

## TRANSMITTAL AND RECEIPT RECORD

(Please sign and return carbon copy acknowledging receipt)

TO: Alaska Liaison Office, NOAA/NESDIS  
707 A Street  
Anchorage AK 99501

REFER TO

9400070✓

ATTENTION

E/OC13, Mr. Michael L. Crane

THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY

☒ ORDINARY  
MAIL☐ REGISTERED  
MAIL☐ AIR  
MAIL☐ CERTIFIED  
MAIL☐ GOVERNMENT  
TRUCK☐ BY HAND☐ OTHER

Enclosed, for your attention and processing, find documentation and ten (10) high density diskettes containing a total of 372 files of ENDICOTT Environmental monitoring Program oceanographic, meteorological, and fisheries data for the Prudhoe Bay region of Alaska 1985 to 1987. These data were received from Mr. Peter Hummer, senior meteorologist with EBASCO Environmental, Bellevue, Wa.

\*\*  
(copies of the data sets and documentation to be forwarded to NODC for inclusion into the national data base upon completion of processing)



cc: Mr. Peter Hummer, Senior Meteorologist, EBASCO Environmental  
Dr. Anthony R. Picciolo, National Oceanographic Data Center (E/OC13)

TIC

FORWARDED BY (Signature)

Sid Stillwaugh

TITLE

NODC Liaison Officer, Seattle

DATE FORWARDED

2/22/91

RECEIVED BY (Signature)

TIC

TITLE

DATE RECEIVED

5/26/94

**TRANSMITTAL AND RECEIPT RECORD**  
(Please sign and return carbon copy acknowledging receipt)

<b>TO:</b> Alaska Liaison Office, NOAA/NESDIS 707 A Street Anchorage AK 99501		<b>REFER TO</b>  <b>ATTENTION</b> E/OC13, Mr. Michael L. Crane
<b>THE ITEM(S) LISTED BELOW WERE FORWARDED TO YOU BY</b>		
<input checked="" type="checkbox"/> <b>ORDINARY MAIL</b>	<input type="checkbox"/> <b>REGISTERED MAIL</b>	<input type="checkbox"/> <b>AIR MAIL</b>
<input type="checkbox"/> <b>CERTIFIED MAIL</b>	<input type="checkbox"/> <b>GOVERNMENT TRUCK</b>	<input type="checkbox"/> <b>BY HAND</b>
<input type="checkbox"/> <b>OTHER</b>		
<p>Enclosed, for your attention and processing, find documentation and ten (10) high density diskettes containing a total of 372 files of ENDICOTT Environmental monitoring Program oceanographic, meteorological, and fisheries data for the Prudhoe Bay region of Alaska 1985 to 1987. These data were received from Mr. Peter Hummer, senior meteorologist with EBASCO Environmental, Bellevue, Wa.</p> <p><b>**</b> (copies of the data sets and documentation to be forwarded to NODC for inclusion into the national data base upon completion of processing)</p> <p>cc: Mr. Peter Hummer, Senior Meteorologist, EBASCO Environmental Dr. Anthony R. Picciolo, National Oceanographic Data Center (E/OC13)</p>		
<b>FORWARDED BY (Signature)</b> Sid Stillwaugh	<b>TITLE</b> NODC Liaison Officer, Seattle	<b>DATE FORWARDED</b> 2/22/91
<b>RECEIVED BY (Signature)</b>	<b>TITLE</b>	<b>DATE RECEIVED</b>

# EBASCO

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6 February 1991  
EBEL-SAPC-91-016

Mr. Sid Stillwaugh  
Northwest Liaison Office  
NOAA/NESDIS/Bin 15700/Bldg.1  
7600 Sand Point Way NE  
Seattle, Washington 98115

Subject: Endicott Environmental Data

Dear Sid:

The database from the Endicott Environmental Monitoring Program contains oceanographic, meteorological, and fisheries data for the Prudhoe Bay region of Alaska. The enclosed diskettes contain the 1985 through 1987 Endicott data, per your request.

The data have been archived into self-extracting files. Copy the executable files onto a PC hard disk and run each file. The contents of the floppies are summarized as follows:

Program Year	Number of Disks	Number of Archive Files	Number of Files	Total Unarchived Disk Space (Mb)
1985	3	4	<sup>2</sup> 46	16
1986	4	9	109	31
1987	3	11	217	16
TOTAL	10	24	<u>372</u> 744	62

Individual files may be unarchived using the following command:

<archive file name> <target file name>

This command will accept wild cards (\*). For example, to unarchive the FORMAT86.TXT file, type:

ENDMET86 FORMAT86.TXT

The contents of each of the archive files are listed in the first attachment. Format descriptions of each of the files are contained in files called FORMAT85.TXT, FORMAT86.TXT and FORMAT87.TXT, which are included with the data files. A printed copy of the format files is presented in the second attachment.

The Endicott program collected meteorological and oceanographic (CTD, current meter) data, as well as data related to fisheries, river discharge, coastal sediments, and snow geese program elements. Some of the oceanographic data is related to currents flowing through breaches in the Endicott causeway. Many of the data files, including most of the oceanographic data, are presented in NODC formats.

If you have any questions regarding the data, please contact me at 206-451-4636.

Sincerely,

EBASCO ENVIRONMENTAL

A handwritten signature in cursive script that reads "Peter G. Hummer".

Peter G. Hummer  
Senior Meteorologist

PGH117:hjd  
Enclosure

c: G. Augustine  
L. Hachmeister

## Disk 1985-1

Searching ZIP: 1985-1/ENDCT85.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
96200	Implode	14184	86%	11-15-90	09:26	d6e7b635	--w	BATH85.DAT
75756	Implode	7851	90%	11-20-90	15:14	f82f935a	--w	FORMAT85.TXT
790	Implode	444	44%	11-16-90	08:11	d6cca0cb	--w	WEATH85.TXT
301186	Implode	48749	84%	11-16-90	09:29	d9ced04b	--w	ENDMET85.DAT
268148	Implode	79225	71%	11-16-90	09:48	0c735ec9	--w	RESOLI85.DAT
626549	Implode	63867	90%	11-16-90	10:24	7ae72abe	--w	RIVER85.DAT
428488	Implode	87357	80%	11-16-90	15:13	f4453daa	--w	FISH185.DAT
1890262	Implode	292274	85%	11-16-90	09:13	730be730	--w	CTD85.DAT
148924	Implode	24435	84%	11-19-90	11:25	86594688	--w	TG851.DAT
146258	Implode	23641	84%	11-19-90	11:31	25432147	--w	TG852.DAT
2550	Implode	1001	61%	11-19-90	11:31	88c3d932	--w	TSS85.DAT
74152	Implode	13655	82%	11-19-90	11:34	56c23e2b	--w	TURB85.DAT
45927	Implode	10925	77%	11-19-90	11:36	1e868d3b	--w	TURBID85.DAT
4105190		667608	84%					13

## Disk 1985-2

Searching ZIP: 1985-2/ENDCCM85.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
446028	Implode	118637	74%	11-15-90	13:56	6d3b52c1	--w	CM8514.DAT
129580	Implode	34243	74%	11-15-90	14:03	9f5f642e	--w	CM8515.DAT
418748	Implode	109478	74%	11-15-90	14:25	0402a01f	--w	CM8516.DAT
446028	Implode	113673	75%	11-15-90	14:49	556020c4	--w	CM8517.DAT
125116	Implode	34934	73%	11-15-90	09:54	a29c8a99	--w	CM851.DAT
73718	Implode	20101	73%	11-15-90	10:10	1bbd5489	--w	CM8510.DAT
199330	Implode	53676	74%	11-15-90	10:54	68ca9842	--w	CM8511.DAT
53072	Implode	16303	70%	11-15-90	11:06	69b50ded	--w	CM8512.DAT
170500	Implode	50259	71%	11-15-90	11:43	f448c39a	--w	CM8513.DAT
153078	Implode	39461	75%	11-15-90	14:57	de19b794	--w	CM8518.DAT
98270	Implode	27532	72%	11-15-90	15:02	7e286290	--w	CM8519.DAT
142352	Implode	36733	75%	11-15-90	15:10	b62e5657	--w	CM852.DAT
154008	Implode	39075	75%	11-15-90	15:18	a0498185	--w	CM853.DAT
321532	Implode	67544	79%	11-15-90	15:35	584f8ca7	--w	CM854.DAT
118730	Implode	28815	76%	11-15-90	15:41	c7616a3d	--w	CM855.DAT
170066	Implode	44913	74%	11-15-90	15:50	92c17206	--w	CM856.DAT
126108	Implode	32975	74%	11-15-90	15:57	c5f5016c	--w	CM857.DAT
54684	Implode	13981	75%	11-15-90	16:00	07e909f9	--w	CM858.DAT
446276	Implode	122131	73%	11-15-90	16:23	fc33blad	--w	CM859.DAT
3847224		1004464	74%					19

## Disk 1985-3

Searching ZIP: 1985-3/END1120A.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
38065	Implode	8230	79%	11-20-90	08:11	fe94accb	--w	AGE85.DAT
5983040	Implode	570312	91%	11-20-90	12:12	f80d596e	--w	FISH285.DAT
6021105		578542	91%					2

Searching ZIP: 1985-3/END1120B.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
67488	Implode	11877	83%	11-20-90	13:15	c33679ed	--w	BROOD85.DAT
77970	Implode	18343	77%	11-20-90	13:19	35975416	--w	COND85.DAT

11500	Implode	2889	75%	11-20-90	13:20	4e4bc222	--w	DISDAT85.DAT
491286	Implode	49122	91%	11-20-90	13:36	1dd5d1f9	--w	DROP85.DAT
3870	Implode	1241	68%	11-20-90	13:36	ff5f6054	--w	INCBK85.DAT
15932	Implode	4590	72%	11-20-90	13:37	d7ecae9b	--w	LENGTH85.DAT
228665	Implode	26784	89%	11-20-90	13:47	c23a02e2	--w	NEST85.DAT
2044	Implode	795	62%	11-20-90	13:47	72e6bb67	--w	REVTHM85.DAT
40318	Implode	11738	71%	11-20-90	13:50	0985b08c	--w	SALIN85.DAT
260175	Implode	29359	89%	11-20-90	14:01	1f214335	--w	STOM85.DAT
2128	Implode	1045	51%	11-20-90	14:01	0fd2fe3b	--w	UWSALN85.DAT
71558	Implode	21898	70%	11-20-90	14:05	a2c24ce2	--w	WATER85.DAT
1272934		179681	86%					12

## Disk 1986-1

Searching ZIP: 1986-1/ENDMET86.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
240424	Implode	43237	83%	11-28-90	11:31	24177320	-w	RESOL186.HOR
62976	Implode	11110	83%	11-28-90	12:49	1b4cdf24	-w	SEAL186.HOR
1179898	Implode	163969	87%	11-28-90	12:17	b821df41	-w	RESOL186.MET
368016	Implode	51900	86%	11-28-90	12:47	320c32ea	-w	SEAL186.MET
140525	Implode	18917	87%	01-29-91	13:28	2ead7c1b	-w	FORMAT86.TXT
1991839		289133	86%					5

Searching ZIP: 1986-1/SNOGSE86.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
280030	Implode	33202	89%	11-27-90	13:53	ed98d17c	-w	BR86.DAT
2178	Implode	660	70%	11-27-90	16:33	68e84a76	-w	DISTNB86.DAT
53768	Implode	9282	83%	11-27-90	16:33	b68b1473	-w	DISTBR86.DAT
2861554	Implode	179480	94%	11-28-90	11:22	a8bd21db	-w	NEST86.DAT
3197530		222624	94%					4

Searching ZIP: 1986-1/HYDRO86.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
5464383	Implode	537899	91%	11-27-90	16:31	7277b070	-w	CTD86.DAT
5464383		537899	91%					1

## Disk 1986-2

Searching ZIP: 1986-2/FISH86.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
21648	Implode	3010	87%	11-28-90	09:53	affbe847	-w	HABFIX86.LOC
7014299	Implode	701860	90%	08-14-87	14:04	78a5f74b	-w	FYKE86.DAT
411432	Implode	42165	90%	11-28-90	09:08	f4122e6e	-w	DROPHB86.DAT
27634	Implode	3911	86%	11-28-90	09:54	13f7ccf5	-w	HABIT86.DAT
148010	Implode	39615	74%	11-29-90	15:03	619fb7b0	-w	WATER86.DAT
110126	Implode	10107	91%	11-29-90	15:07	c6d6ccc2	-w	WEIGHT86.DAT
138662	Implode	22280	84%	11-28-90	15:44	0f2ecb6b	-w	TAGREC86.DAT
606732	Implode	65450	90%	11-28-90	08:52	8b6b9535	-w	DROP86.DAT
64130	Implode	9097	86%	11-27-90	13:38	34333bf4	-w	AGE86.DAT
80305	Implode	9839	88%	12-06-90	10:14	31eafad3	-w	STOM86.DAT
8622978		907334	90%					10

## Disk 1986-3

Searching ZIP: 1986-3/86OCEAN2.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
82656	Implode	17191	80%	11-26-90	15:45	7c5c694d	-w	ER05N2.E86
436814	Implode	94755	79%	11-26-90	16:05	cd1466a6	-w	ER08N1.E86
117014	Implode	26047	78%	11-26-90	16:10	47136d20	-w	ER08N2.E86
62238	Implode	13710	78%	11-26-90	16:12	53dca234	-w	ER09N1.E86
116932	Implode	24532	80%	11-26-90	16:17	aa701ff2	-w	ER09N2.E86
82492	Implode	17131	80%	11-26-90	16:21	2be67098	-w	ER10N1.E86
9430	Implode	2421	75%	11-26-90	16:21	f2ae24d4	-w	ER11N1.E86

448540	Implode	97693	79%	11-26-90	16:41	d60b6e3b	-w	ER11N2.E86
236980	Implode	52979	78%	11-26-90	16:51	acf66215	-w	ER12N1.E86
317258	Implode	69409	79%	11-27-90	09:03	f420dba0	-w	ER13N1.E86
225746	Implode	42924	81%	11-27-90	09:12	da125f7d	-w	ER21N1.E86
529392	Implode	102456	81%	11-27-90	09:35	176b0f48	-w	ER21N2.E86
436732	Implode	94445	79%	11-27-90	09:54	c50b6012	-w	ES03N1.E86
409672	Implode	82081	80%	11-27-90	10:11	da7320fd	-w	ES04N1.E86
107502	Implode	21751	80%	11-27-90	10:16	80c97fe3	-w	ES04N2.E86
293396	Implode	58585	81%	11-27-90	10:33	a19bde6a	-w	ES05N2.E86
58138	Implode	12264	79%	11-27-90	10:36	60a1758f	-w	ES05N3.E86
107256	Implode	22306	80%	11-27-90	10:21	c50e8806	-w	ES05N1.E86
434846	Implode	92924	79%	11-27-90	10:55	5583c2a3	-w	ES06N1.E86
552434	Implode	66348	88%	11-29-90	14:35	c039a039	-w	TG01.86
622872	Implode	74709	89%	11-29-90	14:56	c2896180	-w	TG02.86

5688340 1086661 81% 21

Searching ZIP: 1986-3/BATH86.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
142598	Implode	14833	90%	11-27-90	13:42	c6c76d94	-w	BATH86.DAT
142598		14833	90%					1

Searching ZIP: 1986-3/SED86.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
15662	Implode	3773	76%	11-28-90	12:50	006981a7	-w	SEDI86.DAT
15662		3773	76%					1

## Disk 1986-4

Searching ZIP: 1986-4/R&amp;B86.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
2870	Implode	525	82%	11-27-90	13:25	6ce63c87	-w	AUG0186B.DNB
2706	Implode	689	75%	11-27-90	13:26	eb3353c8	-w	AUG0586B.DNB
2870	Implode	700	76%	11-27-90	13:28	972d0455	-w	AUG0886B.DNB
2870	Implode	691	76%	11-27-90	13:29	983df213	-w	AUG1486B.DNB
2870	Implode	708	76%	11-27-90	13:30	07565f62	-w	AUG2386B.DNB
3034	Implode	751	76%	11-27-90	13:30	d46ed8c8	-w	AUG3086B.DNB
2542	Implode	643	75%	11-27-90	13:30	e10b97e7	-w	SEP1086B.DNB
3854	Implode	824	79%	11-27-90	13:30	46b83236	-w	JUL0786B.DSB
4018	Implode	854	79%	11-27-90	13:30	2897756f	-w	JUL1286B.DSB
3362	Implode	754	78%	11-27-90	13:25	07d870fa	-w	AUG0186B.DSB
3362	Implode	731	79%	11-27-90	13:25	083a290d	-w	AUG0886B.DSB
3362	Implode	712	79%	11-27-90	13:25	c49de51c	-w	AUG1486B.DSB
3362	Implode	739	79%	11-27-90	13:25	66del74f	-w	AUG2386B.DSB
3690	Implode	875	77%	11-27-90	13:25	ad3eceld	-w	AUG3086B.DSB
3362	Implode	761	78%	11-27-90	13:25	fdab7d03	-w	SEP1086B.DSB
5330	Implode	1050	81%	11-27-90	13:26	9b75eced	-w	JUN1986R.DEL
3198	Implode	783	76%	11-27-90	13:26	c7a27fde	-w	JUL0486R.DEL
4018	Implode	908	78%	11-27-90	13:26	2b58132e	-w	JUL1886R.DEL
4674	Implode	992	79%	11-27-90	13:26	d4489101	-w	AUG0286R.DEL
3690	Implode	875	77%	11-27-90	13:26	e76e7118	-w	AUG2686R.DEL
3690	Implode	856	77%	11-27-90	13:26	9998c9ca	-w	SEP1386R.DEL
5166	Implode	1035	80%	11-27-90	13:27	077a70bf	-w	JUN2486R.DEL
3198	Implode	769	76%	11-27-90	13:27	30b885c6	-w	JUL0686R.DEL
4018	Implode	888	78%	11-27-90	13:27	edaec680	-w	JUL1786R.DEL
3854	Implode	899	77%	11-27-90	13:27	89e9b73e	-w	AUG0486R.DEL
3854	Implode	854	78%	11-27-90	13:27	1fad1036	-w	AUG2686R.DEL
3854	Implode	868	78%	11-27-90	13:27	fd3d3d37	-w	SEP1386R.DEL

4510	Implode	818	82%	11-27-90	13:28	f05cbbba	→	JUN2486R.DE3
2706	Implode	548	80%	11-27-90	13:28	596fdc61	→	JUL0686R.DE3
2706	Implode	637	77%	11-27-90	13:28	3e5dc9bc	→	JUL1786R.DE3
2870	Implode	653	78%	11-27-90	13:28	0ladcd8f	→	AUG0486R.DE3
2542	Implode	598	77%	11-27-90	13:28	c8c72e10	→	AUG2686R.DE3
2870	Implode	627	79%	11-27-90	13:28	a84ea3cd	→	SEP1386R.DE3
5494	Implode	1122	80%	11-27-90	13:28	ea2b3897	→	JUN2086R.DWB
3526	Implode	817	77%	11-27-90	13:28	db05c932	→	JUL0386R.DWB
4346	Implode	983	78%	11-27-90	13:29	1228c315	→	JUL2886R.DWB
4346	Implode	960	78%	11-27-90	13:29	e8a02f1f	→	AUG0986R.DWB
5002	Implode	1076	79%	11-27-90	13:29	246aad90	→	AUG2786R.DWB
5166	Implode	1092	79%	11-27-90	13:29	0a75374e	→	SEP1186R.DWB
4510	Implode	745	84%	11-27-90	13:29	896eac25	→	JUN2186R.DWD
2706	Implode	494	82%	11-27-90	13:30	27762582	→	JUL0586R.DWD
2706	Implode	539	81%	11-27-90	13:30	6cf7c651	→	JUL2886R.DWD
3034	Implode	584	81%	11-27-90	13:30	b00321af	→	AUG0986R.DWD
2542	Implode	505	81%	11-27-90	13:30	e88albce	→	AUG2786R.DWD
621777	Implode	56482	91%	11-28-90	09:26	fcacd10d	→	BREACH86.CTD
225129	Implode	30830	87%	03-03-88	09:33	9a2dbd381	→	RIVER86.DAT
1005166		121844	88%					46

Searching ZIP: 1986-4/86OCEAN1.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
456084	Implode	98222	79%	11-26-90	13:51	3bee4a4f	→	AS01N1.E86
58794	Implode	12274	80%	11-26-90	15:23	b2a09a39	→	AS01N2.E86
317340	Implode	64158	80%	11-26-90	17:04	41blcdff6	→	ED01N1.E86
130380	Implode	25570	81%	11-27-90	11:00	ld9775f7	→	ED02L2.E86
399176	Implode	74280	82%	11-27-90	11:18	1f63fa3a	→	ED02N1.E86
401800	Implode	69845	83%	11-27-90	11:35	ad9f4c40	→	ED03L1.E86
401800	Implode	80799	80%	11-27-90	11:52	90538ea1	→	ED03N1.E86
129560	Implode	26769	80%	11-27-90	11:58	bflfcf99	→	ED03U2.E86
58056	Implode	11421	81%	11-27-90	12:00	cae4906e	→	ED05L2.E86
436076	Implode	92015	79%	11-26-90	14:10	92b9b311	→	ED05U1.E86
58220	Implode	12725	79%	11-26-90	14:13	659b9e5d	→	ED05U2.E86
81918	Implode	18110	78%	11-26-90	14:16	36da3f08	→	ER01N1.E86
187206	Implode	30061	84%	11-26-90	14:24	cla40ce2	→	ER01N2.E86
210904	Implode	44809	79%	11-26-90	14:35	28a2a8fc	→	ER03L2.E86
221646	Implode	47912	79%	11-26-90	14:44	73c4b618	→	ER03N1.E86
71094	Implode	16930	77%	11-26-90	14:47	ddafb7ea	→	ER03N3.E86
234766	Implode	53824	78%	11-26-90	14:57	d86cf6a6	→	ER03U2.E86
435092	Implode	94187	79%	11-26-90	15:16	ea8c9180	→	ER04N1.E86
83804	Implode	17977	79%	11-26-90	15:20	f0b6fdeb	→	ER04N2.E86
433862	Implode	89284	80%	11-26-90	15:42	c9ba2db2	→	ER05N1.E86
4807578		981172	80%					20

Disk 1987-1

Searching ZIP: 1987-1/RIV&BRE.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
177280	Implode	28226	85%	09-09-88	12:34	b5913ecb	→	RIVER87.DAT
3840	Implode	987	75%	09-09-88	12:34	8f8b20df	→	01JUL87R.OE1
4632	Implode	1213	74%	09-09-88	12:34	86f1c620	→	01SEP87R.OE1
3312	Implode	936	72%	09-09-88	12:34	3ef6c331	→	09JUL87R.OE1
3840	Implode	974	75%	09-09-88	12:34	09c54ad4	→	18JUN87R.OE1
3840	Implode	1043	73%	09-09-88	12:34	d4b757ea	→	29JUL87R.OE1
3312	Implode	902	73%	09-09-88	12:34	29ef9fe3	→	01JUL87R.OE2
3840	Implode	1091	72%	09-09-88	12:34	0d9da49a	→	01SEP87R.OE2
3180	Implode	887	73%	09-09-88	12:34	ac56ab88	→	09JUL87R.OE2
4368	Implode	1122	75%	09-09-88	12:34	d1e3c6ad	→	18JUN87R.OE2
3312	Implode	947	72%	09-09-88	12:34	25e4562c	→	29JUL87R.OE2
2784	Implode	805	72%	09-09-88	12:34	9d2d78a8	→	01JUL87R.OE3
1992	Implode	631	69%	09-09-88	12:34	2bbb90d0	→	09JUL87R.OE3
2432	Implode	707	71%	09-09-88	12:34	fa7ae718	→	18JUN87R.OE3
3576	Implode	979	73%	09-09-88	12:34	76eb07b0	→	27AUG87R.OE3
1728	Implode	629	64%	09-09-88	12:34	e5516051	→	03AUG87B.ONB
1728	Implode	612	65%	09-09-88	12:34	aaae0f09	→	03SEP87B.ONB
1728	Implode	636	64%	09-09-88	12:34	eff9adea	→	07SEP87B.ONB
1728	Implode	628	64%	09-09-88	12:34	9f553885	→	09AUG87B.ONB
1728	Implode	630	64%	09-09-88	12:34	f2e1099b	→	17JUL87B.ONB
1728	Implode	611	65%	09-09-88	12:34	d182bc83	→	21AUG87B.ONB
1728	Implode	611	65%	09-09-88	12:34	e4a70da6	→	25JUL87B.ONB
1728	Implode	624	64%	09-09-88	12:34	f0c8ec57	→	26AUG87B.ONB
1728	Implode	637	64%	09-09-88	12:34	c210ca3d	→	27JUL87B.ONB
1596	Implode	462	72%	09-09-88	12:34	e38c3d19	→	03AUG87B.ONV
1596	Implode	467	71%	09-09-88	12:34	acc89674	→	03SEP87B.ONV
1596	Implode	451	72%	09-09-88	12:34	4ac17c53	→	07SEP87B.ONV
1596	Implode	467	71%	09-09-88	12:34	alc6cc7e	→	09AUG87B.ONV
1332	Implode	420	69%	09-09-88	12:34	fca2aece	→	17JUL87B.ONV
1596	Implode	465	71%	09-09-88	12:34	17e2c14f	→	21AUG87B.ONV
1596	Implode	461	72%	09-09-88	12:34	359614f9	→	25JUL87B.ONV
1596	Implode	456	72%	09-09-88	12:34	f0f5f051	→	26AUG87B.ONV
1596	Implode	448	72%	09-09-88	12:34	e95d210a	→	27JUL87B.ONV
1992	Implode	661	67%	09-09-88	12:34	f52346e7	→	03AUG87B.OSB
1992	Implode	652	68%	09-09-88	12:34	55a98205	→	03SEP87B.OSB
1992	Implode	641	68%	09-09-88	12:34	70bd37dc	→	07SEP87B.OSB
1992	Implode	629	69%	09-09-88	12:34	7a0ddcd9	→	09AUG87B.OSB
4896	Implode	1075	79%	09-09-88	12:34	f8f65c98	→	10JUL87B.OSB
3312	Implode	887	74%	09-09-88	12:34	60ec9f7d	→	17JUL87B.OSB
1992	Implode	657	68%	09-09-88	12:34	8a7b13e6	→	20AUG87B.OSB
1992	Implode	652	68%	09-09-88	12:34	40622ef0	→	21AUG87B.OSB
1992	Implode	672	67%	09-09-88	12:34	6543dec5	→	25JUL87B.OSB
1992	Implode	659	67%	09-09-88	12:34	c0782e9b	→	26AUG87B.OSB
1992	Implode	696	66%	09-09-88	12:34	ef1283bc	→	27JUL87B.OSB
1596	Implode	449	72%	09-09-88	12:34	9d21a5b8	→	03AUG87B.OSV
1596	Implode	431	73%	09-09-88	12:34	a400b6d5	→	03SEP87B.OSV
1596	Implode	430	74%	09-09-88	12:34	3e74b67b	→	07SEP87B.OSV
1596	Implode	454	72%	09-09-88	12:34	d77d6de8	→	09AUG87B.OSV
1200	Implode	396	67%	09-09-88	12:34	62c51872	→	17JUL87B.OSV
1596	Implode	447	72%	09-09-88	12:34	70bd01d7	→	20AUG87B.OSV
1596	Implode	435	73%	09-09-88	12:34	5bbbe1e5	→	21AUG87B.OSV
1596	Implode	450	72%	09-09-88	12:34	495daba9	→	25JUL87B.OSV
1596	Implode	471	71%	09-09-88	12:34	cf69c106	→	26AUG87B.OSV
1596	Implode	461	72%	09-09-88	12:34	e74cdeb0	→	27JUL87B.OSV
4632	Implode	1245	74%	09-09-88	12:34	f491b51d	→	02JUL87R.OWB
2688	Implode	820	70%	09-09-88	12:34	9431020b	→	03JUN87R.OWB
6216	Implode	1487	77%	09-09-88	12:34	fb7cb4c1	→	04SEP87R.OWB
3180	Implode	904	72%	09-09-88	12:34	7b1d0bb7	→	07JUN87R.OWB
3312	Implode	868	74%	09-09-88	12:34	585b425d	→	10JUN87R.OWB

4632	Implode	1166	75%	09-09-88	12:34	3ee94ae8	→w	11JUL87R.OWB
3840	Implode	960	75%	09-09-88	12:34	abdbf3b1	→w	13JUN87R.OWB
3708	Implode	1072	72%	09-09-88	12:34	fe636a48	→w	31JUL87R.OWB
329100		71992	79%					62

Searching ZIP: 1987-1/DRIFT87.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
13068	Implode	2457	82%	09-09-88	12:34	89f3325b	→w	06AUG87.ND1
11352	Implode	2231	81%	09-09-88	12:34	044a4c27	→w	06AUG87.ND2
11352	Implode	2569	78%	09-09-88	12:34	40570da5	→w	06AUG87.ND3
11814	Implode	2306	81%	09-09-88	12:34	83dc825d	→w	06AUG87.ND4
11616	Implode	2228	81%	09-09-88	12:34	ce003cda	→w	06AUG87.ND5
11484	Implode	2277	81%	09-09-88	12:34	a53182b0	→w	06AUG87.ND6
11484	Implode	2488	79%	09-09-88	12:34	96600428	→w	06AUG87.ND7
16368	Implode	2990	82%	09-09-88	12:34	3b85ea19	→w	20AUG87.ND1
20922	Implode	3886	82%	09-09-88	12:34	ecbc3756	→w	20AUG87.ND2
19998	Implode	3737	82%	09-09-88	12:34	eeb3bca5	→w	25JUL87.ND1
15378	Implode	3553	77%	09-09-88	12:34	e9265bc7	→w	25JUL87.ND2
13926	Implode	3173	78%	09-09-88	12:34	4e3f94e3	→w	25JUL87.ND3
305	Shrunk	156	49%	09-09-88	12:34	5004add8	→w	SURV0101.DRF
222	Shrunk	129	42%	09-09-88	12:34	b30f749a	→w	SURV0102.DRF
554	Implode	219	61%	09-09-88	12:34	4027348a	→w	SURV0103.DRF
546	Implode	214	61%	09-09-88	12:34	f2dfb6d0	→w	SURV0104.DRF
747	Implode	248	67%	09-09-88	12:34	8e105cb8	→w	SURV0201.DRF
415	Implode	178	58%	09-09-88	12:34	72884c69	→w	SURV0203.DRF
996	Implode	281	72%	09-09-88	12:34	baceae11	→w	SURV0204.DRF
913	Implode	271	71%	09-09-88	12:34	07d873ea	→w	SURV0205.DRF
747	Implode	246	68%	09-09-88	12:34	090e0f8c	→w	SURV0206.DRF
830	Implode	267	68%	09-09-88	12:34	b2ec1e52	→w	SURV0207.DRF
377	Implode	174	54%	09-09-88	12:34	abdb3fd5	→w	SURV023A.DRF
498	Implode	192	62%	09-09-88	12:34	dcf25c2c	→w	SURV0301.DRF
580	Implode	215	63%	09-09-88	12:34	7060d79a	→w	SURV0303.DRF
581	Implode	216	63%	09-09-88	12:34	a641bfac	→w	SURV0304.DRF
663	Implode	223	67%	09-09-88	12:34	38097c33	→w	SURV0305.DRF
415	Implode	175	58%	09-09-88	12:34	414a0677	→w	SURV0306.DRF
415	Implode	179	57%	09-09-88	12:34	182dc6b7	→w	SURV0310.DRF
664	Implode	235	65%	09-09-88	12:34	003740cc	→w	SURV0401.DRF
912	Implode	282	70%	09-09-88	12:34	cbcl397a	→w	SURV0403.DRF
664	Implode	234	65%	09-09-88	12:34	1bac04f1	→w	SURV0404.DRF
996	Implode	293	71%	09-09-88	12:34	c2bbd461	→w	SURV0405.DRF
822	Implode	260	69%	09-09-88	12:34	ef4e9b76	→w	SURV0406.DRF
249	Shrunk	129	49%	09-09-88	12:34	ba55515a	→w	SURV0410.DRF
663	Implode	226	66%	09-09-88	12:34	86a848d2	→w	SURV0501.DRF
498	Implode	190	62%	09-09-88	12:34	b147471c	→w	SURV0503.DRF
581	Implode	211	64%	09-09-88	12:34	98b4d2d7	→w	SURV0505.DRF
498	Implode	193	62%	09-09-88	12:34	b1e6c5dd	→w	SURV0506.DRF
581	Implode	216	63%	09-09-88	12:34	044e2e01	→w	SURV0510.DRF
213	Shrunk	125	42%	09-09-88	12:34	5f0e6422	→w	SURV054A.DRF
295	Shrunk	151	49%	09-09-88	12:34	046ddc8f	→w	SURV054B.DRF
581	Implode	213	64%	09-09-88	12:34	e059c06b	→w	SURV0601.DRF
663	Implode	231	66%	09-09-88	12:34	4elle290	→w	SURV0602.DRF
498	Implode	202	60%	09-09-88	12:34	134abf1d	→w	SURV0603.DRF
581	Implode	221	62%	09-09-88	12:34	bf71fc29	→w	SURV0605.DRF
580	Implode	220	63%	09-09-88	12:34	8be2f6b0	→w	SURV0606.DRF
498	Implode	197	61%	09-09-88	12:34	e7be2ecb	→w	SURV0608.DRF
497	Implode	199	60%	09-09-88	12:34	cac29561	→w	SURV0610.DRF
415	Implode	190	55%	09-09-88	12:34	385712d9	→w	SURV0701.DRF
415	Implode	182	57%	09-09-88	12:34	117f42bc	→w	SURV0702.DRF
415	Implode	190	55%	09-09-88	12:34	3ffb75c3	→w	SURV0703.DRF
415	Implode	188	55%	09-09-88	12:34	6a13fe0b	→w	SURV0704.DRF
415	Implode	187	55%	09-09-88	12:34	18738280	→w	SURV0705.DRF
415	Implode	185	56%	09-09-88	12:34	5f28a823	→w	SURV0706.DRF
415	Implode	182	57%	09-09-88	12:34	e4b7dc5f	→w	SURV0708.DRF

249	Shrunk	131	48%	09-09-88	12:34	f4e28977	→w	SURV0710.DRF
193254		43141	78%					57

Searching ZIP: 1987-1/CARIBOU.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
53011	Implode	13516	75%	09-09-88	12:34	b6034cla	→w	PIPEHT.DAT
14797	Implode	3781	75%	09-09-88	12:34	61ea15b4	→w	PLOTSUM.DAT
36457	Implode	9077	76%	09-09-88	12:34	525c0a39	→w	RDGRP87S.DAT
13970	Implode	3645	74%	09-09-88	12:34	00ecabc8	→w	RXN-MS.DAT
6073	Implode	2097	66%	09-09-88	12:34	2a1b2a9a	→w	RXN-MSU.DAT
3186	Implode	1301	60%	09-09-88	12:34	24d1fc62	→w	SAPTRAF7.DAT
22941	Implode	5305	77%	09-09-88	12:34	8e2ef150	→w	TRAFFICS.DAT
13249	Implode	4026	70%	09-09-88	12:34	5e5d21e7	→w	TWRSUM87.DAT
163684		42748	74%					8

Searching ZIP: 1987-1/ENDC87.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
2048	Implode	489	77%	10-24-88	09:36	45e3acb0	→w	GLYCOGEN.DAT
18560	Implode	3512	82%	10-06-89	14:45	f4281151	→w	OWLNT.DAT
1893	Implode	689	64%	10-06-89	14:03	09da4072	→w	PROXIMAT.DAT
2176	Implode	508	77%	10-07-89	08:34	87d5a701	→w	AGE88.DAT
123263	Implode	25366	80%	09-09-88	12:34	9a2bad01	→w	FORMAT87.TXT
147940		30564	80%					5

Searching ZIP: 1987-1/FISH87.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
41077	Implode	8019	81%	09-09-88	12:34	66a02ece	→r	AGE85.ADD
107101	Implode	12059	89%	09-09-88	12:34	ca0efbef	→r	AGE87.DAT
271409	Implode	50942	82%	09-09-88	12:34	2d913172	→r	DROP87.DAT
12023	Implode	2697	78%	09-09-88	12:34	055f4e67	→r	DROP87AD.DAT
6963	Implode	1671	77%	09-09-88	12:34	cb71c500	→r	DROP87GR.DAT
5162917	Implode	507232	91%	09-09-88	12:34	161fb1ff	→r	FYKE87.DAT
57112	Implode	11699	80%	09-09-88	12:34	6b840612	→r	STOM87.DAT
27973	Implode	8405	70%	09-09-88	12:34	1818d73f	→r	TAGREC87.DAT
112337	Implode	31031	73%	09-09-88	12:34	2566ff90	→r	WATER87.DAT
113583	Implode	15951	86%	09-09-88	12:34	23f13631	→r	WEIGHT87.DAT
5912495		649706	90%					10

Searching ZIP: 1987-1/OVERWINT.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
34239	Implode	7997	77%	09-09-88	12:34	4782ff61	→w	CONTEC10.DAT
23019	Implode	5522	77%	09-09-88	12:34	c5c19462	→w	CONIWC05.DAT
32981	Implode	8547	75%	09-09-88	12:34	d342794a	→w	CONIWC08.DAT
21983	Implode	3749	83%	09-09-88	12:34	e22e56a7	→w	DISCWAQL.DAT
5913	Implode	2048	66%	09-09-88	12:34	629a31e2	→w	DIVEFISH.DAT
134781	Implode	11397	92%	09-09-88	12:34	baa5307a	→w	FYKESP88.DAT
604	Implode	247	60%	09-09-88	12:34	fc4699c3	→w	WATRSP88.DAT
253520		39507	85%					7

Disk 1987-2

Searching ZIP: 1987-2/SNOGSE87.EXE



Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
278736	Implode	35152	88%	09-09-88	12:34	f45e6059	--w	BRAACT.DAT
2581411	Implode	173346	94%	09-09-88	12:34	387f8ec9	--w	NEST87.DAT
116145	Implode	16830	86%	09-09-88	12:34	9355dded	--w	BRDDST12.DAT
2913	Implode	1210	59%	09-09-88	12:34	813be204	--w	BRDDST34.DAT
1121	Implode	554	51%	09-09-88	12:34	0dc66d12	--w	NBRDST87.DAT
29301	Implode	3468	89%	09-09-88	12:34	f87499b3	--w	NSTDST87.DAT
94342	Implode	11511	88%	09-09-88	12:34	0f75e5fb	--w	RDTRF87.DAT
9637	Implode	1849	81%	09-09-88	12:34	81476653	--w	COLLAR85.DAT
18745	Implode	4018	79%	09-09-88	12:34	c49d325a	--w	COLLAR86.DAT
43105	Implode	7924	82%	09-09-88	12:34	23383a9a	--w	COLLAR87.DAT
3175456		255862	92%					10

Disk 1987-3

Searching ZIP: 1987-3/HYDRO87.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
90103	Implode	14326	85%	09-09-88	12:34	7c3333e2	--r	1987BRE.LST
2283658	Implode	392426	83%	09-09-88	12:34	740e58cb	--r	1987CTD.LST
571747	Implode	90105	85%	09-09-88	12:34	f54b95f2	--r	1987DRFT.LST
12952	Implode	3016	77%	09-09-88	12:34	2dba9dc2	--r	1987OW.LST
2958460		499873	84%					4

Searching ZIP: 1987-3/MET87.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
133740	Implode	39627	71%	09-09-88	12:34	42dfd4b3	--r	RESOLI87.HOR
689504	Implode	176828	75%	09-09-88	12:34	bf6ee992	--r	RESOLI87.MET
823244		216455	74%					2

Searching ZIP: 1987-3/OCEAN87.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
9260	Implode	2873	69%	09-09-88	12:34	d707df39	--r	0009CM01.NDC
35972	Implode	11243	69%	09-09-88	12:34	0d73fa08	--r	0010CM01.NDC
22680	Implode	7240	69%	09-09-88	12:34	f6b475f7	--r	0010CM02.NDC
16883	Implode	4718	73%	09-09-88	12:34	fa59b406	--r	0625CM01.NDC
20285	Implode	6001	71%	09-09-88	12:34	0168f35a	--r	0625CM02.NDC
3212	Implode	1023	69%	09-09-88	12:34	e6ale8a9	--r	0625CM03.NDC
18206	Implode	4269	77%	09-09-88	12:34	19ba8614	--r	0627CM01.NDC
9261	Implode	3006	68%	09-09-88	12:34	5c2e9a2d	--r	1048CM01.NDC
19718	Implode	5937	70%	09-09-88	12:34	2e203434	--r	1798CM01.NDC
13607	Implode	4403	68%	09-09-88	12:34	9fa6ac90	--r	1798CM02.NDC
4788	Implode	1308	73%	09-09-88	12:34	547dec83	--r	1967CM01.NDC
43974	Implode	13467	70%	09-09-88	12:34	4d17dbf0	--r	1967CM02.NDC
5985	Implode	1731	72%	09-09-88	12:34	ea7c5bc9	--r	2120CM01.NDC
33201	Implode	10436	69%	09-09-88	12:34	031572f1	--r	3189CM01.NDC
38178	Implode	11825	70%	09-09-88	12:34	8f3c919d	--r	3189CM02.NDC
49896	Implode	15509	69%	09-09-88	12:34	1d7cabe6	--r	3350CM02.NDC
47061	Implode	14563	70%	09-09-88	12:34	12cd5e6f	--r	5004CM01.NDC
22932	Implode	7058	70%	09-09-88	12:34	a9e12b51	--r	5004CM02.NDC
44037	Implode	10142	77%	09-09-88	12:34	a5a5b724	--r	5091CM01.NDC
17513	Implode	5399	70%	09-09-88	12:34	65dfdccl	--r	5091CM02.NDC
1133	Implode	359	69%	09-09-88	12:34	0b75d179	--r	5102CM01.NDC
42461	Implode	8454	81%	09-09-88	12:34	ce91870d	--r	5127CM01.NDC
29042	Implode	9231	69%	09-09-88	12:34	6c96044d	--r	5759CM01.NDC
34271	Implode	8343	76%	09-09-88	12:34	de08201e	--r	5793CM01.NDC
25893	Implode	8027	69%	09-09-88	12:34	343e8a49	--r	5793CM02.NDC

35720	Implode	8644	76%	09-09-88	12:34	7627ad76	--r	6178CM01.NDC
18710	Implode	4625	76%	09-09-88	12:34	1c81524f	--r	6178CM02.NDC
45170	Implode	14286	69%	09-09-88	12:34	984f1a5c	--r	6468CM01.NDC
44100	Implode	13596	70%	09-09-88	12:34	42814da7	--r	6488CM01.NDC
44352	Implode	13686	70%	09-09-88	12:34	2b117c5a	--r	6492CM01.NDC
29042	Implode	7132	76%	09-09-88	12:34	0803b9d1	--r	6655CM01.NDC
18144	Implode	5735	69%	09-09-88	12:34	ef181466	--r	6655CM02.NDC
12474	Implode	4078	68%	09-09-88	12:34	aa77c014	--r	6655CM03.NDC
30744	Implode	7108	77%	09-09-88	12:34	21cf2b80	--r	7266CM01.NDC
26019	Implode	8196	69%	09-09-88	12:34	be129f54	--r	7266CM02.NDC
54305	Implode	11424	79%	09-09-88	12:34	7db6e4c6	--r	7502CM01.NDC
45296	Implode	14028	70%	09-09-88	12:34	2ccd2e51	--r	7507CM01.NDC
33453	Implode	10569	69%	09-09-88	12:34	00b2759d	--r	7595CM01.NDC
37359	Implode	11321	70%	09-09-88	12:34	49ba5039	--r	7595CM02.NDC
33579	Implode	10075	70%	09-09-88	12:34	1168d87b	--r	8001CM01.NDC
19782	Implode	6417	68%	09-09-88	12:34	dfef9daf	--r	8001CM02.NDC
24569	Implode	7543	70%	09-09-88	12:34	4ad2f677	--r	8001CM03.NDC
18143	Implode	5751	69%	09-09-88	12:34	6ee72a55	--r	8056CM01.NDC
19781	Implode	6229	69%	09-09-88	12:34	24a66e46	--r	8056CM02.NDC
25640	Implode	7961	69%	09-09-88	12:34	3d328a72	--r	8056CM03.NDC
1259	Implode	412	68%	09-09-88	12:34	dd807006	--r	8413CM01.NDC
38997	Implode	12240	69%	09-09-88	12:34	c6696c9e	--r	8413CM02.NDC

1266087

367621

71%

47

Searching ZIP: 1987-3/SEDIMENT.EXE

Length	Method	Size	Ratio	Date	Time	CRC-32	Attr	Name
190270	Implode	47160	76%	09-09-88	12:34	46534305	--w	BATH87.DAT
14124	Implode	2246	85%	09-09-88	12:34	6991c1a9	--w	STAINFO.TXT
8946	Implode	2639	71%	09-09-88	12:34	5cc5a3fb	--w	GRBSED87.DAT
1303	Implode	634	52%	09-09-88	12:34	64167d3f	--w	SEDROD87.DAT
5853	Implode	2341	61%	09-09-88	12:34	89b90ca9	--w	SEDTRP87.DAT
220496		55020	76%					5

ENDICOTT DEVELOPMENT PROJECT  
ENVIRONMENTAL MONITORING PROGRAM  
1985 DATA FILE DESCRIPTIONS

NOTE: > DATA FILES FOR METEOROLGY, RIVER DISCHARGE, AND OCEANOGRAPHY STUDY <  
> ELEMENTS ARE ON TAPE ENDI851; THOSE FOR SNOW GOOSE AND FISH STUDY <  
> ELEMENTS ARE ON TAPE ENDI852. THIS FILE (FORMAT85.TXT) CONTAINS <  
> DOCUMENTATION FOR ALL FILES ON BOTH TAPES. <

File Name: FORMAT85.TXT

Contains format documentation for 1985 Endicott Environmental Monitoring Program data files.

Parameter	Line No	Start Column	Number of Columns	Format
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Format Documentation	1	1	80	Alpha
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This file contains 925 records.

File Name: ENDMET85.DAT

Hourly meteorological data recorded at Deadhorse Airport, Resolution Island, and Cross Island. The data are listed sequentially by time.

Parameter	Line No	Start Column	Number of Columns	Format
-----------	------------	-----------------	----------------------	--------

Date and Time				
Year	1	1	2	Integer
Month	1	3	2	Integer
Day	1	5	2	Integer
Hour (local)	1	7	2	Integer
Deadhorse Wind Speed (mps)	1	9	6	Real ( > -99.99)
Deadhorse Wind Direction (deg)	1	15	6	Real ( > -99.99)
Deadhorse Temperature (deg C)	1	21	6	Real ( > -99.99)
Deadhorse Atmospheric Pressure (mb)	1	27	7	Real ( > -99.99)
Resolution Wind Speed (mps)	1	34	6	Real ( > -99.99)
Resolution Wind Direction (deg)	1	40	6	Real ( > -99.99)
Resolution Temperature (deg C)	1	46	6	Real ( > -99.99)
Resolution Atmospheric Pressure (mb)	1	52	7	Real ( > -99.99)
Resolution Precipitation (mm)	1	59	4	Real ( > -99.99)
Cross Island Wind Speed (mps)	1	63	6	Real ( > -99.99)
Cross Island Wind Direction (deg)	1	69	6	Real ( > -99.99)
Cross Island Temperature (deg C)	1	75	6	Real ( > -99.99)

This file contains 3,673 records.

File Name: RESOLI85.DAT

Formatted meteorological data recorded at Resolution Island and transferred directly from data logger.

Parameter	Line No	Start Column	Number of Columns	Format
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Date and Time				
Year	1	1	2	Integer
Month	1	3	2	Integer
Day	1	5	2	Integer
Hour (local)	1	7	2	Integer
Time	1	9	2	Integer
Wind Speed (mph)	1	11	6	Real ( > -99.99)
Wind Direction (deg true)	1	17	6	Real ( > -99.99)
Temperature (deg C)	1	23	6	Real ( > -99.99)
Atmospheric Pressure (in Hg)	1	30	6	Real ( > -99.99)
Precipitation (in)	1	36	6	Real ( > -99.99)

This file contains 6,236 records.

File Name: WEATH85.TXT

This file contains the interpretative codes used as part of the STD station sheets.

Parameter	Line No	Start Column	Number of Columns	Format
-----------	------------	-----------------	----------------------	--------

Code	1	1	1	Integer
Weather Conditions	1	2	22	Text
Visibility	1	24	12	Text
Cloud Type	1	36	13	Text
Cloud Cover	1	49	8	Text
Sea State	1	57	10	Text
Sea Ice	1	67	11	Text

This file contains 10 records.

File Name: RIVER85.DAT

River discharge data.

Parameter	Line No	Start Column	Number of Columns	Format
-----------	------------	-----------------	----------------------	--------

Station Date	1	1	2	Alpha
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Year	1	11	2	Integer
Month	1	13	2	Integer
Day	1	15	2	Integer
Time				
Hour	1	18	2	Integer
Minute	1	20	2	Integer
MV	1	24	5	Real (###.##)
Stage (m)	1	32	6	Real (###.###)
Discharge (Bottom)				
(cubic meters/second)	1	42	7	Real (####.###)
Discharge (Surface)				
(cubic meters/second)	1	53	7	Real (####.###)
Temperature (Bottom) (c)	1	63	5	Real (###.##)
Temperature (Surface) (c)	1	71	5	Real (###.##)

This file contains 8,137 records.

File Name: BATH85.DAT

1985 Bathymetry for Endicott Study Area.

Parameter	Line No	Start Column	Number of Columns	Format
Longitude Degrees	1	8	3	Integer
Longitude Minutes	1	16	5	Real
Latitude Degrees	1	29	2	Integer
Latitude Minutes	1	36	5	Real
Depth (m)	1	47	4	Real

This file contains 1,850 records.

File Name: CM85\*\*\*\*.DAT

Current meter data files, where \*\*\*\* is station/deployment. Time series measurements of ocean currents, utilizing NODC format number F015.

Parameter	Line No	Start Column	Number of Columns	Format
Master Record	2	10	1	Integer
Meter Number	2	11	5	Alpha
Latitude	2	16	7	Alpha
Longitude	2	23	8	Alpha
Depth of Bottom	2	31	5	Integer
Depth of Current Meter	2	36	5	Real (meters to tenths)
Meter Usage Sequence Number	2	41	3	Integer
(NODC USE)	2	44	2	Alpha
Axis Rotation	2	46	3	Integer
Location Name	2	49	6	Alpha
Number of Detail Records	2	55	6	Integer
Detail Record 2	4	10	1	Integer
Meter Number	4	11	5	Alpha

Date (GMT)				
Year	4	16	2	Integer
Month	4	18	2	Integer
Day	4	20	2	Integer
Time (GMT)				
Hours	4	22	2	Integer
Minutes	4	24	4	Real (##.##) (minutes to hundredths)
East/West Current Component	4	28	6	Integer
(U)				
North-South Current	4	34	6	Real
Component (V)				(cm/sec to hundredths)
Temperature	4	40	5	Real
				(deg C to thousandths)
Pressure	4	45	5	Real
				(decibars to tenths)
Salinity	4	50	5	Real
				(ppt to thousandths)
Sequence Number	6	55	6	Integer

There are 19 files in this series.

File Name: COND85.DAT

Conductivity data, analyzed from water bottle samples collected at STD stations, are contained on this file. Calculated salinity values are also presented.

Parameter	Line No	Start Column	Number of Columns	Format
Survey Date	1	1	2	Integer
Survey Month	1	3	3	Text (Jul, Aug, Sep)
Station Number	1	6	3	Text
Sample Bottle Number	1	9	4	Text
Depth of Sample (m)	1	13	4	Real or 'S'urface
Sample Type	1	17	3	Text, CTD
Sample Temperature (C)	1	20	5	Real
Instrument Range	1	25	4	2, 20, 200
Conductivity (m ohms)	1	29	5	Real
Salinity (ppt)	1	34	10	Real
Sample Temperature for				
Replicate Sample	1	44	5	Real
Instrument Range for				
Replicate Sample	1	49	4	2, 20, 200
Conductivity Replicate (m ohm)	1	53	5	Real
Salinity for Replicate				
Sample (ppt)	1	58	10	Real

This file contains 1,130 records.

File Name: CTD85.DAT

Hydrographic survey data.

Parameter	Line	Start	Number of	Format
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	No	Column	Columns	
<b>Master Record</b>				
Record Type	1	2	1	Integer (always '1')
Station Name	1	4	4	Alpha
Cast Number	1	9	2	Integer
Date (YYMMDD)	1	12	6	Integer
Time (HHMM)	1	19	4	Integer
Latitude (DDMM.XX)	1	24	8	Real
Hemisphere	1	32	1	Alpha ('N' or 'S')
Longitude (DDMM.XX)	1	34	8	Real
Hemisphere	1	42	1	Alpha ('E' or 'W')
Instrument No.	1	44	3	Integer
Total Scans	1	48	2	Integer
Min. Pressure	1	51	5	Real (decibars to tenths)
Max. Pressure	1	57	5	Real (decibars to tenths)
Min. Temperature	1	63	5	Real (degrees C to tenths)
Max. Temperature	1	69	5	Real (degrees C to tenths)
Min. Salinity	1	75	5	Real (ppt to tenths)
Max. Salinity	1	81	5	Real (ppt to tenths)
Min. Sigma-T	1	87	5	Real (to tenths)
Max. Sigma-T	1	93	5	Real (to tenths)
Fathometer Depth	1	99	2	Integer (whole feet)
Secchi Depth	1	102	4	Real (m to tenths)
<b>Detail Record</b>				
Record Type	2	2	1	Integer (always '2')
Station Name	2	4	4	Alpha
Cast Number	2	9	2	Integer
Date (YYMMDD)	2	12	6	Integer
Scan Number	2	19	2	Integer
Pressure	2	22	5	Real (decibars to tenths)
Temperature	2	28	5	Real (degrees C to tenths)
Salinity	2	34	5	Real (ppt to tenths)
Sigma-T	2	40	5	Real (to tenths)

This file contains 17,666 records.

File Name: DEPTH85.DAT

List of 1985 CTD stations where recorded depth from CTD is suspect.

Parameter	Line No	Start Column	Number of Columns	Format
Survey Day	1	2	2	Integer
Survey Month	1	4	3	Alpha (Jul, Aug, Sep)
Station Number	1	8	3	Alpha

CTD Depth	1	14	4	Real (meters)
Fathometer Depth	1	21	4	Real (meters)
Delta if CTD > Fathometer	1	29	3	Real (meters)
Delta if Fathometer > CTD	1	36	3	Real (meters)
Absolute Delta / Fathometer	1	46	6	Real
Comments	1	59	36	Alpha

This file contains 128 records.

File Name: REVTHM85.DAT

Sea water temperatures determined by reversing thermometers. The thermometer readings have been corrected by calibration coefficients determined by the University of Washington.

Parameter	Line No	Start Column	Number of Columns	Format
Survey Date	1	1	2	Integer
Survey Month	1	3	3	Text (Jul, Aug, Sep)
Station Number	1	6	3	Text
Instrument Number	1	9	4	Integer
Depth of Sample (m)	1	13	4	S (surface) or real
Temperature (C)	1	17	10	real

This file contains 73 records.

File Name: TG85\*\*\*.DAT

Water level recorder (tidal gauge) data files, where \*\*\* represents station/deployment, utilizing NODC format number F015.

Parameter	Line No	Start Column	Number of Columns	Format
<b>Master Record</b>				
Record Type	2	10	1	Integer (always '2')
Meter Number	2	11	5	Alpha
Latitude	2	16	7	Alpha
Longitude	2	23	8	Alpha
Depth of Bottom	2	31	5	Integer
Depth of Current Meter	2	36	5	Real (meters to tenths)
Meter Usage Sequence Number	2	41	3	Integer
(NODC USE)	2	44	2	Alpha
Axis Rotation	2	46	3	Integer
Location Name	2	49	6	Alpha
Number of Detail Records	2	55	6	Integer
<b>Detail Record</b>				
Record Type	3	10	1	Integer (always '3')
Meter Number	3	11	5	Alpha
Date (GMT)				

Year	3	16	2	Integer
Month	3	18	2	Integer
Day	3	20	2	Integer
Time (GMT)				
Hours	3	22	2	Integer
Minutes	3	24	4	Real (## ##)
				(minutes to hundredths)
Temperature	3	40	5	Real
				(deg C to thousandths)
Pressure	3	45	5	Real
				(decibars to tenths)
Sequence Number	3	55	6	Integer

There are 2 files in this series.

File Name: TSS85.DAT

Total suspended solids, as measured as part of the oceanographic laboratory analysis are listed in this file by survey date, STD station, and sample bottle.

Parameter	Line No	Start Column	Number of Columns	Format
Survey Date	1	1	2	Integer
Survey Month	1	3	3	Text (Jul, Aug, Sep)
Station Number	1	6	3	Text
Sample Bottle Number	1	9	6	Text
Depth of Sample (m)	1	15	4	Real or 'S'urface
Total Suspended Solids (mg/l)	1	19	10	real

This file contains 85 records.

File Name: TURB85.DAT

Turbidity data, analyzed from water bottle samples collected at STD stations, are contained on this file.

Parameter	Line No	Start Column	Number of Columns	Format
Survey Date	1	1	2	Integer
Survey Month	1	3	3	Text (Jul, Aug, Sep)
Station Number	1	6	3	Text
Sample Bottle Number	1	9	4	Text
Depth of Sample (m)	1	13	4	Real or 'S'urface
Turbidometer Cell Number	1	17	1	Integer, 1 or 2
Sample Type	1	18	3	Text, CTD
Instrument Range	1	21	5	1, 10, 100 or 1000
Turbidity (ntu)	1	26	10	Real
Instrument Range for Replicate Sample	1	36	5	1, 10, 100 or 1000
Turbidity Replicate (ntu)	1	41	10	Real

This file contains 1,426 records.

File Name: UWSALN85.DAT

Salinity data measured by the University of Washington is listed by survey date, STD station, and sample bottle.

Parameter	Line No	Start Column	Number of Columns	Format
Survey Date	1	1	2	Integer
Survey Month	1	3	3	Text (Jul, Aug, Sep)
Station Number	1	6	3	Text
Sample Bottle Number	1	9	4	Text
Depth of Sample (m)	1	13	4	Real or 'S'urface
Salinity (ppt)	1	17	10	Real

This file contains 76 records.

File Name: BROOD85.DAT

Snow Goose brood-rearing activity data. Observations from 4 locations, all within 2 miles of Howe Island:

Location 1:	147 55'W Longitude	70 17'N Latitude
Location 2:	147 57'W Longitude	70 17'N Latitude
Location 3:	148 05'W Longitude	70 17'N Latitude
Location 4:	147 54'W Longitude	70 17'N Latitude

Parameter	Line No	Start Column	Number of Columns	Format
Location	1	1	1	Integer
Date (Julian)	1	3	3	Integer
Session	1	7	3	Integer
Time				
Hour	1	11	2	Integer
Minute	1	13	2	Integer
Group Size	1	16	3	Integer
Number Goslings	1	20	3	Integer
Number Under Observation	1	24	3	Integer
Status	1	28	1	Integer
Feeding	1	30	3	Integer
Resting	1	34	3	Integer
Comfort Movements	1	38	3	Integer
Social Interactions	1	42	3	Integer
Aggression (interspec.)	1	46	3	Integer
Alert	1	50	3	Integer
Walking	1	54	3	Integer
Running	1	58	3	Integer
Flying	1	62	3	Integer
Unknown behavior	1	66	3	Integer
Heavy Trucks	1	70	2	Integer
Light Trucks	1	73	2	Integer

This file contains 888 records.

File Name: DISDAT85.DAT

Snow Goose disturbance data. Observations from Howe Island:

Location: 147 57'W Longitude 70 19'N Latitude

Parameter	Line No	Start Column	Number of Columns	Format
Date (Julian)	1	1	3	Integer
Data Sheet Number	1	5	4	Integer
Time				
Hour	1	10	2	Integer
Minute	1	12	2	Integer
Number Adults	1	15	3	Integer
Number Young	1	19	3	Integer
Status	1	23	1	Integer
Temperature	1	25	2	Integer
Wind Speed	1	28	2	Integer
Wind Direction	1	31	1	Integer
Disturbance Type	1	33	2	Integer
Disturbance Description	1	36	4	Integer
Visual Stimulus	1	41	1	Integer
Distance	1	43	4	Integer
Direction	1	48	1	Integer
Duration	1	50	2	Integer
None	1	53	3	Integer
Alert	1	57	3	Integer
Walk	1	61	3	Integer
Swim	1	65	3	Integer
Run	1	69	3	Integer
Wingflap	1	73	3	Integer
Fly	1	77	3	Integer
Distance Moved	1	81	4	Integer
Flight Path of Aircraft	1	86	1	Integer
Rank of Behavioral Reaction	1	88	4	Real (##.##)
Rank of Distance Moved	1	92	2	Integer
Rank of Duration of Reaction	1	96	2	Integer
Value of Index to Severity of Reaction	1	97	2	Integer

This file contains 115 records.

File Name: INCBRK85.DAT

Snow Goose incubation record data. Observations from Howe Island:

Location: 147 57'W Longitude 70 19'N Latitude

Parameter	Line No	Start Column	Number of Columns	Format
Date (Julian)	1	1	3	Integer
Time Female Departs Nest				
Hour	1	5	2	Integer
Minute	1	7	2	Integer
Time Female Returns				
Hour	1	10	2	Integer
Minute	1	12	2	Integer

Duration Absence	1	16	3	Integer
Nest Number	1	20	2	Integer
Temperature	1	24	2	Integer
Wind Speed	1	27	2	Integer

This file contains 129 records.

File Name: NEST85.DAT

Snow Goose nest activity data. Observations from Howe Island:

Location: 147 57'W Longitude 70 19'N Latitude

Parameter	Line No	Start Column	Number of Columns	Format
Location	1	1	1	Integer
Date (Julian)	1	3	3	Integer
Session	1	7	3	Integer
Time				
Hour	1	11	2	Integer
Minute	1	13	2	Integer
Group Size	1	16	3	Integer
Number Goslings	1	20	3	Integer
Number Under Observation	1	24	3	Integer
Status	1	28	1	Integer
Feeding	1	30	3	Integer
Resting	1	34	3	Integer
Comfort Movements	1	38	3	Integer
Social Interactions	1	42	3	Integer
Agression (interspec.)	1	46	3	Integer
Alert	1	50	3	Integer
Walking	1	54	3	Integer
Running	1	58	3	Integer
Flying	1	62	3	Integer
Offnest (females only)	1	66	3	Integer
Unknown behavior	1	70	3	Integer
Comment	1	74	20	Alpha

This file contains 2,407 records.

File Name: AGE85.DAT

Age frequency data from fish scales.

Parameter	Line No	Start Column	Number of Columns	Format
Id	1	1	1	Alpha
Station	1	3	3	Alpha
Date				
Day	1	7	2	Integer
Month	1	9	2	Integer
Year	1	11	2	Integer
Species	1	14	2	Alpha
Forklength	1	16	4	Integer (millimeters)
Age	1	20	2	Integer

This file contains 1,655 records.

File Name: DROP85.DAT

Drop net data from fish studies.

Parameter	Line No	Start Column	Number of Columns	Format
Id	1	1	1	Alpha
Station	1	3	3	Alpha
Date				
Day	1	7	2	Integer
Month	1	9	2	Integer
Year	1	11	2	Integer
Time				
Hour	1	14	2	Integer
Minute	1	16	2	Integer
Location	1	19	3	Alpha
Prey Species	1	23	2	Alpha
Prey Size	1	27	1	Alpha
Count	1	28	6	Integer
Weight	1	34	8	Real (####.###)
Length1	1	43	3	Integer
Length2	1	46	3	Integer
Length3	1	49	3	Integer
Length4	1	52	3	Integer
Length5	1	55	3	Integer
Length6	1	58	3	Integer
Length7	1	61	3	Integer
Length8	1	64	3	Integer
Length9	1	67	3	Integer
Length10	1	70	3	Integer

This file contains 6,639 records.

File Name: FISH185.DAT

These are the fish data from Form 1 recorded at fyke net locations. The data records include date, time, location, species, number caught but not measured for length, and the quantitative sample indicator.

Parameter	Line No	Start Column	Number of Columns	Format
End Date (YYMMDD)	1	1	6	Integer
Station	1	7	3	Alpha
Method	1	10	2	Integer
Net Direction	1	12	1	Alpha
End Time (HHMM)	1	13	4	Integer (24-hr. local time)
Start Date (YYMMDD)	1	17	6	Integer
Start Time (HHMM)	1	23	4	Integer (24-hr. local time)
Species	1	27	4	Alpha

Number Caught and Not Measured for Length	1	31	5	Integer
Quantitative Sample Code	1	36	1	Alpha

This file contains 11,276 records.

File Name: FISH285.DAT

These are the fish data from Form 2 recorded at fyke net locations. The data records include date, time, location, species, forklengh, and tags applied and recovered.

Parameter	Line No	Start Column	Number of Columns	Format
End Date (YYMMDD)	1	1	6	Integer
Station	1	7	3	Alpha
Method	1	10	2	Integer
Net Direction	1	12	1	Alpha
End Time (HHMM)	1	13	4	Integer (24-hr. local time)
Start Date (YYMMDD)	1	17	6	Integer
Start Time (HHMM)	1	23	4	Integer (24-hr. local time)
Quantitative Sample Code	1	27	1	Alpha
Species	1	28	4	Alpha
Forklength	1	32	3	Integer
Mark Type Applied	1	35	1	Alpha
1st Mark Type Recovered	1	36	1	Alpha
2nd Mark Type Recovered	1	37	1	Alpha
Destination of Fish	1	38	1	Alpha
Mark Applied	1	39	10	Alpha
1st Mark Recovered	1	49	10	Alpha
2nd Mark Recovered	1	59	10	Alpha

This file contains 85,472 records.

File Name: LENGTH85.DAT

Length/weight data from fish studies.

Parameter	Line No	Start Column	Number of Columns	Format
Id	1	1	1	Alpha
Station	1	3	3	Alpha
Date				
Day	1	7	2	Integer
Month	1	9	2	Integer
Year	1	11	2	Integer
Species	1	14	2	Alpha
Forklength	1	16	4	Integer (millimeters)
Weight	1	21	6	Real (####.##) (grams)

This file contains 569 records.

File Name: SALIN85.DAT

Salinity data from fish studies. The data are listed sequentially by station and date.

NOTE: > THIS FILE CONTAINS RAW SALINITY MEASUREMENTS. CALIBRATION TESTS <  
> CONDUCTED INDICATE THAT THESE RAW SALINITY VALUES SHOULD BE <  
> CORRECTED USING THE FORMULA: CORRECTSAL = (SALINITY\*1.0325) + 0.024.<

Parameter	Line No	Start Column	Number of Columns	Format
Id	1	1	1	Alpha
Station	1	2	3	Alpha
Direction	1	5	1	Alpha
Date				
Day	1	6	2	Integer
Month	1	8	2	Integer
Year	1	10	2	Integer
Depth (Surface/Bottom)	1	12	1	Alpha ('S' or 'B')
Salinity	1	13	5	Real (##.##) (ppt)

This file contains 2,122 records.

File Name: STOM85.DAT

Stomach data from fish studies.

Parameter	Line No	Start Column	Number of Columns	Format
Id	1	1	1	Alpha
Station	1	3	3	Alpha
Date				
Day	1	8	2	Integer
Month	1	10	2	Integer
Year	1	12	2	Integer
Time				
Hour	1	15	2	Integer
Minute	1	17	2	Integer
Predator Species	1	20	2	Alpha
Predator Weight	1	23	4	Integer
Predator Forklength	1	28	3	Integer
Percent Sampled	1	32	3	Integer
Subsampler	1	36	2	Alpha
Sample Period	1	39	1	Alpha
Quantitative Code	1	41	1	Alpha
Replicate Number	1	43	1	Integer
Prey Species	1	45	2	Alpha
Prey Size	1	49	1	Alpha
Count	1	52	4	Integer
Prey Weight	1	58	6	Real (##.###)
Length1	1	65	2	Integer
Length2	1	68	2	Integer
Length3	1	71	2	Integer
Length4	1	74	2	Integer

Length5	1	77	2	Integer
Length6	1	80	2	Integer
Length7	1	83	2	Integer
Length8	1	86	2	Integer
Length9	1	89	2	Integer
Length10	1	92	2	Integer

This file contains 3,469 records.

File Name: TURBID85.DAT

Turbidity data from fish studies. The data are listed sequentially by station and date.

Parameter	Line No	Start Column	Number of Columns	Format
Id	1	1	1	Alpha
Station	1	2	3	Alpha
Direction	1	5	1	Alpha
Date				
Day	1	6	2	Integer
Month	1	8	2	Integer
Year	1	10	2	Integer
Depth (Surface/Bottom)	1	12	1	Alpha ('S' or 'B')
Turbidity	1	13	7	Real (###.###) (NTU)

This file contains 2,187 records.

File Name: WATER85.DAT

Water bottle data from fish studies. The data are listed sequentially by station and date.

Parameter	Line No	Start Column	Number of Columns	Format
Id	1	1	1	Alpha
Station	1	2	3	Alpha
Direction	1	5	1	Alpha
Date				
Day	1	6	2	Integer
Month	1	8	2	Integer
Year	1	10	2	Integer
Time				
Hour	1	12	2	Integer
Minute	1	14	2	Integer
Water Level	1	16	3	Real (##.) (meters)
Wave Height	1	19	3	Real (##.) (meters)
Wave Direction	1	22	3	Integer (degrees)
Current Direction	1	25	3	Integer (degrees)
Surface Temperature	1	28	4	Real (##.##) (deg. C)
Bottom Temperature	1	32	4	Real (##.##) (deg. C)

This file contains 1,934 records.



ENDICOTT DEVELOPMENT PROJECT  
ENVIRONMENTAL MONITORING PROGRAM  
1986 DATA FILE DESCRIPTIONS

This file contains a format description of the data files associated with the 1986 Endicott Monitoring Program. Descriptions are arranged by subelements. Data files for Meteorology, River Discharge and Breach, Bathymetry, Sedimentation, Oceanography, Hydrography, Snow Geese, Fish Habitat and Fish are recorded on the tape. This file, FORMAT86.TXT, is the first file on the data tape.

File Name: FORMAT86.TXT

Contains format documentation for 1986 Endicott Environmental Monitoring Program data files.

Parameter	Line No	Start Column	Number of Columns	Format
Format Documentation	1	1	80	Alpha

This file contains 1,763 records.

```
*****
*
*           METEOROLOGY
*
*****
```

File Name: RESOLI86.HOR

Hourly meteorological data recorded at Resolution Island. The data are listed sequentially by time.

Parameter	Line No	Start Column	Number of Columns	Format
Date and Time				
Year	1	1	2	Integer
Month	1	3	2	Integer
Day	1	5	2	Integer
Hour (local)	1	7	2	Integer
Average wind Speed (m/s)	1	9	7	Real ( > -99.9)
Maximum wind Speed (m/s)	1	15	7	Real ( > -99.9)

Wind Direction (deg T)	1	21	6	Real ( > -99.9)
Temperature (deg C)	1	27	6	Real ( > -99.9)
Atmospheric Pressure (mb)	1	33	7	Real ( > -99.9)
Regular Precipitation (mm)	1	40	4	Real ( > -.99)
Heated Precipitation (mm)	1	44	4	Real ( > -.99)

This file contains 2,933 records.

File Name: SEALI86.HOR

Hourly meteorological data recorded at Seal Island. The data are listed sequentially by time.

Parameter	Line No	Start Column	Number of Columns	Format
Date and Time				
Year	1	1	2	Integer
Month	1	3	2	Integer
Day	1	5	2	Integer
Hour (local)	1	7	2	Integer
Average wind Speed (m/s)	1	9	7	Real ( > -99.9)
Maximum wind Speed (m/s)	1	15	7	Real ( > -99.9)
Wind Direction (deg T)	1	21	6	Real ( > -99.9)
Temperature (deg C)	1	27	6	Real ( > -99.9)
Atmospheric Pressure (mb)	1	33	7	Real ( > -99.9)

This file contains 768 records.

File Name: RESOLI86.MET

Ten minute meteorological data recorded at Resolution Island. The data are listed sequentially by time.

Parameter	Line No	Start Column	Number of Columns	Format
Date and Time				
Year	1	1	2	Integer
Month	1	3	2	Integer
Day	1	5	2	Integer
Hour (local)	1	7	2	Integer
Minute	1	9	2	Integer
Wind Speed (m/s)	1	11	6	Real ( > -99.9)
Wind Direction (deg T)	1	17	6	Real ( > -99.9)
Temperature (deg C)	1	23	6	Real ( > -99.9)
Atmospheric Pressure (mb)	1	29	7	Real ( > -99.9)
Maximum Wind Speed (m/s) (hourly)	1	36	6	Real ( > -99.9)
Regular Precipitation(mm)(hourly)	1	42	4	Real ( > -.99)
Heated Precipitation (mm)(hourly)	1	46	4	Real ( > -.99)

This file contains 17,589 records.

File Name: SEALI86.MET

Ten minute meteorological data recorded at Seal Island.  
The data are listed sequentially by time.

Parameter	Line No	Start Column	Number of Columns	Format
Date and Time				
Year	1	1	2	Integer
Month	1	3	2	Integer
Day	1	5	2	Integer
Hour (local)	1	7	2	Integer
Minute	1	9	2	Integer
Wind Speed (m/s)	1	11	6	Real ( > -99.9)
Maximum Wind Speed (m/s)	1	17	6	Real ( > -99.9)
Wind Direction (deg T)	1	23	6	Real ( > -99.9)
Temperature (deg C)	1	29	6	Real ( > -99.9)
Atmospheric Pressure (mb)	1	35	7	Real ( > -99.9)

This file contains 4,488 records.

```
*****
*
*           RIVERS AND BREACHES
*
*****
```

File Name: RIVER86.DAT

Sag River temperature, stage and discharge data.

Parameter	Line No	Start Column	Number of Columns	Format
Date and Time				
Year	1	2	2	Integer
Month	1	4	2	Integer
Day	1	6	2	Integer
Hour	1	8	2	Integer
Station WC/B				
Temperature (deg C)	1	12	9	Real ( > -99.9)
Stage (cm)	1	21	9	Real ( > -99.9)
Discharge (cu. m/s)	1	30	9	Real ( > -99.9)
Station WC/D				
Temperature (deg C)	1	39	9	Real ( > -99.9)
Stage (cm)	1	48	9	Real ( > -99.9)
Discharge (cu. m/s)	1	57	9	Real ( > -99.9)
Station EC/1				
Temperature (deg C)	1	66	9	Real ( > -99.9)
Stage (cm)	1	75	9	Real ( > -99.9)
Discharge (cu. m/s)	1	84	9	Real ( > -99.9)
Station EC/2				
Discharge (cu. m/s)	1	93	9	Real ( > -99.9)
Station EC/3				
Temperature (deg C)	1	102	9	Real ( > -99.9)
Stage (cm)	1	111	9	Real ( > -99.9)
Discharge (cu. m/s)	1	120	9	Real ( > -99.9)

This file contains 2,229 records.

File Name: BREACH86.CTD

Breach CTD data.

Parameter	Line No	Start Column	Number of Columns	Format
Master Record				
Record Type	1	2	1	always 1
Station Name	1	4	4	Alpha
Cast Number	1	9	2	Integer
Date (YYMMDD)	1	12	6	Integer
Time (HHMM)	1	19	4	Integer
Latitude (DDMM.XX)	1	24	8	Real
Hemisphere	1	32	1	Alpha (N)
Longitude (DDMM.XX)	1	34	8	Real
Hemisphere	1	42	1	Alpha (W)
Instrument No.	1	44	3	Integer
Total Scans	1	48	2	Integer
Minimum Pressure (decibars to tenths)	1	51	5	Real
Maximum Pressure (decibars to tenths)	1	57	5	Real
Minimum Temperature (degrees C to tenths)	1	63	5	Real
Maximum Temperature (degrees C to tenths)	1	69	5	Real
Minimum Salinity (ppt to tenths)	1	75	5	Real
Maximum Salinity (ppt to tenths)	1	81	5	Real
Minimum Sigma-T (to tenths)	1	87	5	Real
Maximum Sigma-T (to tenths)	1	93	5	Real
Fathometer Depth (ft)	1	99	2	Integer
Secchi Depth (m to tenths)	1	102	4	Real
Detail Record				
Record Type	2	2	1	always 2
Station Name	2	4	4	Alpha
Cast Number	2	9	2	Integer
Date (YYMMDD)	2	12	6	Integer
Scan Number	2	19	2	Integer
Pressure (decibars to tenths)	2	22	5	Real
Temperature (degrees C to tenths)	2	28	5	Real
Salinity (ppt to tenths)	2	34	5	Real
Sigma-T (to tenths)	2	40	5	Real

This file contains 5,811 records.

File Name: MonDy86#.D\*\*

River and breach discharge cross section data where MonDy is Date (month day), # is R for River or B for Breach, and \*\* is Station Name.

Parameter	Line No	Start Column	Number of Columns	Format
There are 5 header lines in these files.				
Angle	1	1	5	Real (##.##)
Distance from left-edge-of-water	1	7	7	Real (#####)
Width	1	15	6	Real (#####)
Depth	1	22	6	Real (#####)
Observation depth	1	29	3	Real (#.)
Revolutions	1	33	4	Real (###.)
Seconds	1	38	4	Real (###.)
Velocity	1	43	6	Real (#####)
Mean velocity	1	50	6	Real (#####)
Adjusted velocity	1	58	6	Real (#####)
Area	1	64	8	Real (#####)
Discharge	1	73	8	Real (#####)
Observation depth	2	29	3	Real (#.)
Revolutions	2	33	4	Real (###.)
Seconds	2	38	4	Real (###.)
Velocity	2	43	6	Real (#####)

There are 2 footer lines in these files.

There are 44 files in this series.

File AUG0186B.DNB contains 35 records.  
 File AUG0586B.DNB contains 33 records.  
 File AUG0886B.DNB contains 35 records.  
 File AUG1486B.DNB contains 35 records.  
 File AUG2386B.DNB contains 35 records.  
 File AUG3086B.DNB contains 37 records.  
 File SEP1086B.DNB contains 31 records.  
 File JUL0786B.DSB contains 47 records.  
 File JUL1286B.DSB contains 49 records.  
 File AUG0186B.DSB contains 41 records.  
 File AUG0886B.DSB contains 41 records.  
 File AUG1486B.DSB contains 41 records.  
 File AUG2386B.DSB contains 41 records.  
 File AUG3086B.DSB contains 45 records.  
 File SEP1086B.DSB contains 41 records.  
 File JUN1986R.DE1 contains 65 records.  
 File JUL0486R.DE1 contains 39 records.  
 File JUL1886R.DE1 contains 49 records.  
 File AUG0286R.DE1 contains 57 records.  
 File AUG2686R.DE1 contains 45 records.  
 File SEP1386R.DE1 contains 45 records.  
 File JUN2486R.DE2 contains 63 records.  
 File JUL0686R.DE2 contains 39 records.  
 File JUL1786R.DE2 contains 49 records.  
 File AUG0486R.DE2 contains 47 records.  
 File AUG2686R.DE2 contains 47 records.  
 File SEP1386R.DE2 contains 47 records.  
 File JUN2486R.DE3 contains 55 records.  
 File JUL0686R.DE3 contains 33 records.  
 File JUL1786R.DE3 contains 33 records.

File AUG0486R.DE3 contains 35 records.  
 File AUG2686R.DE3 contains 31 records.  
 File SEP1386R.DE3 contains 35 records.  
 File JUN2086R.DWB contains 67 records.  
 File JUL0386R.DWB contains 43 records.  
 File JUL2886R.DWB contains 53 records.  
 File AUG0986R.DWB contains 53 records.  
 File AUG2786R.DWB contains 61 records.  
 File SEP1186R.DWB contains 63 records.  
 File JUN2186R.DWD contains 55 records.  
 File JUL0586R.DWD contains 33 records.  
 File JUL2886R.DWD contains 33 records.  
 File AUG0986R.DWD contains 37 records.  
 File AUG2786R.DWD contains 31 records.

```

*****
*
*                               BATHYMETRY
*
*****

```

File Name: BATH86.DAT

1986 Bathymetry for Endicott Study Area.

Parameter	Line No	Start Column	Number of Columns	Format
There are 4 header lines in this file.				
Longitude Degrees	5	8	3	Integer
Longitude Minutes	5	16	5	Real (##.##)
Latitude Degrees	5	29	2	Integer
Latitude Minutes	5	36	5	Real (##.##)
Depth (m)	5	47	4	Real (##.##)

This file contains 1,739 records.

```

*****
*
*                               SEDIMENTATION
*
*****

```

File Name: SEDIMN86.DAT

1986 Sedimentation data for Endicott Study Area.

Parameter	Line No	Start Column	Number of Columns	Format
Sample Type	1	1	1	Alpha
Sample Date	1	3	4	Integer (MMYY)
Station	1	8	3	Alpha
Replicate	1	12	1	Integer
Sample Dry Mass (g)	1	14	5	Real (##.##)

Sample Percent Sand	1	20	5	Real (###.##)
Sample Percent Silt	1	26	5	Real (###.##)
Sample Percent Clay	1	32	5	Real (###.##)
Total Trap Dry Mass (g)	1	38	6	Real (####.##)

This file contains 191 records.

Variable definitions and codings for file SEDIMN86.DAT:

Sample Type: G = grab sample; T = sediment trap.

Station: 001 through 020, plus Strudel Hole North (SHN) and Strudel Hole Center (SHC).

Missing/Not Applicable: -9.99 and -99.99, respectively.

```
*****
*                                     *
*                               OCEANOGRAPHY                               *
*                                     *
*****
```

File Name: Sta#L\*.CM86

Current meter data files, where Sta# is the station, L is the level (U for upper, L for lower, or N for not applicable), and \* is the deployment sequence number. Time series measurements of ocean currents utilize NODC format number F015.

Parameter	Line No	Start Column	Number of Columns	Format
Master Record 1	1	10	1	always 1
Meter Number	1	11	5	Alpha
Text	1	16	38	Alpha
Sequence Number	1	55	6	Alpha
Master Record 2	2	10	1	always 2
Meter Number	2	11	5	Alpha
Latitude	2	16	7	Alpha
(deg, min to hundredths, N)				
Longitude	2	23	8	Alpha
(deg, min to hundredths, W)				
Depth of Bottom (m)	2	31	5	Integer
Depth of Current Meter	2	36	5	Real
(m to tenths)				
Meter Usage Sequence Number	2	41	3	Integer
NODC Code	2	44	2	Alpha
Axis Rotation (deg)	2	46	3	Integer
Location Name	2	49	6	Alpha
Number of Detail Records	2	55	6	Integer
Detail Record	3	10	1	always 4
Meter Number	3	11	5	Alpha
Date (local)				
Year	3	16	2	Integer
Month	3	18	2	Integer
Day	3	20	2	Integer
Time (local)				
Hours	3	22	2	Integer
Minutes (to hundredths)	3	24	4	Real
East/West Current Component	3	28	6	Integer

(U, cm/sec to hundredths)				
North-South Current	3	34	6	Real
Component (V, cm/sec to hundredths)				
Temperature	3	40	5	Real
(deg C to thousandths)				
Pressure	3	45	5	Real
(decibars to tenths)				
Salinity	3	50	5	Real
(ppt to thousandths)				
Sequence Number	3	55	6	Integer

There are 39 files in this series.

File AS01N1.CM86 contains 5,562 records.  
 File AS01N2.CM86 contains 717 records.  
 File ED01N1.CM86 contains 3,870 records.  
 File ED02L2.CM86 contains 1,590 records.  
 File ED02N1.CM86 contains 4,868 records.  
 File ED03L1.CM86 contains 4,900 records.  
 File ED03N1.CM86 contains 4,900 records.  
 File ED03U2.CM86 contains 1,580 records.  
 File ED05L2.CM86 contains 708 records.  
 File ED05U1.CM86 contains 5,318 records.  
 File ED05U2.CM86 contains 710 records.  
 File ER01N1.CM86 contains 999 records.  
 File ER01N2.CM86 contains 2,283 records.  
 File ER03L2.CM86 contains 2,572 records.  
 File ER03N1.CM86 contains 2,703 records.  
 File ER03N3.CM86 contains 867 records.  
 File ER03U2.CM86 contains 2,863 records.  
 File ER04N1.CM86 contains 5,306 records.  
 File ER04N2.CM86 contains 1,022 records.  
 File ER05N1.CM86 contains 5,291 records.  
 File ER05N2.CM86 contains 1,008 records.  
 File ER08N1.CM86 contains 5,327 records.  
 File ER08N2.CM86 contains 1,427 records.  
 File ER09N1.CM86 contains 759 records.  
 File ER09N2.CM86 contains 1,426 records.  
 File ER10N1.CM86 contains 1,006 records.  
 File ER11N1.CM86 contains 115 records.  
 File ER11N2.CM86 contains 5,470 records.  
 File ER12N1.CM86 contains 2,890 records.  
 File ER13N1.CM86 contains 3,869 records.  
 File ER21N1.CM86 contains 2,753 records.  
 File ER21N2.CM86 contains 6,456 records.  
 File ES03N1.CM86 contains 5,326 records.  
 File ES04N1.CM86 contains 4,996 records.  
 File ES04N2.CM86 contains 1,311 records.  
 File ES05N2.CM86 contains 3,578 records.  
 File ES05N3.CM86 contains 709 records.  
 File ES05N1.CM86 contains 1,308 records.  
 File ES06N1.CM86 contains 5,303 records.

File Name: TG\*\*.TG86

Water level recorder (tidal gauge) data files, where \*\* represents station/deployment, utilizing NODC format number F015.

Parameter	Line	Start	Number of	Format
-----------	------	-------	-----------	--------

	No	Column	Columns	
Master Record 1	1	10	1	always 1
Meter Number	1	11	5	Alpha
Text	1	16	38	Alpha
Sequence Number	1	55	6	Alpha
Master Record 2	2	10	1	always 2
Meter Number	2	11	5	Alpha
Latitude	2	16	7	Alpha
(deg, min to hundredths, N)				
Longitude	2	23	8	Alpha
(deg, min to hundredths, W)				
Depth of Bottom (m)	2	31	5	Integer
Depth of Current Meter	2	36	5	Real
(m to tenths)				
Meter Usage Sequence Number	2	41	3	Integer
NODC Code	2	44	2	Alpha
Axis Rotation (deg)	2	46	3	Integer
Location Name	2	49	6	Alpha
Number of Detail Records	2	55	6	Integer
Detail Record	3	10	1	always 3
Meter Number	3	11	5	Alpha
Date (local)				
Year	3	16	2	Integer
Month	3	18	2	Integer
Day	3	20	2	Integer
Time (local)				
Hours	3	22	2	Integer
Minutes (to hundredths)	3	24	4	Real
Temperature	3	40	5	Real
(deg C to thousandths)				
Pressure	3	45	5	Real
(decibars to tenths)				
Salinity	3	50	5	Real
(ppt to thousandths)				
Sequence Number	3	55	6	Integer

There are 2 files in this series.

File TG01.TG86 contains 6,737 records.

File TG02.TG86 contains 7,596 records.

```
*****
*
*                               HYDROGRAPHY
*
*****
```

File Name: CTD86.DAT

Hydrographic survey data.

Parameter	Line No	Start Column	Number of Columns	Format
Master Record				
Record Type	1	2	1	always 1
Station Name	1	4	4	Alpha
Cast Number	1	9	2	Integer
Date (YYMMDD)	1	12	6	Integer

Time (HHMM)	1	19	4	Integer
Latitude (DDMM.XX)	1	24	8	Real
Hemisphere (N or S)	1	32	1	Alpha
Longitude (DDMM.XX)	1	34	8	Real
Hemisphere (E or W)	1	42	1	Alpha
Instrument No.	1	44	3	Integer
Total Scans	1	48	2	Integer
Minimum Pressure	1	51	5	Real
(decibars to tenths)				
Maximum Pressure	1	57	5	Real
(decibars to tenths)				
Minimum Temperature	1	63	5	Real
(degrees C to tenths)				
Maximum Temperature	1	69	5	Real
(degrees C to tenths)				
Minimum Salinity	1	75	5	Real
(ppt to tenths)				
Maximum Salinity	1	81	5	Real
(ppt to tenths)				
Minimum Sigma-T (to tenths)	1	87	5	Real
Maximum Sigma-T (to tenths)	1	93	5	Real
Fathometer Depth (ft)	1	99	2	Integer
Secchi Depth (m to tenths)	1	102	4	Real
Detail Record				
Record Type	2	2	1	always 2
Station Name	2	4	4	Alpha
Cast Number	2	9	2	Integer
Date (YYMMDD)	2	12	6	Integer
Scan Number	2	19	2	Integer
Pressure	2	22	5	Real
(decibars to tenths)				
Temperature	2	28	5	Real
(degrees C to tenths)				
Salinity (ppt to tenths)	2	34	5	Real
Sigma-T (to tenths)	2	40	5	Real

This file contains 51,069 records.

```
*****
*
*                               SNOW GEESE
*
*****
```

File Name: BR86.DAT

1986 Snow Goose brood-rearing activity data file.

Parameter	Line No	Start Column	Number of Columns	Format
Observer	1	1	1	Integer
Location	1	2	1	Integer (See Note)
Date	1	3	3	Integer (Jan. 1 = 1)
Observation Period	1	6	3	Integer
Group Size	1	9	3	Integer
No. Goslings	1	12	3	Integer
Status	1	15	1	Integer (See Note)
Temperature	1	16	2	Integer (Degrees C)
Wind Speed	1	18	2	Integer (Miles/Hour)
Wind Direction	1	20	1	Integer (See Note)

Time of Scan	1	21	4	Integer (Local Time)
No. Feeding	1	25	3	Integer
No. Resting	1	28	3	Integer
No. Comfort Movements	1	31	3	Integer
No. Social Interactions	1	34	3	Integer
No. Interspecific Aggression	1	37	3	Integer
No. Alert	1	40	3	Integer
No. Walking	1	43	3	Integer
No. Running	1	46	3	Integer
No. Flying	1	49	3	Integer
Traffic	1	52	1	Integer (See Note)
Disturbance	1	53	1	Integer (0=no;1=yes)

This file contains 3,415 records.

File Name: DISTNB86.DAT

1986 Snow Goose non-breeding birds disturbance activity data file.

Parameter	Line No	Start Column	Number of Columns	Format
Year	1	1	2	Integer
Date	1	3	3	Integer (Jan. 1 = 1)
Observation Period	1	6	3	Integer
Time	1	9	4	Integer (Local Time)
No. Adults	1	13	3	Integer
Status	1	16	2	Integer (See Note)
Temperature	1	18	2	Integer (Degrees C)
Wind Speed	1	20	2	Integer (Miles/Hour)
Wind Direction	1	22	1	Integer (See Note)
Disturbance Type	1	23	2	Integer (See Note)
Description	1	25	4	Integer (See Note)
Visual Stimulus	1	29	1	Integer (See Note)
Distance of Disturbance to Geese	1	30	4	Integer (Horiz'l; m)
Direction to Geese	1	34	1	Integer (See Note)
Duration of Disturbance	1	35	2	Integer (Minutes)
No. No Reaction	1	37	3	Integer
No. Alert	1	40	3	Integer
No. Walking	1	43	3	Integer
No. Running	1	46	3	Integer
No. Wing Flapping	1	49	3	Integer
No. Flying	1	52	3	Integer
Distance Moved	1	55	4	Integer (m)
Flight Path	1	59	1	Integer (See Note)
Comments	1	60	60	Alpha

This file contains 18 records.

File Name: DISTNS86.DAT

1986 Snow Goose nesting birds disturbance data file.

Parameter	Line No	Start Column	Number of Columns	Format
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Observer	1	1	1	Integer
Date	1	2	3	Integer (Jan. 1 = 1)
Observation Period	1	5	3	Integer
Time	1	8	4	Integer (Local Time)
No. Males	1	12	2	Integer
No. Females	1	14	2	Integer
Status	1	16	1	Integer (See Note)
Temperature	1	17	2	Integer (Degrees C)
Wind Speed	1	19	2	Integer (Miles/Hour)
Wind Direction	1	21	1	Integer (See Note)
Disturbance Type	1	22	2	Integer (See Note)
Description	1	24	4	Integer (See Note)
Visual Stimulus	1	28	1	Integer (See Note)
Distance of Disturbance to Geese	1	29	4	Integer (Horiz'l; m)
Direction to Geese	1	33	1	Integer (See Note)
Duration of Disturbance	1	34	2	Integer (Minutes)
No. Males	1	36	2	Integer
No. Females	1	38	2	Integer
No. Alert Males	1	40	2	Integer
No. Alert Females	1	42	2	Integer
No. Walking Males	1	44	2	Integer
No. Walking Females	1	46	2	Integer
No. Running Males	1	48	2	Integer
No. Running Females	1	50	2	Integer
No. Wing Flapping Males	1	52	2	Integer
No. Wing Flapping Females	1	54	2	Integer
No. Flying Males	1	56	2	Integer
No. Flying Females	1	58	2	Integer
Distance Moved	1	60	4	Integer (m)
Flight Path	1	64	1	Integer (See Note)
Comments	1	65	60	Alpha

This file contains 121 records.

File Name: DISTBR86.DAT

1986 Snow Goose brood-rearing disturbance data file.

Parameter	Line No	Start Column	Number of Columns	Format
Observer	1	1	1	Integer
Date	1	2	3	Integer (Jan. 1 = 1)
Location	1	5	1	Integer (See Note)
Observation Period	1	6	3	Integer
Time	1	9	4	Integer (Local Time)
No. Adults	1	13	3	Integer
No. Juveniles	1	16	3	Integer
Status	1	19	1	Integer (See Note)
Temperature	1	20	2	Integer (Degrees C)
Wind Speed	1	22	2	Integer (Miles/Hour)
Wind Direction	1	24	1	Integer (See Note)
Disturbance Type	1	25	2	Integer (See Note)
Description	1	27	4	Integer (See Note)
Visual Stimulus	1	31	1	Integer (See Note)
Distance of Disturbance to Geese	1	32	4	Integer (Horiz'l; m)
Direction to Geese	1	36	1	Integer (See Note)
Duration of Disturbance	1	37	2	Integer (Minutes)

No. No Reaction	1	39	3	Integer
Proportion No Reaction	1	42	4	Real (X.XX)
No. Alert	1	46	3	Integer
Prop. Alert	1	49	4	Real (X.XX)
No. Walking	1	53	3	Integer
Prop. Walking	1	56	4	Real (X.XX)
No. Swimming	1	60	3	Integer
Prop. Swimming	1	63	4	Real (X.XX)
No. Running	1	67	3	Integer
Prop. Running	1	70	4	Real (X.XX)
No. Wing Flapping	1	74	3	Integer
Prop. Wing Flapping	1	77	4	Real (X.XX)
No. Flying	1	81	3	Integer
Prop. Flying	1	84	4	Real (X.XX)
Distance Moved	1	88	4	Integer (m)
Flight Path	1	92	1	Integer (See Note)
Comments	2	1	80	Alpha

This file contains 572 records.

File Name: NEST86.DAT

1986 Snow Goose nesting data.

Parameter	Line No	Start Column	Number of Columns	Format
Observer	1	1	1	Integer
Date	1	2	3	Integer (Jan. 1 = 1)
Observation Period	1	5	3	Integer
Status	1	8	1	Integer (See Note)
Temperature	1	9	2	Integer (Degrees C)
Wind Speed	1	11	2	Integer (Miles/Hour)
Wind Direction	1	13	1	Integer (See Note)
Nest Number	1	14	2	Integer
Collar Status	1	16	1	Integer (See Note)
Time	1	17	4	Integer (Local Time)
Male Behavior	1	21	1	Integer (See Note)
Female Behavior	1	22	1	Integer (See Note)
Offnest	1	23	1	Integer (See Note)
Disturbance	1	24	1	Integer (0=no;1=yes)

This file contains 34,897 records.

#### VARIABLE CODING NOTES

Collar Status: 1 = Both Birds Collared  
2 = Female Only Collared  
3 = No Collars  
4 = Unknown

Description: dependent on Disturbance Type value;  
if Disturbance Type = Description =  
34 Fixed-wing Aircraft . . . . . Altitude (Feet)  
35 Helicopter . . . . . Altitude (Feet)

36 Jet Aircraft . . . . . Altitude (Feet)  
58 Predators . . . . . 0001 = Glaucous Gull  
0002 = Snowy Owl  
0003 = Parasitic Jaeger  
0004 = Short-eared Owl  
0005 = Arctic Fox  
0006 = Golden Eagle  
All Other Values . . . . . No Entry

Direction to Geese: as Wind Direction, with  
(from Disturbance) 0 = Unknown  
9 = Down

Disturbance Type: 21 = Heavy Truck  
22 = Light Truck  
23 = Maintenance Vehicle  
34 = Fixed-wing Aircraft  
35 = Helicopter  
36 = Jet Aircraft  
47 = Humans  
58 = Predators  
69 = Blasting  
70 = Tundra Swans  
99 = Unknown or Other

Female Behavior: 1 = Feeding  
2 = Resting  
3 = Comfort Movements  
4 = Social Interactions  
5 = Interspecific Aggression  
6 = Alert  
7 = Walking  
8 = Running  
9 = Flying

Flight Path: 1 = Directly Over Causeway/Road  
(of Aircraft) 2 = Parallel and East of Causeway  
3 = Over Delta West and North of Road  
4 = Within 1000 m of Howe Island  
5 = West of Sag Delta and Howe Island (Heald Point area)  
6 = Directly Over Howe Island  
7 = North of Howe Island Over Water (greater than 1000 m from Howe Island)  
9 = Unknown

Location: 1 = Howe Island  
(of Snow Geese) 2 = Brood-rearing Area (BRA) 1  
3 = BRA2  
4 = BRA3

Male Behavior: see Female Behavior

Offnest: 0 = On  
1 = Off  
9 = Unknown

Status: 1 = Nest Initiation  
2 = Early Incubation  
3 = Mid-incubation  
4 = Hatch and Early Dispersal  
5 = Early Brood-rearing  
6 = Mid-brood-rearing

Traffic: 0 = No Euclids; Other Heavy Trucks Less Than 10 per 30 Minutes  
 1 = Traffic Break  
 2 = Euclid Startup  
 3 = Euclids in Sag Delta Only  
 4 = Euclids Turning Around at Mile 8.5 of Endicott Road  
 5 = Euclids Travelling to Greater Than or = Mile 9.0 of Endicott Road  
 6 = as 5, with Wind Blowing From West

Visual Stimulus: 1 = Positive  
 2 = Probable  
 3 = Unlikely  
 4 = None  
 5 = Unknown

Wind Direction: 1 = North  
 2 = Northeast  
 3 = East  
 4 = Southeast  
 5 = South  
 6 = Southwest  
 7 = West  
 8 = Northwest

\*\*\*\*\*  
 \* FISH HABITAT \*  
 \*\*\*\*\*

File Name: DROPHAB86.DAT

Contains the drop net information collected by the active sampling program in 1986.

VARIABLE	START COLUMN	END COLUMN	FORMAT	VARIABLE DESCRIPTION
PROGRAM	1	1	A1	Always "D"
SAMPLING METHOD	3	3	A1	S=Seine t=Tow net
HAUL	4	5	A2	Sampling Location
DATE (DMY)	7	12	I6	Sampling Date
DAY	7	8	I2	Sampling Day
MONTH	9	10	I2	Sampling Month
YEAR	11	12	I2	Sampling Year
TIME	14	17	I4	Sampling Time (24 hr. Military Clock, Local Time)
REP	19	19	I1	Replicate Number
SPECIES	23	25	A3	Species Code (See Documentation for STOM86.DAT)
SIZE	27	27	A1	Size Category
NUMBER	29	33	I5	Count of Indicated Item
WEIGHT	35	41	F7.3	Weight in Grams of Indicated Item
LENGTH 1	42	44	I3	LENGTH 1-10 are lengths of subsample of indicated items
LENGTH 2	45	47	I3	
LENGTH 3	48	50	I3	
LENGTH 4	51	53	I3	
LENGTH 5	54	56	I3	
LENGTH 6	57	59	I3	

LENGTH 7	60	62	I3	
LENGTH 8	63	65	I3	
LENGTH 9	66	68	I3	
LENGTH 10	69	71	I3	
MESH	73	76	I4	Mesh used in Drop Net
PERCENT	78	82	F5.1	Percent of Total Sample Represented in Counts and Weights

This file contains 4,898 records.

File Name: HABIT86.DAT

This file contains data collected by the active sampling program during the summer of 1986. Total catch is aggregated by species. Catches of arctic cisco are split into small (less than or equal 100 mm) or large (>100 mm) fish.

VARIABLE	START COLUMN	END COLUMN	FORMAT	VARIABLE DESCRIPTION
DATE (MD)	1	4	I4	Sampling Date
MONTH	1	2	I2	
DAY	3	4	I2	
HAUL	6	7	I2	Haul Number
GEAR	9	9	I1	Gear Type
SPECIES	11	13	A3	Species Code
CATCH	15	17	I3	
BOTTEMP	19	22	F4.1	Bottom Temperature (deg C)
TOPTEMP	24	27	F4.1	Surface Temperature (deg C)
TOPSAL	29	32	F4.1	Surface Salinity (ppt)
BOTSAL	34	37	F4.1	Bottom Salinity (ppt)
DEPTH	40	44	F5.2	Bottom depth (ft.)
VIS	49	53	F5.2	Secchi Depth (m)

This file contains 337 records.

Variable definitions and coding for file HABITAT86.DAT

HAUL  
 Numberis assigned to each set made each day. The file HABFIX86.LOC contains latitude and longitude of each of the hauls.

GEAR  
 1 = shallow round haul seine.  
 2 = deep round haul seine  
 3 = tow net sample

SPECIES  
 FHS - Fourhorn sculpin  
 ACL - Arctic cisco, large (>100 mm)  
 ACS - Arctic cisco, small (<=100 mm)  
 ACR - Arctic char  
 ACD - Arctic cisco  
 FLD - Arctic flounder  
 LSC - Least cisco  
 BWF - Broad whitefish



SML - Rainbow smelt  
SAF - Saffron cod  
SNF - Snailfish

File Name: HABFIX86.LOC

Contains the Habitat station location data.

Parameter	Line No	Start Column	Number of Columns	Format
Date				
Day	1	2	2	Integer
Month	1	4	3	Alpha
Year	1	7	2	Integer
Station number	1	10	2	Integer
Latitude				
Degrees	1	16	3	Real (##.)
Minutes	1	20	6	Real (##.###)
Longitude				
Degrees	1	29	4	Real (###.)
Minutes	1	34	6	Real (##.###)

This file contains 264 records.

```
*****
*                                     *
*                               FISH  *
*                                     *
*****
```

File Name: FYKE86.DAT

Fyke net catch data, 1986 Endicott Environmental Monitoring Program.

VARIABLE	START COLUMN	END COLUMN	FORMAT	VARIABLE DESCRIPTION
MONTH	1	2	I2	Month of Sample
DAY	3	4	I2	Date of Sample
POLY TIME	6	9	I4	Polycorder Time at Which Polycorder Program was Initiated
STATION	11	12	I2	Location of Sample
DIRECTION	14	14	I1	Net Direction
INITIALS	16	18	A3	Initials of Person Taking Sample
METHOD	20	20	I1	Indicates Sample Type
EHR	22	23	I2	Hour Net was Pulled
EMIN	24	25	I2	Minutes Net was Pulled
QUANT	27	27	I1	Indicator of Whether a Sample was Quantitative
SPECIES	29	30	I2	Species Code
LENGTH	32	34	I3	Forklength in MM
NUMBER	36	39	I4	Number Caught and Not Measured
TAGGED	41	41	I1	Indicator of Whether Arctic Cisco were Held for Tagging

RESET 43 46 I4 Time Net was Reset

This file contains 146,133 records.

A description of codings and other pertinent information regarding each variable follows.

MONTH and DAY: Are the date on which a net was pulled and the catch processed.

POLYTIME: Is the time a polycorder program was initiated based on the polycorder's internal clock. This time does not necessarily represent the time the net was pulled or reset, but was included as a method of checking errors in keypunching. This missing value indicator used was 9999.

STATION: Stations numbered 1 through 26 were set in the same locations as stations 1 through 26 during the 1985 Endicott Environmental Monitoring Program. Stations 60 through 69 were added for the 1986 program.

DIRECTION: Nets set with 2 cod ends led north from shore had net directions 1 and 2. Those set from shore with the lead running south were assigned net directions 3 and 4 only. Deep water stations had 4 cod ends and therefore 4 net directions.

INITIALS: This is a 3 character alphanumeric variable of the polycorder operator's initials.

METHOD: Method 1 represents a sample taken after the net had fished over at least one night. Method 2 represents a sample taken after the net had fished 2 to 6 hours. These samples were designed to collect stomach samples. Method 9 indicates the net was being set and had not been fished.

EHR and EMIN: Represent the time a net was pulled using a 24 hour military clock. The missing value indicator used was 99.

QUANT: Indicates the quantitative nature of a sample. A value of 0 indicates it was a valid sample. A value of 1 indicates something occurred which may have affected the catch.

SPECIES: Species codes are defined as:

-1	No Fish
11	Arctic Char
22	Arctic Cisco
33	Broad Whitefish
44	Least Cisco
55	Fourhorn Sculpin
66	Arctic Cod
70	Arctic Flounder
71	Arctic Grayling
72	Big Daddy Sculpin
73	Boreal/Rainbow Smelt
74	Capelin
75	Chinook Salmon
76	Humpback Whitefish
77	Hybrid Cisco
78	Ninespine Stickleback
79	Pacific Herring
80	Pink Salmon
81	Round Whitefish
82	Saffron Cod
83	Sundlance
84	Sheefish
85	Slimy Sculpin
86	Snailfish
87	Blenny

88 Eelpout  
 89 Burbot  
 90 Chum Salmon  
 91 Wolffish  
 92 Greenling  
 93 Starry Flounder  
 94 Prickleback  
 95 3-spine Stickleback  
 99 Missing Value: Either a -1 or a 99 appears in species on the last line of each cod end's data.

LENGTH: Forklength of a fish in millimeters. A length of 0 indicates that no length was taken.

NUMBER: The number of fish of a given species caught but not measured.

NOTE: Lengths were taken from Arctic cisco, least cisco, arctic char, and broad whitefish only. Fifty lengths were taken of the small fish defined as arctic char, least cisco, and broad whitefish under 200 mm and arctic cisco under 100 mm for the period from June 19 through July 23 and Arctic cisco under 150 mm for the period from July 24 through the end of the season. Any value for number other than zero for these four species represents the number of smaller fish not measured. Lengths were taken for all larger fish of these species. A fish with a length of 0 and number 0 represents a fish which escaped or which could not be measured. These fish may have been of any size group.

TAGGED: The variable was to be used as an indication of whether small arctic cisco were held for tagging. This field was not used.

RESET: Indicates the time the net was reset using a 24-hour military clock. The reset time is entered on the last line of a cod end's data. The missing value indicator is 9999. If a net was not reset, the reset time on the last line of data is 9999.

File Name: WATER86.DAT

Water data collected at fyke net stations.

VARIABLE	START COLUMN	END COLUMN	FORMAT	VARIABLE DESCRIPTION
MONTH	2	3	I2	Month Sample was Taken
DAY	4	5	I2	Day Sample was Taken
POLY TIME	7	10	I4	Time Polycorder Program was Initiated
STATION	12	13	I2	Location of Where Measurements were Taken
EHR	15	16	I2	Hour at Which Measurements were Taken
EMIN	17	18	I2	Minute at Which Measurements were Taken
INITIALS	20	22	A3	Initials of Data Recorder
METER	24	28	I5	YSI Meter Number
TOPSAL	30	33	F4.1	Surface Salinity
TOPTEMP	35	38	F4.1	Surface Temperature
BOTSAL	40	43	F4.1	Bottom Salinity
BOTTEMP	45	48	F4.1	Bottom Temperature
WATLEVEL	50	52	F3.1	Water Level (to nearest tenth of a meter)

VARIABLE	START COLUMN	END COLUMN	FORMAT	VARIABLE DESCRIPTION
WAVEHEIGHT	54	56	F3.1	Wave Height (to nearest tenth of a meter)
SECCHI	58	61	F4.1	Secchi Disk Depth in Tenths of Meters (negative readings indicates the secchi dish was visible on the bottom)
CURDIR	63	65	I3	Current Direction
WAVEDIR	67	69	I3	Wave Direction

This file contains 1,805 records.

File Name: WEIGHT86.DAT

Length-Weight data.

VARIABLE	START COLUMN	END COLUMN	FORMAT	VARIABLE DESCRIPTION
PERIOD	2	2	I1	Length-Weight Collection Period
STARTDAT	4	9	I6	Date Period Began
ENDDAT	11	16	I6	Date Period Ended
REGION	18	18	I1	Region of Collection
STA1	20	21	I2	Stations Included in Region
STA2	23	24	I2	Stations Included in Region
STA3	26	27	I2	Stations Included in Region
STA4	29	30	I2	Stations Included in Region
STA5	32	33	I2	Stations Included in Region
LENGTH	35	37	I3	Length of Fish in Millimeters
WEIGHT	39	44	F6.1	Weight of Fish in Grams
SPECIES	46	47	I2	Species Code 11 = Arctic Char 22 = Arctic Cisco 33 = Broad Whitefish 44 = Least Cisco

This file contains 1,343 records.

File Name: TAGREC86.DAT

Tag recovery data.

VARIABLE	START COLUMN	END COLUMN	FORMAT	VARIABLE DESCRIPTION
Station	1	2	I2	Code for Fyke Net
Direction	4	4	I1	Side of Net
Method Recov.	6	6	I1	(not used)
Date of Recov.	8	13	I6	MMDDYY
Time of Recov.	15	18	I4	HHMM
Species	20	21	I2	
Forklength	23	25	I3	millimeters
Mark Applied	27	27	I1	(not used)
Mark Recov.	29	29	A1	Mark Type Recovered
Mark Code	31	40	A10	Actual Code on Fish

This file contains 1,691 records.

Mark Codes are interpreted as follows:

Mark Recovered:

T Floy Tag  
R Ribbon Tag  
B Brand  
F Flourescent Dye  
D Dye-dot

Mark Code: The first 3 characters indicate agency releasing the fish.

WCC Woodward-Clyde Tag or Brand  
LGL LGL Tag or Dye-dot  
BIO BioSonics Tag or Dye-dot  
DFG AK Dept. of Fish and Game Tag  
USF U.S. Fish and Wildlife Service Tag  
ENV Envirosphere Tag, Brand or Dye

Tags: The fourth and fifth characters are either the year of release if printed on the tag or the color of the tag.

RD Red  
YE Yellow  
OR Orange  
PK Pink  
WH White  
GR Green  
BL Blue  
PR Purple  
BR Brown

The last five characters are the tag number itself.

Brands: The fourth and fifth characters are the year of branding. The sixth and seventh are the brand applied. The eight character is the direction of rotation such that:

1 1 degree  
2 90 degrees  
3 180 degrees  
4 270 degrees

The ninth character is L or R for right or left side of fish and the last character represents the location of the brand on the fish where:

A anterior  
D dorsal  
P posterior  
C caudal

Flourescent Dyes: One fluoresent dye was used, and all recoveries are coded as EVR86GREEN.

File Name: AGE86.DAT

Age data read from arctic cisco scales collected from fish caught at fyke net locations.

VARIABLE	START COLUMN	END COLUMN	FORMAT	VARIABLE DESCRIPTION
REGION	1	9	A9	Region of Capture
PERIOD	17	17	I1	Period of Capture
CARD POS	24	26	I3	Card Position
FORKLENGTH	33	35	I3	Length of Fish in MM
RADIUS 1	38	40	I3	Radius to First Annulus
RADIUS 2	43	45	I3	Radius to Second Annulus
RADIUS 3	48	50	I3	Radius to Third Annulus
RADIUS 4	53	55	I3	Radius to fourth Annulus
RADIUS 5	58	60	I3	Radius to Fifth Annulus
RADIUS 6	63	65	I3	Radius to Sixth Annulus
RADIUS 7	68	70	I3	Radius to Seventh Annulus
RADIUS 8	73	75	I3	Radius to Eighth Annulus
MAX RADIUS	78	80	I3	Maximum Scale Radius
SCALE TYPE 1	85	85	I1	Scale Type Indicator
SCALE TYPE 2	90	90	I1	Scale Type Indicator
SCALE TYPE 3	95	95	I1	Scale Type Indicator
AGE	103	104	I2	Age of Fish

This file contains 605 records.

The description of codings regarding each variable follows:

REGION: FOGGY Foggy Island Bay  
SAG Sagavanirktok River delta between Point Brower and Heald Point  
PRUDHOE Prudhoe Bay from the Niakuk Islands to the east side of West Dock  
GWYDYR Gwydyr Bay and Stump Island Lagoon (west of West Dock)

PERIOD: Period 1 20 Jun - 15 Jul  
Period 2 10 Aug - 25 Aug

RADIUS 1-8: Digitized scale radius to each annulus

SCALE TYPE 1, 2, and 3: A 1 was used to indicate that a scale was of type 1, 2, or 3. The fields were left blank if the scale was not of the appropriate type.

Descriptions of scale type are found in the 1986 Endicott Environmental Monitoring Program Reports Part IV, Chapter 4.

File Name: DROP86.DAT

Numbers, weight, and length of species found in drop net samples taken at fyke net locations.

VARIABLE	START COLUMN	END COLUMN	FORMAT	VARIABLE DESCRIPTION
PROGRAM SAMPLING LOCATION INDICATOR	1	1	A1	Always "D"
	3	3	A1	Always "F" for Fyke Net

Variable	Start Column	End Column	Format	Variable Description
STATION	4	5	I2	Sample Location
DATE (DMY)	7	12	I6	Date of Sample
DAY	7	8	I2	Day of Sample
MONTH	9	10	I2	Month of Sample
YEAR	11	12	I2	Year of Sample
TIME	14	17	I4	Time of Sample Collection (24 hour Military Clock, Local Time)
LOCATION	19	21	A3	Location of Sample Collection relative to Fyke Net placement
SPECIES	23	25	A3	Species Found in Sample
SIZE	27	27	A1	Size of Specimen
NUMBER	29	33	I5	Number of Indicated Species and Size Found in Sample
WEIGHT	35	41	F7.3	Weight of Indicated Species and Size Found in Sample
LENGTH 1	42	44	I3	Lengths 1-10 are lengths of a subsample of the indicated species and size included in the total count and weight
LENGTH 2	45	47	I3	
LENGTH 3	48	50	I3	
LENGTH 4	51	53	I3	
LENGTH 5	54	56	I3	
LENGTH 6	57	59	I3	
LENGTH 7	60	62	I3	
LENGTH 8	63	65	I3	
LENGTH 9	66	68	I3	
LENGTH 10	69	71	I3	
MESH	73	76	I4	Mesh size used in drop net gear
PERCENT	78	82	F5.1	Percent of Total Sample included in counts and weights

This file contains 7,223 records.

#### Definition of variables and variable codes:

ID: Code for drop net data.

STATION: Sampling location.

DATE: Date on which sample was taken (DDMMYY).

TIME: Time at which sample was taken (HHMM) 24 hour clock, local.

LOCATION: Sample location relative to the fyke net where the sample was taken:

IN	Inshore
MID	Midway
OUT	Offshore
W	West
E	East

PREY SPECIES: Species or species group of prey. See variable description of STOM86.DAT for codes..

PREY SIZE: Size group of prey, only recorded for certain species:

L	Large
S	Small

COUNT: Number of prey individuals in the sample.

WEIGHT: Total weight in grams of all individuals of this species in the sample.

LENGTH 1 through LENGTH 10: Length in millimeters of an individual prey item. Usually, no lengths taken.

File Name: STOM86.DAT

Stomach content data from stomachs collected at fyke net locations during the 1986 endicott Environmental Monitoring Program.

Variable	Start Column	End Column	Format	Variable Description
PROGRAM	1	1	A1	Always "S"
SAMPLING LOCATION				
INDICATOR	3	3	A1	Always "F" for Fyke Net
STATION	4	5	I2	Sampling location
DIRECTION	6	6	I1	Net Direction, Missing
DATE (DMY)	8	13	I6	Sampling Date
DAY	8	9	I2	Sampling Day
MONTH	10	11	I2	Sampling Month
YEAR	12	13	I2	Sampling Year
TIME	15	18	I4	Sampling Time (24 hr Military clock; Local Time)
FISH SPECIES	20	21	A2	Fish Species from which sample was taken
FISH WEIGHT	23	26	I4	Weight of Fish
FISH LENGTH	28	30	I3	Forklength of Fish
SAMPLE PERIOD	32	32	I1	
SUBSAMPLER	34	35	A2	Method of Subsampling
QUANT CODE	37	37	A1	"N" = Nonquantitative sample
REP	39	39	I1	Replicate Number
PREY SPECIES	41	43	A3	See Attached Code List
PERCENT	45	47	I3	Percent of Subsample Represented in Counts and Weights
SIZE	49	49	A1	Size of Specimens
COUNT	51	55	I5	Number of indicated prey item
WEIGHT	57	63	F7.3	Weight in Grams of indicated prey item
LENGTH 1	64	66	I3	Lengths 1-10 are lengths of subsample of prey items
LENGTH 2	67	69	I3	
LENGTH 3	70	72	I3	
LENGTH 4	73	75	I3	
LENGTH 5	76	78	I3	
LENGTH 6	79	81	I3	
LENGTH 7	82	84	I3	
LENGTH 8	85	87	I3	
LENGTH 9	88	90	I3	
LENGTH 10	91	93	I3	

This file contains records.

#### Definition of variables and variable codes:

ID: Code for stomach data.

STATION: See Figure 1 for station locations.

DATE: Date on which sample was taken (DDMMYY).  
TIME: Time at which sample was taken (HHMM), 24 hour, local clock.

PREDATOR SPECIES: Species of fish from which stomach was taken:

AC Arctic cisco  
BW Broad whitefish  
CH Arctic char  
LC Least cisco

PREDATOR WEIGHT: The weight of the predator in grams.

PREDATOR FORKLENGTH: The forklength of the predator in millimeters.

PERCENT SAMPLED: The percent of the stomach contents which the counts and weights represent.

SUBSAMPLER: Type of instrument used to obtain subsample:

SP stemple pipette subsampler  
NS nishgama splitter

QUANTITATIVE CODE:

Y quantitative sample  
N non-quantitative  
(BLANK) quantitative

PREY SPECIES: Species or species group of prey.

CODE	TAXA
FO	Foraminiferida
NI	Cnidaria
AZ	Anthozoa
	Hydrozoa
HZ	(medusae)
HD	(polyps)
SM	Scyphozoa (medusae)
NM	Nemertinea
	Platyhelminthes
TR	Trematoda
CE	Cestoda
AN	Annelida
PO	Polychaeta
OC	Oligochaeta
HI	Hirudinea
	Mollusca
PE	Pelecypoda
GT	Gastropoda
VE	Veliger larvae
	Arthropoda
	Crustacea
	Branchiopoda
CN	Cladocera
EV	Evadne sp.
OS	Ostracoda
CO	Copepoda
CI	Cirripedia (barnacles, including larval stages)
	Malacostraca
	Mysidacea
	Mysidae
ML	Mysis litoralis
MR	Mysis relicta
MA	Mysis oculata (not yet found in samples)

MU	Mysis sp. (not identified to species)
NR	Neomysis rayii
MF	Mysid fragment
CU	Cumacea
TA	Tanaidacea
IS	Isopoda
AM	Amphipoda
	Atylidae
AT	Atylus carinatus
	Calliopidae
AG	Apherusa glacialis
AS	Apherusa megalops
AU	Apherusa sp.
	Eusiridae
RF	Rozinante fragilis
RH	Rhachotropis sp.
GA	Gammaridae
GL	Gammaracanthus loricatus
GS	Gammarus setosa
GW	Gammarus wilkitzkii
GU	Gammarus sp.
WP	Weyprechtia pinguis
WU	Weyprechtia sp.
	Haustoriidae
PA	Pontoporeia affinis
PF	Pontoporeia femorata
POU	Pontoporeia sp.
PRA	Priscillina armata
LY	Lysianassidae
BA	Boeckosimus affinis
OG	Onisimus glacialis
OL	Onisimus litoralis
ON	Onisimus nansenii
OU	Onisimus sp. and spp.
	Oedicerotidae
AB	Acanthostepheia behringiensis
AI	Acanthostepheia incarinata
ACA	Acanthostepheia sp. and spp.
AL	Aceroides latipes
MS	Monoculodes cf. schneideri
MO	Monoculodes sp. (crassirostris?)
MC	Monoculopsis longicornis
PL	Paroedicerus lynceus
ST	Stenothoidae
HY	Hyperiididae
HP	Hyperia sp.
PT	Parathemisto libellula
PM	Parathemisto abyssorum
PAU	Parathemisto sp.
CP	Caprellidae
AP	amphipod fragment
EU	Euphausiacea
	Decapoda
CL	Reptantia (crab larvae)
SH	Natantia (mostly shrimp larvae)
IN	Insecta
CR	Chironomidae (midges)
AR	Arachnida (spiders and mites)
FR	fragments (mostly crustaceans)
PRI	Priapulida (Halicryptus spinulosus)
PRL	Priapulid larvae
TA	Tardigrada (water bears)
BR	Bryozoa
CG	Chaetognatha (arrow worms)
TU	Chordata
	Ascidiacea (tunicates)

LA	Larvacea
PI	Pisces (fishes)
UN	unknown phylum
	example: unknown A. may be another kind of nemertean, but phylum identification not certain.
NO	no specimen found in sample

Other codes used on Endicott project data sheets:

CODE	VALUE or TAXA
CH	Arctic Char
AC	Arctic Cisco
CD	Arctic Cod
AP	Arctic Flounder
GR	Arctic Grayling
BD	Big Daddy Sculpin
RS	Rainbow/Boreal Smelt
BW	Broad Whitefish
BB	Burbot
CA	Capelin
KS	King Salmon
FH	Four Horned Sculpin
HW	Humpback Whitefish
HC	Hybrid Cisco
LC	Least Cisco
NI	Nine Spine Stickleback
PH	Pacific Herring
PS	Pink Salmon
RW	Round Whitefish
SC	Saffron Cod
SL	Sand Lance
SF	Shee Fish
SS	Slimy Sculpin
SN	Snail Fish

PREY SIZE: Size group of prey, only measured for certain prey species

L Large  
S Small

COUNT: The number of prey individuals in the sample.

PREY WEIGHT: Total weight in grams of all individuals of the species in the sample.

PREY LENGTH 1 through PREY LENGTH 10: Length in millimeters of an individual prey item. Usually, no lengths taken.

LA Larvacea  
 FI Pisces (fishes)  
 UN unknown phylum  
 example: unknown A. may be another kind of nemertean,  
 but phylum identification not certain.  
 NO no specimen found in sample

Version of  
 9 September 1988

ENDICOTT DEVELOPMENT PROJECT  
 ENVIRONMENTAL MONITORING PROGRAM

1987 DATA FILE DESCRIPTIONS

Other codes used on Endicott project data sheets:

CODE	VALUE or TAXA
CH	Arctic Char
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HW	Humpback Whitefish
HC	Hybrid Cisco
LC	Least Cisco
NI	Nine Spine Stickleback
PH	Pacific Herring
PS	Pink Salmon
RW	Round Whitefish
SC	Saffron Cod
SL	Sand Lance
SF	Shree Fish
SS	Slimy Sculpin
SN	Snail Fish

PREY SIZE: Size group of prey, only measured for certain prey species  
 L Large  
 S Small

COUNT: The number of prey individuals in the sample.

PREY WEIGHT: Total weight in grams of all individuals of the species  
 in the sample.

PREY LENGTH 1 through PREY LENGTH 10: Length in millimeters of an  
 individual prey item. Usually, no lengths taken.

This file contains format descriptions for the 1987 Endicott Environmental Monitoring Program data files and other Program data files archived with the 1987 files. Descriptions are arranged by study elements in the following order: Meteorology, River Discharge and Breach, Bathymetry, Sedimentation and Erosion, Oceanography, Hydrography, Drifters, Fish, Fish Overwintering, Snow Goose, and Caribou. Further information on these studies may be obtained in the 1987 Endicott Technical Plan, the 1987 Endicott Procedures Manual, and the 1987 Endicott Environmental Monitoring Program report volumes:

U.S. Army Corps of Engineers. 1988. 1987 Endicott Environmental Monitoring Program. Final Report. Envirosphere Company. Prepared for the District Engineer, Alaska District, Anchorage.

Filename: FORMAT87.TXT

This file; contains documentation for the 1987 Endicott Environmental Monitoring Program data files and other Program data files archived with the 1987 files.

Variable Name	Rec. Type	Format	Variable Description/Comments
DOCUMENTATION	1	A80	Text

This file contains 2,542 records.

```
*****
*
*                                     METEOROLOGY
*
*****
```

Filename: RESOL187.HOR

Hourly meteorological data recorded at Resolution Island. The data are listed sequentially by time.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Always 87
DATE	1	I4	Date of observation (MMDD)
HOUR	1	I2	Hour of observation (local)
AVERAGE WIND SPEED	1	F6.1	meters/sec (-99.9 = missing)
MAXIMUM WIND SPEED	1	F6.1	meters/sec (-99.9 = missing)
WIND DIRECTION	1	F6.1	degrees true north (-99.9 = missing)
TEMPERATURE	1	F6.1	degrees C (-99.9 = missing)
ATMOSPHERIC PRESS.	1	F7.1	millibars (-99.9 = missing)
PRECIPITATION	1	F4.2	millimeters (-0.99 = missing)

This file contains 2,972 records.

Filename: RESOL187.MET

Ten minute meteorological data recorded at Resolution Island.  
The data are listed sequentially by time.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Always 87
DATE	1	I4	Date of observation (MMDD)
TIME	1	I4	Time of observation (HHMM, local)
WIND SPEED	1	F6.1	meters/second (-99.9 = missing)
WIND DIRECTION	1	F6.1	degrees true north (-99.9 = missing)
TEMPERATURE	1	F6.1	degrees C (-99.9 = missing)
ATMOSPHERIC PRESS.	1	F7.1	millibars (-99.9 = missing)
MAXIMUM WIND SPEED	1	F6.1	meters/sec (hourly; -99.9 = missing)
PRECIPITATION	1	F4.2	millimeters (hourly; -0.99 = missing)

This file contains 17,832 records.

\*\*\*\*\*  
\*  
\* RIVER DISCHARGE AND BREACH \*  
\*  
\*\*\*\*\*

Filename: RIVER87.DAT

Sagavanirktok River temperature, stage and discharge data.

Variable Name	Rec. Type	Start Column	Number of Columns	Format
DATE AND TIME				
YEAR	1	1	2	Integer
MONTH	1	3	2	Integer
DAY	1	5	2	Integer
HOURL	1	7	2	Integer
STATION WC/B				
TEMPERATURE (degrees C)	1	10	6	Real ( > -99.9)
STAGE (cm)	1	17	6	Real ( > -99.9)
DISCHARGE (cubic m/s)	1	24	6	Real ( > -99.9)
STATION EC/1				
TEMPERATURE (degrees C)	1	31	6	Real ( > -99.9)
STAGE (cm)	1	38	6	Real ( > -99.9)
DISCHARGE (cubic m/s)	1	45	6	Real ( > -99.9)
STATION EC/2				
DISCHARGE (cubic m/s)	1	52	6	Real ( > -99.9)
STATION EC/3				
TEMPERATURE (degrees C)	1	59	6	Real ( > -99.9)
STAGE (cm)	1	66	6	Real ( > -99.9)
DISCHARGE (cubic m/s)	1	73	6	Real ( > -99.9)

This file contains 2,215 records.

Filename: dymon87R.O\*\*

Sagavanirktok River discharge cross section data where "dymon" is DATE (day &

month), and \*\* is STATION NAME.

Variable Name	Rec. Type	Start Column	Number of Columns	Format
There are 7 header lines in these files with appropriate information for the discharge.				
COSINE OF ANGLE	1	1	5	Real (###.##)
DIST.(m) FROM LEFT-EDGE-OF-WATER	1	7	7	Real (#####.##)
WIDTH (m)	1	15	6	Real (#####.##)
DEPTH (m)	1	22	6	Real (#####.##)
OBSERVATION DEPTH (m)	1	29	3	Real (##.##)
REVOLUTIONS	1	33	4	Real (###.##)
SECONDS	1	38	4	Real (###.##)
VELOCITY (cm/s)	1	43	6	Real (#####.##)
MEAN VELOCITY (cm/s)	1	50	6	Real (#####.##)
ADJUSTED VELOCITY (cm/s)	1	58	6	Real (#####.##)
AREA (sq. m)	1	64	8	Real (#####.##)
DISCHARGE (cu. m/s)	1	73	8	Real (#####.##)

There are 2 footer lines  
in these files.

There are 22 files in this series.

The file 01JUL87R.OE1 contains 61 records.  
The file 01SEP87R.OE1 contains 73 records.  
The file 09JUL87R.OE1 contains 53 records.  
The file 18JUN87R.OE1 contains 61 records.  
The file 29JUL87R.OE1 contains 61 records.  
The file 01JUL87R.OE2 contains 53 records.  
The file 01SEP87R.OE2 contains 61 records.  
The file 09JUL87R.OE2 contains 51 records.  
The file 18JUN87R.OE2 contains 69 records.  
The file 29JUL87R.OE2 contains 53 records.  
The file 01JUL87R.OE3 contains 45 records.  
The file 09JUL87R.OE3 contains 33 records.  
The file 18JUN87R.OE3 contains 39 records.  
The file 27AUG87R.OE3 contains 57 records.  
The file 02JUL87R.OWB contains 73 records.  
The file 03JUN87R.OWB contains 43 records.  
The file 04SEP87R.OWB contains 97 records.  
The file 07JUN87R.OWB contains 51 records.  
The file 10JUN87R.OWB contains 53 records.  
The file 11JUL87R.OWB contains 73 records.  
The file 13JUN87R.OWB contains 61 records.  
The file 31JUL87R.OWB contains 59 records.

Filename: dymon87B.O@&

Breach transport (discharge) and cross section data where "dymon" is DATE (day & month), "@&" is N for north breach or S for south breach, and "&" is B for standard breach transport and cross section data or V for vertical velocity profile in center of breach (80 m from south end of south breach, 30 m from south end of north breach). NOTE: For vertical velocity profile files only, disregard columns labeled as WIDTH, OBSERVATION DEPTH, AREA, and DISCHARGE as they are not used in computing vertical velocity.

Variable Name	Rec. Type	Start Column	Number of Columns	Format
There are 7 header lines in these files with appropriate information for the				



discharge. Note: flow=current direction, wl=water depth (ft) on breach gage.

COSINE OF ANGLE	1	1	5	Real (###.##)
DIST. (m) FROM LEFT-EDGE-OF-WATER	1	7	7	Real (####.##)
WIDTH (m)	1	15	6	Real (####.##)
DEPTH (m)	1	22	6	Real (####.##)
OBSERVATION DEPTH (m)	1	29	3	Real (##.##)
REVOLUTIONS	1	33	4	Real (####.##)
SECONDS	1	38	4	Real (####.##)
VELOCITY (cm/s)	1	43	6	Real (####.##)
MEAN VELOCITY (cm/s)	1	50	6	Real (####.##)
ADJUSTED VELOCITY (cm/s)	1	58	6	Real (####.##)
AREA (sq. m)	1	64	8	Real (#####.##)
DISCHARGE (cu. m/s)	1	73	8	Real (#####.##)

There are 2 footer lines  
in these files.

There are 39 files in this series.

The file 10JUL87B.OSB contains 77 records.  
 The file 17JUL87B.OSB contains 53 records.  
 The file 26AUG87B.OSB contains 33 records.  
 The file 25JUL87B.OSB contains 33 records.  
 The file 27JUL87B.OSB contains 33 records.  
 The file 03AUG87B.OSB contains 33 records.  
 The file 20AUG87B.OSB contains 33 records.  
 The file 21AUG87B.OSB contains 33 records.  
 The file 03SEP87B.OSB contains 33 records.  
 The file 09AUG87B.OSB contains 33 records.  
 The file 07SEP87B.OSB contains 33 records.  
 The file 17JUL87B.ONB contains 29 records.  
 The file 26AUG87B.ONB contains 29 records.  
 The file 03SEP87B.ONB contains 29 records.  
 The file 25JUL87B.ONB contains 29 records.  
 The file 27JUL87B.ONB contains 29 records.  
 The file 03AUG87B.ONB contains 29 records.  
 The file 21AUG87B.ONB contains 29 records.  
 The file 09AUG87B.ONB contains 29 records.  
 The file 07SEP87B.ONB contains 29 records.  
 The file 07SEP87B.OSV contains 27 records.  
 The file 09AUG87B.OSV contains 27 records.  
 The file 03SEP87B.OSV contains 27 records.  
 The file 21AUG87B.OSV contains 27 records.  
 The file 20AUG87B.OSV contains 27 records.  
 The file 03AUG87B.OSV contains 27 records.  
 The file 25JUL87B.OSV contains 27 records.  
 The file 17JUL87B.OSV contains 21 records.  
 The file 27JUL87B.OSV contains 27 records.  
 The file 26AUG87B.OSV contains 27 records.  
 The file 26AUG87B.ONV contains 27 records.  
 The file 27JUL87B.ONV contains 27 records.  
 The file 17JUL87B.ONV contains 23 records.  
 The file 25JUL87B.ONV contains 27 records.  
 The file 03AUG87B.ONV contains 27 records.  
 The file 21AUG87B.ONV contains 27 records.  
 The file 03SEP87B.ONV contains 27 records.  
 The file 09AUG87B.ONV contains 27 records.  
 The file 07SEP87B.ONV contains 27 records.

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 \*  
 \* BATHYMETRY \*

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Filename: BATH87.DAT

1987 Bathymetry for Endicott Study Area.

Variable Name	Rec. Type	Start Column	Number of Columns	Format
SEQUENCE NUMBER	1	1	5	Integer
DEPTH (Ft)	1	9	5	Real (###.##)
STATE PLANE (Ft) X	1	18	8	Real (#####.##)
STATE PLANE (Ft) Y	1	29	9	Real (#####.##)
LATITUDE DEGREES	1	43	4	Real (##.##)
LATITUDE MINUTES	1	51	4	Real (##.##)
LATITUDE SECONDS	1	58	4	Real (##.##)
LONGITUDE DEGREES	1	66	5	Real (###.##)
LONGITUDE MINUTES	1	75	4	Real (##.##)
LONGITUDE SECONDS	1	82	4	Real (##.##)

This file contains 2,187 records.

\*\*\*\*\*  
 \*  
 \* SEDIMENTATION & EROSION \*  
 \*  
 \*\*\*\*\*

Filename: STAINFO.TXT

Tabular information on station numbering, as well as methods used, for the 1985 through 1987 Sedimentation & Erosion studies.

Variable Name	Rec. Type	Format	Variable Description/Comments
TEXT	1	A102	Station & method information

This file contains 171 records.

Filename: GRBSED87.DAT

Particle size analysis for sediment grab samples.

Variable Name	Rec. Type	Format	Variable Description/Comments
SAMPLE TYPE	1	A1	Always 'G' for grab sample
DATE	1	A4	Date of sample (M/YY)
BLANK	1	1X	—
SAMPLE ID	1	A5	Sample and replicate identification
SAMPLE DRY MASS	1	F7.2	Mass of grab sample (g)
COARSE FRACTION MASS	1	F7.2	Mass of coarse fraction (g)
PERCENT SAND	1	F6.1	Percent of sample in sand size class
PERCENT SILT	1	F6.1	Percent of sample in silt size class
PERCENT CLAY	1	F6.1	Percent of sample in clay size class
COMMENTS	1	A55	Additional information

This file contains 189 records.

Filename: SEDROD87.DAT

Measurements taken at sediment rods in 1987.

Variable Name	Rec. Type	Format	Variable Description/Comments
STATION	1	A4	Sediment station number
JULY ROD A	1	F6.1	Measured distances from top of rod to sea bottom (cm; ND=No data)
JULY ROD B	1	F6.1	
AUGUST ROD A	1	F6.1	
AUGUST ROD B	1	F6.1	
SEPTEMBER ROD A	1	F6.1	
SEPTEMBER ROD B	1	F6.1	

This file contains 31 records.

Filename: SEDTRP87.DAT

Sediment trap total dry mass and size analysis data for 1987. Traps were installed in July.

Variable Name	Rec. Type	Format	Variable Description/Comments
DATE	1	A4	Date of trap retrieval (M/YY)
BLANK	1	1X	—
SAMPLE ID	1	A5	Sample and replicate identification
STATION	1	A5	Sediment station number
TOTAL DRY MASS	1	F7.2	Mass of sediment in trap (g)
MEAN TOTAL DRY MASS	1	F6.1	Station mean mass in trap (g)
MASS ANALYZED	1	F7.2	Mass of sed. used in size analysis (g)
COARSE FRACTION MASS	1	F7.2	Mass of analyzed coarse fraction (g)
PERCENT SAND	1	F6.1	Percent of sed. in sand size class
MEAN PERCENT SAND	1	F6.1	Station mean sand percent
PERCENT SILT	1	F6.1	Percent of sed. in silt size class
MEAN PERCENT SILT	1	F6.1	Station mean silt percent
PERCENT CLAY	1	F6.1	Percent of sed. in clay size class
MEAN PERCENT CLAY	1	F6.1	Station mean clay percent

This file contains 76 records.

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\* OCEANOGRAPHY \*  
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Filename: instCM##.NDC

Current meter data files, where "inst" is the instrument number, CM denotes current meters, and "##" is the deployment sequence number. Time series measurements of ocean currents utilize NODC format number F015. The data have been smoothed and subsetting.

Variable Name	Record Type	Start Column	Number of Columns	Format/Comments
---------------	-------------	--------------	-------------------	-----------------

MASTER RECORD 1

RECORD TYPE	1	10	1	Always "1"
METER NUMBER	1	11	5	alphanumeric
TEXT	1	16	38	alphanumeric
SEQUENCE NUMBER	1	55	6	alphanumeric
MASTER RECORD 2				
RECORD TYPE	2	10	1	Always "2"
METER NUMBER	2	11	5	alphanumeric
LATITUDE	2	16	7	alphanumeric
(deg, min to hundredths, N)				
LONGITUDE	2	23	8	alphanumeric
(deg, min to hundredths, W)				
DEPTH OF BOTTOM (m)	2	31	5	integer
DEPTH OF CURRENT METER	2	36	5	real (implied dec.)
(m to tenths)				
METER USAGE SEQUENCE NUMBER	2	41	3	integer
NODC CODE	2	44	2	alphanumeric
AXIS ROTATION (deg)	2	46	3	integer
LOCATION NAME	2	49	6	alphanumeric
NUMBER OF DETAIL RECORDS	2	55	6	integer
DETAIL RECORD				
RECORD TYPE	3	10	1	Always "4"
METER NUMBER	3	11	5	alphanumeric
DATE (local)				
YEAR	3	16	2	integer
MONTH	3	18	2	integer
DAY	3	20	2	integer
TIME (local)				
HOURS	3	22	2	integer
MINUTES (to hundredths)	3	24	4	real (implied dec.)
EAST-WEST CURRENT COMPONENT	3	28	6	real (implied dec.)
(U, cm/sec to hundredths)				
NORTH-SOUTH CURRENT COMPONENT	3	34	6	real (implied dec.)
(V, cm/sec to hundredths)				
TEMPERATURE	3	40	5	real (implied dec.)
(deg C to thousandths)				
PRESSURE	3	45	5	real (implied dec.)
(decibars to tenths)				
SALINITY	3	50	5	real (implied dec.)
(ppt to thousandths)				
SEQUENCE NUMBER	3	55	6	integer

There are 47 files in this series.

The file 0009CM01.NDC contains 147 records.  
The file 0010CM01.NDC contains 571 records.  
The file 0010CM02.NDC contains 360 records.  
The file 0625CM01.NDC contains 268 records.  
The file 0625CM02.NDC contains 322 records.  
The file 0625CM03.NDC contains 51 records.  
The file 0627CM01.NDC contains 289 records.  
The file 1048CM01.NDC contains 147 records.  
The file 1798CM01.NDC contains 313 records.  
The file 1798CM02.NDC contains 216 records.  
The file 1967CM01.NDC contains 76 records.  
The file 1967CM02.NDC contains 698 records.  
The file 2120CM01.NDC contains 95 records.  
The file 3189CM01.NDC contains 527 records.  
The file 3189CM02.NDC contains 606 records.  
The file 3350CM02.NDC contains 792 records.  
The file 5004CM01.NDC contains 747 records.  
The file 5004CM02.NDC contains 364 records.  
The file 5091CM01.NDC contains 699 records.  
The file 5091CM02.NDC contains 278 records.  
The file 5102CM01.NDC contains 18 records.  
The file 5127CM01.NDC contains 674 records.

The file 5759CM01.NDC contains 461 records.  
The file 5793CM01.NDC contains 544 records.  
The file 5793CM02.NDC contains 411 records.  
The file 6178CM01.NDC contains 567 records.  
The file 6178CM02.NDC contains 297 records.  
The file 6468CM01.NDC contains 717 records.  
The file 6488CM01.NDC contains 700 records.  
The file 6492CM01.NDC contains 704 records.  
The file 6655CM01.NDC contains 461 records.  
The file 6655CM02.NDC contains 288 records.  
The file 6655CM03.NDC contains 198 records.  
The file 7266CM01.NDC contains 488 records.  
The file 7266CM02.NDC contains 413 records.  
The file 7502CM01.NDC contains 862 records.  
The file 7507CM01.NDC contains 719 records.  
The file 7595CM01.NDC contains 531 records.  
The file 7595CM02.NDC contains 593 records.  
The file 8001CM01.NDC contains 533 records.  
The file 8001CM02.NDC contains 314 records.  
The file 8001CM03.NDC contains 390 records.  
The file 8056CM01.NDC contains 288 records.  
The file 8056CM02.NDC contains 314 records.  
The file 8056CM03.NDC contains 407 records.  
The file 8413CM01.NDC contains 20 records.  
The file 8413CM02.NDC contains 619 records.

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\*  
\* HYDROGRAPHY \*  
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Filename: 1987type.LST

Hydrographic survey data where "type" is the survey type: BRE = breach CTD study, CTD = open water hydrographic study, DRFT = drifter CTD study, and OW = fish overwintering CTD study. The data have been smoothed and subsetting.

Variable Name	Record Type	Start Column	Number of Columns	Format/Comments
MASTER RECORD				
RECORD TYPE	1	2	1	Always 1
STATION NAME	1	4	4	alphanumeric
CAST NUMBER	1	9	2	integer
DATE	1	12	6	integer (YYMMDD)
TIME	1	19	4	integer (HHMM)
LATITUDE	1	24	8	real (DDMM.XX)
HEMISPHERE	1	32	1	alphanumeric (N or S)
LONGITUDE	1	34	8	real (DDMM.XX)
HEMISPHERE	1	42	1	alphanumeric (E or W)
INSTRUMENT NUMBER	1	44	3	integer
TOTAL SCANS	1	48	2	integer
MINIMUM PRESSURE (decibars to tenths)	1	51	5	real (implied dec.)
MAXIMUM PRESSURE (decibars to tenths)	1	57	5	real (implied dec.)
MINIMUM TEMPERATURE (degrees C to tenths)	1	63	5	real (implied dec.)
MAXIMUM TEMPERATURE (degrees C to tenths)	1	69	5	real (implied dec.)
MINIMUM SALINITY	1	75	5	real (implied dec.)

(ppt to tenths)	1	81	5	real (implied dec.)
MAXIMUM SALINITY (ppt to tenths)	1	87	5	real (implied dec.)
MINIMUM SIGMA-T (to tenths)	1	93	5	real (implied dec.)
MAXIMUM SIGMA-T (to tenths)	1	99	2	integer
FATHOMETER DEPTH (ft)	1	102	4	real (implied dec.)
SECCHI DEPTH (m to tenths)	1	102	4	real (implied dec.)
DETAIL RECORD				
RECORD TYPE	2	2	1	Always 2
STATION NAME	2	4	4	alphanumeric
CAST NUMBER	2	9	2	integer
DATE	2	12	6	integer (YYMMDD)
SCAN NUMBER	2	19	2	integer
PRESSURE (decibars to tenths)	2	22	5	real (implied dec.)
TEMPERATURE (degrees C to tenths)	2	28	5	real (implied dec.)
SALINITY (ppt to tenths)	2	34	5	real (implied dec.)
SIGMA-T (to tenths)	2	40	5	real (implied dec.)

There are 4 files in this series.

The file 1987CTD.LST contains 47,401 records.  
The file 1987BRE.LST contains 1,854 records.  
The file 1987DRFT.LST contains 12,054 records.  
The file 1987OW.LST contains 259 records.

\*\*\*\*\*  
\*  
\* DRIFTERS \*  
\*  
\*\*\*\*\*

Filename: SURVssdd.DRF

1987 drifter location files for the Endicott study area, where "ss" is the survey number, and "dd" is the drifter number.

Variable Name	Rec. Type	Start Column	Number of Columns	Format/Comments
MASTER RECORD				
RECORD TYPE	1	10	1	Always "A"
DRIFTER NUMBER	1	11	5	alpha
DRIFTER TYPE	1	16	5	alpha
PRINCIPAL INVESTIGATOR	1	21	15	alpha
AGENCY	1	36	15	alpha
BOAT	1	51	12	alpha
LAUNCH SUMMARY RECORD				
RECORD TYPE	2	10	1	Always "B"
DRIFTER NUMBER	2	11	5	alpha
STARTING LATITUDE	2	16	6	integer (DDMMSS)
HEMISPHERE	2	22	1	alpha (N or S)
STARTING LONGITUDE	2	23	7	integer (DDMMSS)
HEMISPHERE	2	30	1	alpha (E or W)
ENDING LATITUDE	2	31	6	integer (DDMMSS)
HEMISPHERE	2	37	1	alpha (N or S)
ENDING LONGITUDE	2	38	7	integer (DDMMSS)
HEMISPHERE	2	45	1	alpha (E or W)
STARTING DATE	2	46	6	integer (YYMMDD)
STARTING TIME	2	52	4	integer (HHMM)

ENDING DATE	2	56	6	integer (YYMMDD)
ENDING TIME	2	62	4	integer (HHMM)
DRIFTER DEPTH	2	66	4	integer (m)
NUMBER OF FIXES	2	70	4	integer
DETAIL RECORD				
RECORD TYPE	3	10	1	Always "C"
DRIFTER NUMBER	3	11	5	alpha
OBSERVED LATITUDE	3	16	6	integer (DDMMSS)
HEMISPHERE	3	22	1	alpha (N or S)
OBSERVED LONGITUDE	3	23	7	integer (DDDMMSS)
HEMISPHERE	3	30	1	alpha (E or W)
DATE	3	31	6	integer (YYMMDD)
TIME	3	37	4	integer (HHMM)
SEQUENCE NUMBER	3	80	1	integer

There are 45 files in this series.

The file SURV0101.DRF contains 4 records.  
The file SURV0102.DRF contains 3 records.  
The file SURV0103.DRF contains 7 records.  
The file SURV0104.DRF contains 7 records.  
The file SURV0201.DRF contains 9 records.  
The file SURV0203.DRF contains 5 records.  
The file SURV0204.DRF contains 12 records.  
The file SURV0205.DRF contains 11 records.  
The file SURV0206.DRF contains 9 records.  
The file SURV0207.DRF contains 10 records.  
The file SURV023A.DRF contains 5 records.  
The file SURV0301.DRF contains 6 records.  
The file SURV0303.DRF contains 7 records.  
The file SURV0304.DRF contains 7 records.  
The file SURV0305.DRF contains 8 records.  
The file SURV0306.DRF contains 5 records.  
The file SURV0310.DRF contains 5 records.  
The file SURV0401.DRF contains 8 records.  
The file SURV0403.DRF contains 11 records.  
The file SURV0404.DRF contains 8 records.  
The file SURV0405.DRF contains 12 records.  
The file SURV0406.DRF contains 10 records.  
The file SURV0410.DRF contains 3 records.  
The file SURV0501.DRF contains 8 records.  
The file SURV0503.DRF contains 6 records.  
The file SURV0505.DRF contains 7 records.  
The file SURV0506.DRF contains 6 records.  
The file SURV0510.DRF contains 7 records.  
The file SURV054A.DRF contains 3 records.  
The file SURV054B.DRF contains 4 records.  
The file SURV0601.DRF contains 7 records.  
The file SURV0602.DRF contains 8 records.  
The file SURV0603.DRF contains 6 records.  
The file SURV0605.DRF contains 7 records.  
The file SURV0606.DRF contains 7 records.  
The file SURV0608.DRF contains 6 records.  
The file SURV0610.DRF contains 6 records.  
The file SURV0701.DRF contains 5 records.  
The file SURV0702.DRF contains 5 records.  
The file SURV0703.DRF contains 5 records.  
The file SURV0704.DRF contains 5 records.  
The file SURV0705.DRF contains 5 records.  
The file SURV0706.DRF contains 5 records.  
The file SURV0708.DRF contains 5 records.  
The file SURV0710.DRF contains 3 records.

Filename: ddmmyy.ND#

1987 drifter current meter files for the Endicott study area, where "ddmmyy" is the date of deployment, and # is the cast number.

Variable Name	Rec. Type	Start Column	Number of Columns	Format/Comments
MASTER RECORD				
RECORD TYPE	1	1	1	Always "1"
LATITUDE	1	10	6	integer (DDMMSS)
HEMISPHERE	1	16	1	alphanumeric (N or S)
LONGITUDE	1	17	7	integer (DDDMMSS)
HEMISPHERE	1	24	1	alphanumeric (E or W)
LOCATION NAME	1	25	3	alphanumeric
DETAIL RECORD				
RECORD TYPE	2	9	1	Always "2"
YEAR	2	10	2	integer
MONTH	2	12	2	integer
DAY	2	14	2	integer
HOUR	2	16	2	integer
MINUTES	2	18	2	integer
DEPTH (ft to hundredths)	2	20	5	real (implied dec.)
EAST-WEST CURRENT COMPONENT (U, cm/sec to hundredths)	2	25	6	real (implied dec.)
NORTH-SOUTH CURRENT COMP. (V, cm/sec to hundredths)	2	31	6	real (implied dec.)
TEMPERATURE (degrees C to thousandths)	2	37	5	real (implied dec.)
SALINITY (ppt to thousand.)	2	42	5	real (implied dec.)

There are 12 files in this series.

The file 25JUL87.ND1 contains 203 records.  
The file 06AUG87.ND1 contains 198 records.  
The file 20AUG87.ND1 contains 248 records.  
The file 25JUL87.ND2 contains 233 records.  
The file 06AUG87.ND2 contains 172 records.  
The file 20AUG87.ND2 contains 317 records.  
The file 25JUL87.ND3 contains 211 records.  
The file 06AUG87.ND3 contains 172 records.  
The file 06AUG87.ND4 contains 179 records.  
The file 06AUG87.ND5 contains 176 records.  
The file 06AUG87.ND6 contains 174 records.  
The file 06AUG87.ND7 contains 174 records.

```

*****
*                                     *
*                                     FISH
*                                     *
*****

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Filename: FYKE87.DAT

1987 Endicott Program fyke net catch data file, compiled from polycorder dumps and field data sheets.

Variable Name	Rec. Type	Format	Variable Description/Comments
MONTH	1	I2	Month of sample
DAY	1	I2	Day of sample

X1	1	1X	---
POLY TIME	1	I4	Time of Polycorder program start
X2	1	1X	---
STATION	1	I2	Location of net
X3	1	1X	---
DIRECTION	1	I1	Net (codend) direction
X4	1	1X	---
INITIALS	1	A3	Initials of person taking sample
X5	1	1X	---
METHOD	1	I1	1 = regular fyke, 2 = stomach sample
X6	1	1X	---
EHR	1	I2	Hour net was pulled (local time)
EMIN	1	I2	Minute net was pulled
X7	1	1X	---
QUANT CODE	1	I1	Quantitative sample indicator
X8	1	1X	---
SPECIES	1	I2	Species code
X9	1	1X	---
LENGTH	1	I3	Forklength (mm)
NUMBER	1	I5	Number of fish in this record
CONDITION	1	I2	Fate of fish at release
X10	1	1X	---
SHR	1	I2	Hour net was set (local time)
SMIN	1	I2	Minute net was set (local time)

This file contains 107,560 records.

MONTH and DAY: Are the date on which a net was pulled and the catch processed.

POLY TIME: Is the time a polycorder program was initiated based on the polycorder's internal clock. This time does not necessarily represent the time the net was pulled or reset, but was included as a method of checking errors in keypunching. This missing value indicator used was 9999.

STATION: Stations numbered 4 through 29 were set in the same locations as similarly numbered stations during the 1985 and 1986 Endicott Environmental Monitoring Program. Stations 62-67 were in the same location as those added for the 1986 program, while stations 70-72 were added for the 1987 sampling. See Figure 2 of the 1987 Endicott Fish Distribution and Abundance report for station locations.

DIRECTION:

Nets set from shore with lead running north had 2 codends:	<pre>       / \      /   \     /       \    /         \   /           \  /             \ /               \ 1               2 </pre>	Nets set from shore with lead running south had 2 codends:	<pre>       / \      /   \     /       \    /         \   /           \  /             \ /               \ 3               4 </pre>	Nets set in deep water had 4 codends:	<pre>       / \      /   \     /       \    /         \   /           \  /             \ /               \ 1               2 N               N 3               4 </pre>
--	---	--	---	---------------------------------------	---

INITIALS: This is a 3 character alphanumeric variable of the polycorder operator's initials.

METHOD: Method 1 represents a sample taken after the net had fished over at least one night. Method 2 represents a sample taken after the net had fished 2 to 6 hours. These samples were designed to collect stomach samples. Method 9 indicates the net was being set and had not been fished.

EHR and EMIN: Represent the time a net was pulled using a 24 hour military clock. The missing value indicator used was 99.

QUANT CODE: Indicates the quantitative nature of a sample. A value of 0 indicates it was a valid sample. A value of 1 indicates something occurred which may have affected the catch. A value of 9 indicates that the net

was being set.

SPECIES: Species codes are defined as:

-1	= No fish
11	= Arctic char
22	= Arctic cisco
33	= Broad whitefish
44	= Least cisco
55	= Fourhorn sculpin
66	= Arctic cod
70	= Arctic flounder
71	= Arctic grayling
72	= Big daddy sculpin
73	= Boreal/rainbow smelt
74	= Capelin
75	= Chinook salmon
76	= Humpback whitefish
77	= Hybrid cisco
78	= Ninespine stickleback
79	= Pacific herring
80	= Pink salmon
81	= Round whitefish
82	= Saffron cod
83	= Sandlance
84	= Sheefish
85	= Slimy sculpin
86	= Snailfish
87	= Blenny
88	= Eelpout
89	= Burbot
90	= Chum salmon
91	= Wolffish
92	= Greenling
93	= Starry flounder
94	= Prickleback
95	= Threespine stickleback
96	= Smooth lumpsucker
97	= Misc. unidentified sculpin
99	= Missing value: Either a -1 or a 99 appears in species on the last line of each cod end's data.

LENGTH: Forklength of a fish in millimeters. A length of 0 indicates that no length was taken.

NUMBER: The number of fish of a given species caught; if > 1, then fish were not measured.

NOTE: Lengths were taken from Arctic cisco, least cisco, Arctic char, and broad whitefish only. Fifty lengths were taken of the small fish defined as Arctic cisco, least cisco, and broad whitefish under 150 mm and Arctic char under 250 mm. Any value for number other than zero for these four species represents the number of smaller fish not measured. Lengths were taken for all larger fish of these species. A fish with a length of 0 and a number of 0 represents a fish which escaped or which could not be measured. These fish may have been of any size group.

CONDITION: The condition of captured anadromous fish upon release. 0 = not noted, used for nontarget species; 1 = healthy; 2 = dead; 3 = sacrificed for sample; 9 = value on reset lines. Essentially all entries for species other than Arctic char, Arctic cisco, broad whitefish, and least cisco are 0. Zero values for the four target species occurred during subsampling, and represent healthy fish.

SHR and SMIN: Indicates the time the net was reset using a 24-hour military clock. The reset time is entered on the last line of a cod end's data. The missing value indicator is 9999. If a net was not reset, the reset

time on the last line of data for that cod end is 9999.

Filename: WEIGHT87.DAT

1987 Endicott Program fish fyke net studies length-weight data. Data were taken for short periods of time at specific stations, hence the form of the data file.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I4	Always 1987
REGION	1	A10	Region samples collected from
SPECIES	1	I2	Species code, same as FYKE87.DAT
STATION	1	A15	List of stations collected from
DATE	1	I4	Date of collection (DDMM)
PERIOD	1	I1	Collection period
LENGTH	1	I4	Forklength (mm)
WEIGHT	1	F7.1	Fish weight (g)

This file contains 2,318 records.

Filename: TAGREC87.DAT

Recovery data for tags and brands on fish captured during 1987 fyke netting.

Variable Name	Rec. Type	Format	Variable Description/Comments
SPECIES	1	I2	Species code, same as FYKE87.DAT
X1	1	1X	---
DATE	1	I6	Date of recovery (MMDDYY)
X2	1	1X	---
STATION	1	I2	Location of recovery, see FYKE87.DAT
X3	1	1X	---
DIRECTION	1	I1	Net direction, same as FYKE87.DAT
X4	1	1X	---
INITIALS	1	A3	Initials of recorder
X5	1	1X	---
TIME	1	I4	Time of recovery (HHMM), local time
X6	1	1X	---
LENGTH	1	I3	Forklength at recovery (mm)
X7	1	1X	---
TYPE	1	A1	Type of mark recovered
X8	1	1X	---
MARK	1	A10	Actual code on fish or tag

This file contains 666 records.

TYPE:           T = Floy tag  
                R = Ribbon tag  
                B = Brand  
                F = Fluorescent dye  
                D = Dye-dot

MARK: The first three characters indicate agency releasing the fish.

ARC = ARCO tag  
BIO = BioSonics tag or dye-dot  
EVR = Envirosphere tag, brand or dye  
FWS = U.S. Fish and Wildlife Service tag  
LGL = LGL tag or dye-dot  
WCC = Woodward-Clyde tag or brand

Tags: The fourth and fifth characters are either the year of release if printed on the tag or the color of the tag.

RD = Red  
YE = Yellow  
OR = Orange  
PK = Pink  
WH = White  
GR = Green  
BL = Blue  
PR = Purple  
BR = Brown

The last five characters are the tag number itself.

Brands: The fourth and fifth characters are the year of branding.

The sixth and seventh are the brand applied.

The eighth character is the direction of rotation such that:

1 = 1 degree  
2 = 90 degrees  
3 = 180 degrees  
4 = 270 degrees

The ninth character is L or R for right or left side of fish.

The tenth character represents the location of the brand on the fish where:

A = Anterior  
D = Dorsal  
P = Posterior  
C = Caudal

Flourescent Dye: A flourescent green dye was used by Envirosphere in 1986.

An occasional fish appeared green to the unaided eye (no black-light) in 1987, and these were coded as EVR86GREEN.

Filename: WATER87.DAT

Water data collected at fyke net stations as part of fyke program.

Variable Name	Rec. Type	Format	Variable Description/Comments
X1	1	1X	---
DATE	1	I4	Date of sample (MMDD)
X2	1	1X	---
POLY TIME	1	I4	Time Polycorder program initiated
X3	1	1X	---
STATION	1	I2	Fyke net station where data taken
X4	1	1X	---
TIME	1	I4	Time at which measurements taken
X5	1	1X	---
INITIALS	1	A3	Initials of data recorder
X6	1	1X	---
METER NUMBER	1	I5	YSI meter number
X7	1	1X	---
SURFACE SALINITY	1	F4.1	ppt
X8	1	1X	---
SURFACE TEMPERATURE	1	F4.1	Degrees C
X9	1	1X	---
BOTTOM SALINITY	1	F4.1	ppt
X10	1	1X	---
BOTTOM TEMPERATURE	1	F4.1	Degrees C
X11	1	1X	---
WATER LEVEL	1	F3.1	Water depth at sample point (m)
X12	1	1X	---
WAVE HEIGHT	1	F3.1	meters
X13	1	1X	---
SECCHI DEPTH	1	F4.1	Reading <0 indicate disk on bottom (m)

X14	1	1X	---
CURRENT DIRECTION	1	I3	Degrees magnetic north
X15	1	1X	---
LOCATION	1	I1	1=seaward end of net, 2=shoreward end

This file contains 1,652 records.

Filename: AGE87.DAT

1987 scale-based age data for Arctic cisco collected as part of the fyke net program. Period 2 scales were not digitized, hence no RADIUS or BACK values.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Year of capture (always 87)
PERIOD	1	I1	Scale sampling period
REGION	1	A10	Region of capture
AGE	1	I2	Age of fish (years)
LENGTH	1	I3	Forklength of fish (mm)
RADIUS 1	1	I3	Digitized radial measurements to each scale annulus. The last measurement is to edge of scale.
RADIUS 2	1	I3	
RADIUS 3	1	I3	
RADIUS 4	1	I3	
RADIUS 5	1	I3	
RADIUS 6	1	I3	
RADIUS 7	1	I3	
RADIUS 8	1	I3	
RADIUS 9	1	I3	
RADIUS 10	1	I3	
RADIUS 11	1	I3	
RADIUS 12	1	I3	
SCALE TYPE 1	1	I5	Scale type codes
SCALE TYPE 2	1	I5	
SCALE TYPE 3	1	I5	
BACK 1	1	I5	Back-calculated age at length (calculated as length at start of year)
BACK 2	1	I5	
BACK 3	1	I5	
BACK 4	1	I5	
BACK 5	1	I5	
BACK 6	1	I5	
BACK 7	1	I5	
BACK 8	1	I5	
BACK 9	1	I5	
BACK 10	1	I5	
BACK 11	1	I5	

This file contains 850 records.

PERIOD: Period 1 = 18 June to 25 July  
 Period 2 = 26 July to 8 August  
 Period 3 = 19 August to 15 September

REGION:	Period	Region	Stations (west to east)
	1	OLIKTOK	28,29
	1	ENDICOTT	65,11,8,63,62,6,4
	2	GWYDYR	22,72
	2	PRUDHOE	19,18,16
	2	NIAKUK	67,15
	2	W ENDICOTT	66,65,11,63,62
	2	E ENDICOTT	8,6,5,4,70
	3	OLIKTOK	28,29
	3	ENDICOTT	66,65,11,8,71,63,62,6,5,4,70

SCALE TYPE 1, 2, and 3: A '1' was used to indicate that a scale was of Type 1, 2, or 3. The fields are all '0' if the scale did not match any of the appropriate types.

Filename: AGE85.ADD

Back-calculated 1985 Period 2 scale-based age data for Arctic cisco; analyzed as part of the 1987 program.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Year of capture (always 85)
PERIOD	1	I1	Scale sampling period (always 2)
REGION	1	A10	Region of capture
AGE	1	I2	Age of fish (years)
LENGTH	1	I3	Forklength of fish (mm)
RADIUS 1	1	I3	Digitized radial measurements to each scale annulus. The last measurement is to edge of scale.
RADIUS 2	1	I3	
RADIUS 3	1	I3	
RADIUS 4	1	I3	
RADIUS 5	1	I3	
RADIUS 6	1	I3	
RADIUS 7	1	I3	
RADIUS 8	1	I3	
RADIUS 9	1	I3	
RADIUS 10	1	I3	
RADIUS 11	1	I3	
RADIUS 12	1	I3	
SCALE TYPE 1	1	I5	Scale type codes
SCALE TYPE 2	1	I5	
SCALE TYPE 3	1	I5	
BACK 1	1	I5	Back-calculated age at length (calculated as length at start of year)
BACK 2	1	I5	
BACK 3	1	I5	
BACK 4	1	I5	
BACK 5	1	I5	
BACK 6	1	I5	
BACK 7	1	I5	
BACK 8	1	I5	
BACK 9	1	I5	
BACK 10	1	I5	
BACK 11	1	I5	

This file 326 contains records.

PERIOD: Period 2 = 19 August to 15 September

REGION:	Region	Stations (west to east)
	OLIKTOK	29,28,30
	GWYDYR	26,25,24,23,22,21,20
	WEST DOCK	19,18,17
	EAST DOCK	16
	ENDICOTT	13,12,11,10,9,8,7,6,5,4

SCALE TYPE 1, 2, and 3: A '1' was used to indicate that a scale was of Type 1, 2, or 3. The fields are all '0' if the scale did not match any of the appropriate types.

Filename: STOM87.DAT

Stomach content data from stomachs collected at fyke net stations during the 1987 Endicott fish program.

Variable Name	Rec. Type	Format	Variable Description/Comments
DAY	1	I2	Sample day
MONTH	1	I2	Sample month
YEAR	1	I2	Sample year
INDICATOR	1	A1	Always "F" for fyke net
STATION	1	I2	Fyke net station number
PREDATOR SPECIES	1	A2	Species mnemonic for fish sampled
PROGRAM	1	A1	Always "S" for stomach
DIRECTION	1	I1	Net direction
TIME	1	I4	Time of sample (local time)
PREDATOR MASS	1	I4	Mass of fish sampled (g)
PREDATOR LENGTH	1	I3	Forklength of fish sampled (mm)
FULLNESS	1	I1	Code for stomach fullness
SUBSAMPLER	1	A2	Type of subsampler used
QUANT CODE	1	A1	Quantitative sample code
REPLICATE	1	A1	Sample replicate
PREY SPECIES	1	A3	Species mnemonic for prey species
PERCENT	1	I3	Percent volume of prey sampled
SIZE	1	A1	Size of specimen
COUNT	1	I5	Number of indicated prey items
PREY MASS	1	F6.3	Wet mass of prey items (g)
LENGTH 1	1	I2	Lengths (mm) of individual prey items. Usually, no lengths were taken.
LENGTH 2	1	I2	
LENGTH 3	1	I2	
LENGTH 4	1	I2	
LENGTH 5	1	I2	
LENGTH 6	1	I2	
LENGTH 7	1	I2	
LENGTH 8	1	I2	
LENGTH 9	1	I2	
LENGTH 10	1	I2	

This file contains 1,165 records.

STATION: see STATIONS in FYKE87

PREDATOR SPECIES: Species of fish from which stomach was taken:

AC = Arctic cisco  
 BW = Broad whitefish  
 CH = Arctic char  
 LC = Least cisco

DIRECTION: see DIRECTION in FYKE87

FULLNESS: 0 = Empty  
 1 = Trace  
 2 = Less than half full  
 3 = More than half full  
 4 = Full  
 5 = Distended

SUBSAMPLER: Type of instrument used to obtain subsample:

SP = Stemple pipette subsampler  
 NS = Nishgama splitter

QUANT CODE: Y = Quantitative sample  
 N = Non-quantitative sample  
 blank = Quantitative sample

PERCENT: The percent of the stomach contents for that taxon which the counts

and masses represent.

PREY SPECIES: Species or species group of prey:

Protozoa  
 Rhizopodea  
 FO = Foraminiferida  
 NI = Cnidaria  
 AZ = Anthozoa  
 Hydrozoa  
 HZ = (medusae)  
 HD = (polyps)  
 SM = Scyphozoa (medusae)  
 NM = Nemertinea  
 Platyhelminthes  
 TR = Trematoda  
 CE = Cestoda  
 NE = Nematoda  
 AN = Annelida  
 PO = Polychaeta  
 OC = Oligochaeta  
 HI = Hirudinea  
 Mollusca  
 PE = Pelecypoda  
 GT = Gastropoda  
 VE = Veliger larvae  
 Arthropoda  
 Crustacea  
 Branchiopoda  
 Notostraca  
 CN = Cladocera  
 EV = Evadne sp.  
 OS = Ostracoda  
 CO = Copepoda  
 CI = Cirripedia (barnacles, including larval stages)  
 Malacostraca  
 Mysidacea  
 Mysidae  
 ML = Mysis litoralis  
 MR = Mysis relicta  
 MA = Mysis oculata (not yet found in samples)  
 MU = Mysis sp. (not identified to species)  
 NR = Neomysis rayii  
 MF = Mysid fragment  
 CU = Cumacea  
 TA = Tanaidacea  
 IS = Isopoda  
 FE = eggs (possibly Isopod eggs)  
 AM = Amphipoda  
 Atylidae  
 AT = Atylus carinatus  
 Calliopidae  
 AG = Apherusa glacialis  
 AS = Apherusa megalops  
 AU = Apherusa sp.  
 Eusiridae  
 RF = Rozinante fragilis  
 RH = Rhachotropis sp.  
 Gammaridae  
 GA = Gammaracanthus loricatus  
 GL = Gammarus setosa  
 GS = Gammarus wilkitzkii  
 GU = Gammarus sp.  
 WP = Weyprechtia pinguis  
 WU = Weyprechtia sp.  
 Haustoriidae



PA = Pontoporeia affinis  
 PF = Pontoporeia femorata  
 POU = Pontoporeia sp.  
 PRA = Priscillina armata  
 LY = Lysianassidae  
 BA = Boeckosimus affinis  
 OG = Onisimus glacialis  
 OL = Onisimus litoralis  
 ON = Onisimus nansenii  
 OU = Onisimus sp. and spp.  
     Oedicerotidae  
 AB = Acanthostephea behringiensis  
 AI = Acanthostephea incarinata  
 ACA = Acanthostephea sp. and spp.  
 AL = Aceroides latipes  
 MS = Monoculodes cf. schneideri  
 MO = Monoculodes sp. (crassirostris?)  
 MC = Monoculopsis longicornis  
 PL = Paroediceros lynceus  
 ST = Stenothoidae  
 HY = Hyperiidae  
 HP = Hyperia sp.  
 PT = Parathemisto libellula  
 PM = Parathemisto abyssorum  
 PAU = Parathemisto sp.  
 CP = Caprellidae  
 AP = amphipod fragment  
 EU = Euphausiacea  
     Decapoda  
 CL = Reptantia (crab larvae)  
 SH = Natantia (mostly shrimp larvae)  
 FR = fragments (mostly crustaceans)  
 IN = Insecta  
 CR = Chironomidae (midges)  
 AR = Arachnida (spiders and mites)  
 PRI = Priapulida (Halicryptus spinulosus)  
 PRL = Priapulid larvae  
 TA = Tardigrada (water bears)  
 BR = Bryozoa  
 CG = Chaetognatha (arrow worms)  
     Chordata  
 TU = Ascidiacea (tunicates)  
 LA = Larvacea  
 FI = Pisces (fishes)  
 UN = unknown phylum  
     example: unknown A. may be another kind of  
             nemertean, but phylum identification not certain.  
 NO = no specimen found in sample

Other codes used on Endicott project data sheets:

CH = Arctic char  
 AC = Arctic cisco  
 CD = Arctic cod  
 AF = Arctic flounder  
 GR = Arctic grayling  
 BD = Big daddy sculpin  
 RS = Rainbow/boreal smelt  
 BW = Broad whitefish  
 BB = Burbot  
 CA = Capelin  
 KS = King salmon  
 FH = Four horned sculpin  
 HW = Humpback whitefish  
 HC = Hybrid cisco  
 LC = Least cisco  
 NI = Ninespine stickleback

PH = Pacific herring  
 PS = Pink salmon  
 RW = Round whitefish  
 SC = Saffron cod  
 SL = Sandlance  
 SF = Sheefish  
 SS = Slimy sculpin  
 SN = Snailfish

SIZE: Size group of prey, only measured for certain prey species

L = Large  
 S = Small

COUNT: The number of prey individuals in the sample.

PREY MASS: Total weight in grams of all individuals of the species in the sample.

LENGTH 1 through LENGTH 10: Length in millimeters of an individual prey item. Usually, no lengths were taken.

Filename: DROP87.DAT

Numbers, masses, and lengths of species found in drop net samples taken at fyke net stations as part of the 1987 Endicott fish program.

Variable Name	Rec.	Type	Format	Variable Description/Comments
YEAR	1		I2	Sample year
MONTH	1		I2	Sample month
DAY	1		I2	Sample day
INDICATOR	1		A1	Always "F" for fyke net
STATION	1		I2	Fyke net station number
LOCATION	1		A3	Relation of sample site to fyke net
REPLICATE	1		I1	Sample replicate
MESH	1		I4	Mesh size of net (micrometers)
PROGRAM	1		A1	Always "D" for drop net
PREY SPECIES	1		A3	Species mnemonic for prey species
SIZE	1		A1	Size of specimen
TIME	1		I4	Time of sample (local time)
SUBSAMPLER	1		A2	Type of subsampler used
COUNT	1		I5	Number of indicated prey items
PREY MASS	1		F8.3	Wet mass of prey items (g)
PERCENT	1		I3	Percent volume of prey sampled
LENGTH 1	1		I2	Lengths (mm) of individual prey items. Usually, no lengths were taken.
LENGTH 2	1		I2	
LENGTH 3	1		I2	
LENGTH 4	1		I2	
LENGTH 5	1		I2	
LENGTH 6	1		I2	
LENGTH 7	1		I2	
LENGTH 8	1		I2	
LENGTH 9	1		I2	
LENGTH 10	1		I2	

This file contains 5,886 records.

STATION: see FYKE87.DAT

LOCATION: Sample location relative to the fyke net where the sample was taken:  
             IN = Inshore  
             MID = Midway  
             OUT = Offshore

W = West  
E = East

PREY SPECIES: see STOM87.DAT  
SIZE: see STOM87.DAT  
SUBSAMPLER: see STOM87.DAT  
COUNT: see STOM87.DAT  
PREY MASS: see STOM87.DAT

LENGTH 1 through LENGTH 10: see STOM87.DAT

Filename: DROP87AD.DAT

Numbers, masses, and lengths of species found in special assessment drop net samples taken at fyke net stations as part of the 1987 Endicott fish program.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Sample year
MONTH	1	I2	Sample month
DAY	1	I2	Sample day
INDICATOR	1	A1	Always "F" for fyke net
STATION	1	I2	Fyke net station number
REPLICATE	1	A5	Sample replicate
MESH	1	I4	Mesh size of net (micrometers)
PROGRAM	1	A1	Always "D" for drop net
PREY SPECIES	1	A3	Species mnemonic for prey species
SIZE	1	A1	Size of specimen
TIME	1	I4	Time of sample (local time)
SUBSAMPLER	1	A2	Type of subsampler used
COUNT	1	I5	Number of indicated prey items
PREY MASS	1	F7.3	Wet mass of prey items (g)
PERCENT	1	I3	Percent volume of prey sampled
LENGTH 1	1	I2	Lengths (mm) of individual prey items. Usually, no lengths were taken.
LENGTH 2	1	I2	
LENGTH 3	1	I2	
LENGTH 4	1	I2	
LENGTH 5	1	I2	
LENGTH 6	1	I2	
LENGTH 7	1	I2	
LENGTH 8	1	I2	
LENGTH 9	1	I2	
LENGTH 10	1	I2	

This file contains 259 records.

STATION: see FYKE87.DAT  
PREY SPECIES: see STOM87.DAT  
SIZE: see STOM87.DAT  
SUBSAMPLER: see STOM87.DAT  
COUNT: see STOM87.DAT  
PREY MASS: see STOM87.DAT  
LENGTH 1 through LENGTH 10: see STOM87.DAT

Filename: DROP87GR.DAT

Numbers, masses, and lengths of species found in gear assessment drop net samples taken at fyke net stations as part of the 1987 Endicott fish program.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Sample year
MONTH	1	I2	Sample month
DAY	1	I2	Sample day
INDICATOR	1	A1	Always "F" for fyke net
GEAR TYPE	1	A1	Type of gear used for test
REPLICATE	1	I1	Test replicate
X1	1	5X	
MESH	1	I4	Mesh size of net (micrometers)
PROGRAM	1	A1	Always "D" for drop net
PREY SPECIES	1	A3	Species mnemonic for prey species
SIZE	1	A1	Size of specimen
TIME	1	I4	Time of sample (local time)
SUBSAMPLER	1	A2	Type of subsampler used
COUNT	1	I5	Number of indicated prey items
PREY MASS	1	F7.3	Wet mass of prey items (g)
PERCENT	1	I3	Percent volume of prey sampled
LENGTH 1	1	I2	Lengths (mm) of individual prey items. Usually, no lengths were taken.
LENGTH 2	1	I2	
LENGTH 3	1	I2	
LENGTH 4	1	I2	
LENGTH 5	1	I2	
LENGTH 6	1	I2	
LENGTH 7	1	I2	
LENGTH 8	1	I2	
LENGTH 9	1	I2	
LENGTH 10	1	I2	

This file contains 150 records.

GEAR TYPE: B = Epibenthic sledge  
D = Drop net  
H = 0.5 m Plankton net  
N = Neuston net

PREY SPECIES: see STOM87.DAT  
SIZE: see STOM87.DAT  
SUBSAMPLER: see STOM87.DAT  
COUNT: see STOM87.DAT  
PREY MASS: see STOM87.DAT

LENGTH 1 through LENGTH 10: see STOM87.DAT

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\* FISH OVERWINTERING \*  
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Filename: CONFstnn.DAT

1988 Endicott Overwintering Program continuous water quality monitoring data from sensors in place throughout the winter, where "stnn" stands for overwintering station number.

Variable Name	Rec. Type	Format	Variable Description/Comments
DATE	1	I6	Date of sample (MMDDYY)
X1	1	1X	---
TIME	1	I4	Time of sample (HHMM, 24 hr. local)
TEMPERATURE	1	F7.3	Water temperature (degrees C)
DISSOLVED OXYGEN	1	F7.3	ppm
SALINITY	1	F7.3	ppt

There are 3 files in this series.

The file CONTEC10.DAT contains 1,007 records.  
The file CONTWC05.DAT contains 677 records.  
The file CONTWC08.DAT contains 970 records.

Filename: DISCWAQL.DAT

Discrete water quality measurements taken as part of the 1988 Overwintering Program. Measurements were taken during November and December, 1987, and February and April, 1988.

Variable Name	Rec. Type	Format	Variable Description/Comments
STATION	1	A4	Overwintering station number
X1	1	1X	---
DATE	1	A8	Date of sample (MM/DD/YY)
X2	1	1X	---
TIME	1	I4	Time of sample (HHMM, 24 hr. local)
SAMPLE DEPTH	1	F6.1	Depth sample taken (from top of ice, m)
TEMPERATURE	1	F6.1	Water temp. (deg. C, -99.9 missing)
SALINITY	1	F6.1	ppt (-99.9 missing)
DISSOLVED OXYGEN	1	F8.2	ppm (see note below, -99.9 missing)
ICE THICKNESS	1	F6.1	meters (-99.0 missing)
BOTTOM DEPTH	1	F6.1	Depth to bottom (from top of ice, m)

This file contains 379 records.

STATION: see figure in the 1987 Endicott Environmental Monitoring Program Fish Overwintering report for locations of sampling locations.

DISSOLVED OXYGEN: Nonstandard characters are present in this field. Questionable values are preceeded by an asterisk (\*), and values greater than 20 ppm are represented by use of a greater than sign (>).

Filename: DIVEFISH.DAT

Observations and measurements taken during diving surveys conducted as part of the 1988 Overwintering Program.

Variable Name	Rec. Type	Format	Variable Description/Comments
DATE	1	I6	Date of dive (MMDDYY)
X1	1	1X	---

Variable Name	Rec. Type	Format	Variable Description/Comments
START TIME	1	I4	Time transect began (HHMM, 24 hr local)
X2	1	1X	---
END TIME	1	I4	Time transect ended (HHMM, 24 hr local)
X3	1	1X	---
STATION	1	A4	Overwintering station number
TRANSECT NUMBER	1	I2	Number for that station & date
LENGTH	1	I3	Length of transect (m)
BEARING	1	I4	Out along transect (degrees magnetic)
SUBSTRATE	1	A9	Bottom material(s)
VISIBILITY	1	I2	Underwater visibility code
VIDEO TAPE RECORDED	1	A2	Y=yes, N=no
SPECIES	1	I3	Fish species code (see FYKE87.DAT)
NUMBER	1	I4	Number of fish of that species
SIZE	1	A2	Size of fish observed
IN/OUT	1	A4	Obs. fish in or out of transect bound.
DEPTH	1	F4.1	meters
X4	1	1X	---
COMMENTS	1	A137	Additional observations

This file contains 58 records.

STATION: see DISCWAQL.DAT

SUBSTRATE:

- CO = Concrete bage
- DE = Detritus
- GR = Gravel
- IC = Ice
- MU = Mud
- PE = Peat
- SA = Sand
- SI = Silt

VISIBILITY:

- 0 = 0 m
- 1 = 0-1 m
- 2 = 1-2 m
- 3 = 2-3 m
- 4 = 3-5 m
- 5 = >5 m

SPECIES: see FYKE87.DAT

SIZE:

- S = <100 mm
- M = 100-200 mm
- L = >200 mm
- A = Adult
- J = Juvenile

Filename: FYKESP88.DAT

1988 Endicott Overwintering Program fyke net catch data file, compiled from polycorder dumps and field data sheets.

Variable Name	Rec. Type	Format	Variable Description/Comments
REGION	1	A3	COLville or SAGavanirktok River delta
STATION	1	I3	Location of net
DIR	1	I2	Net (codend) direction
X1	1	1X	---
START DATE	1	I6	Date net was set (MMDDYY)
X2	1	1X	---
SHR	1	I2	Hour net was set (local time)
SMIN	1	I2	Minute net was set (local time)
X3	1	1X	---

END DATE	1	I6	Date net was pulled (MMDDYY)
X4	1	1X	---
EHR	1	I2	Hour net was pulled (local time)
EMIN	1	I2	Minute net was pulled (local time)
SPECIES	1	I3	Species code
LENGTH	1	I4	Forklength (mm)
NUMBER	1	I5	Number of fish in this record

This file contains 2,930 records.

See FYKE87.DAT for explanations of variable coding.

Filename: WATRSP88.DAT

Water data collected at fyke net stations, after breakup, as part of the Endicott Overwintering program.

Variable Name	Rec. Type	Format	Variable Description/Comments
DATE	1	I4	Date of sample (MMDD)
STATION	1	I3	Fyke net station where data taken
X1	1	1X	---
TIME	1	I4	Time at which measurements were taken
INITIALS	1	A4	Initials of person taking measurements
SURFACE SALINITY	1	F5.1	ppt
SURFACE TEMPERATURE	1	F6.1	Degrees C
BOTTOM SALINITY	1	F5.1	ppt
BOTTOM TEMPERATURE	1	F6.1	Degrees C
WATER LEVEL	1	F5.1	Water depth at sample point (m)
WAVE HEIGHT	1	F5.1	meters
WAVE DIRECTION	1	I5	Degrees magnetic north
SECCHI DEPTH	1	F6.2	Reading <0 indicate disk on bottom (m)
CURRENT DIRECTION	1	I6	Degrees magnetic north

This file contains 9 records.

Filename: OWWATER.FTM

Water data collected at fyke net stations as part of the Endicott Overwintering program.

Variable Name	Rec. Type	Format	Variable Description/Comments
STATION	1	A4	Location measurements were made
LOCATION	1	A1	---
DATE	1	I6	Date measurements were collected
DEPTH	1	F4.1	Where measurement was taken (from top of ice) (degrees C
TEMPERATURE	1	F5.1	degrees C
CONDUCTIVITY	1	I6	---
X1	1	A2	---
SALINITY	1	F4.1	---
DISSOLVED OXYGEN	1	F5.1	---
ICE	1	I4	Ice thickness
BOTTOM	1	F5.1	Depth from surf. of ice to bottom (

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\* SNOW GOOSE \*

Filename: NEST87.DAT

1987 Snow Goose nesting activity data file.

Variable Name	Rec. Type	Format	Variable Description/Comments
OBSERVER	1	I1	Codes 1-5 for different observers
DATE	1	I3	Julian date (1 = January 1)
OBSERVATION PERIOD	1	I3	Consecutively numbered obs. periods
BREEDING PERIOD	1	I1	Breeding period
AIR TEMPERATURE	1	I2	Degrees C
WIND SPEED	1	I2	mph
WIND DIRECTION	1	I1	1=N, 2=NE, 3=E, 4=SE, 5=S, 6=SW, 7=W, 8=NW
TIME	1	I4	Local time, 24-hr format (HHMM)
NEST NUMBER	1	A4	Identifying number of nest
COLLAR STATUS	1	A1	Collar status of nesting pair
MALE ACTIVITY	1	A1	Activity of male
FEMALE ACTIVITY	1	A1	Activity of female
OFF NEST	1	I1	0=female on nest, 1=female off nest
DISTURBANCE	1	I1	Disturbance indicator
COMMENTS	1	A50	Additional observations

This file contains 33,095 records.

BREEDING PERIOD: 1 = Early incubation  
2 = Mid-incubation  
3 = Late incubation  
4 = Early brood-rearing  
5 = Late brood-rearing

COLLAR STATUS: N = Neither collared  
B = Both collared  
F = Female only collared  
M = Male only collared  
blank = Unknown

MALE ACTIVITY: F = Feeding  
R = Resting  
C = Comfort movements  
I = Interspecific aggression  
A = Alert

FEMALE ACTIVITY: W = Walking  
N = Running  
Y = Flying

DISTURBANCE: 0 = Undisturbed  
1 = Activity may be reaction to disturbance

Filename: BRAACT.DAT

1987 Snow Goose brood-rearing area activity data file.

Variable Name	Rec. Type	Format	Variable Description/Comments
OBSERVER	1	I1	Codes 1-5 for different observers
LOCATION	1	I1	Code for location of observations

DATE	1	I3	Julian date (1 = January 1)
OBSERVATION PERIOD	1	I3	Consecutively numbered obs. periods
TIME	1	I4	Local time, 24-hr format (HHMM)
NO. ADULTS	1	I3	Number of adults & subadults in group
NO. GOSLINGS	1	I3	Number of goslings in group
BREEDING PERIOD	1	I1	Breeding period code
AIR TEMPERATURE	1	I2	Degrees C
WIND SPEED	1	I2	mph
WIND DIRECTION	1	I1	1=N,2=NE,3=E,4=SE,5=S,6=SW,7=W,8=NW
FEEDING	1	I3	-
RESTING	1	I3	-
COMFORT MOVEMENTS	1	I3	-
SOCIAL INTERACTION	1	I3	Number of adults observed engaged
INTERSPEC. AGGRESS.	1	I3	in each activity in 2-min scan
ALERT	1	I3	-
WALKING	1	I3	-
RUNNING	1	I3	-
FLYING	1	I3	-
DISTURBANCE	1	I1	Disturbance indicator
HEAVY TRUCKS	1	I1	-
LIGHT TRUCKS	1	I1	Number observed during 2-min scan
MAINTENANCE VEHICLES	1	I1	-
COMMENTS	1	A50	Additional observations

This file contains 2,605 records.

LOCATION: 1 = Howe Island  
 2 = Brood-rearing Area (BRA) 1  
 3 = Brood-rearing Area (BRA) 2  
 4 = Brood-rearing Area (BRA) 3  
 5 = Brood-rearing Area (BRA) 4

BREEDING PERIOD: see NEST87.DAT

DISTURBANCE: see NEST87.DAT

Filename: NSTDST87.DAT

1987 nesting period disturbance data for breeding birds only.

Variable Name	Rec. Type	Format	Variable Description/Comments
OBSERVER	1	I1	Codes 1-5 for different observers
DATE	1	I3	Julian date (1 = January 1)
OBSERVATION PERIOD	1	I3	Consecutively numbered obs. periods
TIME	1	I4	Local time, 24-hr format (HHMM)
NO. ADULTS	1	I3	Number of adults & subadults in group
NO. GOSLINGS	1	I3	Number of goslings in group
BREEDING PERIOD	1	I1	Breeding period code
AIR TEMPERATURE	1	I2	Degrees C
WIND SPEED	1	I2	mph
WIND DIRECTION	1	I1	1=N,2=NE,3=E,4=SE,5=S,6=SW,7=W,8=NW
DISTURB. TYPE	1	I2	Code for type of disturbance
DISTURB. DESCRIPTION	1	I4	Code for description or altitude
VISUAL STIMULUS	1	I1	Extent of visual stimulus
DISTURB. DISTANCE	1	I4	Distance to birds (m)
DISTURB. DIRECTION	1	I1	Direction to birds (see WIND DIR.)
DISTURB. DURATION	1	I2	Duration of disturbance (min)
NO REACTION	1	A1	-
ALERT	1	A1	-
WALKING	1	A1	Number of adults exhibiting each
RUNNING	1	A1	reaction to disturbance
FLYING	1	A1	-

WING FLAPPING	1	A1	-
FLYING	1	A1	-
DISTANCE MOVED	1	I4	Distance group moved (m)
FLIGHT PATH	1	I1	Flight path of aircraft
COMMENTS	1	A50	Additional observations

This file contains 293 records.

BREEDING PERIOD: see NEST87.DAT

DISTURBANCE TYPE: 21 = Heavy truck  
 22 = Light truck  
 23 = Maintenance vehicle  
 24 = 1 light and 1 heavy truck  
 25 = 2 light trucks  
 26 = 2 heavy trucks  
 27 = 3 or more vehicles  
 28 = Vehicle slows down or stops (without human emerging)  
 34 = Fixed-wing aircraft  
 35 = Helicopter  
 36 = Jet aircraft  
 38 = Boat  
 58 = Predators  
 69 = Blasting  
 70 = Swan  
 71 = Caribou  
 80 = Drilling noise  
 99 = Unknown

DISTURBANCE DESCRIPTION: If DISTURBANCE TYPE is an aircraft, DISTURBANCE DESCRIPTION is estimated altitude in feet. If DISTURBANCE TYPE is a predator, DISTURBANCE DESCRIPTION is species of predator:

1 = Glaucous Gull  
 2 = Snowy Owl  
 3 = Parasitic Jaeger  
 4 = Short-eared Owl  
 5 = Arctic fox  
 6 = Golden Eagle  
 7 = Red fox  
 8 = Rough-legged Hawk  
 9 = Common Raven  
 10 = Pomarine Jaeger

VISUAL STIMULUS: 1 = Positive

2 = Probable  
 3 = Unlikely  
 4 = None  
 5 = Unknown

FLIGHT PATH:

1 = Directly over causeway  
 2 = Parallel and east of causeway  
 3 = Over delta west and north of road  
 4 = within 1000 m of Howe Island  
 5 = West of Howe Island  
 6 = Directly over Howe Island  
 7 = North of Howe Island  
 9 = Unknown

Filename: NBRDST87.DAT, BRDDST12.DAT, BRDDST34.DAT

Disturbance data files sharing a common format. NBRDST87.DAT contains nesting period disturbance data for non-breeding birds only. BRDDST12.DAT contains brood-rearing disturbance data for BRAS 1 and 2 only. BRDDST34.DAT contains

brood-rearing disturbance data for BRAs 3 and 4 only.

Variable Name	Rec. Type	Format	Variable Description/Comments
OBSERVER	1	I1	Codes 1-5 for different observers
DATE	1	I3	Julian date (1 = January 1)
OBSERVATION PERIOD	1	I3	Consecutively numbered obs. periods
TIME	1	I4	Local time, 24-hr format (HHMM)
NO. ADULTS	1	I3	Number of adults & subadults in group
NO. GOSLINGS	1	I3	Number of goslings in group
BREEDING PERIOD	1	I1	Breeding period code
AIR TEMPERATURE	1	I2	Degrees C
WIND SPEED	1	I2	mph
WIND DIRECTION	1	I1	1=N,2=NE,3=E,4=SE,5=S,6=SW,7=W,8=NW
DISTURB. TYPE	1	I2	Code for type of disturbance
DISTURB. DESCRIPTION	1	I4	Code for description or altitude
VISUAL STIMULUS	1	I1	Extent of visual stimulus
DISTURB. DISTANCE	1	I4	Distance to birds (m)
DISTURB. DIRECTION	1	I1	Direction to birds (see wind dir.)
DISTURB. DURATION	1	I2	Duration of disturbance (min)
NO REACTION	1	I3	Number of adults exhibiting each reaction to disturbance
ALERT	1	I3	
WALKING	1	I3	
RUNNING	1	I3	
FLYING	1	I3	
WING FLAPPING	1	I3	-
FLYING	1	I3	
DISTANCE MOVED	1	I4	Distance group moved (m)
FLIGHT PATH	1	I1	Flight path of aircraft
COMMENTS	1	A50	Additional observations

This format is shared by 3 files.

The file NBRDST87.DAT contains 10 records.  
The file BRDDST12.DAT contains 1,037 records.  
The file BRDDST34.DAT contains 26 records.

BREEDING PERIOD: see NEST87.DAT  
DISTURBANCE TYPE: see NSTDST87.DAT  
DISTURBANCE DESCRIPTION: see NSTDST87.DAT  
VISUAL STIMULUS: see NSTDST87.DAT  
FLIGHT PATH: see NSTDST87.DAT

Filename: COLLARnn.DAT

Collar sighting data for Endicott Snow Goose studies to date, where "nn" is year: 85, 86, or 87. File structure is similar for all years, with the exception of the TIME field which was added in 1987.

Variable Name	Rec. Type	Format	Variable Description/Comments
RECORD TYPE	1	I1	0=original, 1=BIRD 1 & BIRD 2 switched
YEAR	1	I2	85, 86, or 87
DATE	1	I3	Julian date (1 = January 1)
TIME	1	I4	Local time, 24-hr format (HHMM)
BROOD-REARING AREA #	1	I2	Same as in 1986 & 1987 reports
BIRD 1	1	A4	Collar number
SEX 1	1	A1	M=male, F=female

BIRD 2	1	A4	Collar number
SEX 2	1	A1	M=male, F=female
OLD COLLARS	1	A4	BIRD 1 previous collar number
COMMENTS	1	A20	Additional observations

There are 3 files in this series.

The file COLLAR85.DAT contains 219 records.  
The file COLLAR86.DAT contains 426 records.  
The file COLLAR87.DAT contains 898 records.

RECORD TYPE: Connotes the type of record, original or with BIRD 1 and BIRD 2 switched. This arrangement ensures that BIRD 1 comprises a complete list of collar sightings regardless of the identity of the bird's mate.

BIRD 1 and BIRD 2: Collar numbers observed. BIRD 2 is the presumed mate of BIRD 1. If the collar status of BIRD 2 is unknown, BIRD 2 is blank. If BIRD 2 was collared, but the collar was not read (i.e., not legible or numbers not visible), the entry is 'T999'. If BIRD 2 was not wearing a collar, the entry is 'NNNN'.

SEX 1 and SEX 2: Apparent sex of BIRD 1 and BIRD 2, respectively, when known.

BROOD-REARING AREA #: Number of brood-rearing area (BRA) in which sighting occurred. BRAs are numbered as in the 1986 and 1987 Snow Goose reports, with the following additions:  
0 = Howe Island  
99 = Other area; see COMMENTS

OLD COLLARS: Some birds had collars damaged or fall off from 1985 to 1987. In such cases where this was documented and a new collar put on the bird (as verified by leg bands), the OLD COLLARS field contains the number of the lost or damaged collar corresponding to the new collar number in the BIRD 1 field. All three data files in this series have been updated to 1987 collar numbers.

Filename: RDTRF87.DAT

1987 road traffic data for the nesting period. Road traffic data for the brood-rearing period are included in BRAACT.DAT.

Variable Name	Rec. Type	Format	Variable Description/Comments
OBSERVER	1	I1	Codes 1-5 for different observers
DATE	1	I3	Julian date (1 = January 1)
OBSERVATION PERIOD	1	I3	Consecutively numbered obs. periods
WIND SPEED	1	I2	mph
WIND DIRECTION	1	I1	1=N,2=NE,3=E,4=SE,5=S,6=SW,7=W,8=NW
TIME	1	I4	Local time, 24-hr format (HHMM)
HEAVY TRUCKS	1	I1	Number observed during 2-min scan
LIGHT TRUCKS	1	I1	
MAINTENANCE VEHICLES	1	I1	-
COMMENTS	1	A20	Additional observations

This file contains 2,419 records.

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* CARIBOU
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Filename: PLOTSUM.DAT

Data records for all caribou seen in Study Plots 1, 2, and 3. Data from both tower observations and road surveys are included; therefore, the records are of two basic types. Records 1-146 are from tower observations and records 147-274 are from road surveys.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Always 87
DAY	1	I3	Julian date (January 1 = 1)
SITE NUMBER	1	I1	Study plot number
SURVEY NUMBER	1	I1	Daily road survey no. (0=tower obs.)
GROUP NUMBER	1	F5.1	Consecutive group number
GROUP TYPE	1	I1	For groups without composition counts
GROUP SIZE	1	I4	Number of individuals (9999=unknown)
NO. COWS	1	I3	Actual number of animals in each sex/age category; "unknown" used if unsure (999=unknown)
NO. CALVES	1	I3	
NO. YEARLINGS	1	I3	
NO. BULLS	1	I3	
NO. UNKNOWN	1	I3	
INSECT CONDITIONS	1	I1	Level of harassment
SIDE ENTERED	1	I1	Study area border crossed upon entry
SIDE EXITED	1	I1	Study area border crossed upon exit
DIRECT. OF MOVEMENT	1	I1	Net direction of undisturbed caribou
CROSSING APPROACH	1	I1	Spatial interaction with pipe/ramp
NO. CROSSED	1	I3	Number that crossed pipeline and road
PERCENT CROSSED	1	I3	Percent of crossing in study area
DIRECT. OF CROSSING	1	I1	Direction of crossing
CROSSING OUTCOME	1	I1	Results of crossing approach
PLOT SECTION	1	I1	Location of closest approach or cross
ROAD SEGMENT	1	I2	Location of crossing
VEHICLES PER HOUR	1	I2	Rate while group observed (99=unknown)
KEY TO CROSS. TYPE	1	I1	Coded crossing type
INDEX CODE	1	I1	Code for crossing success summaries

This file contains 274 records.

SITE NUMBER: 1 = Tower No. 1 (innermost study plot)  
2 = Tower No. 2 (middle study plot)  
3 = Tower No. 3 (outermost study plot)

GROUP NUMBER: Numbered consecutively over season for tower observations; numbered consecutively within each survey for road surveys. Decimals denote subgroups.

GROUP TYPE: Estimate for large and/or fast moving groups for which actual composition cannot be determined.  
1 = Cow/calf dominated (more than 2/3 cows and calves)  
2 = Bull dominated (more than 2/3 bulls)  
3 = Mixed (approximately equal proportions cows/calves and bulls)  
4 = Cow and/or yearling dominated (more than 2/3, 0 calves)  
5 = Single cow  
6 = Single calf  
7 = Single yearling  
8 = Single bull  
9 = Unknown

INSECT CONDITIONS: Level of harassment based on subjective assessment by observer on ground (personal discomfort index), and/or by reactions of

caribou under observation.

0 = Mosquitoes none to mild  
1 = Mosquitoes moderate to severe  
2 = Oestrid flies present and mosquitoes none to mild  
3 = Oestrid flies present and mosquitoes moderate to severe  
9 = Unknown

SIDE ENTERED, SIDE EXITED, DIRECTION OF MOVEMENT:

0 = No movement 5 = S  
1 = N 6 = SW  
2 = NE 7 = W  
3 = E 8 = NW  
4 = SE 9 = Unknown

CROSSING APPROACH: 0 = Group remained more than 400 m  
1 = Group approached within 400 m

PERCENT CROSSED: For caribou that crossed pipeline and road, percentage of group/subgroup that crossed in study area.

DIRECTION OF CROSSING: 0 = No crossing  
1 = Northbound  
5 = Southbound  
9 = Both (crossed and recrossed)

CROSSING OUTCOME: 0 = No crossing  
1 = Crossed to opposite side of pipe/road from original approach or observation  
2 = Crossed and recrossed, ended on same side as original approach or observation  
3 = Crossed pipe or road, but not both

PLOT SECTION: 1 = Experimental subplot  
2 = Control subplot  
3 = Both

ROAD SEGMENT: For crossing location(s), segments about 0.5 mi long were defined for the length of the road, and combined into pairs for report. 99=unknown

KEY TO CROSSING TYPE: 0 = No crossing  
3 = Elevated pipeline, but not road  
4 = Road, but not pipeline  
5 = Elevated pipeline and road  
6 = Ramp, but not road  
7 = Ramp and road  
9 = Combination of elevated pipeline, ramp, and road (for multiple crossings)

INDEX CODE: 0 = Primary record; use for calculation of overall crossing success  
1 = Secondary record (involving subgroup[s]); do not use for calculation of overall crossing success  
2 = Use for crossing success calculation based on <400 m approach criterion (special case for large group occupying both <400 m and >400 m zones)  
3 = Use for crossing success calculation regardless of distance (special case for large group occupying both <400 m and >400 m zones)  
4 = Primary tower record (special case for group that split in plot, but for which entry/exit information is known)

Filename: TWRSUM87.DAT

Summary records for all caribou groups observed from towers in Study Plots 1-3.

It contains data coded on "Summary Forms for Tower Data." Reaction data (fields NO. of DISTURBANCE EVENTS through DISTANCE CATEGORY) may be incomplete. Complete reaction data are contained in RXN-MS.DAT.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Always 87
CROSSING OUTCOME	1	I1	Results of crossing approach
DAY	1	I3	Julian date (January 1 = 1)
SITE NUMBER	1	I1	Study plot number
GROUP NUMBER	1	F5.1	Consecutive group number
DAY GROUP NUMBER	1	I2	Group number for that day
GROUP TYPE	1	I1	For groups without composition counts
GROUP SIZE	1	I4	Number of individuals (9999=unknown)
NO. COWS	1	I3	Actual number of animals in each sex/age category; "unknown" used if unsure (999=unknown)
NO. CALVES	1	I3	
NO. YEARLINGS	1	I3	
NO. BULLS	1	I3	
NO. UNKNOWNNS	1	I3	
INSECT CONDITIONS	1	I1	Level of harassment
SIDE ENTERED	1	I1	Study area border crossed upon entry
SIDE EXITED	1	I1	Study area border crossed upon exit
DIRECT. OF MOVEMENT	1	I1	Net direction of undisturbed caribou
DISTANCE TRAVELED	1	F4.2	Length of travel overall (9.99=unknown)
TOTAL TIME	1	F4.2	Length of time overall (9.99=unknown)
RATE OF MOVEMENT	1	F4.1	Rate of movement overall (99.9 or ****=unknown)
DIST. TRAV. <400 m	1	F4.2	Distance in 0-400 m from pipe zone
TOTAL TIME <400 m	1	F4.2	Time in 0-400 m from pipe zone
RATE OF MOVE. <400 m	1	F4.1	Rate in 0-400 m from pipe zone
DIST. TRAV. >400 m	1	F4.2	Dist. in 400-800 m from pipe zone
TOTAL TIME >400 m	1	F4.2	Time in 400-800 m from pipe zone
RATE OF MOVE. >400 m	1	F4.1	Rate in 400-800 m from pipe zone
NO. DISTURB. EVENTS	1	I2	Moderate or strong reaction events
REACTING-GROUP TYPE	1	I1	Type of group reacting to above
DISTURBANCE TYPE	1	I2	Type of disturbance
DISTANCE CATEGORY	1	I2	Distance from disturbing stimuli
CROSSING APPROACH	1	I1	Spatial interaction with pipe/ramp
NO. CROSSED	1	I3	Number that crossed pipeline and road
PERCENT CROSSED	1	I3	Percent of crossing in study area
SAW RAMP	1	I1	0=no, 1=yes, 9=unknown
VEHICLES PER HOUR	1	F4.1	Rate while group observed (99=unknown)
OBSERVER	1	I1	Observer identification number

This file contains 138 records.

CROSSING OUTCOME: see PLOTSUM.DAT

SITE NUMBER: see PLOTSUM.DAT

GROUP NUMBER: see PLOTSUM.DAT

GROUP TYPE: see PLOTSUM.DAT

INSECT CONDITIONS: see PLOTSUM.DAT

SIDE ENTERED, SIDE EXITED, DIRECTION OF MOVEMENT: see PLOTSUM.DAT

DISTANCES TRAVELED: Length of travel route in study area, as drawn on study area map for day, to nearest 0.1 km.

TOTAL TIMES: Length of time that group was in study area (from first animal enter to last animal exit), rounded to nearest 0.1 h (6 min).

RATES OF MOVEMENT: DISTANCES TRAVELED divided by TOTAL TIMES, to nearest

0.1 km/h.

NO. OF DISTURBANCE EVENTS: Total number of disturbance events, defined as a disturbance of a group that resulted in moderate and/or strong reactions by any member of the group, during the observation period.

REACTING-GROUP TYPE: see GROUP TYPE (PLOTSUM.DAT), adding:  
0 = Not applicable

DISTURBANCE TYPE: 0 = Natural (other animal, weather phenomena, etc.)  
1 = Small vehicle (pickup or carryall)  
2 = Large vehicle (heavy truck, crane, maintenance vehicle)  
3 = Pipeline (no vehicle nearby)  
4 = Road (no vehicle nearby)  
5 = Ramp (no vehicle nearby)  
6 = Humans on foot  
7 = Fixed-wing aircraft  
8 = Helicopter  
9 = Unknown or other  
10 = Multiple disturbance types

DISTANCE CATEGORY: 0 = Less than 10 m 5 = 400-500 m  
1 = 10-100 m 6 = 500-600 m  
2 = 100-200 m 7 = 600-700 m  
3 = 200-300 m 8 = 700-800 m  
4 = 300-400 m 9 = More than 800 m

CROSSING APPROACH: see PLOTSUM.DAT

PERCENT CROSSED: see PLOTSUM.DAT

Filename: RDGRP87S.DAT

Summary data for all caribou seen during road surveys. Data are taken from the "Road Survey Form." Each record summarizes the data collected on one group or subgroup; a few groups are represented by more than one record, for multiple crossing events or observation sessions.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Always 87
DAY	1	I3	Julian date (January 1 = 1)
SURVEY NUMBER	1	I1	Daily road survey number
SURVEY GROUP NUMBER	1	F4.1	Consecutive number for that survey
TIME	1	I4	Time of initial observation (local)
GROUP SIZE	1	I4	Number of individuals (9999=unknown)
GROUP TYPE	1	I1	For groups without composition counts
NO. COWS	1	I3	Actual number of animals in each sex/age category; "unknown" used if unsure (999=unknown)
NO. CALVES	1	I3	
NO. YEARLINGS	1	I3	
NO. BULLS	1	I3	
NO. UNKNOWNNS	1	I3	
MOSQUITOE LEVEL	1	I1	Harassment level
OESTRID FLY LEVEL	1	I1	Harassment level
AIR TEMPERATURE	1	F4.1	Degrees C (99.9=unknown)
WIND DIRECTION	1	I1	Wind direction category
WIND SPEED	1	I1	Wind speed category
DIRECT. OF MOVEMENT	1	I1	Net direction of undisturbed caribou
NO. CROSSED	1	I3	Number that crossed pipeline and road
CROSSING APPROACH	1	I1	Spatial interaction with pipe/ramp
CROSSING OUTCOME	1	I1	Results of crossing approach
ROAD SEGMENT	1	I2	Location of crossing
VEHICLES PER HOUR	1	I3	Observed count (999=unknown)
INDEX CODE	1	I1	Code for crossing success summaries



This file contains 651 records.

GROUP NUMBER: see PLOTSUM.DAT

GROUP TYPE: see PLOTSUM.DAT

MOSQUITOE LEVEL: 0 = None  
1 = Mild  
2 = Moderate  
3 = Severe  
9 = Unknown

OESTRID FLY LEVEL: 0 = Absent  
1 = Present  
9 = Unknown

WIND DIRECTION: 0 = No wind 5 = S  
1 = N 6 = SW  
2 = NE 7 = W  
3 = E 8 = NW  
4 = SE 9 = Unknown

WIND SPEED: 0 = No wind 4 = 15-20 mph  
1 = 1-5 mph 5 = More than 20 mph  
2 = 5-10 mph 9 = Unknown  
3 = 10-15 mph

DIRECTION OF MOVEMENT: see PLOTSUM.DAT

CROSSING APPROACH: see PLOTSUM.DAT

CROSSING OUTCOME: see PLOTSUM.DAT

ROAD SEGMENT: see PLOTSUM.DAT

Filename: RXN-MS.DAT

Summarizes all behavioral-reaction data from both tower observations and road surveys. Each record describes a separate disturbance event (moderate and/or strong reaction); therefore, one group can be represented on more than one line.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Always 87
DAY	1	I3	Julian date (January 1 = 1)
SURVEY/SITE	1	I1	Study Plot no. (0=road survey)
SURVEY GROUP NUMBER	1	F4.1	Daily group number
TIME	1	I4	Time of reaction observation (local)
GROUP SIZE	1	I4	Number of individuals (9999=unknown)
GROUP TYPE	1	I1	For groups without composition counts
NO. COWS	1	I3	Actual number of animals in each sex/age category; "unknown" used if unsure (999=unknown)
NO. CALVES	1	I3	
NO. YEARLINGS	1	I3	
NO. BULLS	1	I3	
NO. UNKNOWNNS	1	I3	-
MOSQUITOE LEVEL	1	I1	Harassment level
OESTRID FLY LEVEL	1	I1	Harassment level
NO. NOT REACTING	1	I3	Number of animals reacting to disturbance in manner listed
NO. MILD REACTIONS	1	I3	
NO. MODERATE REACT.	1	I3	
NO. STRONG REACT.	1	I3	
REACTING GROUP TYPE	1	I1	Same codes as GROUP TYPE

Variable Name	Rec. Type	Format	Variable Description/Comments
DISTURBANCE TYPE	1	I2	Type of disturbance
DISTANCE CATEGORY	1	I2	Distance from disturbing stimuli
NO. CROSSED	1	I3	Number that crossed pipeline and road
VEHICLES PER HOUR	1	I2	Observed count (99=unknown)
KEY TO RECORD	1	I1	Analysis key code

This file contains 229 records.

GROUP TYPE: see PLOTSUM.DAT

MOSQUITOE LEVEL: see RDGRP87S.DAT

OESTRID FLY LEVEL: see RDGRP87S.DAT

REACTING-GROUP TYPE: see TWRSUM87.DAT

DISTURBANCE TYPE: see TWRSUM87.DAT

DISTANCE CATEGORY: see TWRSUM87.DAT

KEY TO RECORD: 1 = Enter study area, or initial observation  
2 = Disturbance not associated with successful crossing  
3 = Elevated pipe crossing  
4 = Road crossing  
5 = Elevated pipe and road crossing  
6 = Ramp crossing (crossed pipeline on ramp but not road)  
7 = Ramp and road crossing  
8 = No crossing (group exited study area w/o crossing)  
9 = Observations terminated (group lost from sight or not moving for extended period)

Filename: RXN-MSU.DAT

Summarizes the basic group data presented in RXN-MS.DAT. Each group is represented by only one record. This file is to be used primarily for summaries of numbers and group composition. No reaction data are included.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Always 87
DAY	1	I3	Julian date (January 1 = 1)
SURVEY/SITE	1	I1	Study plot no. (0=road survey)
SURVEY GROUP NUMBER	1	F4.1	Daily group number
TIME	1	I4	Time of reaction observation (local)
GROUP SIZE	1	I4	Number of individuals (9999=unknown)
GROUP TYPE	1	I1	For groups without composition counts
NO. COWS	1	I3	Actual number of animals in each sex/age category; "unknown" used if unsure (999=unknown)
NO. CALVES	1	I3	
NO. YEARLINGS	1	I3	
NO. BULLS	1	I3	
NO. UNKNOWNNS	1	I3	-
MOSQUITOE LEVEL	1	I1	Harassment level
OESTRID FLY LEVEL	1	I1	Harassment level
NO. CROSSED	1	I3	Number that crossed pipeline and road
VEHICLES PER HOUR	1	I2	Observed count (99=unknown)
KEY TO RECORD	1	I1	Analysis key code

This file contains 138 records.

GROUP TYPE: see PLOTSUM.DAT

MOSQUITOE LEVEL: see RDGRP87S.DAT

OESTRID FLY LEVEL: see RDGRP87S.DAT

KEY TO RECORD: see RXN-MS.DAT

Filename: TRAFFICS.DAT

Contains all traffic counts taken during road surveys and tower observations. Overlapping data for some time periods are included, representing site-specific counts at different locations during simultaneous road-survey and tower-observation counts.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Always 87
DAY	1	I3	Julian date (January 1 = 1)
SURVEY TYPE	1	A1	T=tower observation, R=road survey
BEGIN TIME	1	I4	Start of observation period (local)
END TIME	1	I4	End of observation period (local)
MINUTES ELAPSED	1	I3	Period elapsed time in minutes
HOURS ELAPSED	1	F6.4	Period elapsed time in hours
NO. SMALL VEHICLES	1	I2	Pickup trucks, carryalls, etc.
NO. LARGE VEHICLES	1	I2	Heavy trucks, cranes, maintenance vehicles, etc.
TOTAL VEHICLES	1	I2	NO. SMALL VEHICLES+NO. LARGE VEHICLES
VEHICLES PER HOUR	1	F6.2	TOTAL VEHICLES/HOURS ELAPSED

This file contains 620 records.

Filename: SAPTRAP7.DAT

Daily traffic data provided by SAPC, based on security checkpoint counts and gravel contractor records. Data are included for 1 June-30 August, but only those for 25 June-31 July were used in the 1987 caribou report.

Variable Name	Rec. Type	Format	Variable Description/Comments
YEAR	1	I2	Always 87
DAY	1	I3	Julian date (January 1 = 1)
EASTBOUND (IN)	1	I3	-, No. vehicles passing through SAPC
WESTBOUND (OUT)	1	I3	-' checkpoint in & out of study area
CHECKPOINT TOTAL	1	I3	EASTBOUND+WESTBOUND for day
CHECK. VEHICLES/HOUR	1	F4.1	CHECKPOINT TOTAL/24
GRAVEL TRAFFIC	1	I3	Number of gravel truck passes per day
GRAVEL TRUCKS/HOUR	1	F4.1	GRAVEL TRAFFIC/24
TOTAL VEHICLES	1	I4	CHECKPOINT TOTAL+GRAVEL TRAFFIC
TOTAL VEHICLES/HOUR	1	F4.1	TOTAL VEHICLES/24

This file contains 91 records.

Filename: PIPEHT.DAT

Physical characteristics of the Endicott pipeline (from near the security checkpoint to the coast), as well as caribou crossing data for specific VSM intervals. The physical data are taken from "as-built" engineering drawings provided by SAPC and from field measurements made by ABR.

Variable Name	Rec. Type	Format	Variable Description/Comments
DRAWING NUMBER	1	I4	SAPC "as-built" drawing number
VSM NUMBER	1	I4	From SAPC drawings

TOP-OF-SUPPORT ELEV.	1	F5.2	Top of VSM (ft) (SAPC)
GRADE ELEVATION	1	F4.1	Ground level (ft) (SAPC)
VSM HEIGHT	1	F4.1	Diff. between TOP-OF-SUP. & GRADE (ft)
AVERAGE HEIGHT	1	F4.1	For pairs of consecutive VSMS (ft)
SAPC PIPE HEIGHT	1	I3	AVERAGE HEIGHT converted to cm
SITE	1	I1	Study Plot number (0=not applicable)
PLOT SECTION	1	A1	Type of Study Plot section
ABR INTERVAL NUMBER	1	I3	Interval between VSMS (ABR) (999=N/A)
ABR PIPE HEIGHT	1	I3	Height above grade (cm) (ABR)
NUMBER CROSSED	1	F4.1	No. caribou observed cross. in interval
NUMBER OF TRACKS	1	I2	No. tracks observed during measurement
NUMBER OF GROUPS	1	I1	No. groups observed cross. in interval

This file contains 1,178 records.

PLOT SECTION: X = Not applicable  
E = Experimental  
C = Control

ABR PIPE HEIGHT: Measured in middle of interval, or average of several measurements over uneven ground (999 = not applicable).

NUMBER CROSSED: Number of caribou individuals observed crossing in interval during road surveys and tower observations; decimals denote averages over several intervals when exact numbers could not be recorded (99.9 = unknown or not applicable).

NUMBER OF TRACKS: Number of caribou track sets observed in interval at time of physical measurements by ABR (late July 1987) (99 = unknown or not applicable).

NUMBER OF GROUPS: Number of caribou groups observed crossing in interval during road surveys and tower observations (9 = unknown or not applicable).

National Oceanographic Data Center  
Data Acquisition E/OC13  
1825 Connecticut Ave., NW  
Washington, DC 20235

June 21, 1994

Dr. Thomas Berger  
Science Applications International  
Maritime Technology Group/Physical Oceanography Division  
615 Oberlin Road, Suite 300  
Raleigh, NC 27605

Dear Dr. Berger:

The National Oceanographic Data Center (NODC) has received your final current meter data submission for the "Physical Oceanographic Field Program - Offshore North Carolina " (MMS Contract 14-35-0001-30599). NODC had previously assigned a code of 0208 to this project to aid in data tracking.

The data you sent was recorded in NODC's format number 015 ( <sup>E</sup>ulerian current meter) and consists of 1,016,795 data records for 279 meters. The period of observation was from 2/19/1992 through 2/19/1994. We have assigned an accession number of 9400063 to these data and individual NODC reference numbers TW7000 through TW7278. Preliminary inspection shows these data to be of good quality.

The following meter was reported by you to have malfunctioned:  
Mooring A5    Deployment 3    Instrument 2

Depth:        300 meters  
Position:    36 1830 N        73 4369 W  
Dates:        5/5/93 - 9/29/93

Sincerely,

Francis J. Mitchell  
Oceanographer

cc:    Dr. M. Brown, MMS