN 83	+1.17	-0.46	WL
K82- 339	65	TTNA	7	228	42-01N	42-00W	251	29 SEP 81	3 4	429P	5 MAY 82	21 JAN 83	+1.18	-0.97	WL
K82- 340	65	TTNA	7	228	42-01N	42-00W	302	29 SEP 81	3 5	431P	6 MAY 82	21 JAN 83	+1.17	-0.73	WL
K82- 341	65	TTNA	7	228	42-01N	42-00W	379	29 SEP 81	2 43	573P	7 MAY 82	21 JAN 83	+1.13	-0.16	WL
K82- 342	65	TTNA	6	214	51-00N	42-58W	904	13 SEP 81	7 5	514P	27 MAY 82	21 JAN 83	.	.	WL
K82- 343	65	TTNA	6	214	51-00N	42-58W	1304	13 SEP 81	7 7	515P	27 MAY 82	21 JAN 83	.	.	WL
K82- 344	65	TTNA	6	214	51-00N	42-58W	1304	13 SEP 81	7 7	518P	27 MAY 82	21 JAN 83	.	.	WL
K82- 345	65	TTNA	6	206	53-55N	39-53W	4p	8 SEP 81	0 0	398P	2 JUN 82	21 JAN 83	+1.93	-1.40	WL
K82- 347	65	TTNA	6	206	53-55N	39-53W	1001	8 SEP 81	1 10	371P	21 JUN 82	21 JAN 83	.	.	WL
K82- 348	65	TTNA	6	206	53-55N	39-53W	1597	8 SEP 81	1 13	615P	22 JUN 82	21 JAN 83	+1.01	-1.00	WL
K82- 349	65	TTNA	6	206	53-55N	39-53W	2052	8 SEP 81	1 15	613P	23 JUN 82	21 JAN 83	+1.05	+0.16	WL
K82- 350	65	TTNA	6	206	53-55N	39-53W	3097	8 SEP 81	1 20	617P	24 JUN 82	21 JAN 83	+1.01	-0.94	WL
K82- 351	65	TTNA	6	206	53-55N	39-53W	3097	8 SEP 81	1 20	618PB	25 JUN 82	21 JAN 83	+1.03	-1.68	WL
K82- 353	65	TTNA	6	177	58-40N	38-16W	103	26 AUG 81	3 1	325PA	9 JUL 82	21 JAN 83	.	.	WL
K82- 354	65	TTNA	6	177	58-40N	38-16W	103	26 AUG 81	3 1	326PA	12 JUL 82	21 JAN 83	+1.05	-1.60	WL
K82- 355	65	TTNA	6	177	58-40N	38-16W	192	26 AUG 81	3 2	328P	13 JUL 82	21 JAN 83	+0.99	-1.76	WL
K82- 356	65	TTNA	6	177	58-40N	38-16W	253	26 AUG 81	3 3	330P	14 JUL 82	21 JAN 83	+1.05	-1.30	WL
K82- 357	65	TTNA	6	177	58-40N	38-16W	504	26 AUG 81	3 5	332P	15 JUL 82	21 JAN 83	+1.04	-0.98	WL
K82- 358	65	TTNA	6	177	58-40N	38-16W	604	26 AUG 81	3 6	677P	16 JUL 82	21 JAN 83	+1.00	-1.85	WL
K82- 359	65	TTNA	6	177	58-40N	38-16W	4p	26 AUG 81	0 0	476P	19 JUL 82	21 JAN 83	+1.70	-1.26	WL
K82- 360	65	TTNA	6	177	58-40N	38-16W	830	26 AUG 81	3 9	752P	20 JUL 82	21 JAN 83	+1.01	-1.03	WL
K82- 367	66	TTNA	6	177	58-40N	38-16W	103	26 AUG 81	3 1	325PB	9 JUL 82	21 OCT 83	+1.16	-2.04	WF
K82- 368	66	TTNA	6	177	58-40N	38-16W	103	26 AUG 81	3 1	326PB	12 JUL 82	21 OCT 83	+1.12	-1.20	WF
K82- 369	66	TTNA	6	177	58-40N	38-16W	192	26 AUG 81	3 2	327P	13 JUL 82	21 OCT 83	+1.11	-1.31	WF
K82- 370	66	TTNA	6	177	58-40N	38-16W	253	26 AUG 81	3 3	329P	14 JUL 82	21 OCT 83	+1.19	-1.33	WF
K82- 371	66	TTNA	6	177	58-40N	38-16W	504	26 AUG 81	3 5	331P	14 JUL 82	21 OCT 83	+1.08	-1.54	WF

FLAGS:

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S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE TYPE:

P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	O18/O16	ISO FLAGS
K82-372	66	TTNA	6	177	58-40N	38-16W	604	26 AUG 81	3 6	749P	15 JUL 82	21 OCT 83	+1.12	-0.90	WF
K82-373	66	TTNA	6	177	58-40N	38-16W	4p	26 AUG 81	0 0	475P	19 JUL 82	21 OCT 83	+1.77	-0.92	WF
K82-374	66	TTNA	6	177	58-40N	38-16W	830	26 AUG 81	3 9	751P	20 JUL 82	21 OCT 83	+1.12	-1.68	WF
K82-375	66	TTNA	6	177	58-40N	38-16W	1550	26 AUG 81	3 13	753P	20 JUL 82	21 OCT 83	+1.11	-1.06	WF
K82-376	66	TTNA	6	177	58-40N	38-16W	2587	26 AUG 81	3 17	755P	21 JUL 82	21 OCT 83	+1.13	-1.10	WF
K82-377	66	TTNA	6	177	58-40N	38-16W	3159	26 AUG 81	3 21	829P	28 JUL 82	21 OCT 83	+1.13	-1.31	WF
K82-378	66	TTNA	5	167	64-05N	33-19W	13	13 AUG 81	4 40	455P	22 JUL 82	21 OCT 83	+1.75	-1.14	WF
K82-379	66	TTNA	5	167	64-05N	33-19W	70	13 AUG 81	3 80	453P	27 JUL 82	21 OCT 83	+1.13	-1.27	WF
K82-380	66	TTNA	5	167	64-05N	33-19W	104	13 AUG 81	4 41	457P	28 JUL 82	21 OCT 83	+1.08	-0.96	WF
K82-421	69	TTNA	5	167	64-05N	33-19W	296	13 AUG 81	6 40	782P	3 AUG 82	29 OCT 82	+0.98	-1.20	WS
K82-422	69	TTNA	5	167	64-05N	33-19W	837	13 AUG 81	6 44	788P	5 AUG 82	29 OCT 82	+0.95	-2.36	WS
K82-423	69	TTNA	5	167	64-05N	33-19W	1233	13 AUG 81	6 46	788P	6 AUG 82	29 OCT 82	+0.93	-2.58	WS
K82-424	69	TTNA	5	167	64-05N	33-19W	1966	13 AUG 81	2 40	410P	9 AUG 82	29 OCT 82	+1.02	-2.02	WS
K82-425	69	TTNA	5	167	64-05N	33-19W	2317	13 AUG 81	2 48	412P	10 AUG 82	29 OCT 82	+1.05	-2.05	WS
K82-426	69	TTNA	5	159	68-44N	10-34W	11	6 AUG 81	4 40	780P	11 AUG 82	29 OCT 82	+2.22	-2.08	WS
K82-427	69	TTNA	5	159	68-44N	10-34W	201	6 AUG 81	4 42	520P	12 AUG 82	29 OCT 82	+1.05	-1.68	WS
K82-428	69	TTNA	5	159	68-44N	10-34W	301	6 AUG 81	4 43	522P	16 AUG 82	29 OCT 82	+1.09	-1.85	WS
K82-429	69	TTNA	5	159	68-44N	10-34W	399	6 AUG 81	4 44	524P	16 AUG 82	1 NOV 82	+1.00	-1.89	WS
K82-430	69	TTNA	5	159	68-44N	10-34W	500	6 AUG 81	4 45	542P	17 AUG 82	1 NOV 82	+0.98	-1.60	WS
K82-431	69	TTNA	5	159	68-44N	10-34W	600	6 AUG 81	4 46	544P	18 AUG 82	1 NOV 82	+1.00	-1.63	WS
K82-432	69	TTNA	5	159	68-44N	10-34W	949	6 AUG 81	1 40	778P	20 AUG 82	1 NOV 82	+1.05	-2.15	WS
K82-433	69	TTNA	5	159	68-44N	10-34W	2140	6 AUG 81	1 48	778P	30 AUG 82	1 NOV 82	+1.02	-2.05	WS
K82-434	69	TTNA	5	148	74-56N	1-08W	9	30 JUL 81	5 40	682P	31 AUG 82	1 NOV 82	+2.22	-2.23	WS
K82-435	69	TTNA	5	148	74-56N	1-08W	13	30 JUL 81	2 2	682P	1 SEP 82	2 NOV 82	+2.15	-2.02	WS
K82-436	69	TTNA	5	148	74-56N	1-08W	77	30 JUL 81	5 41	584P	2 SEP 82	2 NOV 82	+1.08	-2.16	WS
K82-437	69	TTNA	5	148	74-56N	1-08W	247	30 JUL 81	5 42	590P	3 SEP 82	2 NOV 82	+1.25	-2.32	WS
K82-438	69	TTNA	5	148	74-56N	1-08W	444	30 JUL 81	5 43	592P	7 SEP 82	2 NOV 82	+1.05	-2.73	WS
K82-439	69	TTNA	5	148	74-56N	1-08W	740	30 JUL 81	4 40	686P	8 SEP 82	2 NOV 82	+1.04	-2.35	WS
K82-440	70	TTNA	5	167	64-05N	33-19W	203	13 AUG 81	4 42	459P	30 JUL 82	29 OCT 82	+0.98	-1.38	WF
K82-441	70	TTNA	5	167	64-05N	33-19W	296	13 AUG 81	6 40	781P	3 AUG 82	29 OCT 82	+0.94	-1.65	WF
K82-442	70	TTNA	5	167	64-05N	33-19W	396	13 AUG 81	6 41	783P	4 AUG 82	29 OCT 82	+0.97	-1.98	WF
K82-443	70	TTNA	5	167	64-05N	33-19W	837	13 AUG 81	6 44	785P	4 AUG 82	29 OCT 82	+0.89	-1.16	WF
K82-444	70	TTNA	5	167	64-05N	33-19W	1233	13 AUG 81	6 46	787P	5 AUG 82	29 OCT 82	+0.95	-1.42	WF
K82-445	70	TTNA	5	167	64-05N	33-19W	1966	13 AUG 81	2 40	409P	6 AUG 82	29 OCT 82	+1.01	-2.16	WF
K82-446	70	TTNA	5	167	64-05N	33-19W	2317	13 AUG 81	2 48	411P	9 AUG 82	29 OCT 82	+1.05	-1.94	WF

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.08 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

p = SURFACE PUMP SAMPLE
BOTTLE TYPE:
P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	018/016	ISO FLAGS
K82-447	70	TTNA	5	159	68-44N	10-34W	11	8 AUG 81	4 40	779P	10 AUG 82	29 OCT 82	+2.27	-1.74	WF
K82-448	70	TTNA	5	159	68-44N	10-34W	76	8 AUG 81	4 41	517P	11 AUG 82	29 OCT 82	+1.13	-1.46	WF
K82-449	70	TTNA	5	159	68-44N	10-34W	201	8 AUG 81	4 42	519P	12 AUG 82	29 OCT 82	+1.13	-2.23	WF
K82-450	70	TTNA	5	159	68-44N	10-34W	301	8 AUG 81	4 43	521P	12 AUG 82	29 OCT 82	+1.11	-1.86	WF
K82-451	70	TTNA	5	159	68-44N	10-34W	399	8 AUG 81	4 44	523P	17 AUG 82	1 NOV 82	+0.98	-1.53	WF
K82-452	70	TTNA	5	159	68-44N	10-34W	500	8 AUG 81	4 45	541P	17 AUG 82	1 NOV 82	+1.02	-1.95	WF
K82-453	70	TTNA	5	159	68-44N	10-34W	600	8 AUG 81	4 46	543P	18 AUG 82	1 NOV 82	+0.99	-1.63	WF
K82-454	70	TTNA	5	159	68-44N	10-34W	797	8 AUG 81	4 48	545P	19 AUG 82	1 NOV 82	+1.07	-1.90	WF
K82-455	70	TTNA	5	159	68-44N	10-34W	949	8 AUG 81	1 40	775P	20 AUG 82	1 NOV 82	+1.03	-1.86	WF
K82-456	70	TTNA	5	159	68-44N	10-34W	2140	8 AUG 81	1 48	777P	30 AUG 82	1 NOV 82	+1.02	-2.20	WF
K82-457	70	TTNA	5	148	74-56N	1-08W	9	30 JUL 81	5 40	561P	31 AUG 82	1 NOV 82	+1.24	-1.90	WF
K82-458	70	TTNA	5	148	74-56N	1-08W	13	30 JUL 81	2 2	661P	1 SEP 82	2 NOV 82	+2.26	-2.08	WF
K82-459	70	TTNA	5	148	74-56N	1-08W	77	30 JUL 81	5 41	563P	2 SEP 82	2 NOV 82	+1.07	-2.17	WF
K82-460	71	TTNA	5	148	74-56N	1-08W	247	30 JUL 81	5 42	589P	2 SEP 82	9 NOV 82	+1.11	-2.29	WF
K82-461	71	TTNA	5	148	74-56N	1-08W	444	30 JUL 81	5 43	591P	3 SEP 82	9 NOV 82	+1.16	-2.53	WF
K82-462	71	TTNA	5	148	74-56N	1-08W	740	30 JUL 81	4 40	665P	7 SEP 82	9 NOV 82	+1.09	-2.04	WF
K82-463	71	TTNA	5	148	74-56N	1-08W	937	30 JUL 81	4 42	667P	8 SEP 82	9 NOV 82	+1.10	-1.67	WF
K82-464	71	TTNA	5	148	74-56N	1-08W	1879	30 JUL 81	4 46	557P	10 SEP 82	9 NOV 82	+1.07	-1.88	WF
K82-465	71	TTNA	5	148	74-56N	1-08W	2482	30 JUL 81	4 48	559P	21 SEP 82	9 NOV 82	+1.14	-1.48	WF
K82-466	71	TTNA	5	148	74-56N	1-08W	2978	30 JUL 81	2 32	663P	22 SEP 82	9 NOV 82	+1.13	-2.70	WF
K82-467	71	TTNA	5	149	76-53N	1-02E	11	31 JUL 81	2 2	593P	22 SEP 82	9 NOV 82	+2.00	-1.81	WF
K82-468	71	TTNA	5	158	71-10N	7-29W	5	5 AUG 81	1 1	595P	23 SEP 82	9 NOV 82	.	.	WF
K82-469	71	TTNA	5	143	64-50N	6-14W	9	25 JUL 81	4 1	769P	24 SEP 82	11 NOV 82	+1.79	-1.89	WF
K82-470	71	TTNA	5	145	70-00N	2-29E	14	27 JUL 81	5 1	417P	27 SEP 82	11 NOV 82	+1.97	-2.05	WF
K82-471	71	TTNA	5	146	72-25N	2-04E	10	29 JUL 81	1 1	419P	28 SEP 82	11 NOV 82	+2.02	-1.86	WF
K82-472	71	TTNA	5	144	67-41N	3-20W	12	26 JUL 81	5 42	415P	28 SEP 82	11 NOV 82	+1.79	-1.73	WF
K82-473	71	TTNA	6	207	53-05N	37-51W	7	9 SEP 81	1 1	619P	29 SEP 82	11 NOV 82	+1.88	-1.78	WF
K82-474	71	TTNA	6	209	50-05N	37-52W	10	10 SEP 81	1 1	791P	30 SEP 82	11 NOV 82	+1.87	-2.85	WF
K82-475	71	TTNA	6	211	47-40N	37-50W	10	11 SEP 81	2 1	795P	30 SEP 82	11 NOV 82	+1.77	-1.65	WF
K82-476	71	TTNA	4	124	53-15N	38-41W	14	6 JUL 81	3 1	721P	1 OCT 82	11 NOV 82	+1.09	-2.60	WF
K82-477	72	TTNA	6	177	58-40N	38-16W	1550	26 AUG 81	3 13	754P	21 JUL 82	9 NOV 82	+0.99	-1.93	WL
K82-478	72	TTNA	6	177	58-40N	38-16W	2587	26 AUG 81	3 17	756P	22 JUL 82	9 NOV 82	+0.99	-2.20	WL
K82-479	72	TTNA	6	177	58-40N	38-16W	3159	26 AUG 81	3 21	830P	26 JUL 82	9 NOV 82	+1.03	-1.54	WL
K82-480	72	TTNA	5	167	64-05N	33-19W	13	13 AUG 81	4 40	456P	27 JUL 82	9 NOV 82	+1.71	-2.07	WL
K82-481	72	TTNA	5	167	64-05N	33-19W	70	13 AUG 81	3 80	454P	28 JUL 82	9 NOV 82	+1.03	-1.57	WL

FLAGS:

W = WATER SAMPLE
F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
L = LONG TUBE (FOR ISOTOPE SHIPMENT)
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12 VALUE)
T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

p = SURFACE PUMP SAMPLE
BOTTLE TYPE:
P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 11 (CONT.). CARBON AND OXYGEN ISOTOPE DATA AND SAMPLE INFORMATION

EXTRC NO.	SHIPMT NO.	EXP	LEG	STN	LAT	LONG	DEPTH (M)	SAMPLE DATE	NISK CAST	BOTTLE	EXTRAC DATE	ISO ANAL DATE	C13/C12	O18/O16	ISO FLAGS
K82-482	72	TTNA	5	167	64-05N	33-19W	104	13 AUG 81	4 41	458P	30 JUL 82	9 NOV 82	+1.01	-2.08	WL
K82-483	72	TTNA	5	167	64-05N	33-19W	203	13 AUG 81	4 42	460P	3 AUG 82	9 NOV 82	+1.00	-2.17	WL
K82-484	72	TTNA	5	148	74-56N	1-08W	937	30 JUL 81	4 42	668P	10 SEP 82	9 NOV 82	+0.97	-2.58	WL
K82-485	72	TTNA	5	148	74-56N	1-08W	1879	30 JUL 81	4 46	558P	21 SEP 82	9 NOV 82	+1.13	-1.85	WL
K82-486	72	TTNA	5	149	76-53N	1-02E	11	31 JUL 81	2 2	594P	23 SEP 82	9 NOV 82	+1.95	-2.90	WL
K82-487	72	TTNA	5	143	64-50N	6-14W	9	25 JUL 81	4 1	770P	27 SEP 82	11 NOV 82	+2.12	-3.05	WL
K82-488	72	TTNA	5	145	70-00N	2-29E	14	27 JUL 81	5 1	418P	27 SEP 82	11 NOV 82	+1.99	-1.75	WL
K82-489	72	TTNA	5	146	72-25N	2-04E	10	29 JUL 81	1 1	420P	28 SEP 82	11 NOV 82	+1.90	-1.24	WL
K82-490	72	TTNA	5	144	67-41N	3-20W	12	26 JUL 81	5 42	416P	29 SEP 82	11 NOV 82	+2.05	-1.67	WL
K82-491	72	TTNA	6	207	53-05N	37-51W	7	9 SEP 81	1 1	620P	29 SEP 82	11 NOV 82	+1.89	-2.23	WL
K82-492	72	TTNA	6	209	50-05N	37-52W	10	10 SEP 81	1 1	792P	30 SEP 82	11 NOV 82	+1.84	-1.64	WL
K82-493	72	TTNA	6	211	47-40N	37-50W	10	11 SEP 81	2 1	796P	1 OCT 82	11 NOV 82	+1.82	-1.97	WL
K82-494	72	TTNA	4	124	53-15N	36-41W	14	6 JUL 81	3 1	722P	1 OCT 82	11 NOV 82	+1.42	-2.10	WL
K83-1	75	TTNA	6	210	48-50N	37-50W	13	10 SEP 81	1 1	793PA	13 DEC 82	11 FEB 83	+1.83	+0.27	WF
K83-2	75	TTNA	6	210	48-50N	37-50W	13	10 SEP 81	1 1	793PB	13 DEC 82	11 FEB 83	+1.79	-0.64	WF
K83-3	75	TTNA	6	210	48-50N	37-50W	13	10 SEP 81	1 1	794PA	14 DEC 82	11 FEB 83	+1.82	-1.05	WF
K83-4	75	TTNA	6	210	48-50N	37-50W	13	10 SEP 81	1 1	794PB	14 DEC 82	11 FEB 83	+1.82	-0.82	WF
K84-54	97	TTNA	4	125	55-00N	34-41W	13	7 JUL 81	1 1	724P	6 JAN 84	7 AUG 84	+0.33	-0.15	WL
K84-55	97	TTNA	4	126	57-00N	32-20W	14	8 JUL 81	2 1	670P	9 JAN 84	7 AUG 84	+1.43	-0.36	WL
K84-56	97	TTNA	4	127	58-30N	30-00W	10	8 JUL 81	2 1	671P	9 JAN 84	7 AUG 84	+1.49	+0.77	WL
K84-57	97	TTNA	5	141	58-34N	11-33W	14	23 JUL 81	2 1	707P	11 JAN 84	7 AUG 84	.	.	WL
K84-78	98	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4 1	647PB	4 JAN 84	20 JUN 84	+1.31	+0.58	WF
K84-79	98	TTNA	3	43	31-46N	50-45W	10	18 MAY 81	4 1	648PA	5 JAN 84	20 JUN 84	+1.52	-0.25	WF
K84-80	98	TTNA	4	125	55-00N	34-41W	13	7 JUL 81	1 1	723P	6 JAN 84	20 JUN 84	+1.15	-1.14	WF
K84-81	98	TTNA	5	141	58-34N	11-33W	14	23 JUL 81	2 1	708P	11 JAN 84	20 JUN 84	+1.52	-0.02	WF

FLAGS:

W = WATER SAMPLE
 F = FLAME-OFF TUBE (FOR ISOTOPE SHIPMENT)
 L = LONG TUBE (FOR ISOTOPE SHIPMENT)
 S = SHORT TUBE (-0.08 CORR APPLIED TO C13/12 VALUE)
 T = TRANSFER TO SHORT TUBE (-0.13 C13/12 CORR APPLIED)

DEPTH:

p = SURFACE PUMP SAMPLE

BOTTLE TYPE:

P = PYREX

NOTE: OXYGEN 18/16 DATA ARE IMPORTANT ONLY IN CONNECTION WITH
 SAMPLE PROCESSING AND MASS SPECTROMETER PERFORMANCE

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12. SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			018/016 RATIO	
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG			
0-3	31-48N 50-48W	5 41	2612	23OCT80	3FEB82	29MAR82	53 100	S	277PA		+0.95	+0.03	+0.96	+0.96	-0.61	
					3FEB82	29MAR82	53 101	S	277PB		+0.98				-0.03	
	5 42	2750	22OCT81	21DEC81	45 415	S	280PA		+1.03	+0.00	+1.03	+1.03	-1.79			
			22OCT81	21DEC81	45 416	S	280PB		+1.03				-0.57			
	5 46	3209	4FEB82	29MAR82	53 102	S	282PA		+1.01	-0.03	+1.00	+1.00	-1.18			
			4FEB82	29MAR82	53 103	S	282PB		+0.98				-0.79			
5 47	3667	23OCT81	21DEC81	45 417	S	284PA		+1.06	-0.03	+1.04	+1.04	-0.75				
		23OCT81	21DEC81	45 418	S	284PB		+1.03				-0.47				
5 48	3675	5FEB82	29MAR82	53 104	S	286PA		+0.90	+0.16	+0.98	+0.98	-0.03				
		5FEB82	29MAR82	53 105	S	286PB		+1.06				+0.02				
5 45	4125	27OCT81	21DEC81	45 419	S	288PA		+0.99	+0.03	+1.00	+1.00	-0.58				
		27OCT81	21DEC81	45 420	S	288PB		+1.02				-0.57				
1-1	39-48N 70-05W	2 27	10	2APR81	28MAY81	28JUL81	37 230	L	309P		+1.20		+1.20	-0.05	+1.18	-1.00
					28MAY81	28JUL81	37 231	L	310P		+1.15		+1.15		-0.56	
1-3	38-17N 69-10W	1 1	12	3APR81	1JUN81	28JUL81	37 232	L	311P		+1.20		+1.20	-0.07	+1.16	-3.23
					1JUN81	28JUL81	37 233	L	312P		+1.13		+1.13		-0.61	
1-5	36-00N 68-00W	2 1	10	5APR81	2JUN81	28JUL81	37 234	L	313P		+1.67		+1.67	+0.03	+1.68	+0.02
					2JUN81	28JUL81	37 235	L	314P		+1.70		+1.70		-0.51	
1-6	34-41N 67-21W	2 1	11	5APR81	3JUN81	28JUL81	37 236	L	315P		+1.66		+1.66	+0.04	+1.68	-0.22
					3JUN81	28JUL81	37 237	L	316P		+1.70		+1.70		-0.11	

DEPTH:

p = SURFACE PUMP SAMPLE
TUBE TYPE (FOR ISOTOPE SHIPMENT):
F = FLAME-OFF TUBE
L = LONG TUBE
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12)
T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)
BOTTLE TYPE:
P = PYREX

FLAGS:

& = REJECTED FOR CAUSE; AIR IN SAMPLE
= REJECTED FOR STATISTICS
* = REJECTED PEREMPTORILY FOR LONG STORAGE

NOTE:

SHIPMENT AND EXTRACTION NOS. ARE FOR USE IN DATA MANAGEMENT ONLY (EXTRACTION NO., E.G., 147, CORRESPONDS TO FULL NO. OF KXX-147, WHERE XX IS YEAR OF EXTRACTION; IN THIS EXAMPLE, 82)

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			018/016 RATIO
											ALIQ DELTA	ALIQ DELTA	"NISKIN" AVG	
1-7	31-40N 68-30W	3 1	12	7APR81	4JUN81	29JUL81	37 238	L	318P		+1.50	+1.50	+1.50	-0.55
1-8	31-20N 71-30W	3 1	12	8APR81	4JUN81 8JUN81	29JUL81 29JUL81	37 239 37 240	L L	319P 320P		+1.55	+1.55	+1.55	-1.25
1-11	30-50N 74-03W	2 1	7	10APR81	8JUN81 9JUN81	29JUL81 29JUL81	37 241 37 242	L L	321P 322P		+1.58 +1.48	+1.58 +1.48	-0.08 +1.52	-0.11 -0.90
1-13	29-56N 77-21W	1 89	9	11APR81	9JUN81	29JUL81	37 243	L	324P		+1.67	+1.67	+1.67	-0.84
2-15	25-35N 76-23W	2 1	11	17APR81	10JUN81 10JUN81	29JUL81 29JUL81	37 244 37 245	L L	341P 342P		+1.68 +1.65	+1.68 +1.65	-0.03 +1.66	-0.53 -0.79
2-16	22-51N 73-10W	2 1	13	19APR81	10JUN81 10JUN81	29JUL81 29JUL81	37 246 37 247	L L	343P 344P		+1.67 +1.69	+1.67 +1.69	+0.02 +1.68	-1.34 -0.93
2-20	25-47N 70-26W	2 1	13	21APR81	11JUN81 11JUN81	29JUL81 29JUL81	37 248 37 249	L L	345P 346P		+1.63 +1.68	+1.63 +1.68	+0.05 +1.66	-0.18 -0.26
2-22	25-47N 66-00W	1 1	13	23APR81	12JUN81 12JUN81	29JUL81 29JUL81	37 250 37 251	L L	347P 348P		+1.65 +1.58	+1.65 +1.58	-0.07 +1.62	-0.31 -1.92
2-24	23-18N 64-10W	2 1	12	24APR81	15JUN81 15JUN81	4AUG81 4AUG81	36 214 36 215	S S	445P 446P		+1.59 +1.64	+1.59 +1.64	+0.05 +1.62	-0.95 -0.83

DEPTH:

p = SURFACE PUMP SAMPLE
TUBE TYPE (FOR ISOTOPE SHIPMENT):
F = FLAME-OFF TUBE
L = LONG TUBE
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12)
T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)
BOTTLE TYPE:
P = PYREX

FLAGS:

& = REJECTED FOR CAUSE; AIR IN SAMPLE
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* = REJECTED PEREMPTORILY FOR LONG STORAGE

NOTE:

SHIPMENT AND EXTRACTION NOS. ARE FOR USE IN DATA MANAGEMENT ONLY (EXTRACTION NO., E.G., 147, CORRESPONDS TO FULL NO. OF KXX-147, WHERE XX IS YEAR OF EXTRACTION; IN THIS EXAMPLE, 82)

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			018/016 RATIO
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG		
2-26	20-47N 62-16W	2 1	11	26APR81	16JUN81	4AUG81	38 216	S	447P		+1.83	+1.83	+1.83	-1.37	
2-28	18-07N 60-39W	3 1	12	27APR81	16JUN81	5AUG81	38 217	S	450P		+1.76	+1.76	+1.76	-1.13	
2-29	17-08N 59-31W	1 1	11	28APR81	17JUN81	5AUG81	38 218	S	451P		+1.89	+1.89	+0.02	+1.90	-1.11
					17JUN81	5AUG81	38 219	S	452P		+1.91	+1.91		-1.07	

DEPTH:

p = SURFACE PUMP SAMPLE
 TUBE TYPE (FOR ISOTOPE SHIPMENT):
 F = FLAME-OFF TUBE
 L = LONG TUBE
 S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12)
 T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)
 BOTTLE TYPE:
 P = PYREX

FLAGS:

& = REJECTED FOR CAUSE; AIR IN SAMPLE
 # = REJECTED FOR STATISTICS
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NOTE:

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			O18/O16 RATIO	
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG		
2-32	15-03N 53-57W	0 0	4p	30APR81	19JUN81	5AUG81	36 222	S	496P		+1.80	+1.80	-0.06	+1.77	-0.89
					19JUN81	5AUG81	36 223	S	498P		+1.74	+1.74			-1.31
		2 1	11		18JUN81	5AUG81	36 220	S	493P		+1.78	+1.78	+0.09	+1.82	-2.33
					18JUN81	5AUG81	36 221	S	494P		+1.87	+1.87			-0.93
		4 41	99		23JUN81	5AUG81	36 226	S	499P		+1.81	+1.81	-0.04	+1.79	-0.56
					23JUN81	5AUG81	36 227	S	500P		+1.77	+1.77			-0.97
		4 43	152		24JUN81	10SEP81	39 274	L	565P					+1.27	
					24JUN81	29JUL81	37 252	L	566P		+1.27	+1.27			+0.10
		4 44	253		20JUL81	14SEP81	39 294	L	567P		+0.82	+0.82	-0.08	+0.78	-1.16
					20JUL81	14SEP81	39 295	L	568P		+0.74	+0.74			-2.53
		4 45	352		21JUL81	14SEP81	39 296	L	569P		+0.60	+0.60	-0.04	+0.58	-0.78
					21JUL81	14SEP81	39 297	L	570P		+0.56	+0.56			-1.41
		4 47	749		22JUL81	23OCT81	41 318	L	571P		+0.59	+0.59	+0.01	+0.60	-1.36
					22JUL81	23OCT81	41 317	L	572P		+0.60	+0.60			-1.72
		5 44	1097		22JUL81	23OCT81	41 318	L	485P		+0.85	+0.85	-0.11	+0.80	-0.85
					23JUL81	23OCT81	41 319	L	486P		+0.74	+0.74			-1.64
		5 45	1982		23JUL81	23OCT81	41 320	L	487P	&	+0.37	+0.37	+0.66	+0.70	-2.37
					23JUL81	23OCT81	41 321	L	488P	&	+1.03	+1.03			-0.79
		5 48	2970		27JUL81	23OCT81	41 322	L	489P					+1.02	
					27JUL81	23OCT81	41 323	L	490P		+1.02	+1.02			-1.68
		3 44	3993		22JUN81	5AUG81	36 224	S	497P		+0.95	+0.95	+0.06	+0.98	-1.39
					22JUN81	5AUG81	36 225	S	498P		+1.01	+1.01			-1.24

DEPTH:

p = SURFACE PUMP SAMPLE
TUBE TYPE (FOR ISOTOPE SHIPMENT):
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO				O18/O16 RATIO
											ALIQ DELTA	ALIQ DELTA	BOTTLE BOTTL DELTA	"NISKIN" AVG	
2-34	18-02N 53-58W	0 0	4p	2MAY81	29JUL81	26OCT81	41 328	L	477P		+1.93	+1.93	-0.05	+1.90	-0.63
					29JUL81	26OCT81	41 327	L	478P		+1.88	+1.88			-0.59
		2 1	8		28JUL81	23OCT81	41 324	L	491P		+1.85	+1.85	+0.01	+1.86	-1.27
					28JUL81	26OCT81	41 325	L	492P		+1.86	+1.86			-1.27
		2 2	71		29JUL81	26OCT81	41 328	L	479P		+1.96	+1.96	+0.00	+1.96	-0.57
					30JUL81	26OCT81	41 329	L	480P		+1.96	+1.96			-0.79
		2 4	146		30JUL81	27OCT81	41 330	L	481P		+1.43	+1.43	+0.04	+1.45	-0.32
					31JUL81	27OCT81	41 331	L	482P		+1.47	+1.47			-0.44
		2 6	247		31JUL81	27OCT81	41 332	L	483P		+1.08	+1.08	+0.02	+1.09	-1.12
					8SEP81	27OCT81	41 333	L	484P		+1.10	+1.10			-1.22
		2 8	346		8SEP81	27OCT81	41 334	L	581P		+0.80	+0.80	+0.06	+0.83	-0.84
					9SEP81	27OCT81	41 335	L	582P		+0.86	+0.86			-1.33
		2 11	667		9SEP81	27OCT81	41 336	L	583P		+0.72	+0.72	-0.16	+0.64	-0.85
					10SEP81	27OCT81	41 337	L	584P		+0.56	+0.56			-1.38
		2 13	962		10SEP81	27OCT81	41 338	L	585P		+0.68	+0.68	+0.00	+0.68	-1.12
					11SEP81	27OCT81	41 339	L	586P		+0.68	+0.68			-1.48
		2 18	1975		11SEP81	27OCT81	41 340	L	587P		+0.94	+0.94	-0.03	+0.92	-1.45
					16SEP81	27OCT81	41 341	L	588P		+0.91	+0.91			-1.09
		2 20	2951		16SEP81	11NOV81	43 361	S	629P		+1.00	+1.00	+0.00	+1.00	-0.99
					16SEP81	11NOV81	43 362	S	630P		+1.00	+1.00			-1.93
		2 22	3928		16SEP81	11NOV81	43 363	S	631P		+0.94	+0.94	-0.08	+0.90	-0.84
					17SEP81	11NOV81	43 364	S	632P		+0.86	+0.86			-1.25

DEPTH:

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	C13/C12 ISOTOPE RATIO				O18/O16 RATIO
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG	BOTTLE DELTA	
2-36	21-01N 53-59W	0 0	4p	3MAY81	18SEP81	11NOV81	43 367	S	363P		+1.91	+1.91	+0.02	+1.92	-1.74
					18SEP81	11NOV81	43 368	S	364P		+1.93	+1.93			-1.46
		4 40	10		24SEP81	12NOV81	43 375	S	549P		+1.89	+1.89	-0.03	+1.88	-0.45
					24SEP81	12NOV81	43 376	S	550P		+1.86	+1.86			-0.45
		4 45	70		28SEP81	12NOV81	43 378	S	551P		+1.80	+1.80	-0.13	+1.74	-0.86
					28SEP81	12NOV81	43 379	S	552P		+1.67	+1.67			-0.90
		4 44	159		29SEP81	12NOV81	43 380	S	553P		+1.37	+1.37	+0.00	+1.37	-0.33
					29SEP81	18NOV81	44 381	S	554P		+1.37	+1.37			-0.64
		4 41	239		29SEP81	18NOV81	44 382	S	555P		+1.28	+1.28	-0.05	+1.26	-0.92
					30SEP81	18NOV81	44 383	S	556P		+1.23	+1.23			-0.58
		2 7	365		17SEP81	11NOV81	43 365	S	633P		+1.10	+1.10	-0.04	+1.08	-1.00
					17SEP81	12NOV81	43 366	S	634P		+1.06	+1.06			-0.37
		4 47	676		30SEP81	18NOV81	44 384	S	597P		+0.76	+0.76	-0.03	+0.74	-0.49
					10OCT81	18NOV81	44 385	S	598P		+0.73	+0.73			-1.03
		2 12	994		21SEP81	12NOV81	43 389	S	635P		+0.73	+0.73	-0.06	+0.70	-1.29
					21SEP81	12NOV81	43 370	S	636P		+0.67	+0.67			-1.67
		2 16	1973		22SEP81	12NOV81	43 371	S	357P		+1.02	+1.02	-0.02	+1.01	-0.83
					22SEP81	12NOV81	43 372	S	358P		+1.00	+1.00			-0.67
		2 18	2925		23SEP81	12NOV81	43 373	S	359P		+0.97	+0.97	+0.06	+1.00	-0.96
					23SEP81	12NOV81	43 374	S	360P		+1.03	+1.03			-0.76
		2 20	3899		25SEP81	12NOV81	43 377	S	361P		+1.00	+1.00	+1.00	-1.73	

DEPTH:

p = SURFACE PUMP SAMPLE

TUBE TYPE (FOR ISOTOPE SHIPMENT):

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			O18/O16 RATIO
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG	
2-38	23-51N 54-03W	0 0	4p	5MAY81	26JUN81	5AUG81	36 228	S	599P		+1.75	+1.75	+1.75	-0.81
		2 1	11		29JUN81	10SEP81	39 276	L	601P		+1.81	+1.81 +0.04	+1.83	-0.94
					29JUN81	10SEP81	39 277	L	602P		+1.85	+1.85		-0.72
		2 2	48		29JUN81	10SEP81	39 278	L	603P		+1.86	+1.86 -0.01	+1.86	-0.42
					30JUN81	10SEP81	39 279	L	604P		+1.85	+1.85		-0.62
		2 3	106		1JUL81	10SEP81	39 280	L	382P		+1.77	+1.77	+1.77	-0.39
		2 5	273		1JUL81	10SEP81	39 281	L	384P		+1.23	+1.23	+1.23	-0.63
		2 7	355		6JUL81	10SEP81	39 282	L	385P		+1.23	+1.23 +0.00	+1.23	-1.43
					6JUL81	14SEP81	39 283	L	386P		+1.23	+1.23		+0.04
		2 10	693		7JUL81	14SEP81	39 284	L	387P		+0.86	+0.86 -0.06	+0.83	-1.23
					7JUL81	14SEP81	39 285	L	388P		+0.80	+0.80		-0.37
		2 12	992		8JUL81	14SEP81	39 286	L	389P		+0.70	+0.70 +0.05	+0.72	-1.80
					8JUL81	14SEP81	39 287	L	390P		+0.75	+0.75		-1.33
		2 18	1958		9JUL81	14SEP81	39 288	L	391P		+1.02	+1.02 +0.05	+1.04	-1.74
			9JUL81	14SEP81	39 289	L	392P		+1.07	+1.07		-1.25		
2 20	2841		10JUL81	14SEP81	39 290	L	393P		+1.00	+1.00 -0.04	+0.98	-0.98		
			10JUL81	14SEP81	39 291	L	394P		+0.96	+0.96		-1.08		
2 22	3747		13JUL81	14SEP81	39 292	L	395P		+0.97	+0.97 +0.00	+0.97	-0.91		
			13JUL81	14SEP81	39 293	L	396P		+0.97	+0.97		-0.76		
2-39	25-21N 55-54W	2 1	11	6MAY81	10OCT81	18NOV81	44 386	S	437P		+1.85	+1.85 -0.18	+1.77	-0.88
					5OCT81	19NOV81	44 387	S	438P		+1.69	+1.69		-1.35
					5OCT81	19NOV81	44 388	S	439P					

DEPTH:

p = SURFACE PUMP SAMPLE
 TUBE TYPE (FOR ISOTOPE SHIPMENT):
 F = FLAME-OFF TUBE
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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			O18/O16 RATIO		
											ALIQUOT DELTA	ALIQUOT DELTA	BOTTLE DELTA		"NISKIN" AVG	
2-40	27-30N 58-35W	2 1	7	7MAY81	6OCT81	19NOV81	44 389	S	440PA		+1.68	-0.09	+1.64	+0.04	+1.66	-0.51
					6OCT81	19NOV81	44 390	S	440PB		+1.59					-0.72
					7OCT81	19NOV81	44 391	S	441PA		+1.64	+0.09	+1.68			-0.71
					7OCT81	19NOV81	44 392	S	441PB		+1.73					-1.56
2-41	29-43N 61-18W	1 1	13	9MAY81	8OCT81	24NOV81	44 393	S	442PA		+1.71	-0.11	+1.66	+0.12	+1.72	-0.12
					8OCT81	24NOV81	44 394	S	442PB		+1.60					-0.13
					9OCT81	24NOV81	44 395	S	443PA				+1.78			
					9OCT81	24NOV81	44 396	S	443PB		+1.78					-0.00
3-43	31-46N 50-45W	4 1	10	18MAY81	4JAN84	20JUN84	98 78	F	647PB	*	+1.31		+1.31*+0.21*	+1.42*	+0.58	
					5JAN84	20JUN84	98 79	F	648PA	*	+1.52		+1.52*			-0.25
4-124	53-15N 36-41W	3 1	14	6JUL81	10OCT82	11NOV82	71 476	F	721P	#	+1.09		+1.09#+0.33#	+1.26#	-2.60	
					10OCT82	11NOV82	72 494	L	722P	#	+1.42		+1.42#			-2.10
4-125	55-00N 34-41W	1 1	13	7JUL81	6JAN84	20JUN84	98 80	F	723P	*	+1.15		+1.15*-0.82*	+0.74*	-1.14	
					6JAN84	7AUG84	97 54	L	724P	*	+0.33		+0.33*			-0.15
4-126	57-00N 32-20W	2 1	14	8JUL81	9JAN84	7AUG84	97 55	L	670P	*	+1.43		+1.43*	+1.43*	-0.36	
4-127	58-30N 30-00W	2 1	10	8JUL81	9JAN84	7AUG84	97 56	L	671P	*	+1.49		+1.49*	+1.49*	+0.77	
5-141	58-34N 11-33W	2 1	14	23JUL81	11JAN84	7AUG84	97 57	L	707P					+1.52*		
					11JAN84	20JUN84	98 81	F	708P	*	+1.52		+1.52*			-0.02

DEPTH:

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TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG- STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS C13/C12 ISOTOPE RATIO			O18/O16 RATIO	
											ALIQ DELTA	BOTTLE DELTA	"NISKIN" AVG		
5-143	64-50N 6-14W	4 1	9	25JUL81	24SEP82	11NOV82	71 469	F	769P	#	+1.79	+1.79#	+0.33#	+1.96#	-1.89
					27SEP82	11NOV82	72 487	L	770P	#	+2.12	+2.12#			-3.05
5-144	67-41N 3-20W	5 42	12	26JUL81	28SEP82	11NOV82	71 472	F	415P		+1.79	+1.79	+0.26	+1.92	-1.73
					29SEP82	11NOV82	72 490	L	416P		+2.05	+2.05			-1.67
5-145	70-00N 2-29E	5 1	14	27JUL81	27SEP82	11NOV82	71 470	F	417P		+1.97	+1.97	+0.02	+1.98	-2.05
					27SEP82	11NOV82	72 488	L	418P		+1.99	+1.99			-1.75
5-146	72-25N 2-04E	1 1	10	29JUL81	28SEP82	11NOV82	71 471	F	419P		+2.02	+2.02	-0.12	+1.96	-1.86
					28SEP82	11NOV82	72 489	L	420P		+1.90	+1.90			-1.24

DEPTH:

p = SURFACE PUMP SAMPLE
 TUBE TYPE (FOR ISOTOPE SHIPMENT):

F = FLAME-OFF TUBE
 L = LONG TUBE
 S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12)
 T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)

BOTTLE TYPE:

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 CORRESPONDS TO FULL NO. OF KXX-147, WHERE XX IS
 YEAR OF EXTRACTION; IN THIS EXAMPLE, 82)

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			O18/O16 RATIO	
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG			
5-148	74-58N 1-08W	5 40	9	30JUL81	31AUG82	1NOV82	70 457	F	561P	#	+1.24	+1.24	+0.98	+1.73	-1.90	
					31AUG82	1NOV82	69 434	S	562P	#	+2.22	+2.22	#	#	-2.23	
	2 2	13			1SEP82	2NOV82	70 458	F	661P		+2.26	+2.26	-0.11	+2.20	-2.08	
					1SEP82	2NOV82	69 435	S	662P		+2.15	+2.15			-2.02	
	5 41	77			2SEP82	2NOV82	70 459	F	563P		+1.07	+1.07	+0.01	+1.08	-2.17	
					2SEP82	2NOV82	69 436	S	564P		+1.08	+1.08			-2.16	
	5 42	247				2SEP82	9NOV82	71 460	F	589P		+1.11	+1.11	+0.14	+1.18	-2.29
						3SEP82	2NOV82	69 437	S	590P		+1.25	+1.25			-2.32
	5 43	444				3SEP82	9NOV82	71 461	F	591P		+1.16	+1.16	-0.11	+1.10	-2.53
						7SEP82	2NOV82	69 438	S	592P		+1.05	+1.05			-2.73
	4 40	740				7SEP82	9NOV82	71 462	F	665P		+1.09	+1.09	-0.05	+1.06	-2.04
						8SEP82	2NOV82	69 439	S	666P		+1.04	+1.04			-2.35
	4 42	937				8SEP82	9NOV82	71 463	F	667P		+1.10	+1.10	-0.13	+1.04	-1.67
						10SEP82	9NOV82	72 484	L	668P		+0.97	+0.97			-2.58
4 46	1879				10SEP82	9NOV82	71 464	F	557P		+1.07	+1.07	+0.06	+1.10	-1.88	
					21SEP82	9NOV82	72 485	L	558P		+1.13	+1.13			-1.85	
4 48	2482				21SEP82	9NOV82	71 465	F	559P		+1.14	+1.14	+1.14	-1.48		
2 32	2978				22SEP82	9NOV82	71 466	F	663P		+1.13	+1.13	+1.13	-2.70		
5-149	76-53N 1-02E	2 2	11	31JUL81	22SEP82	9NOV82	71 467	F	593P		+2.00	+2.00	-0.05	+1.98	-1.81	
					23SEP82	9NOV82	72 486	L	594P		+1.95	+1.95			-2.90	
5-158	71-10N 7-29W	1 1	5	5AUG81	23SEP82	9NOV82	71 468	F	595P							

DEPTH:

p = SURFACE PUMP SAMPLE
TUBE TYPE (FOR ISOTOPE SHIPMENT):

F = FLAME-OFF TUBE

L = LONG TUBE

S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12)

T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)

BOTTLE TYPE:

P = PYREX

FLAGS:

= REJECTED FOR CAUSE; AIR IN SAMPLE

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NOTE:

SHIPMENT AND EXTRACTION NOS. ARE FOR USE IN DATA MANAGEMENT ONLY (EXTRACTION NO., E.G., 147, CORRESPONDS TO FULL NO. OF KXX-147, WHERE XX IS YEAR OF EXTRACTION; IN THIS EXAMPLE, 82)

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			018/016 RATIO		
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG			
5-159	68-44N 10-34W	4 40	11	6AUG81	10AUG82	29OCT82	70 447	F	779P		+2.27	+2.27	-0.05	+2.24	-1.74	
					11AUG82	29OCT82	69 426	S	780P		+2.22	+2.22			-2.06	
			4 41	76		11AUG82	29OCT82	70 448	F	517P		+1.13	+1.13		+1.13	-1.45
			4 42	201		12AUG82	29OCT82	70 449	F	519P		+1.13	+1.13	-0.08	+1.09	-2.23
						12AUG82	29OCT82	69 427	S	520P		+1.05	+1.05			-1.66
			4 43	301		12AUG82	29OCT82	70 450	F	521P		+1.11	+1.11	-0.02	+1.10	-1.85
						18AUG82	29OCT82	69 428	S	522P		+1.09	+1.09			-1.85
			4 44	399		17AUG82	1NOV82	70 451	F	523P		+0.98	+0.98	+0.02	+0.99	-1.53
						16AUG82	1NOV82	69 429	S	524P		+1.00	+1.00			-1.69
			4 45	500		17AUG82	1NOV82	70 452	F	541P		+1.02	+1.02	-0.04	+1.00	-1.95
						17AUG82	1NOV82	69 430	S	542P		+0.98	+0.98			-1.60
			4 46	600		18AUG82	1NOV82	70 453	F	543P		+0.99	+0.99	+0.07	+1.02	-1.63
						18AUG82	1NOV82	69 431	S	544P		+1.06	+1.06			-1.63
			4 48	797		19AUG82	1NOV82	70 454	F	545P		+1.07	+1.07		+1.07	-1.90
			1 40	949		20AUG82	1NOV82	70 455	F	775P		+1.03	+1.03	+0.02	+1.04	-1.85
						20AUG82	1NOV82	69 432	S	776P		+1.05	+1.05			-2.15
		1 48	2140		30AUG82	1NOV82	70 456	F	777P		+1.02	+1.02	+0.00	+1.02	-2.20	
					30AUG82	1NOV82	69 433	S	778P		+1.02	+1.02			-2.05	

DEPTH:

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 TUBE TYPE (FOR ISOTOPE SHIPMENT):
 F = FLAME-OFF TUBE
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	C13/C12 ISOTOPE RATIO				O18/O16 RATIO
											ALIQUOT DELTA	BOTTLE DELTA	BOTTLE DELTA	"NISKIN" AVG	
5-167	84-05N 33-19W	4 40	13	13AUG81	22JUL82	21OCT83	68 378	F	455P		+1.75	+1.75	-0.04	+1.73	-1.14
					27JUL82	9NOV82	72 480	L	456P		+1.71	+1.71			-2.07
		3 80	70		27JUL82	21OCT83	66 379	F	453P		+1.13	+1.13	-0.10	+1.08	-1.27
					28JUL82	9NOV82	72 481	L	454P		+1.03	+1.03			-1.57
		4 41	104		28JUL82	21OCT83	66 380	F	457P		+1.08	+1.08	-0.07	+1.04	-0.96
					30JUL82	9NOV82	72 482	L	458P		+1.01	+1.01			-2.08
		4 42	203		30JUL82	29OCT82	70 440	F	459P		+0.98	+0.98	+0.02	+0.99	-1.38
					3AUG82	9NOV82	72 483	L	460P		+1.00	+1.00			-2.17
		6 40	296		3AUG82	29OCT82	70 441	F	781P		+0.94	+0.94	+0.04	+0.96	-1.65
					3AUG82	29OCT82	69 421	S	782P		+0.98	+0.98			-1.20
		6 41	396		4AUG82	29OCT82	70 442	F	783P		+0.97	+0.97		+0.97	-1.96
		6 44	837		4AUG82	29OCT82	70 443	F	785P		+0.89	+0.89	+0.06	+0.92	-1.16
					5AUG82	29OCT82	69 422	S	786P		+0.95	+0.95			-2.36
		6 46	1233		5AUG82	29OCT82	70 444	F	787P		+0.95	+0.95	-0.02	+0.94	-1.42
					6AUG82	29OCT82	69 423	S	788P		+0.93	+0.93			-2.58
		2 40	1966		6AUG82	29OCT82	70 445	F	409P		+1.01	+1.01	+0.01	+1.02	-2.16
					9AUG82	29OCT82	69 424	S	410P		+1.02	+1.02			-2.02
		2 48	2317		9AUG82	29OCT82	70 446	F	411P		+1.05	+1.05	+0.00	+1.05	-1.94
					10AUG82	29OCT82	69 425	S	412P		+1.05	+1.05			-2.05

DEPTH:

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TUBE TYPE (FOR ISOTOPE SHIPMENT):
F = FLAME-OFF TUBE
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO				018/016 RATIO			
											ALIQUOT DELTA	BOTTLE DELTA	BOTTLE DELTA	"NISKIN" AVG				
6-177	58-40N 38-16W	0 0	4p	28AUG81	19JUL82	21OCT83	66 373	F	475P		+1.77	+1.77	-0.07	+1.74	-0.92			
					19JUL82	21JAN83	65 359	L	476P		+1.70	+1.70			-1.26			
				3 1	103			9JUL82	21JAN83	65 353	L	325PA		+1.16	+1.16	-0.08	+1.12	-2.04
								9JUL82	21OCT83	66 367	F	325PB		+1.05	+1.05			-1.60
								12JUL82	21JAN83	65 354	L	326PA		+1.05	+1.08			-1.60
								12JUL82	21OCT83	66 368	F	326PB		+1.12				-1.20
				3 2	192			13JUL82	21OCT83	66 369	F	327P		+1.11	+1.11	-0.12	+1.05	-1.31
								13JUL82	21JAN83	65 355	L	328P		+0.99	+0.99			-1.78
				3 3	253			14JUL82	21OCT83	66 370	F	329P		+1.19	+1.19	-0.14	+1.12	-1.33
								14JUL82	21JAN83	65 358	L	330P		+1.05	+1.05			-1.30
				3 5	504			14JUL82	21OCT83	66 371	F	331P		+1.08	+1.08	-0.04	+1.06	-1.54
								15JUL82	21JAN83	65 357	L	332P		+1.04	+1.04			-0.98
				3 6	604			16JUL82	21JAN83	65 358	L	677P		+1.00	+1.00	+0.12	+1.06	-1.85
								15JUL82	21OCT83	66 372	F	749P		+1.12	+1.12			-0.90
				3 9	830			20JUL82	21OCT83	66 374	F	751P		+1.12	+1.12	-0.11	+1.06	-1.68
								20JUL82	21JAN83	65 360	L	752P		+1.01	+1.01			-1.03
				3 13	1550			20JUL82	21OCT83	66 375	F	753P		+1.11	+1.11	-0.12	+1.05	-1.06
								21JUL82	9NOV82	72 477	L	754P		+0.99	+0.99			-1.93
				3 17	2587			21JUL82	21OCT83	66 376	F	755P		+1.13	+1.13	-0.14	+1.06	-1.10
								22JUL82	9NOV82	72 478	L	756P		+0.99	+0.99			-2.20
		3 21	3159			26JUL82	21OCT83	66 377	F	829P		+1.13	+1.13	-0.10	+1.06	-1.31		
						26JUL82	9NOV82	72 479	L	830P		+1.03	+1.03			-1.54		

DEPTH:

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TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS C13/C12 ISOTOPE RATIO			018/016 RATIO	
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG		
6-206	53-55N 39-53W	0 0	4p	8SEP81	2JUN82	20OCT82	62 292	T	397P		+1.90	+1.90	+0.03	+1.92	-1.70
					2JUN82	21JAN83	65 345	L	398P		+1.93	+1.93			-1.40
		1 1	13		7JUN82	20OCT82	62 293	T	399P		+1.89	+1.89	-0.09	+1.84	-2.20
					10JUN82	25OCT82	63 315	F	400P		+1.80	+1.80			-2.62
		1 2	54		10JUN82	26OCT82	62 294	T	401P		+1.05	+1.05	-0.04	+1.03	-1.99
					14JUN82	25OCT82	63 318	F	402P		+1.01	+1.01			-1.34
		1 3	78		14JUN82	20OCT82	62 295	T	403P		+1.09	+1.09	-0.11	+1.04	-1.96
					15JUN82	25OCT82	63 317	F	404P		+0.98	+0.98			-1.34
		1 4	184		15JUN82	20OCT82	62 296	S	365P				+0.96		
					18JUN82	26OCT82	63 318	F	366P		+0.96	+0.96			-1.05
		1 6	379		16JUN82	20OCT82	62 297	T	367P		+0.91	+0.91	-0.06	+0.88	-1.35
					17JUN82	26OCT82	63 319	F	368P		+0.85	+0.85			-1.40
		1 9	803		17JUN82	20OCT82	62 298	T	369P		+0.90	+0.90	-0.02	+0.89	-2.18
					21JUN82	26OCT82	63 320	F	370P		+0.88	+0.88			-1.52
		1 10	1001		21JUN82	21JAN83	65 347	L	371P				+0.95		
					22JUN82	26OCT82	63 321	F	372P		+0.95	+0.95			-1.34
		1 13	1597		22JUN82	21JAN83	65 348	L	615P		+1.01	+1.01	-0.06	+0.98	-1.00
					23JUN82	26OCT82	63 322	F	616P		+0.95	+0.95			-1.23
		1 15	2052		23JUN82	21JAN83	65 349	L	613P		+1.05	+1.05	-0.05	+1.02	+0.16
					24JUN82	26OCT82	63 323	F	614P		+1.00	+1.00			-1.17
		1 20	3097		24JUN82	21JAN83	65 350	L	617P		+1.01	+1.01	-0.01	+1.00	-0.94
					25JUN82	26OCT82	63 324	F	618PA		+0.98	+0.05	+1.00		-1.31
					25JUN82	21JAN83	65 351	L	618PB		+1.03				-1.68

DEPTH:

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 TUBE TYPE (FOR ISOTOPE SHIPMENT):
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TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	C13/C12 ISOTOPE RATIO				O18/O16 RATIO	
											ALIQ DELTA	ALIQ DELTA	BOTTLE DELTA	BOTTL "NISKIN" AVG		
6-207	53-05N 37-51W	1 1	7	9SEP81	29SEP82	11NOV82	71 473	F	619P		+1.88	+1.88	+0.01	+1.88	-1.78	
					29SEP82	11NOV82	72 491	L	620P		+1.89	+1.89			-2.23	
6-209	50-05N 37-52W	1 1	10	10SEP81	30SEP82	11NOV82	71 474	F	791P		+1.87	+1.87	-0.03	+1.86	-2.85	
					30SEP82	11NOV82	72 492	L	792P		+1.84	+1.84			-1.64	
6-210	48-50N 37-50W	1 1	13	10SEP81	13DEC82	11FEB83	75 1	F	793PA		+1.83	-0.04	+1.81	+0.01	+1.81	+0.27
					13DEC82	11FEB83	75 2	F	793PB		+1.79				-0.64	
					14DEC82	11FEB83	75 3	F	794PA		+1.82	+0.00	+1.82		-1.05	
					14DEC82	11FEB83	75 4	F	794PB		+1.82				-0.82	
6-211	47-40N 37-50W	2 1	10	11SEP81	30SEP82	11NOV82	71 475	F	795P		+1.77	+1.77	+0.05	+1.80	-1.65	
					10OCT82	11NOV82	72 493	L	796P		+1.82	+1.82			-1.97	
6-214	51-00N 42-58W	0 0	4p	13SEP81	24MAY82	20OCT82	62 285	S	697P					+1.74		
					24MAY82	25OCT82	63 309	F	698P		+1.74	+1.74			-1.27	
					25MAY82	20OCT82	62 288	T	699P		+1.10	+1.10	-0.03	+1.08	-1.05	
					25MAY82	25OCT82	63 310	F	700P		+1.07	+1.07			-0.10	
					25MAY82	20OCT82	62 287	T	509P		+1.16	+1.16	-0.02	+1.15	-2.16	
					26MAY82	25OCT82	63 311	F	510P		+1.14	+1.14			-0.63	
					26MAY82	20OCT82	62 288	T	511P		+0.85	+0.85		+0.85	-1.79	
					26MAY82	20OCT82	62 289	T	513P		+0.92	+0.92		+0.92	-1.41	
					27MAY82	21JAN83	65 342	L	514P							
					27MAY82	21JAN83	65 343	L	515P							
					27MAY82	21JAN83	65 344	L	516P							
7 11	2244				1JUN82	20OCT82	62 290	T	741P		+1.03	+1.03	-0.03	+1.02	-2.33	
					1JUN82	25OCT82	63 312	F	742P		+1.00	+1.00			-1.16	
7 22	4238				1JUN82	20OCT82	62 291	T	743P		+1.00	+1.00	-0.02	+0.99	-1.03	
					2JUN82	25OCT82	63 313	F	744P		+0.98	+0.98			-0.83	

DEPTH:

p = SURFACE PUMP SAMPLE
TUBE TYPE (FOR ISOTOPE SHIPMENT):
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L = LONG TUBE
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12)
T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)
BOTTLE TYPE:
P = PYREX

FLAGS:

& = REJECTED FOR CAUSE; AIR IN SAMPLE
= REJECTED FOR STATISTICS
* = REJECTED PEREMPTORILY FOR LONG STORAGE

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			018/016 RATIO
											ALIQ DELTA	BOTTLE DELTA	"NISKIN" AVG	
7-224	46-58N 43-04W	1 1	8	25SEP81	19FEB82	29MAR82	53 106	S	761P		+2.30	+2.30	+2.30	-1.40
7-225	46-55N 41-49W	3 1	15	28SEP81	19FEB82 23FEB82	29MAR82	53 107	S	763P 764P		+2.22	+2.22	+2.22	-1.99
7-226	46-42N 40-00W	3 1	11	28SEP81	23FEB82	29MAR82	53 109	S	501P		+1.91	+1.91	+1.91	-0.77
7-227	44-59N 42-02W	2 1	27	28SEP81	24FEB82 24FEB82	29MAR82	53 110	S	503P 504P		+1.71 +1.69	+1.71 +1.69	-0.02 +1.70	-1.06 -0.86

DEPTH:

p = SURFACE PUMP SAMPLE
 TUBE TYPE (FOR ISOTOPE SHIPMENT):
 F = FLAME-OFF TUBE
 L = LONG TUBE
 S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12)
 T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			018/016 RATIO	
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG		
7-228	42-01N 42-00W	2 41	84	29SEP81	3MAY82	23JUN82	58 219	L	505P		+1.05	+1.05	+0.07	+1.08	-0.55
					4MAY82	21JUN82	59 239	F	506P		+1.12	+1.12			-0.79
		3 3	152		4MAY82	21JAN83	65 337	L	579P		+1.22	+1.22	-0.03	+1.20	-0.30
					4MAY82	25OCT82	63 300	F	580P		+1.19	+1.19			-0.48
		2 42	185		5MAY82	21JAN83	65 338	L	507P		+1.17	+1.17		+1.17	-0.48
					5MAY82	21JAN83	65 339	L	429P		+1.18	+1.18	-0.02	+1.17	-0.97
		3 4	251		6MAY82	25OCT82	63 301	F	430P		+1.18	+1.18			-1.04
					6MAY82	21JAN83	65 340	L	431P		+1.17	+1.17	-0.07	+1.14	-0.73
		3 5	302		7MAY82	25OCT82	63 302	F	432P		+1.10	+1.10			-1.09
					7MAY82	21JAN83	65 341	L	573P		+1.13	+1.13	-0.04	+1.11	-0.16
		2 43	379		13MAY82	25OCT82	63 303	F	574P		+1.09	+1.09			-0.32
					13MAY82	20OCT82	62 279	T	433P		+0.99	+0.99	+0.00	+0.99	-1.32
		3 6	499		14MAY82	25OCT82	63 304	F	434P		+0.99	+0.99			-0.82
					14MAY82	20OCT82	62 280	T	575P		+0.78	+0.78	+0.07	+0.82	-0.87
		2 44	679		18MAY82	25OCT82	63 305	F	576P		+0.85	+0.85			-1.13
					18MAY82	20OCT82	62 281	T	577P		+0.88	+0.88	-0.03	+0.88	-0.95
		2 46	975		18MAY82	25OCT82	63 306	F	578P		+0.85	+0.85			-0.42
					19MAY82	20OCT82	62 282	T	435P		+0.95	+0.95	+0.04	+0.97	-1.51
		4 41	2046		19MAY82	25OCT82	63 307	F	436P		+0.99	+0.99			-0.97
					19MAY82	20OCT82	62 283	T	821P		+1.02	+1.02		+1.02	-1.64
		4 46	4025		20MAY82	20OCT82	62 284	T	823P		+0.99	+0.99	+0.05	+1.02	-1.72
					24MAY82	25OCT82	63 308	F	824P		+1.04	+1.04			-1.85

DEPTH:

p = SURFACE PUMP SAMPLE
TUBE TYPE (FOR ISOTOPE SHIPMENT):
F = FLAME-OFF TUBE
L = LONG TUBE
S = SHORT TUBE (-0.06 CORR APPLIED TO C13/12)
T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)
BOTTLE TYPE:
P = PYREX

FLAGS:

& = REJECTED FOR CAUSE; AIR IN SAMPLE
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* = REJECTED PEREMPTORILY FOR LONG STORAGE

NOTE:

SHIPMENT AND EXTRACTION NOS. ARE FOR USE IN DATA MANAGEMENT ONLY (EXTRACTION NO., E.G., 147, CORRESPONDS TO FULL NO. OF KXX-147, WHERE XX IS YEAR OF EXTRACTION; IN THIS EXAMPLE, 82)

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO			O18/O16 RATIO	
											ALIQ DELTA	BOTTLE DELTA	"NISKIN" AVG		
7-229	39-00N 44-00W	3 1	11	10CT81	12APR82	23JUN82	58 206	L	807P		+1.64	+1.64	+0.06	+1.67	-0.61
					12APR82	24JUN82	59 227	F	808P		+1.70	+1.70			-0.57
		3 2	55		13APR82	23JUN82	58 207	L	809P		+1.64	+1.64		+1.64	-0.06
					13APR82	24JUN82	59 228	F	810P						
		3 3	152		14APR82	23JUN82	58 208	L	811P		+1.22	+1.22	+0.04	+1.24	-0.89
					14APR82	24JUN82	59 229	F	812P		+1.26	+1.26			-0.32
		4 41	247		14APR82	23JUN82	58 209	L	531P		+1.31	+1.31	-0.15	+1.24	+0.24
					15APR82	24JUN82	59 230	F	532P		+1.16	+1.16			-0.67
		3 7	398		15APR82	23JUN82	58 210	L	525P		+1.09	+1.09	+0.02	+1.10	-0.60
					21APR82	24JUN82	59 231	F	526P		+1.11	+1.11			-0.84
		4 42	495		21APR82	23JUN82	58 211	L	805P		+1.01	+1.01	-0.06	+0.98	-0.98
					21APR82	24JUN82	59 232	F	806P		+0.95	+0.95			+0.03
		3 8	602		22APR82	23JUN82	58 212	L	527P		+0.97	+0.97	+0.08	+1.01	-1.42
					22APR82	24JUN82	59 233	F	528P		+1.05	+1.05			-0.52
		4 43	693		26APR82	23JUN82	58 213	L	607P		+0.92	+0.92	-0.08	+0.88	-1.52
					26APR82	24JUN82	59 234	F	608P		+0.84	+0.84			-0.85
		3 9	797		27APR82	23JUN82	58 214	L	529P		+0.77	+0.77		+0.77	-0.74
					27APR82	24JUN82	59 235	F	530P						
		4 45	992		28APR82	23JUN82	58 215	L	609P		+0.70	+0.70	+0.22	+0.81	-1.11
					28APR82	24JUN82	59 236	F	610P		+0.92	+0.92			-0.61
		2 40	2073		28APR82	23JUN82	58 216	L	825P		+0.83	+0.83	+0.19	+0.92	-0.44
					29APR82	23JUN82	59 237	F	826P		+1.02	+1.02			-0.60
		2 43	3064		29APR82	23JUN82	58 217	L	827P		+0.95	+0.95	+0.09	+1.00	-0.30
					30APR82	23JUN82	59 238	F	828P		+1.04	+1.04			-1.91
		2 45	4056		30APR82	23JUN82	58 218	L	805P		+0.95	+0.95		+0.95	-0.54

DEPTH:

p = SURFACE PUMP SAMPLE
TUBE TYPE (FOR ISOTOPE SHIPMENT):
F = FLAME-OFF TUBE
L = LONG TUBE
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T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)
BOTTLE TYPE:
P = PYREX

FLAGS:

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= REJECTED FOR STATISTICS
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NOTE:

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS	..... C13/C12 ISOTOPE RATIO				O18/O16 RATIO
											ALIQ DELTA	ALIQ DELTA	BOTTLE DELTA	BOTTL "NISKIN" AVG	
7-231	38-00N 47-01W	2 1	15	30OCT81	10MAR82	23APR82	55 148	L	425P		+1.74	+1.74	+0.06	+1.77	-0.52
					10MAR82	23APR82	55 149	L	426P		+1.80	+1.80			-0.31
		2 2	75		11MAR82	23APR82	55 150	L	427P		+1.48	+1.48	-0.04	+1.46	-0.78
					11MAR82	23APR82	55 151	L	428P		+1.44	+1.44			-0.28
		2 3	150		12MAR82	23APR82	55 152	L	461P		+1.22	+1.22	+0.00	+1.22	-0.84
					16MAR82	23APR82	55 153	L	462P		+1.22	+1.22			-1.00
		4 40	247		16MAR82	23APR82	55 155	L	685P		+1.23	+1.23	-0.18	+1.14	+0.07
					16MAR82	21JUN82	58 198	L	686P		+1.05	+1.05			-0.59
		4 41	397		17MAR82	21JUN82	58 197	L	687P		+0.96	+0.96	+0.96	-0.74	
		2 5	473		18MAR82	23JUN82	58 198	L	463P		+0.90	+0.90	-0.01	+0.90	-0.44
					18MAR82	24JUN82	59 220	F	464P		+0.89	+0.89			-0.44
		2 6	672		23MAR82	23JUN82	58 199	L	465P		+0.70	+0.70	+0.70	+0.70	-0.49
					23MAR82	24JUN82	59 221	F	466P						
		4 43	695		24MAR82	23JUN82	58 200	L	689P	#	+0.76	+0.76	+0.35	+0.94	-1.10
					24MAR82	24JUN82	59 222	F	690P	#	+1.11	+1.11			-0.63
		2 8	922		25MAR82	21JUN82	58 201	L	467P	#	+0.78	+0.78	+0.36	+0.96	-1.22
					25MAR82	24JUN82	59 223	F	468P	#	+1.14	+1.14			-0.80
		4 45	996		25MAR82	21JUN82	58 202	L	691P		+0.86	+0.86	-0.04	+0.84	-0.17
					26MAR82	24JUN82	59 224	F	692P		+0.82	+0.82			-0.53
		1 42	2093		26MAR82	23JUN82	58 203	L	611P		+1.07	+1.07	+1.07	-0.63	
		1 44	3074		29MAR82	21JUN82	58 204	L	421P		+1.04	+1.04	-0.05	+1.02	-0.42
					30MAR82	24JUN82	59 225	F	422P		+0.99	+0.99			-0.18
		1 46	4060		31MAR82	23JUN82	58 205	L	423P		+0.99	+0.99	+0.03	+1.00	-1.00
					31MAR82	24JUN82	59 226	F	424P		+1.02	+1.02			-0.78

DEPTH:

p = SURFACE PUMP SAMPLE
TUBE TYPE (FOR ISOTOPE SHIPMENT):
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T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)
BOTTLE TYPE:
P = PYREX

FLAGS:

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TABLE 12 (CONT.). SUMMARY OF CARBON AND OXYGEN ISOTOPE DATA

LEG-STN	LAT. LONG	CAST NISK	DEPTH (M)	SAMPLE DATE	EXTRAC DATE	ANAL. DATE	SHP/EXT NOS.	TUBE TYPE	SAMPLE BOTTLE	FLAGS C13/C12 ISOTOPE RATIO			018/018 RATIO	
											ALIQUOT DELTA	BOTTLE DELTA	"NISKIN" AVG		
7-233	33-55N 49-35W	1 1	8	40CT81	25FEB82	22APR82	55 132	L	374P						
7-234	31-45N 50-45W	4 40	8	50CT81	26FEB82	22APR82	55 133	L	536P		+1.87	+1.87	+1.87	-0.13	
		4 41	98		1MAR82	22APR82	55 134	L	537P		+1.58	+1.58	+1.58	-0.68	
		2 2	159		2MAR82	22APR82	55 135	L	375P		+1.28	+1.28	+0.16	+1.36	-0.51
					2MAR82	22APR82	55 136	L	376P		+1.44	+1.44		+0.09	
		4 42	243		3MAR82	22APR82	55 137	L	540P		+1.29	+1.29	+1.29	+0.73	
		4 43	387		3MAR82	22APR82	55 138	L	678P		+1.28	+1.28	+0.01	+1.28	+0.30
					4MAR82	22APR82	55 139	L	679P		+1.29	+1.29		+0.19	
		2 4	452		4MAR82	22APR82	55 140	L	377P		+1.22	+1.22	-0.02	+1.21	+0.37
					5MAR82	22APR82	55 141	L	378P		+1.20	+1.20		-0.11	
		4 44	529		5MAR82	22APR82	55 142	L	680P		+1.14	+1.14	+0.00	+1.14	+0.08
					7MAR82	22APR82	55 143	L	684P		+1.14	+1.14		-0.58	
		2 5	596		8MAR82	22APR82	55 144	L	380P		+1.07	+1.07	+1.07	-0.22	
2 6	750		9MAR82	22APR82	55 145	L	533P		+0.91	+0.91	-0.07	+0.88	-0.65		
			9MAR82	22APR82	55 146	L	534P		+0.84	+0.84		-0.53			
7-248	43-01N 59-35W	1 1	7	16OCT81	10MAR82	23APR82	55 154	L	682P		+2.11	+2.11	+0.03	+2.12	-2.27
					10MAR82	22APR82	55 147	L	683P		+2.14	+2.14		-2.20	

DEPTH:

p = SURFACE PUMP SAMPLE
TUBE TYPE (FOR ISOTOPE SHIPMENT):
F = FLAME-OFF TUBE
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T = TRANSFER TO SHORT TUBE (-0.13 CORR APPLIED TO C13/12)
BOTTLE TYPE:
P = PYREX

FLAGS:

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 13. SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	P04 uM/kg	N03 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E CO2 (ppm)
1	824 430	TTNA	0	3	31-48N	50-46W	5 41	2612	801023	277P 278P	34.965	3.155	259			2168.30	2324	+0.96	
2	428 887	TTNA	0	3	31-48N	50-46W	5 42	2750	801023	279P 280P	34.955	3.039	259			2169.38	2325	+1.03	
3	426 828	TTNA	0	3	31-48N	50-46W	5 46	3209	801023	281P 282P	34.929	2.714	263			2172.07	2326	+1.00	
4	424 689	TTNA	0	3	31-48N	50-46W	5 47	3667	801023	283P 284P	34.906	2.429	264			2171.84	2331	+1.04	
5	422 828	TTNA	0	3	31-48N	50-46W	5 48	3675	801023	285P 286P	34.906	2.424				2171.76	2327	+0.98	
6	420 691	TTNA	0	3	31-48N	50-46W	5 45	4125	801023	287P 288P	34.893	2.272	264			2176.35	2329	+1.00	
7	416 418	TTNA	0	3	31-48N	50-46W	5 44	4677	801023	289P 290P	34.869	2.140	258			2190.23	2349		
8	472 473	TTNA	0	4	35-56N	47-01W	2 2	1	801026	293P 294P	36.250	22.422	218	0.04	0.1	2021.08	2378		
9	474 475	TTNA	0	4	35-56N	47-01W	2 24	3854	801026	295P 296P	34.901	2.278	269	1.27	18.9	2169.74	2323		
10	438 439	TTNA	0	13	38-59N	43-58W	3 2	3	801031	297P 298P	36.310	21.465	221	0.01	0.2	2030.30	2375		
11	436 437	TTNA	0	13	38-59N	43-58W	3 12	746	801031	299P 300P	35.367	9.471	177	1.19	19.8	2167.11	2326		
12	434 435	TTNA	0	13	38-59N	43-58W	3 21	2239	801031	301P 302P	34.971	3.658	268	1.13	17.9	2154.67	2316		
13	432 433	TTNA	0	13	38-59N	43-58W	3 33	4843	801031	303P 304P	34.903	2.285	272	1.20	18.1	2169.05	2319		
14	468 469	TTNA	0	23	40-33N	54-14W	3 2	2	801106	305P 306P	34.926	17.552	236	0.05	0.0	2002.97	2310		
15	470 471	TTNA	0	23	40-33N	54-14W	3 16	3719	801106	307P 308P	34.915	2.433	272	1.16	17.8	2163.05	2325		
16	541 542	TTNA	1	1	39-48N	70-05W	2 27	10	810402	309P 310P	35.199	11.277	263	0.60	8.4	2094.85#	2352	+1.18	330.8
17	543 544	TTNA	1	3	38-17N	69-10W	1 1	12	810403	311P 312P	35.723	13.667	250	0.60	8.9	2101.19	2375	+1.16	337.9

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)

DEPTH:

p = SURFACE PUMP SAMPLE

SAMPLE BOTTLE:

P = PYREX

FLAGS (CARRIED FROM TABLES 8,12):

* = REJECTED PEREMPTORILY FOR LONG STORAGE
= REJECTED FOR CAUSE
s = REJECTED FOR STATISTICS
s = SALINITY MEASURED AFTER DIC EXTRACTION

NOTE:

WEISS E CO2'S ARE PCO2'S MEASURED SHIPBOARD WITH EQUILIBRATOR AT OR NEAR TIME OF SAMPLE FOR DIC

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	PO4 uM/kg	NO3 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E_CO2 (ppm)
18	545	TTNA	1	5	38-00N	68-00W	2 1	10	810405	313P	36.441	21.038	225	0.04	0.1	2026.15	2393	+1.68	294.2
	546									314P									
19	547	TTNA	1	6	34-41N	67-21W	2 1	11	810405	315P	36.385	21.784	196	0.02	0.0	2021.22	2391	+1.68	299.7
	548									316P									
20	549	TTNA	1	7	31-40N	68-30W	3 1	12	810407	318P	36.566	18.389	240	0.03	0.6	2056.28		+1.50	289.5
21	550	TTNA	1	8	31-20N	71-30W	3 1	12	810408	319P	36.572	18.595	242	0.05	0.0	2051.17	2396	+1.55	284.6
	551									320P									
22	552	TTNA	1	11	30-50N	74-03W	2 1	7	810410	321P	36.622	19.114	238	0.03	0.0	2050.20	2408	+1.52	291.5
	553									322P									
23	554	TTNA	1	13	29-56N	77-21W	1 69	9	810411	324P	36.335	23.140	217	0.03	0.0	2012.20	2384	+1.67	313.2
24	556	TTNA	2	15	25-35N	76-23W	2 1	11	810417	341P	36.762	22.861	228	0.02	0.0	2030.27	2400	+1.66	307.8
	557									342P									
25	558	TTNA	2	16	22-51N	73-10W	2 1	13	810419	343P	36.562	24.626	212	0.01	0.0	2012.28	2390	+1.68	319.3
	559									344P									
26	560	TTNA	2	20	25-47N	70-26W	2 1	13	810421	345P	36.807	22.860	220	0.03	0.0	2035.63	2410	+1.66	316.2
	561									346P									
27	562	TTNA	2	22	25-47N	66-00W	1 1	13	810423	347P	36.686	23.091	216	0.02	0.0	2023.49	2409	+1.62	306.9
	563									348P									
28	564	TTNA	2	24	23-18N	64-10W	2 1	12	810424	445P	36.645	24.026	208	0.01	0.0	2019.47	2404	+1.62	312.8
	565									446P									
29	566	TTNA	2	26	20-47N	62-16W	2 1	11	810426	447P	36.518	25.697	211	0.01	0.0	2000.05	2401	+1.83	317.6
30	567	TTNA	2	28	18-07N	60-39W	3 1	12	810427	450P	35.792	26.680	205	0.02	0.0	1971.83	2348	+1.76	340.2
31	568	TTNA	2	29	17-08N	59-31W	1 1	11	810428	451P	35.716	27.120	203	0.03	0.0	1974.47	2344	+1.90	345.9
	569									452P									
32	572	TTNA	2	32	15-03N	53-57W	0 0	4p	810430	495P	34.703	26.997	206	0.01	0.1	1918.95	2287	+1.77	
	573									496P									
33	570	TTNA	2	32	15-03N	53-57W	2 1	11	810430	493P	34.703	26.997	206	0.01	0.1	1917.58	2287	+1.82	325.0
	571									494P									
34	576	TTNA	2	32	15-03N	53-57W	4 41	99	810430	499P	37.163	24.732		0.02	0.2	2065.79	2432	+1.79	
	577									500P									
35	578	TTNA	2	32	15-03N	53-57W	4 43	152	810430	565P	36.900	20.988		0.20	4.3	2119.52	2423	+1.27	
	579									566P									
36	601	TTNA	2	32	15-03N	53-57W	4 44	253	810430	567P	36.049	15.411		0.89	15.6	2155.57		+0.78	
	602									568P									

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)

DEPTH:

p = SURFACE PUMP SAMPLE

SAMPLE BOTTLE:

P = PYREX

FLAGS (CARRIED FROM TABLES 8,12):

* = REJECTED PEREMPTORILY FOR LONG STORAGE

& = REJECTED FOR CAUSE

= REJECTED FOR STATISTICS

• = SALINITY MEASURED AFTER DIC EXTRACTION

NOTE:

WEISS E CO2'S ARE PCO2'S MEASURED SHIPBOARD WITH EQUILIBRATOR AT OR NEAR TIME OF SAMPLE FOR DIC

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL ‰	TEMP (C)	O2 µM/kg	P04 µM/kg	N03 µM/kg	DIC µM/kg	ALK µEq/kg	C13/C12	WEISS E CO2 (ppm)
37	604 605	TTNA	2	32	15-03N	53-57W	4 45	352	810430	569P 570P	35.564	12.521		1.38	23.4	2187.48	2334	+0.58	
38	606 607	TTNA	2	32	15-03N	53-57W	4 47	749	810430	571P 572P	34.747	6.393		2.15	33.5	2219.89	2308	+0.60	
39	608 609	TTNA	2	32	15-03N	53-57W	5 44	1097	810430	485P 486P	34.860	5.234	163	1.92	29.0	2207.03	2316	+0.80	
40	610 611	TTNA	2	32	15-03N	53-57W	5 45	1982	810430	487P 488P	34.982	3.561	260	1.25	19.1	2160.49	2320	+0.70&	
41	612 613	TTNA	2	32	15-03N	53-57W	5 48	2970	810430	489P 490P	34.931	2.707	257	1.35	20.1	2175.40	2335	+1.02	
42	574 575	TTNA	2	32	15-03N	53-57W	3 44	3993	810430	497P 498P	34.902	2.342	265	1.29	19.3	2172.63	2334	+0.98	
43	616 617	TTNA	2	34	18-02N	53-58W	0 0	4p	810502	477P 478P	35.343	26.398	204	0.01	0.0	1946.08	2328	+1.90	
44	614 615	TTNA	2	34	18-02N	53-58W	2 1	8	810502	491P 492P	35.343	26.398	204	0.01	0.0	1946.87	2328	+1.86	318.6
45	618 619	TTNA	2	34	18-02N	53-58W	2 2	71	810502	479P 480P	37.127	25.101	214	0.01	0.0	2033.27	2436	+1.96	
46	620 621	TTNA	2	34	18-02N	53-58W	2 4	146	810502	481P 482P	37.082	21.828	188	0.03	1.0	2093.90		+1.45	
47	622 623	TTNA	2	34	18-02N	53-58W	2 6	247	810502	483P 484P	36.385	17.272	168	0.46	8.5	2118.04	2382	+1.09	
48	624 625	TTNA	2	34	18-02N	53-58W	2 8	346	810502	581P 582P	36.014	14.954	150	0.81	14.1	2144.55	2360	+0.83	
49	626 627	TTNA	2	34	18-02N	53-58W	2 11	667	810502	583P 584P	34.988	7.951	124	1.87	29.7	2206.64	2315	+0.64	
50	628 629	TTNA	2	34	18-02N	53-58W	2 13	982	810502	585P 586P	34.812	5.465	162	2.00	30.4	2212.25	2314	+0.66	
51	630 631	TTNA	2	34	18-02N	53-58W	2 18	1975	810502	587P 588P	34.981	3.566	255	1.28	19.5	2165.44	2323	+0.92	
52	632 633	TTNA	2	34	18-02N	53-58W	2 20	2951	810502	629P 630P	34.929	2.720	257	1.34	20.1	2178.14	2334	+1.00	
53	634 635	TTNA	2	34	18-02N	53-58W	2 22	3928	810502	631P 632P	34.884	2.234	255	1.43	21.3	2192.45	2341	+0.90	

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT VOLUME MERCURY MANOMETER DIC ANALYSES) OR 6 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)

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NOTE:

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	P04 uM/kg	N03 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E CO2 (ppm)
54	638 639	TTNA	2	38	21-01N	53-59W	0 0	4p	810503	383P 384P	36.599	25.447	207	0.01	0.1	2003.67	2400	+1.92	
55	648 647	TTNA	2	38	21-01N	53-59W	4 40	10	810503	549P 550P	36.599	25.447	207	0.01	0.1	2003.88	2400	+1.88	313.7
56	650 651	TTNA	2	38	21-01N	53-59W	4 45	70	810503	551P 552P	36.827	24.162	214	0.00	0.1	2022.16	2411	+1.74	
57	652 653	TTNA	2	38	21-01N	53-59W	4 44	159	810503	553P 554P	36.754	19.993	191	0.04	1.3	2085.72	2409	+1.37	
58	654 655	TTNA	2	38	21-01N	53-59W	4 41	239	810503	555P 558P	36.529	18.109	191	0.19	4.3	2095.08	2389	+1.26	
59	636 637	TTNA	2	38	21-01N	53-59W	2 7	365	810503	633P 634P	36.200	16.007	187	0.48	8.7	2109.47	2370	+1.08	
60	656 668	TTNA	2	38	21-01N	53-59W	4 47	676	810503	597P 598P	35.223	9.168	138	1.56	25.3	2190.23	2325	+0.74	
61	640 641	TTNA	2	38	21-01N	53-59W	2 12	994	810503	635P 636P	34.919	5.734	168	1.79	27.2	2199.78	2317	+0.70	
62	642 643	TTNA	2	38	21-01N	53-59W	2 16	1973	810503	357P 358P	34.990	3.549	252	1.31	19.7	2168.57	2325	+1.01	
63	644 645	TTNA	2	38	21-01N	53-59W	2 18	2925	810503	359P 360P	34.932	2.758	257	1.35	20.1	2175.13	2332	+1.00	
64	648	TTNA	2	38	21-01N	53-59W	2 20	3899	810503	361P 362P	34.897	2.312	263	1.34	19.8	2174.97	2335	+1.00	
65	580 581	TTNA	2	38	23-51N	54-03W	0 0	4p	810505	599P 600P	37.203	24.585	208	0.01	0.0	2044.23	2435	+1.75	
66	582 583	TTNA	2	38	23-51N	54-03W	2 1	11	810505	601P 602P	37.203	24.585	208	0.01	0.0	2043.13	2435	+1.83	320.0
67	584 585	TTNA	2	38	23-51N	54-03W	2 2	48	810505	603P 604P	37.203	24.155	212	0.01	0.0	2042.21	2442	+1.86	
68	586 587	TTNA	2	38	23-51N	54-03W	2 3	106	810505	381P 382P	37.304	23.263	210	0.01	0.0	2058.22	2441	+1.77	
69	588	TTNA	2	38	23-51N	54-03W	2 5	273	810505	384P	36.506	18.041	195	0.20	4.3	2087.45	2388	+1.23	
70	589 590	TTNA	2	38	23-51N	54-03W	2 7	355	810505	385P 386P	36.368	17.080	195	0.32	6.2	2095.33	2377	+1.23	

DIC REC:
RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT
VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5
(FOR QUARTZ SPIRAL MANOMETER ANALYSES)

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SAMPLE BOTTLE:
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NOTE:
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EQUILIBRATOR AT OR NEAR TIME OF SAMPLE FOR DIC

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	P04 uM/kg	N03 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E CO2 (ppm)
71	591	TTNA	2	38	23-51N	54-03W	2 10	693	810505	387P	35.464	10.833	150	1.25	20.7	2169.67	2334	+0.83	
	592									388P									
72	593	TTNA	2	38	23-51N	54-03W	2 12	992	810505	389P	35.025	8.801	158	1.72	28.7	2197.66	2325	+0.72	
	594									390P									
73	595	TTNA	2	38	23-51N	54-03W	2 18	1958	810505	391P	35.013	3.746	248	1.30	19.6	2170.79	2333	+1.04	
	596									392P									
74	597	TTNA	2	38	23-51N	54-03W	2 20	2841	810505	393P	34.937	2.820	252	1.37	20.5	2179.98	2339	+0.98	
	598									394P									
75	599	TTNA	2	38	23-51N	54-03W	2 22	3747	810505	395P	34.893	2.298	256	1.42	21.0	2184.70	2345	+0.97	
	600									396P									
76	657	TTNA	2	39	25-21N	55-54W	2 1	11	810506	437P	36.888	23.816		0.02	0.1	2032.30	2412	+1.77	313.9
	658									438P									
	659									439P									
77	660	TTNA	2	40	27-30N	58-35W	2 1	7	810507	440P	36.654	23.234	221	0.01	0.0	2037.95	2397	+1.66	325.7
	662									441P									
78	664	TTNA	2	41	29-43N	61-18W	1 1	13	810509	442P	36.632	21.352	226	0.00	0.0	2048.02	2395	+1.72	323.5
	666									443P									
79	1164	TTNA	3	43	31-46N	50-45W	4 1	10	810518	647P	36.453	21.386	226	0.04	0.0	2047.80*	2389	+1.42*	326.2
	1166									648P									
80	1075	TTNA	4	124	53-15N	36-41W	3 1	14	810706	721P	34.716	9.305	298	0.41	5.2	2099.14#	2289	+1.26#	295.2
	1076									722P									
81	1168	TTNA	4	125	55-00N	34-41W	1 1	13	810707	723P	34.692	10.056	294	0.31	4.3	2127.36*	2286	+0.74*	282.8
	1169									724P									
82	161	TTNA	4	126	57-00N	32-20W	2 1	14	810708	670P	34.891	10.217	287	0.41	4.9	2090.83*	2295	+1.43*	296.3
83	1172	TTNA	4	127	58-30N	30-00W	2 1	10	810708	671P	34.986	9.580	297	0.45	5.5	2117.96*	2312	+1.49*	283.3
	1173									672P									
84	1170	TTNA	5	141	58-34N	11-33W	2 1	14	810723	707P	35.314	12.293	269	0.29	4.2	2079.69*	2332	+1.52*	302.4
	1171									708P									
85	1061	TTNA	5	143	64-50N	6-14W	4 1	9	810725	769P	34.917	8.451	302	0.14	0.5	2066.69	2316	+1.96#	250.0
	1063									770P									
86	1068	TTNA	5	144	67-41N	3-20W	5 42	12	810726	415P	35.016	8.389	298	0.12	0.5	2065.02		+1.92	253.9
	1069									416P									
87	1064	TTNA	5	145	70-00N	2-29E	5 1	14	810727	417P	35.084	8.120	306	0.21	1.0	2062.26		+1.98	250.2
	1065									418P									

DIC REC:

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DEPTH:

p = SURFACE PUMP SAMPLE

SAMPLE BOTTLE:

P = PYREX

FLAGS (CARRIED FROM TABLES 8,12):

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& = REJECTED FOR CAUSE

= REJECTED FOR STATISTICS

s = SALINITY MEASURED AFTER DIC EXTRACTION

NOTE:

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TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	PO4 uM/kg	NO3 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E CO2 (ppm)
88	1066	TTNA	5	148	72-25N	2-04E	1 1	10	810729	419P	34.999	6.825	316	0.23	1.0	2066.26	2313	+1.96	238.0
	1067									420P									
89	1038	TTNA	5	148	74-56N	1-08W	5 40	9	810730	561P	34.410	3.492	341	0.12	0.4	2045.60	2286	+1.73#	218.4
	1039									562P									
90	1040	TTNA	5	148	74-56N	1-08W	2 2	13	810730	661P	34.385	3.774	337	0.13	0.4	2046.50	2285	+2.20	218.1
	1041									662P									
91	1042	TTNA	5	148	74-56N	1-08W	5 41	77	810730	563P	34.864	-0.700	354	0.83	12.3	2149.42	2300	+1.08	
	1043									564P									
92	1044	TTNA	5	148	74-56N	1-08W	5 42	247	810730	589P	34.871	-1.197	333	0.88	13.4	2153.77	2301	+1.18	
	1045									590P									
93	1046	TTNA	5	148	74-56N	1-08W	5 43	444	810730	591P	34.887	-1.169	323	0.93	14.4	2156.03	2298	+1.10	
	1048									592P									
94	1047	TTNA	5	148	74-56N	1-08W	4 40	740	810730	665P	34.886	-1.207	321	0.93	14.2	2156.29	2301	+1.06	
	1049									666P									
95	1050	TTNA	5	148	74-56N	1-08W	4 42	937	810730	667P	34.888	-1.206	319	0.94	14.3	2160.74#	2298	+1.04	
	1051									668P									
96	1052	TTNA	5	148	74-56N	1-08W	4 46	1879	810730	557P	34.892	-1.170	320	0.95	14.5	2155.91		+1.10	
	1053									558P									
97	1054	TTNA	5	148	74-56N	1-08W	4 48	2482	810730	559P	34.912	-1.155	321	0.94	14.5	2155.87		+1.14	
	1055									560P									
98	1056	TTNA	5	148	74-56N	1-08W	2 32	2978	810730	663P	34.890	-1.122	321	0.95	14.5	2155.12	2298	+1.13	
	1057									664P									
99	1058	TTNA	5	149	76-53N	1-02E	2 2	11	810731	593P	33.415	1.305	367	0.13	0.0	1990.23		+1.98	182.3
	1059									594P									
100	1060	TTNA	5	158	71-10N	7-29W	1 1	5	810805	595P	31.413	3.268	348	0.08	0.0	1895.22#	2094		202.9
	1062									596P									
101	1019	TTNA	5	159	68-44N	10-34W	4 40	11	810806	779P	34.677	5.116	322	0.07	0.0	2067.38		+2.24	249.3
	1020									780P									
102	1021	TTNA	5	159	68-44N	10-34W	4 41	76	810806	517P	34.784	-0.580	350	0.76	9.2	2147.24	2299	+1.13	
103	1022	TTNA	5	159	68-44N	10-34W	4 42	201	810806	519P	34.833	-0.472	339	0.85	11.8	2149.31	2293	+1.09	
	1023									520P									
104	1024	TTNA	5	159	68-44N	10-34W	4 43	301	810806	521P	34.863	-0.407	336	0.88	12.8	2150.16	2297	+1.10	
	1025									522P									

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)

DEPTH:

p = SURFACE PUMP SAMPLE

SAMPLE BOTTLE:

P = PYREX

FLAGS (CARRIED FROM TABLES 8,12):

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= REJECTED FOR CAUSE

§ = REJECTED FOR STATISTICS

§ = SALINITY MEASURED AFTER DIC EXTRACTION

NOTE:

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	P04 uM/kg	N03 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E_CO2 (ppm)
105	1027	TTNA	5	159	68-44N	10-34W	4 44	399	810806	523P	34.898	-0.138				2157.28	2298	+0.99	
	1028									524P									
106	1028	TTNA	5	159	68-44N	10-34W	4 45	500	810806	541P	34.903	-0.259	300	0.99	14.3	2157.64	2300	+1.00	
	1029									542P									
107	1030	TTNA	5	159	68-44N	10-34W	4 46	600	810806	543P	34.909	-0.415	301	1.00	14.4	2159.90	2303	+1.02	
	1031									544P									
108	1032	TTNA	5	159	68-44N	10-34W	4 48	797	810806	545P	34.911	-0.610				2157.78	2303	+1.07	
	1033									546P									
109	1034	TTNA	5	159	68-44N	10-34W	1 40	949	810806	775P	34.911	-0.711	301	1.02	15.1	2158.48	2304	+1.04	
	1035									776P									
110	1036	TTNA	5	159	68-44N	10-34W	1 48	2140	810806	777P	34.909	-0.885	299	1.07	15.5	2164.24	2303	+1.02	
	1037									778P									
111	997	TTNA	5	167	64-05N	33-19W	4 40	13	810813	455P	34.947	10.049	288	0.29	2.1	2071.90#	2322	+1.73	263.1
	1001									456P									
112	1002	TTNA	5	167	64-05N	33-19W	3 80	70	810813	453P	35.025	8.298	283	0.98	14.9	2134.72		+1.08	
	1003									454P									
113	1004	TTNA	5	167	64-05N	33-19W	4 41	104	810813	457P	35.054	8.086	281	0.99	15.8	2139.41	2319	+1.04	
	1005									458P									
114	1006	TTNA	5	167	64-05N	33-19W	4 42	203	810813	459P	35.023	5.668	281	1.01	16.2	2141.70	2319	+0.99	
	1007									460P									
115	1008	TTNA	5	167	64-05N	33-19W	6 40	296	810813	781P	34.992	5.207	285	1.03	16.3	2144.37	2314	+0.98	
	1009									782P									
116	1010	TTNA	5	167	64-05N	33-19W	6 41	396	810813	783P	34.962	4.785	284	1.05	16.7	2146.10	2312	+0.97	
117	1011	TTNA	5	167	64-05N	33-19W	6 44	837	810813	785P	34.915	3.954	284	1.07	17.0	2151.83	2311	+0.92	
	1012									786P									
118	1013	TTNA	5	167	64-05N	33-19W	6 46	1233	810813	787P	34.923	3.713	285	1.07	16.9	2150.98	2307	+0.94	
	1015									788P									
119	1014	TTNA	5	167	64-05N	33-19W	2 40	1966	810813	409P	34.942	3.273	275	1.06	16.7	2151.82	2314	+1.02	
	1016									410P									
120	1017	TTNA	5	167	64-05N	33-19W	2 48	2317	810813	411P	34.878	0.421	305	0.90	13.8	2148.94	2308	+1.05	
	1018									412P									
121	990	TTNA	6	177	58-40N	38-16W	0 0	4p	810826	475P	34.574	8.253	292	0.52	5.4	2075.82	2307	+1.74	292.2
	991									476P									

DIC REC:
 RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT
 VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5
 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)
 DEPTH:
 p = SURFACE PUMP SAMPLE
 SAMPLE BOTTLE:
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FLAGS (CARRIED FROM TABLES 8,12):
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 EQUILIBRATOR AT OR NEAR TIME OF SAMPLE FOR DIC

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	PO4 uM/kg	NO3 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E CO2 (ppm)
122	978 980	TTNA	6	177	58-40N	38-16W	3 1	103	810826	325P 326P	34.722	3.369	319	1.04	14.5	2137.27	2304	+1.12	
123	982 983	TTNA	6	177	58-40N	38-16W	3 2	192	810826	327P 328P	34.766	3.074	309	1.08	15.8	2142.19	2302	+1.05	
124	984 985	TTNA	6	177	58-40N	38-16W	3 3	253	810826	329P 330P	34.778	3.073	307	1.07	15.8	2143.22	2306	+1.12	
125	986 987	TTNA	6	177	58-40N	38-16W	3 5	504	810826	331P 332P	34.823	3.297	305	1.07	15.9	2143.08	2307	+1.06	
126	989 988	TTNA	6	177	58-40N	38-16W	3 6	604	810826	677P 749P	34.825	3.288	305	1.06	15.8	2143.49		+1.06	
127	992 993	TTNA	6	177	58-40N	38-16W	3 9	830	810826	751P 752P	34.832	3.313	302	1.07	15.8	2142.98	2306	+1.06	
128	994 995	TTNA	6	177	58-40N	38-16W	3 13	1550	810826	753P 754P	34.889	3.392	285	1.10	16.4	2147.40	2313	+1.05	
129	996 998	TTNA	6	177	58-40N	38-16W	3 17	2587	810826	755P 756P	34.953	3.006	278	1.10	16.0	2153.80	2318	+1.06	
130	999 1000	TTNA	6	177	58-40N	38-16W	3 21	3159	810826	829P 830P	34.885	1.431	303	0.94	13.6	2146.64		+1.08	
131	951 953	TTNA	6	206	53-55N	39-53W	0 0	4p	810908	397P 398P	34.457	10.914	276	0.40	3.6	2051.53	2284	+1.92	
132	956 957	TTNA	6	206	53-55N	39-53W	1 1	13	810908	399P 400P	34.457	10.914	276	0.40	3.6	2053.74	2284	+1.84	299.8
133	958 959	TTNA	6	206	53-55N	39-53W	1 2	54	810908	401P 402P	34.663	6.446	266	0.93	13.7	2128.47	2296	+1.03	
134	980 981	TTNA	6	206	53-55N	39-53W	1 3	78	810908	403P 404P	34.697	5.567	265	1.06	15.6	2137.97	2298	+1.04	
135	982 983	TTNA	6	206	53-55N	39-53W	1 4	164	810908	365P 366P	34.781	4.917	280	1.08	16.0	2141.22	2303	+0.96	
136	984 985	TTNA	6	206	53-55N	39-53W	1 6	379	810908	367P 368P	34.831	4.099	273	1.15	17.4	2152.94	2304	+0.88	
137	986 987	TTNA	6	206	53-55N	39-53W	1 9	803	810908	369P 370P	34.856	3.551	282	1.12	17.2	2153.16	2304	+0.89	
138	988 989	TTNA	6	206	53-55N	39-53W	1 10	1001	810908	371P 372P	34.882	3.584	280	1.13	17.3	2152.67	2306	+0.95	

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)

DEPTH:

p = SURFACE PUMP SAMPLE

SAMPLE BOTTLE:

P = PYREX

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NOTE:

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TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	P04 uM/kg	N03 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E CO2 (ppm)	
139	970	TTNA	8	206	53-55N	39-53W	1 13	1597	810908	615P	34.915	3.464	279	1.12	17.0	2151.85	2307	+0.98		
	971									618P										
140	972	TTNA	8	206	53-55N	39-53W	1 15	2052	810908	613P	34.948	3.331	275	1.12	16.8	2152.45	2312	+1.02		
	973									614P										
141	974	TTNA	8	206	53-55N	39-53W	1 20	3097	810908	617P	34.958	2.888	274	1.12	16.5	2160.70#	2327	+1.00		
	976									618P										
142	1070	TTNA	8	207	53-05N	37-51W	1 1	7	810909	619P	34.469	12.265	271	0.21	0.7	2038.81	2288	+1.88	286.8	
	1071									620P										
143	1072	TTNA	8	209	50-05N	37-52W	1 1	10	810910	791P	34.683	15.200	251	0.11	0.0	2028.54	2302	+1.86	299.3	
	1073									792P										
144	1078	TTNA	8	210	48-50N	37-50W	1 1	13	810910	793P	34.637	15.069	254	0.11	0.0	2028.72	2301	+1.81	299.2	
	1080									794P										
145	1074	TTNA	8	211	47-40N	37-50W	2 1	10	810911	795P	35.217	16.428	246	0.07	0.0	2032.02	2339	+1.80	292.7	
	1077									796P										
146	936	TTNA	8	214	51-00N	42-58W	0 0	4p	810913	697P	35.351	16.173	245	0.07	0.0	2032.54	2341	+1.74	294.8	
	937									698P										
147	938	TTNA	8	214	51-00N	42-58W	7 1	157	810913	699P	35.800	13.446	234	0.53	8.2	2099.56	2357	+1.08		
	939									700P										
148	940	TTNA	8	214	51-00N	42-58W	7 2	304	810913	509P	35.826	13.338	241	0.50	8.0	2098.78	2353	+1.15		
	941									510P										
149	942	TTNA	8	214	51-00N	42-58W	7 4	706	810913	511P	34.951	6.723	197	1.35	20.9	2169.79		+0.85		
150	943	TTNA	8	214	51-00N	42-58W	7 5	904	810913	513P	34.887	4.528	253	1.19	18.2	2157.82	2311	+0.92		
	944									514P										
151	945	TTNA	8	214	51-00N	42-58W	7 7	1304	810913	515P	34.926	4.051	270	1.16	17.7	2153.40	2313			
	946									516P										
152	947	TTNA	8	214	51-00N	42-58W	7 11	2244	810913	741P	34.929	3.464	276	1.13	17.2	2152.24	2312	+1.02		
	948									742P										
153	950	TTNA	8	214	51-00N	42-58W	7 22	4236	810913	743P	34.884	1.909	291	1.01	14.9	2151.04	2308	+0.99		
	952									744P										
154	830	TTNA	7	224	48-56N	43-04W	1 1	8	810925	761P	32.860	13.449	268	0.18	0.1	1980.96	2214	+2.30	305.5	
155	832	TTNA	7	225	48-55N	41-49W	3 1	15	810926	763P	33.278	16.830	249	0.11	0.2	1976.82	2234	+2.22	325.1	
	833									764P										
156	834	TTNA	7	226	48-42N	40-00W	3 1	11	810926	501P	34.657	18.775	236	0.03	0.2	1998.31	2296	+1.91	312.2	

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)

DEPTH:

p = SURFACE PUMP SAMPLE

SAMPLE BOTTLE:

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TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	PO4 uM/kg	NO3 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E CO2 (ppm)	
157	835	TTNA	7	227	44-59N	42-02W	2 1	27	810928	503P	35.720	18.911	229	0.04	0.6	2028.94	2348	+1.70		
	836									504P										
158	910	TTNA	7	228	42-01N	42-00W	2 41	84	810929	505P	36.471		202	0.18	3.6	2081.85	2385	+1.08		
	912									508P										
159	913	TTNA	7	228	42-01N	42-00W	3 3	152	810929	579P	36.428s	17.393	211	0.22	4.4	2082.02	2385	+1.20		
	915									580P										
160	916	TTNA	7	228	42-01N	42-00W	2 42	185	810929	507P	36.415s		211	0.28	4.9	2084.04	2384	+1.17		
	917									508P										
161	918	TTNA	7	228	42-01N	42-00W	3 4	251	810929	429P	36.355	16.787	212	0.30	5.6	2086.98	2377	+1.17		
	919									430P										
162	920	TTNA	7	228	42-01N	42-00W	3 5	302	810929	431P	36.217	16.103	205	0.40	7.2	2096.87	2370	+1.14		
	922									432P										
163	921	TTNA	7	228	42-01N	42-00W	2 43	379	810929	573P	36.019		215	0.47	8.2	2100.50	2364	+1.11		
	923									574P										
164	924	TTNA	7	228	42-01N	42-00W	3 6	499	810929	433P	35.770	13.433	204	0.89	11.6	2118.42	2348	+0.99		
	926									434P										
165	925	TTNA	7	228	42-01N	42-00W	2 44	679	810929	575P	35.425		186	1.05	17.5	2151.58	2330	+0.82		
	927									576P										
166	928	TTNA	7	228	42-01N	42-00W	2 46	975	810929	577P	35.040	6.077	213	1.43	22.4	2170.53	2315	+0.86		
	929									578P										
167	930	TTNA	7	228	42-01N	42-00W	4 41	2046	810929	435P	34.941	3.696	274	1.13	17.4	2151.52	2308	+0.97		
	931									436P										
168	932	TTNA	7	228	42-01N	42-00W	4 44	3046	810929	821P	34.939	3.049	274	1.13	17.1	2153.84	2312	+1.02		
										822P										
169	934	TTNA	7	228	42-01N	42-00W	4 46	4025	810929	823P	34.911	2.393	274	1.17	18.2	2102.87	2318	+1.02		
	935									824P										
170	885	TTNA	7	229	39-00N	44-00W	3 1	11	811001	807P	36.258	22.528	213	0.02	0.0	2023.86	2374	+1.67	323.0	
	886									808P										
171	887	TTNA	7	229	39-00N	44-00W	3 2	55	811001	809P	36.283	21.693	215	0.02	0.2	2032.40		+1.64		
	888									810P										
172	889	TTNA	7	229	39-00N	44-00W	3 3	152	811001	811P	36.501	17.856	208	0.19	4.0	2078.67		+1.24		
	890									812P										
173	891	TTNA	7	229	39-00N	44-00W	4 41	247	811001	531P	36.415	17.324	208	0.28	4.9	2084.01	2384	+1.24		
	893									532P										

DIC REC:
 RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)
 DEPTH:
 p = SURFACE PUMP SAMPLE
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TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	P04 uM/kg	N03 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E CO2 (ppm)
174	892 894	TTNA	7	229	39-00N	44-00W	3 7	398	811001	525P 526P	36.168	15.882	197	0.48	8.5	2103.24	2369	+1.10	
175	895 896	TTNA	7	229	39-00N	44-00W	4 42	495	811001	605P 606P	35.923	14.430	198	0.62	10.6	2113.60	2355	+0.98	
176	897 898	TTNA	7	229	39-00N	44-00W	3 8	602	811001	527P 528P	35.726	13.226	204	0.71	12.1	2118.99		+1.01	
177	899 900	TTNA	7	229	39-00N	44-00W	4 43	693	811001	607P 608P	35.530	11.775	183	0.99	16.2	2143.21	2335	+0.88	
178	901 902	TTNA	7	229	39-00N	44-00W	3 9	797	811001	529P 530P	35.236	9.461	160	1.36	22.1	2173.15	2323	+0.77	
179	903 905	TTNA	7	229	39-00N	44-00W	4 45	992	811001	609P 610P	35.051	6.432	206	1.30	20.0	2171.28	2320	+0.81	
180	904 906	TTNA	7	229	39-00N	44-00W	2 40	2073	811001	825P 826P	34.976	3.857	268	1.15	17.4	2154.45	2311	+0.92	
181	907 908	TTNA	7	229	39-00N	44-00W	2 43	3064	811001	827P 828P	34.942	2.936	270	1.17	17.4	2158.27	2316	+1.00	
182	909 911	TTNA	7	229	39-00N	44-00W	2 45	4056	811001	805P 806P	34.904	2.325	271	1.23	18.9	2166.92	2324	+0.95	
183	856 857	TTNA	7	231	36-00N	47-01W	2 1	15	811003	425P 426P	36.322	23.204	220	0.01	0.2	2024.30		+1.77	326.4
184	860 861	TTNA	7	231	36-00N	47-01W	2 2	75	811003	427P 428P	36.307	17.544	235	0.01	0.2	2065.33	2384	+1.46	
185	862 864	TTNA	7	231	36-00N	47-01W	2 3	150	811003	461P 462P	36.300	16.500	212	0.29	5.6	2088.33	2388	+1.22	
186	865 866	TTNA	7	231	36-00N	47-01W	4 40	247	811003	685P 686P	36.093	15.387	207	0.43	8.1	2099.36	2365	+1.14	
187	867 868	TTNA	7	231	36-00N	47-01W	4 41	397	811003	687P 688P	35.817	13.705	197	0.69	11.6	2120.18	2352	+0.96	
188	869 870	TTNA	7	231	36-00N	47-01W	2 5	473	811003	463P 464P	35.647	12.485	190	0.85	14.4	2135.98	2350	+0.90	
189	871 872	TTNA	7	231	36-00N	47-01W	2 6	672	811003	465P 466P	35.220	9.012	162			2176.83	2328	+0.70	
190	873 874	TTNA	7	231	36-00N	47-01W	4 43	695	811003	689P 690P	35.209	8.803	165	1.37	22.0	2178.23	2340	+0.94#	

DIC REC:

RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)

DEPTH:

p = SURFACE PUMP SAMPLE

SAMPLE BOTTLE:

P = PYREX

FLAGS (CARRIED FROM TABLES 8,12):

- * = REJECTED PEREMPTORILY FOR LONG STORAGE
- & = REJECTED FOR CAUSE
- # = REJECTED FOR STATISTICS
- s = SALINITY MEASURED AFTER DIC EXTRACTION

NOTE:

WEISS E CO2'S ARE PCO2'S MEASURED SHIPBOARD WITH EQUILIBRATOR AT OR NEAR TIME OF SAMPLE FOR DIC

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 13 (CONT.). SELECTED PARAMETERS MEASURED FOR DIC WATER SAMPLES

REC NO.	DIC REC	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	SAL o/oo	TEMP (C)	O2 uM/kg	P04 uM/kg	N03 uM/kg	DIC uM/kg	ALK uEq/kg	C13/C12	WEISS E CO2 (ppm)
191	876	TTNA	7	231	36-00N	47-01W	2 8	922	811003	467P	35.324	7.251	203	1.24	19.4	2177.77	2343	+0.96‡	
	878									468P									
192	877	TTNA	7	231	36-00N	47-01W	4 45	996	811003	691P	35.307	6.939	210	1.21	18.8	2174.85	2334	+0.84	
	879									692P									
193	878	TTNA	7	231	36-00N	47-01W	1 42	2093	811003	611P	34.974	3.596	266	1.16	17.8	2156.69	2318	+1.07	
	880									612P									
194	881	TTNA	7	231	36-00N	47-01W	1 44	3074	811003	421P	34.930	2.736	268	1.21	18.3	2164.32	2327	+1.02	
	882									422P									
195	883	TTNA	7	231	36-00N	47-01W	1 46	4060	811003	423P	34.896	2.260	267	1.25	18.9	2172.68	2331	+1.00	
	884									424P									
196	837	TTNA	7	233	33-55N	49-35W	1 1	8	811004	373P	36.606	23.997	217	0.01	0.0	2032.04	2395		332.7
	838									374P									
197	839	TTNA	7	234	31-45N	50-45W	4 40	8	811005	535P	36.439	24.161	216	0.01	0.0	2023.99	2386	+1.87	339.0
	840									536P									
198	841	TTNA	7	234	31-45N	50-45W	4 41	98	811005	537P	36.526	19.982	227	0.01	0.0	2053.11	2387	+1.58	
	842									538P									
199	843	TTNA	7	234	31-45N	50-45W	2 2	159	811005	375P	36.455	17.670	203	0.21	4.4	2084.70		+1.36	
	844									376P									
200	845	TTNA	7	234	31-45N	50-45W	4 42	243	811005	539P	36.395	17.174	211	0.25	4.6	2083.70	2384	+1.29	
	846									540P									
201	847	TTNA	7	234	31-45N	50-45W	4 43	387	811005	678P	36.155	15.814	193	0.49	8.5	2105.56	2367	+1.28	
	849									679P									
202	848	TTNA	7	234	31-45N	50-45W	2 4	452	811005	377P	36.026	15.059	190	0.58	10.1	2113.89		+1.21	
	850									378P									
203	851	TTNA	7	234	31-45N	50-45W	4 44	529	811005	680P	35.753	13.280	187	0.79	13.1	2129.22	2353	+1.14	
	852									684P									
204	853	TTNA	7	234	31-45N	50-45W	2 5	596	811005	380P	35.597	12.306	170	1.00	16.6	2146.82	2344	+1.07	
205	854	TTNA	7	234	31-45N	50-45W	2 6	750	811005	533P	35.199	8.851	159	1.42	23.1	2179.10		+0.88	
	855									534P									
206	863	TTNA	7	248	43-01N	59-35W	1 1	7	811018	682P	32.170	13.663	267	0.19	0.0	1959.47	2177	+2.12	325.5
	859									683P									

DIC REC:
RECORD NO. OF SAMPLE IN TABLE 4 (FOR CONSTANT VOLUME MERCURY MANOMETER DIC ANALYSES) OR 5 (FOR QUARTZ SPIRAL MANOMETER ANALYSES)
DEPTH:
p = SURFACE PUMP SAMPLE
SAMPLE BOTTLE:
P = PYREX

FLAGS (CARRIED FROM TABLES 8,12):
* = REJECTED PEREMPTORILY FOR LONG STORAGE
‡ = REJECTED FOR CAUSE
‡ = REJECTED FOR STATISTICS
s = SALINITY MEASURED AFTER DIC EXTRACTION

NOTE:
WEISS E CO2'S ARE PCO2'S MEASURED SHIPBOARD WITH EQUILIBRATOR AT OR NEAR TIME OF SAMPLE FOR DIC

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14. SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	ssDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg
1	TTNA	0	3	31-48N	50-48W	5 41	2812	801023	277P			2170.47				322	83	
2	TTNA	0	3	31-48N	50-48W	5 42	2750	801023	278P 279P			2172.17				323	64	
3	TTNA	0	3	31-48N	50-48W	5 46	3209	801023	280P 281P			2176.49				326	63	
4	TTNA	0	3	31-48N	50-48W	5 47	3667	801023	282P 283P			2177.69				328	64	
5	TTNA	0	3	31-48N	50-48W	5 48	3675	801023	284P 285P			2177.61				329		
6	TTNA	0	3	31-48N	50-48W	5 45	4125	801023	286P 287P			2183.02				330	66	
7	TTNA	0	3	31-48N	50-48W	5 44	4677	801023	288P 289P			2198.46				331	75	
8	TTNA	0	4	35-58N	47-01W	2 2	1	801026	290P 293P	0.04	0.1	1951.39	2296.14	1953.32	1949.23	214	-4	0.07
9	TTNA	0	4	35-58N	47-01W	2 24	3854	801026	294P 295P	1.27	19.0	2175.89	2349.82	2150.99	2015.98	330	61	0.83
10	TTNA	0	13	38-59N	43-58W	3 2	3	801031	296P 297P	0.01	0.2	1957.05	2289.52	1962.29	1961.27	217	-4	0.03
11	TTNA	0	13	38-59N	43-58W	3 12	746	801031	298P 299P	1.18	19.6	2144.62	2322.64	2133.30	2008.47	277	100	0.46
12	TTNA	0	13	38-59N	43-58W	3 21	2239	801031	300P 301P	1.13	17.9	2156.46	2336.97	2137.97	2018.09	318	50	0.77
13	TTNA	0	13	38-59N	43-58W	3 33	4843	801031	302P 303P	1.20	18.2	2175.08	2344.80	2152.68	2025.13	330	58	0.78
14	TTNA	0	23	40-33N	54-14W	3 2	2	801106	304P 305P	0.05	0.0	2007.21	2314.94	1999.74	1994.43	236	0	0.05
15	TTNA	0	23	40-33N	54-14W	3 16	3719	801106	306P 307P	1.16	17.8	2168.32	2349.67	2143.48	2020.22	328	56	0.75
16	TTNA	1	1	39-48N	70-05W	2 27	10	810402	308P 309P	0.60	8.4	2083.01#	2347.65	2059.18#	1995.94#	267	4	0.57
17	TTNA	1	3	38-17N	69-10W	1 1	12	810403	310P 311P	0.59	8.7	2058.66	2336.24	2040.54	1978.23	253	3	0.57
									312P									

DEPTH:
p = SURFACE PUMP SAMPLE
SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION
OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
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= REJECTED FOR CAUSE
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg
18	TTNA	1	5	36-00N	68-00W	2 1	10	810405	313P	0.04	0.1	1946.03	2298.51	1946.78	1942.70	219	-8	0.08
19	TTNA	1	6	34-41N	67-21W	2 1	11	810405	314P 315P	0.02	0.0	1944.28	2300.01	1944.28	1942.24	216	20	-0.12
20	TTNA	1	7	31-40N	68-30W	3 1	12	810407	318P	0.03	0.6	1968.22				230	-10	0.10
21	TTNA	1	8	31-20N	71-30W	3 1	12	810408	319P 320P	0.05	0.0	1963.00	2293.06	1966.47	1961.40	229	-13	0.14
22	TTNA	1	11	30-50N	74-03W	2 1	7	810410	321P 322P	0.03	0.0	1959.40	2301.38	1958.71	1955.67	226	-12	0.11
23	TTNA	1	13	29-58N	77-21W	1 69	9	810411	324P	0.03	0.0	1938.27	2296.44	1940.05	1936.99	211	-8	0.07
24	TTNA	2	15	25-35N	76-23W	2 1	11	810417	341P 342P	0.02	0.0	1932.96	2284.99	1940.47	1938.45	212	-14	0.12
25	TTNA	2	16	22-51N	73-10W	2 1	13	810419	343P 344P	0.01	0.0	1926.31	2287.90	1932.36	1931.34	206	-8	0.05
26	TTNA	2	20	25-47N	70-26W	2 1	13	810421	345P 346P	0.03	0.0	1935.69	2291.71	1939.84	1936.81	211	-9	0.09
27	TTNA	2	22	25-47N	66-00W	1 1	13	810423	347P 348P	0.02	0.0	1930.50	2298.31	1931.34	1929.32	211	-5	0.05
28	TTNA	2	24	23-18N	64-10W	2 1	12	810424	445P 446P	0.01	0.0	1928.82	2296.09	1930.77	1929.76	208	0	0.01
29	TTNA	2	26	20-47N	62-16W	2 1	11	810426	447P	0.01	0.0	1916.91	2301.20	1916.31	1915.29	202	-9	0.07
30	TTNA	2	28	18-07N	60-39W	3 1	12	810427	450P	0.02	0.0	1928.20	2296.06	1930.17	1928.09	200	-5	0.06
31	TTNA	2	29	17-08N	59-31W	1 1	11	810428	451P 452P	0.03	0.0	1934.89	2297.04	1936.37	1933.25	198	-5	0.06
32	TTNA	2	32	15-03N	53-57W	0 0	4p	810430	495P 496P	0.01	0.1	1935.37	2306.68	1932.03	1930.96	200	-8	0.05
33	TTNA	2	32	15-03N	53-57W	2 1	11	810430	493P 494P	0.01	0.1	1933.99	2306.68	1930.65	1929.58	200	-8	0.05
34	TTNA	2	32	15-03N	53-57W	4 41	99	810430	499P 500P	0.02	0.2	1945.55	2290.66	1950.23	1948.23	204		
35	TTNA	2	32	15-03N	53-57W	4 43	152	810430	565P 566P	0.19	4.1	2010.38	2302.51	2009.13	1989.02	218		
36	TTNA	2	32	15-03N	53-57W	4 44	253	810430	567P 568P	0.86	15.1	2092.64				244		

DEPTH:
p = SURFACE PUMP SAMPLE
SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION
OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
* = REJECTED PEREMPTORILY FOR LONG STORAGE
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= REJECTED FOR STATISTICS
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	CAST LONG.	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg	
37	TTNA	2	32	15-03N	53-57W	4 45	352	810430	569P	1.36	23.0	2152.79	2321.37	2142.10	1998.14	259		
38	TTNA	2	32	15-03N	53-57W	4 47	749	810430	570P	2.17	33.7	2236.05	2360.71	2205.70	1976.14	299		
39	TTNA	2	32	15-03N	53-57W	5 44	1097	810430	572P	1.93	29.1	2215.89	2358.35	2187.72	1983.38	307	144	0.88
40	TTNA	2	32	15-03N	53-57W	5 45	1982	810430	485P	1.25	19.1	2161.60	2341.55	2140.82	2008.28	319	59	0.82
41	TTNA	2	32	15-03N	53-57W	5 48	2970	810430	486P	1.35	20.1	2179.70	2381.10	2149.14	2005.70	328	89	0.85
42	TTNA	2	32	15-03N	53-57W	3 44	3993	810430	487P	1.29	19.4	2178.73	2381.20	2148.13	2011.01	329	84	0.83
43	TTNA	2	34	18-02N	53-58W	0 0	4p	810502	488P	0.01	0.0	1927.19	2305.42	1924.49	1923.44	201	-3	0.03
44	TTNA	2	34	18-02N	53-58W	2 1	8	810502	477P	0.01	0.0	1927.98	2305.42	1925.27	1924.22	201	-3	0.03
45	TTNA	2	34	18-02N	53-58W	2 2	71	810502	478P	0.01	0.0	1918.78	2298.45	1918.56	1917.56	203	-11	0.08
46	TTNA	2	34	18-02N	53-58W	2 4	146	810502	491P	0.03	0.9	1978.34				215	27	-0.16
47	TTNA	2	34	18-02N	53-58W	2 6	247	810502	492P	0.44	8.2	2037.42	2299.95	2037.44	1990.54	235	67	-0.02
48	TTNA	2	34	18-02N	53-58W	2 8	346	810502	479P	0.79	13.7	2084.17	2308.04	2080.15	1996.70	246	96	0.11
49	TTNA	2	34	18-02N	53-58W	2 11	667	810502	482P	1.87	29.7	2207.40	2347.37	2183.71	1985.42	288	164	0.68
50	TTNA	2	34	18-02N	53-58W	2 13	962	810502	484P	2.01	30.6	2224.20	2359.07	2194.66	1981.52	305	143	0.97
51	TTNA	2	34	18-02N	53-58W	2 18	1975	810502	583P	1.28	19.5	2166.62	2345.05	2144.09	2008.34	319	64	0.82
52	TTNA	2	34	18-02N	53-58W	2 20	2951	810502	584P	1.34	20.1	2182.57	2360.23	2152.45	2010.12	328	89	0.84
53	TTNA	2	34	18-02N	53-58W	2 22	3928	810502	585P	1.43	21.4	2199.74	2371.59	2163.95	2011.86	330	75	0.89
									586P									
									587P									
									588P									
									629P									
									630P									
									631P									
									632P									

DEPTH:
 p = SURFACE PUMP SAMPLE
 SAMPLE BOTTLE TYPE:
 P = PYREX
 NOTE: SEE TABLE 15 FOR EXPLANATION
 OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg
54	TTNA	2	36	21-01N	53-59W	0 0	4p	810503	363P 364P	0.01	0.1	1918.13	2295.25	1918.51	1917.49	203	-4	0.04
55	TTNA	2	36	21-01N	53-59W	4 40	10	810503	549P 550P	0.01	0.1	1918.33	2295.25	1918.71	1917.89	203	-4	0.04
56	TTNA	2	36	21-01N	53-59W	4 45	70	810503	551P 552P	0.00	0.1	1921.84	2291.48	1926.10	1926.10	207	-7	0.05
57	TTNA	2	36	21-01N	53-59W	4 44	150	810503	553P 554P	0.04	1.2	1986.18	2295.31	1988.53	1984.49	223	32	-0.18
58	TTNA	2	36	21-01N	53-59W	4 41	239	810503	555P 556P	0.18	4.1	2007.39	2293.31	2010.73	1991.44	231	40	-0.09
59	TTNA	2	36	21-01N	53-59W	2 7	365	810503	633P 634P	0.46	8.4	2039.54	2300.31	2039.39	1990.19	241	54	0.09
60	TTNA	2	36	21-01N	53-59W	4 47	676	810503	597P 598P	1.55	25.1	2176.36	2336.97	2157.88	1993.57	279	141	0.53
61	TTNA	2	36	21-01N	53-59W	2 12	994	810503	635P 636P	1.79	27.3	2204.88	2351.43	2179.17	1988.99	303	135	0.81
62	TTNA	2	36	21-01N	53-59W	2 18	1973	810503	357P 358P	1.31	19.7	2169.19	2346.68	2145.85	2006.95	319	67	0.82
63	TTNA	2	36	21-01N	53-59W	2 18	2925	810503	359P 360P	1.35	20.1	2179.36	2358.03	2150.35	2006.97	326	69	0.85
64	TTNA	2	36	21-01N	53-59W	2 20	3899	810503	361P 362P	1.34	19.9	2181.39	2363.09	2149.84	2007.38	329	66	0.86
65	TTNA	2	38	23-51N	54-03W	0 0	4p	810505	599P 600P	0.01	0.0	1923.18	2290.82	1927.77	1928.77	205	-3	0.03
66	TTNA	2	38	23-51N	54-03W	2 1	11	810505	601P 602P	0.01	0.0	1922.14	2290.82	1926.74	1925.74	205	-3	0.03
67	TTNA	2	38	23-51N	54-03W	2 2	48	810505	603P 604P	0.01	0.0	1921.28	2297.40	1922.58	1921.58	206	-6	0.05
68	TTNA	2	38	23-51N	54-03W	2 3	106	810505	381P 382P	0.01	0.0	1931.10	2290.25	1935.98	1934.98	209	-1	0.01
69	TTNA	2	38	23-51N	54-03W	2 5	273	810505	384P	0.19	4.1	2001.34	2293.80	2004.43	1984.11	231	36	-0.06
70	TTNA	2	38	23-51N	54-03W	2 7	355	810505	385P 386P	0.31	6.0	2016.51	2293.86	2019.58	1986.94	236	41	0.02

DEPTH:
p = SURFACE PUMP SAMPLE
SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION
OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
* = REJECTED PEREMPTORILY FOR LONG STORAGE
= REJECTED FOR CAUSE
\$ = REJECTED FOR STATISTICS
s = SALINITY MEASURED AFTER DIC EXTRACTION

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	CAST LONG.	NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg
71	TTNA	2	38	23-51N	54-03W	2 10	893	810505	387P 388P	1.23	20.4	2141.28	2325.13	2128.72	1997.95	269	119	0.38
72	TTNA	2	38	23-51N	54-03W	2 12	992	810505	389P 390P	1.72	26.7	2196.09	2351.74	2170.22	1988.03	295	137	0.72
73	TTNA	2	38	23-51N	54-03W	2 18	1958	810505	391P 392P	1.30	19.6	2169.98	2353.03	2143.47	2005.72	318	70	0.80
74	TTNA	2	38	23-51N	54-03W	2 20	2841	810505	393P 394P	1.37	20.5	2183.91	2385.13	2151.35	2005.87	325	73	0.84
75	TTNA	2	38	23-51N	54-03W	2 22	3747	810505	395P 396P	1.42	21.1	2191.40	2374.68	2154.06	2003.08	330	74	0.89
76	TTNA	2	39	25-21N	55-54W	2 1	11	810506	437P 438P 439P	0.02	0.1	1928.28	2288.66	1933.95	1931.94	208		
77	TTNA	2	40	27-30N	58-35W	2 1	7	810507	440P 441P	0.01	0.0	1945.99	2288.85	1951.57	1950.55	210	-11	0.08
78	TTNA	2	41	29-43N	61-18W	1 1	13	810509	442P 443P	0.00	0.0	1958.78	2288.30	1962.63	1962.63	217	-9	0.06
79	TTNA	3	43	31-46N	50-45W	4 1	10	810518	647P 648P	0.04	0.0	1966.18*	2293.81	1969.27*	1965.20*	218	-8	0.10
80	TTNA	4	124	53-15N	36-41W	3 1	14	810706	721P 722P	0.41	5.2	2116.31#	2313.38	2109.62#	2065.81#	280	-18	0.55
81	TTNA	4	125	55-00N	34-41W	1 1	13	810707	723P 724P	0.31	4.3	2146.25*	2310.95	2140.77*	2107.62*	275	-19	0.45
82	TTNA	4	126	57-00N	32-20W	2 1	14	810708	670P	0.41	4.9	2097.36*	2307.50	2093.61*	2050.02*	274	-13	0.51
83	TTNA	4	127	58-30N	30-00W	2 1	10	810708	671P 672P	0.45	5.5	2118.81*	2318.88	2109.37*	2061.65*	277	-20	0.59
84	TTNA	5	141	58-34N	11-33W	2 1	14	810723	707P 708P	0.29	4.2	2061.20*	2315.71	2053.34*	2022.87*	281	-8	0.34
85	TTNA	5	143	64-50N	6-14W	4 1	9	810725	769P 770P	0.14	0.5	2071.60	2322.15	2060.53	2045.65	285	-17	0.27
86	TTNA	5	144	67-41N	3-20W	5 42	12	810726	415P 416P	0.12	0.5	2064.08				285	-13	0.22
87	TTNA	5	145	70-00N	2-29E	5 1	14	810727	417P 418P	0.21	1.0	2057.32				286	-20	0.35

DEPTH:
p = SURFACE PUMP SAMPLE
SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION
OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
* = REJECTED PEREMPTORILY FOR LONG STORAGE
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	CAST LONG.	NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sNO3 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg
88	TTNA	5	146	72-25N	2-04E	1 1	10	810729	419P	0.23	1.0	2066.32	2314.30	2059.17	2034.79	295	-21	0.38
									420P									
89	TTNA	5	148	74-56N	1-08W	5 40	9	810730	561P	0.12	0.4	2080.67	2325.73	2067.81	2054.87	321	-20	0.27
									562P									
90	TTNA	5	148	74-56N	1-08W	2 2	13	810730	661P	0.13	0.4	2083.10	2326.41	2069.90	2055.87	319	-18	0.27
									662P									
91	TTNA	5	148	74-56N	1-08W	5 41	77	810730	563P	0.83	12.3	2157.80	2322.15	2146.73	2058.40	356	2	0.82
									564P									
92	TTNA	5	148	74-56N	1-08W	5 42	247	810730	569P	0.88	13.4	2161.74	2323.85	2149.82	2056.19	361	28	0.68
									590P									
93	TTNA	5	148	74-56N	1-08W	5 43	444	810730	591P	0.93	14.4	2163.01	2320.82	2152.60	2053.70	361	38	0.66
									592P									
94	TTNA	5	148	74-56N	1-08W	4 40	740	810730	665P	0.93	14.2	2163.34	2323.70	2151.49	2052.58	361	40	0.64
									666P									
95	TTNA	5	148	74-56N	1-08W	4 42	937	810730	667P	0.94	14.3	2167.68#	2320.67	2157.34#	2057.38#	361	42	0.64
									668P									
96	TTNA	5	148	74-56N	1-08W	4 46	1879	810730	557P	0.95	14.5	2162.58				361	41	0.66
									558P									
97	TTNA	5	148	74-56N	1-08W	4 48	2482	810730	559P	0.94	14.5	2161.30				361	40	0.65
									560P									
98	TTNA	5	148	74-56N	1-08W	2 32	2978	810730	663P	0.95	14.5	2161.91	2320.74	2151.54	2050.53	360	39	0.67
									664P									
99	TTNA	5	149	76-53N	1-02E	2 2	11	810731	593P	0.14	0.0	2084.63				342	-25	0.33
									594P									
100	TTNA	5	158	71-10N	7-29W	1 1	5	810805	595P	0.09	0.0	2111.63#	2333.20	2095.03#	2085.58#	330	-18	0.23
									596P									
101	TTNA	5	159	68-44N	10-34W	4 40	11	810806	779P	0.07	0.0	2086.64				308	-14	0.17
									780P									
102	TTNA	5	159	68-44N	10-34W	4 41	76	810806	517P	0.76	9.3	2160.57	2323.30	2148.92	2067.86	356	6	0.72
103	TTNA	5	159	68-44N	10-34W	4 42	201	810806	519P	0.85	11.9	2159.61	2316.70	2151.26	2060.73	354	15	0.74
									520P									
104	TTNA	5	159	68-44N	10-34W	4 43	301	810806	521P	0.88	12.9	2158.61	2319.76	2148.73	2055.08	354	18	0.75
									522P									

DEPTH:
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SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	LONG.	CAST NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	ssDIC uM/kg	ssapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg
105	TTNA	5	159	68-44N	10-34W	4 44	399	810806	523P			2163.71				351		
106	TTNA	5	159	68-44N	10-34W	4 45	500	810806	524P 541P	0.99	14.3	2163.64	2321.72	2152.77	2047.54	352	52	0.61
107	TTNA	5	159	68-44N	10-34W	4 46	600	810806	542P 543P	1.00	14.4	2165.53	2324.44	2153.31	2047.03	354	53	0.62
108	TTNA	5	159	68-44N	10-34W	4 48	797	810806	544P 545P			2163.28				355		
109	TTNA	5	159	68-44N	10-34W	1 40	949	810806	546P 775P	1.02	15.1	2163.98	2326.03	2150.97	2042.57	356	55	0.62
110	TTNA	5	159	68-44N	10-34W	1 48	2140	810806	776P 777P	1.07	15.5	2169.88	2325.62	2157.07	2043.36	358	59	0.64
111	TTNA	5	167	64-05N	33-19W	4 40	13	810813	778P 455P	0.29	2.1	2075.04#	2327.92	2061.08#	2030.30#	275	-11	0.37
112	TTNA	5	167	64-05N	33-19W	3 80	70	810813	456P 453P	0.96	14.9	2133.20				299	16	0.85
113	TTNA	5	167	64-05N	33-19W	4 41	104	810813	454P 457P	0.99	15.8	2136.11	2332.19	2120.02	2015.24	300	19	0.85
114	TTNA	5	167	64-05N	33-19W	4 42	203	810813	458P 459P	1.01	16.2	2140.29	2334.68	2122.96	2015.97	303	22	0.85
115	TTNA	5	167	64-05N	33-19W	6 40	296	810813	460P 781P	1.03	16.3	2144.86	2331.86	2128.93	2019.72	307	22	0.87
116	TTNA	5	167	64-05N	33-19W	6 41	396	810813	782P 783P	1.05	16.7	2148.43	2332.28	2132.29	2020.87	310	26	0.86
117	TTNA	5	167	64-05N	33-19W	6 44	837	810813	785P 786P	1.07	17.0	2157.07	2334.74	2139.70	2026.00	316	32	0.84
118	TTNA	5	167	64-05N	33-19W	6 46	1233	810813	787P 788P	1.07	16.9	2155.72	2330.10	2140.67	2027.00	318	33	0.83
119	TTNA	5	167	64-05N	33-19W	2 40	1966	810813	409P 410P	1.06	16.7	2155.39	2335.63	2137.58	2025.03	322	47	0.72
120	TTNA	5	167	64-05N	33-19W	2 48	2317	810813	411P 412P	0.90	13.8	2156.46	2330.82	2141.04	2045.31	346	41	0.61
121	TTNA	6	177	58-40N	38-16W	0 0	4p	810826	475P 476P	0.53	5.5	2101.40	2341.42	2080.69	2024.89	287	-5	0.57

DEPTH:
p = SURFACE PUMP SAMPLE
SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION
OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	CAST LONG.	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg	
122	TTNA	8	177	58-40N	38-16W	3 1	103	810826	325P	1.05	14.6	2154.38	2338.11	2135.33	2024.20	321	2	1.03
123	TTNA	8	177	58-40N	38-16W	3 2	192	810826	326P 327P	1.09	15.9	2156.61	2334.49	2139.36	2024.11	324	15	0.98
124	TTNA	8	177	58-40N	38-16W	3 3	253	810826	328P 329P	1.08	15.9	2156.90	2337.70	2138.05	2023.91	324	17	0.98
125	TTNA	8	177	58-40N	38-16W	3 5	504	810826	330P 331P	1.08	16.0	2153.97	2335.78	2136.08	2022.09	322	17	0.95
126	TTNA	8	177	58-40N	38-16W	3 6	604	810826	332P 677P	1.07	15.9	2154.26				322	17	0.94
127	TTNA	8	177	58-40N	38-16W	3 9	830	810826	749P 751P	1.08	15.9	2153.32	2334.07	2136.28	2022.31	321	19	0.93
128	TTNA	8	177	58-40N	38-16W	3 13	1550	810826	752P 753P	1.10	16.5	2154.23	2337.91	2135.27	2018.30	321	36	0.84
129	TTNA	8	177	58-40N	38-16W	3 17	2587	810826	754P 755P	1.10	16.0	2156.70	2338.24	2137.58	2020.82	324	46	0.77
130	TTNA	8	177	58-40N	38-16W	3 21	3159	810826	756P 829P	0.94	13.6	2153.72				337	34	0.70
131	TTNA	8	206	53-55N	39-53W	0 0	4p	810908	830P 397P	0.41	3.7	2083.86	2324.06	2071.83	2028.76	270	-6	0.45
132	TTNA	8	206	53-55N	39-53W	1 1	13	810908	398P 399P	0.41	3.7	2086.10	2324.06	2074.08	2031.01	270	-6	0.45
133	TTNA	8	206	53-55N	39-53W	1 2	54	810908	400P 401P	0.94	13.8	2149.16	2333.09	2132.62	2033.08	298	32	0.70
134	TTNA	8	206	53-55N	39-53W	1 3	78	810908	402P 403P	1.07	15.7	2156.64	2334.87	2139.20	2025.86	305	40	0.78
135	TTNA	8	206	53-55N	39-53W	1 4	164	810908	404P 365P	1.09	16.1	2154.70	2334.69	2137.36	2022.16	309	29	0.87
136	TTNA	8	206	53-55N	39-53W	1 6	379	810908	366P 367P	1.16	17.5	2163.39	2333.82	2146.48	2023.99	315	42	0.85
137	TTNA	8	206	53-55N	39-53W	1 9	803	810908	368P 369P	1.12	17.3	2162.06	2331.91	2146.10	2026.89	320	38	0.85
138	TTNA	8	206	53-55N	39-53W	1 10	1001	810908	370P 371P	1.13	17.4	2159.95	2332.29	2143.81	2023.62	319	39	0.85
									372P									

DEPTH:
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SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	CAST LONG.	DEPTH NISK (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg
139	TTNA	6	206	53-55N	39-53W	1 13	1597	810908 615P	1.12	17.0	2157.09	2330.78	2141.70	2022.69	320	41	0.82
140	TTNA	6	206	53-55N	39-53W	1 15	2052	810908 618P 613P 614P	1.12	16.8	2155.65	2333.39	2138.96	2020.06	321	46	0.79
141	TTNA	6	206	53-55N	39-53W	1 20	3097	810908 617P 618P	1.12	16.5	2163.30 [‡]	2347.44	2139.58 [‡]	2020.71 [‡]	325	51	0.75
142	TTNA	6	207	53-05N	37-51W	1 1	7	810909 619P 620P	0.21	0.7	2070.22	2324.17	2058.13	2035.53	263	-8	0.27
143	TTNA	6	209	50-05N	37-52W	1 1	10	810910 791P 792P	0.11	0.0	2047.08	2323.15	2035.51	2023.74	247	-4	0.14
144	TTNA	6	210	48-50N	37-50W	1 1	13	810910 793P 794P	0.11	0.0	2049.98	2325.23	2037.37	2025.59	248	-6	0.16
145	TTNA	6	211	47-40N	37-50W	2 1	10	810911 795P 796P	0.07	0.0	2019.50	2324.66	2007.17	1999.80	240	-6	0.11
146	TTNA	6	214	51-00N	42-58W	0 0	4p	810913 697P 698P	0.07	0.0	2012.36	2317.83	2003.45	1996.10	241	-4	0.10
147	TTNA	6	214	51-00N	42-58W	7 1	157	810913 699P 700P	0.52	8.0	2052.64	2312.86	2046.21	1991.29	254	20	0.38
148	TTNA	6	214	51-00N	42-58W	7 2	304	810913 509P 510P	0.49	7.8	2050.39	2307.05	2046.86	1995.09	255	14	0.39
149	TTNA	6	214	51-00N	42-58W	7 4	706	810913 511P	1.35	20.9	2172.83				296	99	0.63
150	TTNA	6	214	51-00N	42-58W	7 5	904	810913 513P 514P	1.19	18.3	2164.81	2337.94	2145.84	2019.29	312	59	0.77
151	TTNA	6	214	51-00N	42-58W	7 7	1304	810913 515P 516P	1.16	17.7	2157.96	2336.80	2139.56	2016.34	315	45	0.83
152	TTNA	6	214	51-00N	42-58W	7 11	2244	810913 741P 742P	1.13	17.2	2156.61	2335.07	2139.08	2019.06	320	44	0.81
153	TTNA	6	214	51-00N	42-58W	7 22	4236	810913 743P 744P	1.01	14.9	2158.19	2331.64	2142.37	2034.96	333	42	0.71
154	TTNA	7	224	46-56N	43-04W	1 1	8	810925 761P	0.17	0.1	2109.97	2358.46	2080.74	2062.67	259	-9	0.24
155	TTNA	7	225	46-55N	41-49W	3 1	15	810926 763P 764P	0.12	0.2	2079.11	2349.93	2054.15	2041.89	242	-7	0.17
156	TTNA	7	226	46-42N	40-00W	3 1	11	810926 501P	0.03	0.2	2018.09	2318.96	2008.61	2005.40	231	-5	0.07

DEPTH:
p = SURFACE PUMP SAMPLE
SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION
OF CALCULATED PARAMETERS

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	CAST LONG.	NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sNO3 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg
157	TTNA	7	227	44-59N	42-02W	2 1	27	810928	503P 504P	0.04	0.6	1988.04	2301.30	1987.39	1983.24	229	0	0.04
158	TTNA	7	228	42-01N	42-00W	2 41	84	810929	505P 506P	0.17	3.5	1997.88	2292.43	2001.67	1983.36			
159	TTNA	7	228	42-01N	42-00W	3 3	152	810929	579P 580P	0.21s	4.2s	2000.40s	2295.95s	2002.43s	1980.02s	234s	23s	0.05s
160	TTNA	7	228	42-01N	42-00W	2 42	185	810929	507P 508P	0.25s	4.7s	2003.06s	2296.32s	2004.90s	1978.41s			
161	TTNA	7	228	42-01N	42-00W	3 4	251	810929	429P 430P	0.29	5.4	2009.20	2294.09	2012.15	1981.54	237	25	0.11
162	TTNA	7	228	42-01N	42-00W	3 5	302	810929	431P 432P	0.39	7.0	2026.41	2297.71	2027.56	1986.58	240	35	0.14
163	TTNA	7	228	42-01N	42-00W	2 43	379	810929	573P 574P	0.46	8.0	2041.08	2305.55	2038.30	1989.89			
164	TTNA	7	228	42-01N	42-00W	3 6	499	810929	433P 434P	0.68	11.4	2072.82	2309.48	2068.08	1996.51	254	50	0.32
165	TTNA	7	228	42-01N	42-00W	2 44	679	810929	575P 576P	1.04	17.3	2125.75	2320.37	2115.56	2005.60			
166	TTNA	7	228	42-01N	42-00W	2 46	975	810929	577P 578P	1.43	22.4	2168.05	2336.16	2149.97	1998.57	300	87	0.80
167	TTNA	7	228	42-01N	42-00W	4 41	2046	810929	435P 436P	1.13	17.4	2155.15	2330.46	2139.92	2019.94	318	44	0.81
168	TTNA	7	228	42-01N	42-00W	4 44	3046	810929	821P 822P	1.13	17.1	2157.60	2334.30	2140.45	2020.46	323	49	0.77
169	TTNA	7	228	42-01N	42-00W	4 46	4025	810929	823P 824P	1.17	18.2	2168.38	2343.33	2146.72	2022.38	329	55	0.78
170	TTNA	7	229	39-00N	44-00W	3 1	11	811001	807P 808P	0.02	0.0	1953.75	2201.78	1957.86	1955.81	213	0	0.02
171	TTNA	7	229	39-00N	44-00W	3 2	55	811001	809P 810P	0.02	0.2	1961.61				217	2	0.01
172	TTNA	7	229	39-00N	44-00W	3 3	152	811001	811P 812P	0.18	3.8	1993.19				232	24	0.02
173	TTNA	7	229	39-00N	44-00W	4 41	247	811001	531P 532P	0.25	4.7	2003.03	2296.32	2004.87	1978.38	234	26	0.07

DEPTH:
p = SURFACE PUMP SAMPLE
SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION
OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
* = REJECTED PEREMPTORILY FOR LONG STORAGE
= REJECTED FOR CAUSE
‡ = REJECTED FOR STATISTICS
s = SALINITY MEASURED AFTER DIC EXTRACTION

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
 TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	CAST LONG.	NISK	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg
174	TTNA	7	229	39-00N	44-00W	3 7	398	811001	525P	0.46	8.2	2035.43	2301.31	2034.77	1985.53	241	44	0.15
									528P									
175	TTNA	7	229	39-00N	44-00W	4 42	495	811001	605P	0.60	10.3	2059.29	2305.42	2056.58	1992.55	249	51	0.24
									606P									
176	TTNA	7	229	39-00N	44-00W	3 8	602	811001	527P	0.70	11.9	2075.93				255	51	0.33
									528P									
177	TTNA	7	229	39-00N	44-00W	4 43	693	811001	607P	0.98	16.0	2111.24	2317.10	2102.69	1999.31	264	81	0.40
									608P									
178	TTNA	7	229	39-00N	44-00W	3 9	797	811001	529P	1.35	22.0	2158.59	2330.74	2143.22	2000.03	278	118	0.50
									530P									
179	TTNA	7	229	39-00N	44-00W	4 45	992	811001	609P	1.30	20.0	2168.12	2337.89	2149.17	2011.57	298	92	0.63
									610P									
180	TTNA	7	229	39-00N	44-00W	2 40	2073	811001	825P	1.15	17.4	2155.93	2331.15	2140.35	2018.37	317	49	0.80
									828P									
181	TTNA	7	229	39-00N	44-00W	2 43	3064	811001	827P	1.17	17.4	2161.85	2338.45	2142.63	2018.40	324	54	0.78
									828P									
182	TTNA	7	229	39-00N	44-00W	2 45	4056	811001	805P	1.23	19.0	2172.88	2350.58	2147.59	2016.85	329	58	0.81
									806P									
183	TTNA	7	231	36-00N	47-01W	2 1	15	811003	425P	0.01	0.2	1950.62				211	-9	0.07
									426P									
184	TTNA	7	231	36-00N	47-01W	2 2	75	811003	427P	0.01	0.2	1990.98	2298.38	1991.79	1990.77	234	-1	0.02
									428P									
185	TTNA	7	231	36-00N	47-01W	2 3	150	811003	461P	0.28	5.4	2013.54	2308.18	2009.46	1979.82	238	26	0.10
									462P									
186	TTNA	7	231	36-00N	47-01W	4 40	247	811003	685P	0.42	7.9	2035.79	2301.65	2034.98	1990.76	244	37	0.16
									686P									
187	TTNA	7	231	36-00N	47-01W	4 41	397	811003	687P	0.67	11.3	2071.82	2310.36	2066.64	1995.17	253	56	0.28
									688P									
188	TTNA	7	231	36-00N	47-01W	2 5	473	811003	463P	0.83	14.1	2097.21	2322.32	2086.05	1997.59	259	69	0.34
									464P									
189	TTNA	7	231	36-00N	47-01W	2 6	672	811003	465P			2163.23				280	118	
									466P									
190	TTNA	7	231	36-00N	47-01W	4 43	695	811003	689P	1.36	21.9	2165.30	2349.34	2140.63	1996.27	282	117	0.52
									690P									

DEPTH:
 p = SURFACE PUMP SAMPLE
 SAMPLE BOTTLE TYPE:
 P = PYREX
 NOTE: SEE TABLE 15 FOR EXPLANATION
 OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
 * = REJECTED PEREMPTORILY FOR LONG STORAGE
 & = REJECTED FOR CAUSE
 # = REJECTED FOR STATISTICS
 s = SALINITY MEASURED AFTER DIC EXTRACTION

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 14 (CONT.). SELECTED PARAMETERS CALCULATED FOR DIC WATER SAMPLES

REC NO.	EXP	LEG	STN	LAT.	CAST LONG.	DEPTH (M)	SAMPLE DATE	SAMPLE BOTTLE	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 SOL uM/kg	AOU uM/kg	pfP04 uM/kg	
191	TTNA	7	231	36-00N	47-01W	2 8	922	811003	467P	1.23	19.2	2157.79	2341.96	2136.81	2006.58	292	89	0.59
192	TTNA	7	231	36-00N	47-01W	4 45	996	811003	468P 691P	1.20	18.6	2155.94	2333.54	2139.17	2012.02	294	84	0.60
193	TTNA	7	231	36-00N	47-01W	1 42	2093	811003	692P 611P	1.16	17.8	2158.29	2338.70	2138.94	2015.89	319	53	0.78
194	TTNA	7	231	36-00N	47-01W	1 44	3074	811003	612P 421P	1.21	18.3	2168.66	2351.21	2143.05	2014.53	326	58	0.79
195	TTNA	7	231	36-00N	47-01W	1 46	4060	811003	422P 423P	1.25	19.0	2179.16	2358.16	2150.08	2017.18	330	63	0.80
196	TTNA	7	233	33-55N	49-35W	1 1	6	811004	424P 373P	0.01	0.0	1942.89	2289.93	1947.92	1946.91	208	-9	0.07
197	TTNA	7	234	31-45N	50-45W	4 40	8	811005	374P 535P	0.01	0.0	1944.06	2291.78	1948.17	1947.15	207	-8	0.06
198	TTNA	7	234	31-45N	50-45W	4 41	98	811005	536P 537P	0.01	0.0	1967.33	2287.28	1973.69	1972.68	223	-4	0.04
199	TTNA	7	234	31-45N	50-45W	2 2	159	811005	538P 375P	0.20	4.2	2001.49				233	30	-0.01
200	TTNA	7	234	31-45N	50-45W	4 42	243	811005	376P 539P	0.24	4.4	2003.83	2297.29	2005.19	1979.71	235	24	0.07
201	TTNA	7	234	31-45N	50-45W	4 43	387	811005	540P 678P	0.47	8.2	2038.30	2300.09	2038.25	1987.97	242	49	0.13
202	TTNA	7	234	31-45N	50-45W	2 4	452	811005	679P 377P	0.56	9.8	2053.69				246	56	0.17
203	TTNA	7	234	31-45N	50-45W	4 44	529	811005	378P 680P	0.77	12.8	2084.38	2317.04	2075.86	1993.88	255	68	0.29
204	TTNA	7	234	31-45N	50-45W	2 5	596	811005	684P 380P	0.98	16.3	2110.82	2321.99	2099.82	1995.60	261	91	0.34
205	TTNA	7	234	31-45N	50-45W	2 6	750	811005	533P 534P	1.41	23.0	2166.78				281	122	0.53
206	TTNA	7	248	43-01N	59-35W	1 1	7	811016	682P 683P	0.21	0.0	2131.84	2368.72	2097.49	2075.57	259	-8	0.27

DEPTH:
p = SURFACE PUMP SAMPLE
SAMPLE BOTTLE TYPE:
P = PYREX
NOTE: SEE TABLE 15 FOR EXPLANATION
OF CALCULATED PARAMETERS

FLAGS FOR ENTITIES DERIVED FROM DIC OR SAL (FLAGS FROM TABLE 8):
* = REJECTED PEREMPTORILY FOR LONG STORAGE
& = REJECTED FOR CAUSE
= REJECTED FOR STATISTICS
• = SALINITY MEASURED AFTER DIC EXTRACTION

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 15. EXPLANATION OF CALCULATIONS OF PARAMETERS IN TABLES 14 AND 16

Four in situ processes in seawater account for variation in the DIC with time and location:

- 1). Gain, loss of water in ocean surface layer by means of evaporation, precipitation
- 2). Gain, loss of CO₂ gas in ocean surface layer by exchange with overlying atmosphere
- 3). Incorporation of carbon in soft tissue of living organisms or its release by remineralization of organic remains
- 4). Incorporation of carbon in hard parts of living organisms or its release by dissolution of remains of these hard parts

These processes may be evaluated in part by the calculation of the following derived quantities:

- 1). 's' prefix (e.g., as in sPO₄) indicates normalization to a reference salinity, taken as 35. per mil in this report (e.g., adjust PO₄ to sPO₄ by: PO₄ * 35./SAL); an 's'-prefixed quantity provides an estimate of the concentration of the entity in a single water parcel in the absence of evaporation and precipitation.

- 2). POT sALK = potential alkalinity = sALK + sNO₃ + sPO₄

Changes in alkalinity are a direct means of monitoring changes in the DIC concentration brought about by incorporation and dissolution of carbonate in the hard parts of organisms. Potential alkalinity gives an estimate of the alkalinity adjusted approximately for the oxidation/reduction of nitrogen and phosphate compounds after all terms are adjusted to the reference salinity.

- 3). saDIC = sDIC - (POT sALK - 2300.)/2.

This quantity provides an estimate of the concentration of the DIC adjusted to a constant reference alkalinity (for this report reference alkalinity = 2300. $\mu\text{E}/\text{kg}$), where both DIC and alkalinity are first normalized to the reference salinity. (The removal of 1 mole of CO₃⁻² ion from seawater reduces alkalinity by 2 equivalents, thus the factor 1/2). Both evaporation/precipitation and incorpora-

NOTE: * DENOTES MULTIPLICATION; LN = NATURAL LOGARITHM

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 15. (CONT.) EXPLANATION OF CALCULATIONS OF PARAMETERS IN TABLES 14 AND 16

tion/dissolution of organismal hard parts are adjusted for, and this quantity reflects gains and losses of CO₂ by gas exchange with the overlying atmosphere or transfers of carbon involving organismal soft tissue.

- 4). $\text{sapDIC} = \text{saDIC} - (\text{REDFIELD} * \text{sPO}_4)$, where REDFIELD ratio is taken as 106.

This quantity represents an adjustment for carbon transfers involving organismal soft tissue and its remains (where the carbon to phosphate ratio is taken to be 1/106 according to Richards, 1965, in: Riley and Skirrow, eds., Chemical Oceanography, vol. I, pp. 611-645) as well as evaporation/precipitation and incorporation/dissolution of carbonate in organismal hard parts; thus, sapDIC reflects, roughly, variation in carbon due to gas exchange with the overlying atmosphere ('sapDIC-sDIC' expresses extent of gas exchange).

- 5). $\text{O}_2 \text{ SOL} = \text{oxygen solubility} = e^{(R1+(SAL*S1))}$, where:

$$R1 = A1 + (A2 * 100. / \text{TEMPK}) + (A3 * \text{LN}(\text{TEMPK} / 100.)) + (A4 * \text{TEMPK} / 100.)$$

$$S1 = B1 + (B2 * \text{TEMPK} / 100.) + (B3 * ((\text{TEMPK} / 100.)^2)), \text{ where:}$$

$$A1 = -173.9894$$

$$A2 = 255.5907$$

$$A3 = 146.4812$$

$$A4 = -22.204$$

$$B1 = -0.037362$$

$$B2 = 0.016504$$

$$B3 = -0.0020564$$

NOTE: * DENOTES MULTIPLICATION; LN = NATURAL LOGARITHM

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 15. (CONT.) EXPLANATION OF CALCULATIONS OF PARAMETERS IN TABLES 14 AND 16

TEMPK = TEMPC + 273.16, where:

TEMPK = temperature, Kelvin scale

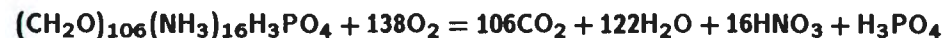
TEMPC = temperature, centigrade scale

6). AOU = apparent oxygen utilization = (O₂ SOL) - (MEASURED O₂ CONCENTRATION)

The concept of AOU was introduced by Redfield (1942); assumes that oxygen concentration in a water mass which is isolated from the surface will be changed only by biological activity which, in deep water, will be limited to oxygen consumption involved in remineralization of organic matter. Assuming that a water parcel was originally in oxygen equilibrium with the atmosphere, any anomaly, i.e., AOU, between the calculated oxygen solubility and the measured oxygen concentration can be ascribed to photosynthesis or to biological oxidation of organic matter.

7). pfPO₄ = preformed phosphate = sPO₄ - ((AOU/138.) * (35./SAL))

This entity is the quantity of phosphate assumed to have been present before any remineralization of organismal soft tissue took place. This quantity is based on the remineralization equation of Richards (1965), where:



NOTE: * DENOTES MULTIPLICATION; LN = NATURAL LOGARITHM

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 16. SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	ssDIC uM/kg	sepDIC uM/kg	O2 uM/kg	AOU uM/kg	pfP04 uM/kg	C13/C12
1	0	3	32N, 51W	2612	801023	34.965	3.155			2170.47				259	63		+0.96
2	0	3	32N, 51W	2750	801023	34.955	3.039			2172.17				259	64		+1.03
3	0	3	32N, 51W	3209	801023	34.929	2.714			2176.49				263	63		+1.00
4	0	3	32N, 51W	3667	801023	34.900	2.429			2177.69				264	64		+1.04
5	0	3	32N, 51W	3675	801023	34.900	2.424			2177.61							+0.98
6	0	3	32N, 51W	4125	801023	34.893	2.272			2183.02				264	66		+1.00
7	0	3	32N, 51W	4677	801023	34.869	2.140			2198.46				256	75		
8	0	4	36N, 47W	1	801026	36.250	22.422	0.04	0.1	1951.39	2296.14	1953.32	1949.23	218	-4	0.07	
9	0	4	36N, 47W	3854	801026	34.901	2.278	1.27	19.0	2175.89	2349.82	2150.99	2015.98	269	61	0.83	
10	0	13	39N, 44W	3	801031	36.310	21.465	0.01	0.2	1957.05	2289.52	1982.29	1961.27	221	-4	0.03	
11	0	13	39N, 44W	746	801031	35.367	9.471	1.18	19.6	2144.82	2322.64	2133.30	2008.47	177	100	0.46	
12	0	13	39N, 44W	2239	801031	34.971	3.658	1.13	17.9	2156.46	2336.97	2137.97	2018.09	268	50	0.77	
13	0	13	39N, 44W	4843	801031	34.903	2.285	1.20	18.2	2175.08	2344.80	2152.68	2025.13	272	58	0.78	
14	0	23	41N, 54W	2	801106	34.926	17.552	0.05	0.0	2007.21	2314.94	1999.74	1994.43	236	0	0.05	
15	0	23	41N, 54W	3719	801106	34.915	2.433	1.16	17.8	2168.32	2349.67	2143.48	2020.22	272	56	0.75	
16	1	1	40N, 70W	10	810402	35.199	11.277	0.60	8.4	2083.01#	2347.65	2059.18#	1995.94#	263	4	0.57	+1.18
17	1	3	38N, 69W	12	810403	35.723	13.667	0.59	8.7	2058.66	2336.24	2040.54	1978.23	250	3	0.57	+1.16

NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

DEPTH:
p = SURFACE PUMP SAMPLE

FLAGS FOR ENTITIES DERIVED FROM DIC, SAL, OR C13 (FLAGS FROM TABLES 8,12):

- * = REJECTED PEREMPTORILY FOR LONG STORAGE
- # = REJECTED FOR CAUSE
- ## = REJECTED FOR STATISTICS
- o = SALINITY MEASURED AFTER DIC EXTRACTION

THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL ‰	TEMP (C)	sP04 $\mu\text{M/kg}$	sN03 $\mu\text{M/kg}$	sDIC $\mu\text{M/kg}$	POT sALK $\mu\text{Eq/kg}$	saDIC $\mu\text{M/kg}$	sapDIC $\mu\text{M/kg}$	O2 $\mu\text{M/kg}$	AOU $\mu\text{M/kg}$	pfP04 $\mu\text{M/kg}$	C13/C12
18	1	5	36N, 68W	10	810405	36.441	21.038	0.04	0.1	1946.03	2298.51	1946.78	1942.70	225	-6	0.09	+1.68
19	1	6	36N, 67W	11	810405	36.385	21.784	0.02	0.0	1944.28	2300.01	1944.28	1942.24	196	20	-0.12	+1.68
20	1	7	32N, 68W	12	810407	36.566	18.389	0.03	0.6	1968.22				240	-10	0.10	+1.50
21	1	8	31N, 72W	12	810408	36.572	18.595	0.05	0.0	1963.00	2293.00	1966.47	1961.40	242	-13	0.14	+1.55
22	1	11	31N, 74W	7	810410	36.622	19.114	0.03	0.0	1959.40	2301.38	1958.71	1955.67	238	-12	0.11	+1.52
23	1	13	30N, 77W	9	810411	36.335	23.140	0.03	0.0	1938.27	2296.44	1940.05	1936.99	217	-6	0.07	+1.67
24	2	15	26N, 76W	11	810417	36.782	22.861	0.02	0.0	1932.96	2284.99	1940.47	1938.45	226	-14	0.12	+1.66
25	2	16	23N, 73W	13	810419	36.562	24.626	0.01	0.0	1926.31	2287.90	1932.36	1931.34	212	-6	0.05	+1.68
26	2	20	26N, 70W	13	810421	36.807	22.860	0.03	0.0	1935.69	2291.71	1939.84	1936.81	226	-9	0.09	+1.66
27	2	22	26N, 66W	13	810423	36.686	23.091	0.02	0.0	1930.50	2298.31	1931.34	1929.32	216	-5	0.05	+1.62
28	2	24	23N, 64W	12	810424	36.645	24.026	0.01	0.0	1928.82	2296.09	1930.77	1929.76	208	0	0.01	+1.62
29	2	26	21N, 62W	11	810426	36.518	25.697	0.01	0.0	1916.91	2301.20	1916.31	1915.29	211	-9	0.07	+1.83
30	2	28	18N, 61W	12	810427	35.792	26.680	0.02	0.0	1928.20	2296.06	1930.17	1928.09	205	-5	0.06	+1.76
31	2	29	17N, 60W	11	810428	35.716	27.120	0.03	0.0	1934.89	2297.04	1936.37	1933.25	203	-5	0.06	+1.90
32	2	32	15N, 54W	4p	810430	34.703	26.997	0.01	0.1	1935.37	2306.68	1932.03	1930.96	206	-6	0.05	+1.77
33	2	32	15N, 54W	11	810430	34.703	26.997	0.01	0.1	1933.99	2306.68	1930.65	1929.58	206	-6	0.05	+1.82
34	2	32	15N, 54W	99	810430	37.163	24.732	0.02	0.2	1945.55	2290.66	1950.23	1948.23				+1.79
35	2	32	15N, 54W	152	810430	36.900	20.988	0.19	4.1	2010.38	2302.51	2009.13	1989.02				+1.27
36	2	32	15N, 54W	253	810430	36.049	15.411	0.86	15.1	2092.84							+0.78

NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

DEPTH:
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 16 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sP04 uM/kg	sNO3 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 uM/kg	AOU uM/kg	pfP04 uM/kg	C13/C12
37	2	32	16N, 54W	352	810430	35.584	12.521	1.36	23.0	2152.79	2321.37	2142.10	1998.14				+0.58
38	2	32	16N, 54W	749	810430	34.747	6.393	2.17	33.7	2236.05	2360.71	2205.70	1976.14				+0.60
39	2	32	16N, 54W	1097	810430	34.860	5.234	1.93	29.1	2215.89	2356.35	2187.72	1983.38	163	144	0.88	+0.80
40	2	32	16N, 54W	1982	810430	34.982	3.561	1.25	19.1	2161.60	2341.55	2140.82	2008.26	260	69	0.82	+0.70 1
41	2	32	16N, 54W	2970	810430	34.931	2.707	1.35	20.1	2179.70	2361.10	2149.14	2005.76	257	69	0.85	+1.02
42	2	32	16N, 54W	3993	810430	34.902	2.342	1.29	19.4	2178.73	2361.20	2148.13	2011.01	265	64	0.83	+0.98
43	2	34	18N, 54W	4p	810502	35.343	26.398	0.01	0.0	1927.19	2305.42	1924.49	1923.44	204	-3	0.03	+1.90
44	2	34	18N, 54W	8	810502	35.343	26.398	0.01	0.0	1927.98	2305.42	1925.27	1924.22	204	-3	0.03	+1.86
45	2	34	18N, 54W	71	810502	37.127	25.101	0.01	0.0	1918.78	2298.45	1918.56	1917.56	214	-11	0.08	+1.96
46	2	34	18N, 54W	146	810502	37.082	21.828	0.03	0.9	1976.34				188	27	-0.16	+1.45
47	2	34	18N, 54W	247	810502	36.385	17.272	0.44	8.2	2037.42	2299.95	2037.44	1990.54	168	67	-0.02	+1.09
48	2	34	18N, 54W	346	810502	36.014	14.954	0.79	13.7	2084.17	2308.04	2080.15	1996.70	150	96	0.11	+0.83
49	2	34	18N, 54W	667	810502	34.988	7.951	1.87	29.7	2207.40	2347.37	2183.71	1985.42	124	164	0.68	+0.64
50	2	34	18N, 54W	962	810502	34.812	5.465	2.01	30.6	2224.20	2359.07	2194.66	1981.52	162	143	0.97	+0.68
51	2	34	18N, 54W	1975	810502	34.981	3.566	1.28	19.5	2166.02	2345.05	2144.09	2008.34	255	64	0.82	+0.92
52	2	34	18N, 54W	2951	810502	34.929	2.720	1.34	20.1	2182.57	2360.23	2152.45	2010.12	257	69	0.84	+1.00
53	2	34	18N, 54W	3928	810502	34.884	2.234	1.43	21.4	2199.74	2371.59	2163.95	2011.06	255	75	0.89	+0.90

NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 16 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 uM/kg	AOU uM/kg	pfP04 uM/kg	C13/C12
54	2	36	21N, 54W	4p	810503	36.599	25.447	0.01	0.1	1916.13	2295.25	1918.51	1917.49	207	-4	0.04	+1.92
55	2	36	21N, 54W	10	810503	36.599	25.447	0.01	0.1	1916.33	2295.25	1918.71	1917.69	207	-4	0.04	+1.88
56	2	36	21N, 54W	70	810503	36.827	24.162	0.00	0.1	1921.84	2291.48	1926.10	1926.10	214	-7	0.05	+1.74
57	2	36	21N, 54W	159	810503	36.754	19.993	0.04	1.2	1986.18	2295.31	1988.53	1984.49	191	32	-0.18	+1.87
58	2	36	21N, 54W	239	810503	36.529	18.109	0.18	4.1	2007.39	2293.31	2010.73	1991.44	191	40	-0.09	+1.26
59	2	36	21N, 54W	385	810503	36.200	16.007	0.46	8.4	2039.54	2300.31	2039.39	1990.19	187	54	0.09	+1.08
60	2	36	21N, 54W	676	810503	35.223	9.168	1.55	25.1	2176.36	2336.97	2157.88	1993.57	138	141	0.53	+0.74
61	2	36	21N, 54W	994	810503	34.919	5.734	1.79	27.3	2204.88	2351.43	2179.17	1988.99	168	135	0.81	+0.70
62	2	36	21N, 54W	1973	810503	34.990	3.549	1.31	19.7	2169.19	2346.68	2145.85	2006.95	252	67	0.82	+1.01
63	2	36	21N, 54W	2925	810503	34.932	2.758	1.35	20.1	2179.36	2358.03	2150.35	2006.97	257	69	0.85	+1.00
64	2	36	21N, 54W	3899	810503	34.897	2.312	1.34	19.9	2181.39	2363.09	2149.84	2007.38	263	66	0.86	+1.00
65	2	38	24N, 54W	4p	810505	37.203	24.585	0.01	0.0	1923.18	2290.82	1927.77	1926.77	208	-3	0.03	+1.75
66	2	38	24N, 54W	11	810505	37.203	24.585	0.01	0.0	1922.14	2290.82	1926.74	1926.74	208	-3	0.03	+1.83
67	2	38	24N, 54W	48	810505	37.203	24.155	0.01	0.0	1921.28	2297.40	1922.58	1921.58	212	-6	0.05	+1.86
68	2	38	24N, 54W	106	810505	37.304	23.263	0.01	0.0	1931.10	2290.25	1935.98	1934.98	210	-1	0.01	+1.77
69	2	38	24N, 54W	273	810505	36.506	18.041	0.19	4.1	2001.34	2293.80	2004.43	1984.11	195	36	-0.06	+1.23
70	2	38	24N, 54W	355	810505	36.368	17.000	0.31	6.0	2016.51	2293.86	2019.58	1986.94	195	41	0.02	+1.23

NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

DEPTH:
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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 16 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sPO4 uM/kg	sNO3 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 uM/kg	ADU uM/kg	pfPO4 uM/kg	C13/C12
71	2	38	24N, 54W	693	810505	35.464	10.833	1.23	20.4	2141.28	2325.13	2128.72	1997.95	150	119	0.38	+0.83
72	2	38	24N, 54W	992	810505	35.025	8.801	1.72	26.7	2198.09	2351.74	2170.22	1988.03	158	137	0.72	+0.72
73	2	38	24N, 54W	1958	810505	35.013	3.746	1.30	19.6	2189.98	2353.03	2143.47	2005.72	248	70	0.80	+1.04
74	2	38	24N, 54W	2841	810505	34.937	2.820	1.37	20.5	2183.91	2365.13	2151.35	2005.87	252	73	0.84	+0.98
75	2	38	24N, 54W	3747	810505	34.893	2.298	1.42	21.1	2191.40	2374.68	2154.06	2003.08	256	74	0.89	+0.97
76	2	39	25N, 56W	11	810506	36.888	23.816	0.02	0.1	1928.28	2288.66	1933.95	1931.94				+1.77
77	2	40	28N, 59W	7	810507	36.654	23.234	0.01	0.0	1945.99	2288.85	1951.57	1950.55	221	-11	0.08	+1.66
78	2	41	30N, 61W	13	810509	36.632	21.352	0.00	0.0	1956.78	2288.30	1962.63	1962.63	226	-9	0.06	+1.72
79	3	43	32N, 51W	10	810518	36.453	21.388	0.04	0.0	1988.18*	2293.81	1989.27*	1985.20*	226	-8	0.10	+1.42*
80	4	124	53N, 37W	14	810706	34.716	9.305	0.41	5.2	2118.31#	2313.38	2109.62#	2065.81#	298	-18	0.55	+1.26#
81	4	125	55N, 35W	13	810707	34.692	10.056	0.31	4.3	2146.25*	2310.95	2140.77*	2107.62*	294	-19	0.45	+0.74*
82	4	126	57N, 32W	14	810708	34.891	10.217	0.41	4.9	2097.36*	2307.50	2093.61*	2050.02*	287	-13	0.51	+1.43*
83	4	127	59N, 30W	10	810708	34.986	9.580	0.45	5.5	2118.81*	2318.88	2109.37*	2061.65*	297	-20	0.59	+1.49*
84	5	141	59N, 12W	14	810723	35.314	12.293	0.29	4.2	2061.20*	2315.71	2053.34*	2022.87*	269	-8	0.34	+1.52*
85	5	143	65N, 0W	9	810725	34.917	8.451	0.14	0.5	2071.60	2322.15	2060.53	2045.65	302	-17	0.27	+1.96#
86	5	144	68N, 3W	12	810726	35.016	8.389	0.12	0.5	2064.08				298	-13	0.22	+1.92
87	5	145	70N, 2E	14	810727	35.084	8.120	0.21	1.0	2057.32				306	-20	0.35	+1.98

NOTE: SEE TABLE 16 FOR EXPLANATION OF CALCULATED PARAMETERS

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 16 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sP04 uM/kg	sNO3 uM/kg	sDIC uM/kg	POT sALK uEq/kg	ssDIC uM/kg	sapDIC uM/kg	O2 uM/kg	AOU uM/kg	pfP04 uM/kg	C13/C12
88	5	148	72N, 2E	10	810729	34.999	6.825	0.23	1.0	2088.32	2314.30	2059.17	2034.79	316	-21	0.38	+1.98
89	5	148	75N, 1W	9	810730	34.410	3.492	0.12	0.4	2080.67	2325.73	2067.81	2054.87	341	-20	0.27	+1.73#
90	5	148	75N, 1W	13	810730	34.385	3.774	0.13	0.4	2083.10	2326.41	2069.90	2055.87	337	-18	0.27	+2.20
91	5	148	75N, 1W	77	810730	34.864	-0.700	0.83	12.3	2157.80	2322.15	2146.73	2058.40	354	2	0.82	+1.08
92	5	148	75N, 1W	247	810730	34.871	-1.197	0.88	13.4	2161.74	2323.85	2149.82	2056.19	333	28	0.68	+1.18
93	5	148	75N, 1W	444	810730	34.887	-1.169	0.93	14.4	2163.01	2320.82	2152.00	2053.70	323	38	0.66	+1.13
94	5	148	75N, 1W	740	810730	34.886	-1.207	0.93	14.2	2163.34	2323.70	2151.49	2052.58	321	40	0.64	+1.06
95	5	148	75N, 1W	937	810730	34.888	-1.208	0.94	14.3	2167.68#	2320.67	2157.34#	2057.38#	319	42	0.64	+1.04
96	5	148	75N, 1W	1879	810730	34.892	-1.170	0.95	14.5	2162.58				320	41	0.66	+1.10
97	5	148	75N, 1W	2482	810730	34.912	-1.155	0.94	14.5	2161.30				321	40	0.65	+1.14
98	5	148	75N, 1W	2978	810730	34.890	-1.122	0.95	14.5	2161.91	2320.74	2151.54	2050.53	321	39	0.67	+1.13
99	5	149	77N, 1E	11	810731	33.415	1.305	0.14	0.0	2084.63				367	-25	0.33	+1.98
100	5	150	71N, 7W	5	810805	31.413	3.268	0.09	0.0	2111.03#	2333.20	2095.03#	2085.58#	348	-18	0.23	
101	5	159	69N, 11W	11	810806	34.677	5.116	0.07	0.0	2086.64				322	-14	0.17	+2.24
102	5	159	69N, 11W	78	810806	34.784	-0.580	0.76	9.3	2180.57	2323.30	2148.92	2067.86	350	6	0.72	+1.13
103	5	159	69N, 11W	201	810806	34.833	-0.472	0.85	11.9	2159.61	2316.70	2151.26	2060.73	339	15	0.74	+1.09
104	5	159	69N, 11W	301	810806	34.863	-0.407	0.88	12.9	2158.61	2319.76	2148.73	2055.08	336	18	0.75	+1.10

NOTE: SEE TABLE 16 FOR EXPLANATION OF CALCULATED PARAMETERS

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 16 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sP04 uM/kg	sNO3 uM/kg	sDIC uM/kg	POT sALK uEq/kg	ssDIC uM/kg	sspDIC uM/kg	O2 uM/kg	AOU uM/kg	pfP04 uM/kg	C13/C12
105	5	159	69N, 11W	399	810806	34.896	-0.138			2163.71							+0.99
106	5	159	69N, 11W	500	810806	34.903	-0.259	0.99	14.3	2163.64	2321.72	2152.77	2047.54	300	52	0.61	+1.00
107	5	159	69N, 11W	600	810806	34.909	-0.415	1.00	14.4	2165.53	2324.44	2153.31	2047.03	301	53	0.62	+1.02
108	5	159	69N, 11W	797	810806	34.911	-0.610			2163.28							+1.07
109	5	159	69N, 11W	949	810806	34.911	-0.711	1.02	15.1	2163.98	2326.03	2150.97	2042.57	301	55	0.62	+1.04
110	5	159	69N, 11W	2140	810806	34.909	-0.885	1.07	15.5	2169.88	2325.62	2157.07	2043.36	299	59	0.64	+1.02
111	5	167	64N, 33W	13	810813	34.947	10.049	0.29	2.1	2075.04*	2327.92	2061.08*	2030.30*	286	-11	0.37	+1.73
112	5	167	64N, 33W	70	810813	35.025	6.298	0.96	14.9	2133.20				283	16	0.85	+1.08
113	5	167	64N, 33W	104	810813	35.054	6.086	0.99	15.8	2136.11	2332.19	2120.02	2015.24	281	19	0.85	+1.04
114	5	167	64N, 33W	203	810813	35.023	5.668	1.01	16.2	2140.29	2334.68	2122.96	2015.97	281	22	0.85	+0.99
115	5	167	64N, 33W	296	810813	34.992	5.207	1.03	16.3	2144.86	2331.86	2128.93	2019.72	285	22	0.87	+0.96
116	5	167	64N, 33W	396	810813	34.962	4.785	1.05	16.7	2148.43	2332.28	2132.29	2020.87	284	26	0.86	+0.97
117	5	167	64N, 33W	837	810813	34.915	3.954	1.07	17.0	2157.07	2334.74	2139.70	2026.00	284	32	0.84	+0.92
118	5	167	64N, 33W	1233	810813	34.923	3.713	1.07	16.9	2155.72	2330.10	2140.67	2027.00	285	33	0.83	+0.94
119	5	167	64N, 33W	1966	810813	34.942	3.273	1.06	16.7	2155.39	2335.63	2137.58	2025.03	275	47	0.72	+1.02
120	5	167	64N, 33W	2317	810813	34.878	0.421	0.90	13.8	2156.46	2330.82	2141.04	2045.31	305	41	0.61	+1.05
121	6	177	59N, 38W	4p	810826	34.574	8.253	0.53	5.5	2101.40	2341.42	2080.09	2024.89	292	-5	0.57	+1.74

NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 uM/kg	AOU uM/kg	pfP04 uM/kg	C13/C12
122	6	177	59N, 38W	103	810826	34.722	3.389	1.05	14.6	2154.38	2338.11	2135.33	2024.20	319	2	1.03	+1.12
123	6	177	59N, 38W	192	810826	34.766	3.074	1.09	15.9	2158.61	2334.49	2139.38	2024.11	309	15	0.98	+1.05
124	6	177	59N, 38W	253	810826	34.778	3.073	1.08	15.9	2158.90	2337.70	2138.05	2023.91	307	17	0.96	+1.12
125	6	177	59N, 38W	504	810826	34.823	3.297	1.08	16.0	2153.97	2335.78	2136.08	2022.09	305	17	0.95	+1.08
126	6	177	59N, 38W	604	810826	34.825	3.288	1.07	15.9	2154.26				305	17	0.94	+1.08
127	6	177	59N, 38W	830	810826	34.832	3.313	1.08	15.9	2153.32	2334.07	2136.28	2022.31	302	19	0.93	+1.08
128	6	177	59N, 38W	1550	810826	34.889	3.392	1.10	16.5	2154.23	2337.91	2135.27	2018.30	285	36	0.84	+1.05
129	6	177	59N, 38W	2587	810826	34.953	3.006	1.10	16.0	2156.70	2338.24	2137.58	2020.82	278	46	0.77	+1.06
130	6	177	59N, 38W	3159	810826	34.885	1.431	0.94	13.6	2153.72				303	34	0.70	+1.08
131	6	206	54N, 40W	4p	810908	34.457	10.914	0.41	3.7	2083.86	2324.06	2071.83	2028.76	276	-6	0.45	+1.92
132	6	206	54N, 40W	13	810908	34.457	10.914	0.41	3.7	2086.10	2324.06	2074.08	2031.01	276	-6	0.45	+1.84
133	6	206	54N, 40W	54	810908	34.663	6.446	0.94	13.8	2149.16	2333.09	2132.62	2033.08	266	32	0.70	+1.03
134	6	206	54N, 40W	78	810908	34.697	5.567	1.07	15.7	2156.64	2334.87	2139.20	2025.88	265	40	0.78	+1.04
135	6	206	54N, 40W	164	810908	34.781	4.917	1.09	16.1	2154.70	2334.69	2137.38	2022.16	280	29	0.87	+0.96
136	6	206	54N, 40W	379	810908	34.831	4.099	1.16	17.5	2163.39	2333.82	2146.48	2023.99	273	42	0.85	+0.88
137	6	206	54N, 40W	803	810908	34.856	3.551	1.12	17.3	2162.06	2331.91	2146.10	2026.89	282	38	0.85	+0.89
138	6	206	54N, 40W	1001	810908	34.882	3.584	1.13	17.4	2159.95	2332.29	2143.81	2023.62	280	39	0.85	+0.95

NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 16 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sP04 uM/kg	sNO3 uM/kg	sDIC uM/kg	POT sALK uEq/kg	ssDIC uM/kg	sspDIC uM/kg	O2 uM/kg	ADU uM/kg	pfP04 uM/kg	C13/C12
139	6	206	54N, 40W	1597	810908	34.915	3.464	1.12	17.0	2157.09	2330.78	2141.70	2022.69	279	41	0.82	+0.98
140	6	206	54N, 40W	2052	810908	34.948	3.331	1.12	16.8	2155.65	2333.39	2138.96	2020.06	275	46	0.79	+1.02
141	6	206	54N, 40W	3097	810908	34.958	2.888	1.12	16.5	2163.30#	2347.44	2139.58#	2020.71#	274	51	0.75	+1.00
142	6	207	53N, 38W	7	810909	34.469	12.265	0.21	0.7	2070.22	2324.17	2058.13	2035.53	271	-8	0.27	+1.88
143	6	209	50N, 38W	10	810910	34.683	15.200	0.11	0.0	2047.08	2323.15	2035.51	2023.74	251	-4	0.14	+1.86
144	6	210	49N, 38W	13	810910	34.637	15.069	0.11	0.0	2049.98	2325.23	2037.37	2025.59	254	-6	0.16	+1.81
145	6	211	48N, 38W	10	810911	35.217	16.428	0.07	0.0	2019.50	2324.06	2007.17	1999.80	246	-6	0.11	+1.80
146	6	214	51N, 43W	4p	810913	35.351	16.173	0.07	0.0	2012.36	2317.93	2003.45	1996.10	245	-4	0.10	+1.74
147	6	214	51N, 43W	157	810913	35.800	13.446	0.52	8.0	2052.64	2312.86	2046.21	1991.29	234	20	0.38	+1.08
148	6	214	51N, 43W	304	810913	35.826	13.338	0.49	7.8	2050.39	2307.05	2046.86	1995.69	241	14	0.39	+1.15
149	6	214	51N, 43W	706	810913	34.951	6.723	1.35	20.9	2172.83				197	99	0.63	+0.85
150	6	214	51N, 43W	904	810913	34.887	4.528	1.19	18.3	2164.81	2337.94	2145.84	2019.29	253	59	0.77	+0.92
151	6	214	51N, 43W	1304	810913	34.926	4.051	1.16	17.7	2157.96	2336.80	2139.56	2016.34	270	45	0.83	
152	6	214	51N, 43W	2244	810913	34.929	3.464	1.13	17.2	2158.61	2335.07	2139.08	2019.06	276	44	0.81	+1.02
153	6	214	51N, 43W	4236	810913	34.884	1.909	1.01	14.9	2158.19	2331.64	2142.37	2034.96	291	42	0.71	+0.99
154	7	224	47N, 43W	8	810925	32.860	13.449	0.17	0.1	2109.97	2358.46	2000.74	2002.67	268	-9	0.24	+2.30
155	7	225	47N, 42W	15	810926	33.278	16.830	0.12	0.2	2079.11	2349.93	2054.15	2041.89	249	-7	0.17	+2.22
156	7	226	47N, 40W	11	810926	34.657	18.775	0.03	0.2	2018.09	2318.96	2008.61	2005.40	236	-5	0.07	+1.91

NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

DEPTH:

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THE CARBON DIOXIDE PROJECT OF THE SCRIPPS INSTITUTION OF OCEANOGRAPHY
TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 16 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	saDIC uM/kg	sapDIC uM/kg	O2 uM/kg	AOU uM/kg	pfP04 uM/kg	C13/C12
157	7	227	45N, 42W	27	810928	35.720	18.911	0.04	0.6	1988.04	2301.30	1987.39	1983.24	229	0	0.04	+1.70
158	7	228	42N, 42W	84	810929	36.471		0.17	3.5	1997.80	2292.43	2001.67	1983.36	202			+1.08
159	7	228	42N, 42W	152	810929	36.428s	17.393	0.21s	4.2s	2000.40s	2295.95s	2002.43s	1980.02s	211	23s	0.05s	+1.20
160	7	228	42N, 42W	185	810929	36.415s		0.25s	4.7s	2003.06s	2296.32s	2004.90s	1978.41s	211			+1.17
161	7	228	42N, 42W	251	810929	36.355	16.787	0.29	5.4	2009.20	2294.09	2012.15	1981.54	212	25	0.11	+1.17
162	7	228	42N, 42W	302	810929	36.217	16.103	0.39	7.0	2026.41	2297.71	2027.56	1986.58	205	35	0.14	+1.14
163	7	228	42N, 42W	379	810929	36.019		0.46	8.0	2041.08	2305.55	2038.30	1989.89	215			+1.11
164	7	228	42N, 42W	499	810929	35.770	13.433	0.60	11.4	2072.82	2309.48	2068.08	1996.51	204	50	0.32	+0.99
165	7	228	42N, 42W	679	810929	35.425		1.04	17.3	2125.75	2320.37	2115.56	2005.60	186			+0.82
166	7	228	42N, 42W	975	810929	35.040	6.077	1.43	22.4	2168.05	2336.16	2149.97	1998.57	213	87	0.80	+0.86
167	7	228	42N, 42W	2046	810929	34.941	3.696	1.13	17.4	2155.15	2330.46	2139.92	2019.94	274	44	0.81	+0.97
168	7	228	42N, 42W	3046	810929	34.939	3.049	1.13	17.1	2157.60	2334.30	2140.45	2020.46	274	49	0.77	+1.02
169	7	228	42N, 42W	4025	810929	34.911	2.393	1.17	18.2	2168.38	2343.33	2146.72	2022.38	274	55	0.78	+1.02
170	7	229	39N, 44W	11	811001	36.256	22.526	0.02	0.0	1953.75	2291.70	1957.86	1955.81	213	0	0.02	+1.67
171	7	229	39N, 44W	55	811001	36.283	21.693	0.02	0.2	1961.61				215	2	0.01	+1.64
172	7	229	39N, 44W	152	811001	36.501	17.856	0.18	3.8	1993.19				208	24	0.02	+1.24
173	7	229	39N, 44W	247	811001	36.415	17.324	0.25	4.7	2003.03	2296.32	2004.87	1978.38	208	26	0.07	+1.24

NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

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TRANSIENT TRACERS IN THE OCEAN, NORTH ATLANTIC STUDY, 1980-1981

TABLE 10 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL o/oo	TEMP (C)	sP04 uM/kg	sN03 uM/kg	sDIC uM/kg	POT sALK uEq/kg	ssDIC uM/kg	sspDIC uM/kg	O2 uM/kg	AOU uM/kg	pfP04 uM/kg	C13/C12
174	7	229	39N, 44W	398	811001	36.166	15.882	0.46	8.2	2035.43	2301.31	2034.77	1985.53	197	44	0.15	+1.10
175	7	229	39N, 44W	495	811001	35.923	14.430	0.60	10.3	2059.29	2305.42	2056.58	1992.55	198	51	0.24	+0.98
176	7	229	39N, 44W	602	811001	35.726	13.226	0.70	11.9	2075.93				204	51	0.33	+1.01
177	7	229	39N, 44W	693	811001	35.530	11.775	0.98	16.0	2111.24	2317.10	2102.69	1999.31	183	81	0.40	+0.88
178	7	229	39N, 44W	797	811001	35.236	9.461	1.35	22.0	2158.59	2330.74	2143.22	2000.03	160	118	0.50	+0.77
179	7	229	39N, 44W	992	811001	35.051	6.432	1.30	20.0	2168.12	2337.89	2149.17	2011.57	206	92	0.63	+0.81
180	7	229	39N, 44W	2073	811001	34.976	3.857	1.15	17.4	2155.93	2331.15	2140.35	2018.37	208	49	0.60	+0.92
181	7	229	39N, 44W	3064	811001	34.942	2.936	1.17	17.4	2161.85	2338.45	2142.63	2018.40	270	54	0.78	+1.00
182	7	229	39N, 44W	4058	811001	34.904	2.325	1.23	19.0	2172.88	2350.58	2147.59	2018.85	271	58	0.81	+0.95
183	7	231	36N, 47W	15	811003	36.322	23.204	0.01	0.2	1950.62				220	-9	0.07	+1.77
184	7	231	36N, 47W	75	811003	36.307	17.544	0.01	0.2	1990.98	2298.38	1991.79	1990.77	235	-1	0.02	+1.46
185	7	231	36N, 47W	150	811003	36.300	16.500	0.28	5.4	2013.54	2308.16	2009.46	1979.82	212	26	0.10	+1.22
186	7	231	36N, 47W	247	811003	36.093	15.387	0.42	7.9	2035.79	2301.65	2034.96	1990.76	207	37	0.16	+1.14
187	7	231	36N, 47W	397	811003	35.817	13.705	0.67	11.3	2071.82	2310.36	2006.64	1995.17	197	56	0.28	+0.96
188	7	231	36N, 47W	473	811003	35.647	12.485	0.83	14.1	2097.21	2322.32	2006.05	1997.59	190	69	0.34	+0.90
189	7	231	36N, 47W	672	811003	35.220	9.012			2163.23				162	118		+0.70
190	7	231	36N, 47W	695	811003	35.209	8.803	1.36	21.9	2165.30	2349.34	2140.63	1996.27	165	117	0.52	+0.94

NOTE: SEE TABLE 15 FOR EXPLANATION OF CALCULATED PARAMETERS

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TABLE 16 (CONT.). SELECTED MEASURED AND CALCULATED PARAMETERS FOR DIC WATER SAMPLES

REC NO.	LEG	STN	APPROX. POSITION	DEPTH (M)	SAMPLE DATE	SAL ‰	TEMP (C)	pPO4 $\mu\text{M/kg}$	pNO3 $\mu\text{M/kg}$	pDIC $\mu\text{M/kg}$	POT pALK $\mu\text{Eq/kg}$	pDIC $\mu\text{M/kg}$	pDIC $\mu\text{M/kg}$	O2 $\mu\text{M/kg}$	AOU $\mu\text{M/kg}$	pPO4 $\mu\text{M/kg}$	C13/C12
191	7	231	36N, 47W	922	811003	35.324	7.251	1.23	19.2	2157.79	2341.96	2136.81	2006.58	203	89	0.59	+0.96‡
192	7	231	36N, 47W	996	811003	35.307	6.939	1.20	18.6	2155.94	2333.54	2139.17	2012.02	210	84	0.60	+0.84
193	7	231	36N, 47W	2093	811003	34.974	3.596	1.16	17.8	2158.29	2338.70	2138.94	2015.89	266	53	0.78	+1.07
194	7	231	36N, 47W	3074	811003	34.930	2.736	1.21	18.3	2168.66	2351.21	2143.05	2014.53	268	58	0.79	+1.02
195	7	231	36N, 47W	4060	811003	34.896	2.260	1.25	19.0	2179.16	2358.16	2150.08	2017.18	267	63	0.80	+1.00
196	7	233	34N, 50W	6	811004	36.600	23.997	0.01	0.0	1942.89	2289.93	1947.92	1946.91	217	-9	0.07	
197	7	234	32N, 51W	8	811005	36.439	24.161	0.01	0.0	1944.06	2291.78	1948.17	1947.15	215	-8	0.06	+1.87
198	7	234	32N, 51W	98	811005	36.526	19.982	0.01	0.0	1967.33	2287.28	1973.69	1972.68	227	-4	0.04	+1.58
199	7	234	32N, 51W	159	811005	36.455	17.670	0.20	4.2	2001.49				203	30	-0.01	+1.36
200	7	234	32N, 51W	243	811005	36.395	17.174	0.24	4.4	2003.83	2297.29	2005.19	1979.71	211	24	0.07	+1.29
201	7	234	32N, 51W	387	811005	36.155	15.814	0.47	8.2	2038.30	2300.09	2038.25	1987.97	193	49	0.13	+1.28
202	7	234	32N, 51W	452	811005	36.026	15.059	0.56	9.8	2053.69				190	56	0.17	+1.21
203	7	234	32N, 51W	529	811005	35.753	13.280	0.77	12.8	2084.30	2317.04	2075.06	1993.88	187	68	0.29	+1.14
204	7	234	32N, 51W	596	811005	35.597	12.306	0.98	16.3	2110.82	2321.99	2099.82	1995.60	170	91	0.34	+1.07
205	7	234	32N, 51W	750	811005	35.199	8.851	1.41	23.0	2166.78				159	122	0.53	+0.88
206	7	248	43N, 60W	7	811016	32.170	13.663	0.21	0.0	2131.84	2368.72	2097.49	2075.57	267	-8	0.27	+2.12

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