

PROCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8800147	043834	C125		7600	76AF		05/21/86	05/24/86	8	8
8800147	043835	C125		7600	76AF		06/06/86	06/22/86	50	50
8800147	043836	C125		4900	49AQ		01/29/86	01/29/86	4	4
8800147	043837	C125		4900	49AQ		03/15/86	03/15/86	2	2
8800147	043838	C125		4900	49AQ		05/19/86	05/19/86	1	1
8800147	043839	C125		4900	49AQ		06/19/86	06/19/86	2	2
8800147	043840	C125		4900	49AQ		10/21/86	10/21/86	2	2
8800147	043841	C125		4900	49AQ		11/20/86	11/20/86	1	1
8800147	043842	C125		4900	4999		10/02/86	10/02/86	11	11
8800147	043843	C125		4900	49DK		04/19/86	04/19/86	4	4
8800147	043844	C125		4900	49DK		07/22/86	07/22/86	5	5
8800147	043845	C125		4900	49DK		08/12/86	08/14/86	27	27
8800147	043846	C125		4900	49DK		09/06/86	09/06/86	4	4
8800147	043847	C125		4900	49DK		10/21/86	10/21/86	7	7
8800147	043848	C125		4900	49TU	CH8601	01/26/86	02/03/86	10	10
8800147	043849	C125		4900	49TU	CH8604	04/24/86	04/25/86	6	6
8800147	043850	C125		4900	49TU	CH8607	07/20/86	07/21/86	9	9
8800147	043851	C125		4900	49TU	CH8610	10/11/86	10/13/86	6	6
8800147	043852	C125		4900	49C4		01/16/86	01/17/86	2	2
8800147	043853	C125		4900	49C4		02/27/86	02/28/86	4	4
8800147	043854	C125		4900	49C4		03/12/86	03/13/86	4	4
8800147	043855	C125		4900	49C4		05/12/86	05/13/86	4	4
8800147	043856	C125		4900	49C4		08/01/86	08/02/86	2	2
8800147	043857	C125		4900	49C4	CO8606	08/30/86	09/02/86	33	33
8800147	043858	C125		4900	49C4	CO8607	10/05/86	10/05/86	2	2
8800147	043859	C125		4900	49C4	CO8608	11/22/86	11/22/86	3	3
8800147	043860	C125		4900	49GI		03/07/86	03/07/86	6	6
8800147	043861	C125		4900	49GI		04/13/86	04/14/86	5	5
8800147	043862	C125		4900	49GI		06/04/86	06/04/86	5	5
8800147	043863	C125		4900	49GI		07/20/86	07/20/86	7	7
8800147	043864	C125		4900	49GI		09/04/86	09/04/86	7	7
8800147	043865	C125		4900	49SN	HI8608	08/18/86	08/22/86	43	43
8800147	043866	C125		4900	49ID		01/17/86	01/17/86	3	3
8800147	043867	C125		4900	49ID		02/18/86	02/18/86	2	2
8800147	043868	C125		4900	49ID		05/02/86	05/02/86	1	1
8800147	043869	C125		4900	49ID		06/11/86	06/11/86	3	3
8800147	043870	C125		4900	49ID		09/11/86	09/11/86	3	3
8800147	043871	C125		4900	49ID		10/04/86	10/04/86	3	3
8800147	043872	C125		4900	49IF		03/28/86	03/28/86	6	6
8800147	043873	C125		4900	49IF		08/11/86	08/15/86	56	56
8800147	043874	C125		4900	49K6		08/26/86	09/13/86	52	52
8800147	043875	C125		4900	49BE		02/20/86	02/27/86	34	34
8800147	043876	C125		4900	49BE	KA8601	07/05/86	07/05/86	8	8
8800147	043877	C125		4900	49BE	KA8602	07/23/86	07/25/86	11	11
8800147	043878	C125		4900	49BE		09/10/86	09/12/86	35	35
8800147	043879	C125		4900	49BE	KA8603	09/23/86	10/02/86	32	32
8800147	043880	C125		4900	49BE		11/01/86	11/24/86	71	71
8800147	043881	C125		4900	49BE		12/09/86	12/20/86	19	19
8800147	043882	C125		4900	49EK	KE8601	01/21/86	02/17/86	25	25
8800147	043883	C125		4900	49EK	KE8602	03/09/86	03/15/86	6	6
8800147	043884	C125		4900	49EK	KE8603	04/19/86	04/22/86	7	7

8800147	043885	C125	4900	49EK	KE8604	05/13/86	05/26/86	10	10
8800147	043886	C125	4900	49EK	KE8605	06/20/86	07/02/86	19	19
8800147	043887	C125	4900	49EK	KE8605	07/17/86	07/22/86	3	3
8800147	043888	C125	4900	49EK	KE8606	08/06/86	08/21/86	14	14
8800147	043889	C125	4900	49EK	KE8606	09/01/86	09/15/86	17	17
8800147	043890	C125	4900	49EK	KE8607	09/30/86	10/13/86	4	4
8800147	043891	C125	4900	49EK	KE8608	10/31/86	11/23/86	31	31
8800147	043892	C125	4900	49KQ		01/25/86	01/25/86	4	4
8800147	043893	C125	4900	49KQ		03/04/86	03/06/86	21	21
8800147	043894	C125	4900	49KQ		07/26/86	07/26/86	4	4
8800147	043895	C125	4900	49KQ		08/18/86	08/21/86	23	23
8800147	043896	C125	4900	49KQ		09/11/86	09/12/86	5	5
8800147	043897	C125	4900	49KQ		10/04/86	10/04/86	4	4
8800147	043898	C125	4900	49KQ		11/12/86	11/12/86	2	2
8800147	043899	C125	4900	49KF	KO8602	02/23/86	02/24/86	15	15
8800147	043900	C125	4900	49KF	KO8602	03/11/86	03/11/86	3	3
8800147	043901	C125	4900	49KF	KO8606	07/09/86	07/10/86	7	7
8800147	043902	C125	4900	49KF	KO8610	10/19/86	10/30/86	33	33
8800147	043903	C125	4900	49C5		07/07/86	07/08/86	2	2
8800147	043904	C125	4900	49C5		07/28/86	07/30/86	6	6
8800147	043905	C125	4900	49MW		02/09/86	02/09/86	8	8
8800147	043906	C125	4900	49MW		03/12/86	03/16/86	35	35
8800147	043907	C125	4900	49MW		05/12/86	05/16/86	46	46
8800147	043908	C125	4900	49MW		06/23/86	06/23/86	6	6
8800147	043909	C125	4900	49MW	MC8605	11/05/86	11/09/86	62	62
8800147	043910	C125	4900	49GQ		01/14/86	01/20/86	16	16
8800147	043911	C125	4900	49GQ		03/08/86	03/13/86	16	16
8800147	043912	C125	4900	49GQ		04/12/86	04/18/86	21	21
8800147	043913	C125	4900	49GQ		10/16/86	10/17/86	10	10
8800147	043914	C125	4900	49GQ		11/01/86	11/01/86	11	11
8800147	043915	C125	4900	49GQ		11/25/86	11/25/86	8	8
8800147	043916	C125	4900	49GQ		12/08/86	12/08/86	12	12
8800147	043917	C125	4900	49MV		02/10/86	02/10/86	4	4
8800147	043918	C125	4900	49MV		03/08/86	03/08/86	4	4
8800147	043919	C125	4900	49MV	MN8603	05/17/86	05/17/86	8	8
8800147	043920	C125	4900	49MV	MN8604	06/03/86	06/03/86	8	8
8800147	043921	C125	4900	49MV	MN8605	09/03/86	09/03/86	5	5
8800147	043922	C125	4900	49MV	MN8606	10/03/86	10/03/86	7	7
8800147	043923	C125	4900	49MV	MN8607	11/02/86	11/02/86	8	8
8800147	043924	C125	4900	49M6		01/25/86	02/01/86	8	8
8800147	043925	C125	4900	49M6		06/17/86	06/17/86	4	4
8800147	043926	C125	4900	49M6		08/08/86	08/09/86	3	3
8800147	043927	C125	4900	49M6		09/22/86	09/22/86	4	4
8800147	043928	C125	4900	49M6		12/11/86	12/12/86	4	4
8800147	043929	C125	4900	49BY		04/12/86	04/15/86	22	22
8800147	043930	C125	4900	49BX		03/13/86	03/14/86	24	24
8800147	043931	C125	4900	49BX		08/25/86	08/29/86	33	33
8800147	043932	C125	4900	49BX		11/18/86	11/19/86	21	21
8800147	043933	C125	4900	49GJ		11/18/86	11/19/86	29	29
8800147	043934	C125	4900	49NO	OT8601	01/20/86	01/21/86	4	4
8800147	043935	C125	4900	49NO	OT8602	02/17/86	02/20/86	8	8
8800147	043936	C125	4900	49NO	OT8603	07/02/86	07/04/86	8	8
8800147	043937	C125	4900	49NO	OT8604	09/12/86	09/12/86	3	3
8800147	043938	C125	4900	49NO	OT8605	10/20/86	10/24/86	8	8
8800147	043939	C125	4900	49SB		01/19/86	01/25/86	15	15
8800147	043940	C125	4900	49RI		10/02/86	10/02/86	2	2

8800147	043941	C125	4900	49RY	RY8601	02/01/86	02/25/86	101	101
8800147	043942	C125	4900	49RY	RY8603	03/08/86	03/09/86	6	6
8800147	043943	C125	4900	49RY	RY8604	04/18/86	05/12/86	32	32
8800147	043944	C125	4900	49RY	RY8606	06/08/86	06/10/86	10	10
8800147	043945	C125	4900	49RY	RY8609	09/13/86	09/15/86	12	12
8800147	043946	C125	4900	49RY	RY8610	10/03/86	10/18/86	19	19
8800147	043947	C125	4900	49RY	RY8611	11/05/86	11/09/86	13	13
8800147	043948	C125	4900	49RY	RY8611	12/05/86	12/06/86	8	8
8800147	043949	C125	4900	49C8	S18601	11/03/86	11/11/86	46	46
8800147	043950	C125	4900	49ST		05/19/86	05/21/86	22	22
8800147	043951	C125	4900	49ST		11/04/86	11/06/86	24	24
8800147	043952	C125	4900	49SR		05/22/86	05/22/86	5	5
8800147	043953	C125	4900	49SR		09/16/86	09/16/86	5	5
8800147	043954	C125	4900	49SR		11/13/86	11/13/86	5	5
8800147	043955	C125	4900	49SU	SH8602	02/09/86	02/09/86	3	3
8800147	043956	C125	4900	49SU	SH8602	02/22/86	02/23/86	11	11
8800147	043957	C125	4900	49SU	SH8608	09/01/86	09/01/86	9	9
8800147	043958	C125	4900	49SU	SH8609	10/02/86	10/06/86	22	22
8800147	043959	C125	4900	49SU	SH8609	10/21/86	10/21/86	5	5
8800147	043960	C125	4900	49SH	SI8602	02/07/86	03/08/86	30	30
8800147	043961	C125	4900	49SH	SI8605	05/21/86	05/22/86	6	6
8800147	043962	C125	4900	49SH	SI8607	07/18/86	07/19/86	7	7
8800147	043963	C125	4900	49SH	SI8607	08/05/86	08/09/86	9	9
8800147	043964	C125	4900	49SH	SI8609	10/05/86	10/14/86	30	30
8800147	043965	C125	4900	49SQ	SK8601	01/15/86	01/15/86	5	5
8800147	043966	C125	4900	49SQ	SK8602	08/22/86	08/23/86	11	11
8800147	043967	C125	4900	49SC		05/21/86	06/07/86	44	44
8800147	043968	C125	4900	49C7		02/01/86	02/01/86	4	4
8800147	043969	C125	4900	49C7		05/07/86	05/07/86	4	4
8800147	043970	C125	4900	49C7		07/17/86	07/17/86	4	4
8800147	043971	C125	4900	49C7	SV8604	11/02/86	11/09/86	12	12
8800147	043972	C125	4900	49GM		01/07/86	01/12/86	9	9
8800147	043973	C125	4900	49GM		02/13/86	02/17/86	6	6
8800147	043974	C125	4900	49GM		03/21/86	03/22/86	4	4
8800147	043975	C125	4900	49GM		04/05/86	04/05/86	3	3
8800147	043976	C125	4900	49GM		05/06/86	05/11/86	9	9
8800147	043977	C125	4900	49GM		06/11/86	06/18/86	6	6
8800147	043978	C125	4900	49GM		06/29/86	06/29/86	3	3
8800147	043979	C125	4900	49GM		07/14/86	07/15/86	6	6
8800147	043980	C125	4900	49GM		08/12/86	08/13/86	6	6
8800147	043981	C125	4900	49GM		09/05/86	09/16/86	12	12
8800147	043982	C125	4900	49GM		10/02/86	10/09/86	39	39
8800147	043983	C125	4900	49GM		10/26/86	10/27/86	6	6
8800147	043984	C125	4900	49GM		11/15/86	11/20/86	19	19
8800147	043985	C125	4900	49GM		12/01/86	12/18/86	26	26
8800147	043986	C125	4900	49TK		02/06/86	03/16/86	179	179
8800147	043987	C125	4900	49TK		04/19/86	04/21/86	15	15
8800147	043988	C125	4900	49TK		05/05/86	05/07/86	13	13
8800147	043989	C125	4900	49TK		05/30/86	05/31/86	9	9
8800147	043990	C125	4900	49TK		06/16/86	07/06/86	29	29
8800147	043991	C125	4900	49TK		07/29/86	07/31/86	12	12
8800147	043992	C125	4900	49TK		09/23/86	10/15/86	36	36
8800147	043993	C125	4900	49TK		10/28/86	11/04/86	18	18
8800147	043994	C125	4900	49TK		11/17/86	11/19/86	29	29
8800147	043995	C125	4900	49TK		12/08/86	12/22/86	40	40
8800147	043996	C125	4900	49ET	TY8601	02/26/86	02/27/86	12	12

8800147	043997	C125	4900	49ET	TY8602	09/13/86	09/13/86	6	6
8800147	043998	C125	4900	49C6	UG8601	09/25/86	09/26/86	12	12
8800147	043999	C125	4900	49C6	UG8602	10/13/86	10/14/86	9	9
8800147	044000	C125	4900	49YJ	YC8601	02/02/86	02/09/86	12	12
8800147	044001	C125	4900	49YJ	YC8603	03/02/86	03/05/86	32	32
8800147	044002	C125	4900	49YJ	YC8604	03/19/86	03/23/86	7	7
8800147	044003	C125	4900	49YJ	YC8605	04/13/86	04/18/86	12	12
8800147	044004	C125	4900	49YJ	YC8607	05/19/86	05/23/86	82	82
8800147	044005	C125	4900	49YJ	YC8608	06/15/86	06/18/86	12	12
8800147	044006	C125	4900	49YJ	YC8611	07/24/86	07/26/86	12	12
8800147	044007	C125	4900	49YJ	YC8612	09/25/86	09/25/86	6	6
8800147	044008	C125	4900	49YJ	YC8613	11/15/86	11/19/86	34	34
8800147	044009	C125	4900	49YJ	YC8614	12/03/86	12/07/86	12	12
8800147	044010	C125	4900	49YJ	YC8615	12/22/86	12/24/86	10	10
8800147	044011	C125	4900	49ZS		04/07/86	05/04/86	35	35
8800147	044012	C125	4900	49ZS		05/31/86	06/24/86	135	135
8800147	044013	C125	4900	49ZS		07/09/86	07/31/86	42	42
8800147	044014	C125	4900	49ZS		08/21/86	09/14/86	73	73
8800147	044015	C125	4900	49ZS		09/25/86	11/14/86	165	165
8800147	044016	C125	4900	49AC		02/26/86	03/15/86	22	22
8800147	044017	C125	4900	49AC	ZA8604	04/27/86	05/28/86	25	25
8800147	044018	C125	4900	49AC	ZA8607	06/27/86	07/04/86	10	10
8800147	044019	C125	4900	49AC	ZA8608	07/30/86	07/30/86	5	5
8800147	044020	C125	4900	49AC	ZA8609	09/22/86	09/23/86	16	16
8800147	044021	C125	4900	49AC	ZA8610	10/22/86	10/27/86	27	27
8800147	044022	C125	4900	49AC	ZA8611	11/27/86	11/30/86	28	28
8800147	044023	C125	4900	49TU	CH8601	01/24/86	02/23/86	76	76
8800147	044024	C125	4900	49TU	CH8604	04/23/86	05/16/86	75	75
8800147	044025	C125	4900	49TU	CH8607	07/05/86	07/31/86	84	84
8800147	044026	C125	4900	49TU	CH8610	10/01/86	10/27/86	89	89
8800147	044027	C125	4900	49EK	KE8601	01/20/86	02/17/86	5	5
8800147	044028	C125	4900	49EK	KE8602	03/10/86	03/15/86	5	5
8800147	044029	C125	4900	49EK	KE8603	04/21/86	04/21/86	1	1
8800147	044030	C125	4900	49EK	KE8604	05/16/86	05/27/86	10	10
8800147	044031	C125	4900	49EK	KE8605	06/23/86	07/16/86	20	20
8800147	044032	C125	4900	49EK	KE8606	08/09/86	08/22/86	12	12
8800147	044033	C125	4900	49EK	KE8607	10/01/86	10/13/86	11	11
8800147	044034	C125	4900	49EK	KE8608	11/03/86	11/08/86	5	5
8800147	044035	C125	4900	49EK	KE8608	11/19/86	11/21/86	3	3
8800147	044036	C125	4900	49KF	KO8601	01/20/86	01/21/86	30	30
8800147	044037	C125	4900	49KF	KO8602	02/10/86	02/23/86	58	58
8800147	044038	C125	4900	49KF	KO8602	03/11/86	03/11/86	1	1
8800147	044039	C125	4900	49KF	KO8604	04/18/86	05/16/86	84	84
8800147	044040	C125	4900	49KF	KO8606	07/01/86	07/26/86	109	109
8800147	044041	C125	4900	49KF	KO8608	08/11/86	08/28/86	86	86
8800147	044042	C125	4900	49KF	KO8610	10/04/86	11/06/86	67	67
8800147	044043	C125	4900	49RY	RY8601	01/19/86	01/31/86	42	42
8800147	044044	C125	4900	49RY	RY8604	05/02/86	05/12/86	16	16
8800147	044045	C125	4900	49RY	RY8606	06/06/86	07/20/86	79	79
8800147	044046	C125	4900	49RY	RY8610	10/02/86	10/04/86	6	6
8800147	044047	C125	4900	49RY	RY8611	11/07/86	12/03/86	51	51
8800147	044048	C125	4900	49SU	SH8602	02/04/86	02/23/86	53	53
8800147	044049	C125	4900	49SU	SH8604	04/18/86	05/12/86	106	106
8800147	044050	C125	4900	49SU	SH8607	07/04/86	07/26/86	99	99
8800147	044051	C125	4900	49SU	SH8608	08/31/86	09/01/86	12	12
8800147	044052	C125	4900	49SU	SH8609	09/26/86	10/21/86	79	79

8800147	044053	C125	4900	49SH	SI8602	02/07/86	03/08/86	66	66
8800147	044054	C125	4900	49SH	SI8605	05/08/86	05/28/86	83	83
00147	044055	C125	4900	49SH	SI8607	07/08/86	07/31/86	68	68
00147	044056	C125	4900	49SH	SI8609	09/25/86	10/05/86	40	40
8800147	044057	C125	4900	49SC		07/05/86	07/10/86	43	43
8800147	044058	C125	4900	49SC		08/12/86	08/24/86	33	33

=====

ACCESSION NO. 8800147

FILETYPE _____

TRACK NO. _____

PROJECT
IDENTIFICATION _____SD, STD, CTD, XBT, DBT, GEXJAPAN NODC

STEP	DATE	INIT.	TAPE OR DISK DSN.	NO. FILES	LRCL	BLK	SIZE	REC
ORIG. TAPE	6/6/88	H	^{W02734} A00740 - 88-039A	6	VAR	VAR		
DUPLICATE TAPE	6/22/88	H	W06562 (EBDIC)	5	VAR	VAR		
REFORMATTED TAPE	2-1-89	R.P.S.	W06562 W10024*	1	VAR	VAR		
REFORMATTED DISK								
FIRST MULCHEK								
FINAL MULCHEK								
MPD75 OR F022								
DATA SET FINALIZED								

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

GEX FILE NOT COPIED IN TAPE W06562

* D NODC * UBTOUT.

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

[illegible]

ITEM NO.

- 1: MBT
2: XBT
3: DBT

CURRENT MEASUREMENT DATA FORMAT

COUNTRY CODE				SHIP CODE		POSITION											MARS DEN SQUARE		DATE			GMT		STATION NO.				DEPTH (m)				CURRENT		SURFACE TEMP.		WIND		STATION NO.								DRIFT		PROJECT NAME						REF. ID. NO.				CONSEC. NO.																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
						LAT. ° ' "																																																																									
						LONG. ° ' "																																																																									
				S N													E W																																																														

TRANSMITTAL AND RECEIPT RECORD

(Transmittal Notice)



WORLD DATA CENTER A

Oceanography

National Oceanic and Atmospheric Administration
Washington, D. C. 20235, U.S.A.

CABLE ADDRESS: WORLDATA

TEL: AREA CODE (202) 343-4064

39.0/4 (26.V.88)

TO: Dr. A. R. Picciolo NODC Code E/OC13	REFER TO:
	ATTENTION:

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

☐ Surface Mail ☐ Air Mail ☐ Registered Mail ☐ Surface Parcel Post ☐ Air Parcel Post ☒ By Hand ☐ Other _____

One magnetic tape (No. 88-039A) containing oceanographic station data, STD, CTD, XBT, DBT, and GEK data collected during DNP cruises by Japanese vessels during 1987.

Copies of forwarding letter, tape specifications, file format descriptions, tapescan of each data type, and our receipt acknowledgement.

8800147
A00740



FORWARDED BY (Signature)

Ronald E. Moffatt

DATE FORWARDED

TITLE

Associate Director

26 May 1988

Oceanographic Department
Maritime Safety Agency
5-3-1, Tsukiji, Chuo-ku, Tokyo
104 JAPAN

TRANSMITTAL AND RECEIPT RECORD

(Please return signed acknowledgement copy)

To: Director National Oceanographic Data Center, NOAA		Refer to: Data Exchange Agreement Between NODC and JODC
		Attention
The item listed below were forwarded to you by <input type="checkbox"/> Surface mail <input checked="" type="checkbox"/> Air mail	Description of parcels <input type="checkbox"/> Chest <input checked="" type="checkbox"/> Parcel <input type="checkbox"/> Cardboard box <input type="checkbox"/> Other	Number of parcels
<p>a; Magnetic Tape 1 Reel Reel No 88-039A containing serial oceanographic Station Data, XBT, DBT, GEK, CTD, and STD Data (for 1987)</p> <p>b; Each File Dump List</p> <p>c; Each Magnetic Tape Specification</p> <p>d; Each File Format Description</p>		
Forwarded by (signature) Takumi Mori	Title Director of Japan Oceanographic Data Center	Date forwarded
Received by (signature)	Title	Date received

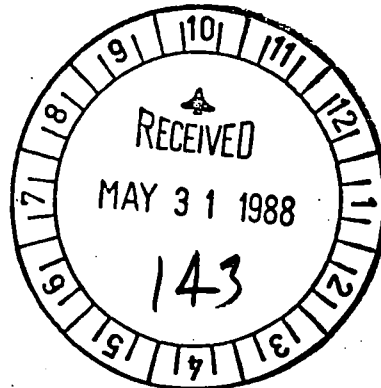
NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC
ADMINISTRATION
WASHINGTON, D.C. 20205 U.S.A.

8800147
A00740

27 May 1988

24/3

Dr. Takumi Mori
Director
Japan Oceanographic Data Center
Hydrographic Department
Maritime Safety Agency
No. 3-1, Tsukiji
5-Chome, Chuo-ku
Tokyo 104, Japan



Dear Dr. Mori:

We gratefully acknowledge receipt of one magnetic tape (No. 88-039A) containing oceanographic station data, STD, CTD, XBT, DBT, and GEK data collected by Japanese vessels during 1987 DNP cruises and forwarded with your letter No. 186/88 of 14 May 1988. The tape has been forwarded to NODC for processing.

We also acknowledge with appreciation receipt of Korean TESAC data for February 1988, forwarded with your letter Ref. 155/88 of 20 April.

Thank you for your contributions and continued support of the World Data Center System.

Sincerely yours,

Ronald E. Moffatt
Associate Director

bcc: OC
WDC-A, Oceanography

WDC-A:EGTrainmell:clf:5/26/88

JAPAN OCEANOGRAPHIC DATA CENTER

Hydrographic Department
Maritime Safety Agency

3-1, TSUKIJI 5-CHOME, CHUO-KU, TOKYO, 104 JAPAN.

JODC 186/88

May 14, 1988

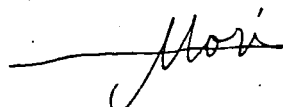
Dr. James Churgin
Director
WDC-A (Oceanography)
NOAA
Washington, D.C. 20235
U. S. A.

Dear Dr. Churgin,

The Japan Oceanographic Data Center has great pleasure in providing under separate cover by air all Oceanographic data resulting from DNPs collected by the JODC last year under the Data Exchange Agreement of May 26, 1976 between JODC and NOAA's NODC.

We look forward to further exchange of marine information between the two centers.

Sincerely yours,



Takumi MORI
Director of JODC

REEL NUMBER : 88-039A¹

CONTENTS : XBT, DBT, GEK, CTD, STD, and Series
Oceanographic Station Data (for 1987)

TRACKS : 9

DENSITY : 6250 bpi

TAPE LABEL : Non-label

RECORD LENGTH : 51 bytes for CTD, STD, and Station Data
80 bytes for XBT, DBT, and Station Data
84 bytes for GEK

BLOCK SIZE : 40 Records/Block for GEK
~~51 Records/Block for Station Data~~
80 Records/Block for CTD, STD, and Station Data
100 Records/Block for XBT, DBT

RECORDING CODE : EBCDIC

MULTI-REEL FILE : No

MULTI-FILE REEL : Yes

NUMBER OF REEL : 1.

SORTING SEQUENCE : Country Code, Cruise ID, Consecutive No

TO BE RETURNED : No

LIST OF FILE NAMES

	File Name	File Code	No. of Stn.	
FIRST FILE :	XBT Data	XBT-87s	3302 Stations	C125
SECOND FILE :	DBT Data	DBT-87s	1707 Stations	C125
THIRD FILE :	GEK Data	GEK-87s	5437 Stations	
FOURTH FILE :	CTD Data	CTD-87s	1085 Stations	C100 DTS
FIFTH FILE :	STD Data	STD-87s	306 Stations	
SIXTH FILE :	Station Data	ST-87s	1768 Stations	- C100

Dump List

REC SIZE BYTE

1 1 8000

XBT

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*2121 31450N132000E86052112121 001 J2861301000101121 201 200 200 200 2*
101 *00 200 200 200 200 199 191 186 185 182 2861301000102221 180 *
201 * 286130100010322121 31150N132000E86052116521 002 *
301 * J2861301000201121 206 205 206 199 184 167 155 150 147 126 107 096 086 074 072 28613010002022*
401 *21 060 286130100020322121 30450N132000*
501 *E86052200021 003 J2861301000301121 246 245 245 238 228 213 205 200 187 1*
601 *62 147 136 120 105 088 2861301000302221 071 *
701 * 286130100030322121 30150N132000E86052206121 004 J28613010004011*
801 *21 245 245 246 246 246 241 234 208 200 184 169 153 140 110 085 2861301000402221 071 *
901 * 286130100040322121 29450N132000E86052215621 005 *
1001 * J2861301000501121 245 246 247 246 234 233 228 222 204 184 173 152 137 128 1*
1101 *22 2861301000502221 106 28613010005032*
1201 *2121 29193N132000E86052221721 006 J2861301000601121 249 249 248 248 2*
1301 *47 238 229 213 206 190 178 167 155 141 122 2861301000602221 100 *
1401 * 286130100060322121 28561N132400E86052407921 007 *
1501 * J2861301000701121 246 245 245 246 234 222 213 208 203 195 185 178 168 156 143 28613010007022*
1601 *21 131 286130100070322121 28430N133200*
1701 *E86052410021 008 J2861301000801121 246 245 246 247 247 232 223 209 201 1*
1801 *90 181 173 167 157 143 2861301000802221 129 *
1901 * 286130100080322121 33450N138000E86060618821 009 J28613010009011*
2001 *21 193 187 180 179 168 146 135 130 116 106 095 076 067 059 055 2861301000902221 049 *
2101 * 286130100090322121 33150N138000E86060723321 010 *
2201 * J2861301001001121 224 207 207 206 163 143 126 115 106 084 073 070 064 059 0*
2301 *54 2861301001002221 049 28613010010032*
2401 *2121 32450N138000E86060803921 011 J2861301001101121 243 240 241 241 2*
2501 *41 205 178 160 150 133 113 097 035 072 066 2861301001102221 054 *
2601 * 286130100110322121 32150N138000E86060809621 012 *
2701 * J2861301001201121 244 242 241 241 239 221 208 200 191 178 175 167 158 144 132 28613010012022*
2801 *21 118 286130100120322121 31450N138000*
2901 *E86060814621 013 J2861301001301121 233 232 233 233 218 205 199 195 188 1*
3001 *81 179 177 171 163 154 2861301001302221 142 *
3101 * 286130100130322121 31150N138000E86060819321 014 J28613010014011*
3201 *21 228 222 223 221 216 203 200 196 191 181 177 170 161 153 143 2861301001402221 128 *
3301 * 286130100140322121 30000N138000E86060905721 015 *
3401 * J2861301001501121 232 230 224 213 192 190 185 180 176 174 169 162 151 141 1*
3501 *27 2861301001502221 114 28613010015032*
3601 *2121 30105N138390E86060912721 016 J2861301001601121 223 221 218 216 2*
3701 *13 202 193 186 177 172 170 169 170 168 165 2861301001602221 152 *
3801 * 286130100160322121 30435N139190E86060915221 017 *
3901 * J2861301001701121 223 222 222 219 217 207 189 182 179 176 172 170 166 158 147 28613010017022*
4001 *21 136 286130100170322121 31560N140380*
4101 *E86060921521 018 J2861301001801121 225 221 221 221 219 207 199 189 185 1*
4201 *78 174 168 160 149 138 286130100180222121 32360N141130E86061000321 019 *
4301 * J2861301001901121 245 242 241 242 242 235 208 192 187 172 162 132 121 113 105 28613010019022*
4401 *21 095 286130100190322121 33366N141427*
4501 *E86061000521 020 J2861301002001121 235 235 236 234 223 196 186 181 178 1*
4601 *73 168 161 147 134 121 2861301002002221 103 *
4701 * 286130100200322121 33599N141221E86061005221 021 J28613010021011*
4801 *21 236 235 223 218 208 184 173 163 158 137 127 112 096 085 073 2861301002102221 069 *
4901 * 286130100210322121 34231N140594E86061009421 022 *
5001 * J2861301002201121 198 196 195 183 166 155 147 136 127 113 097 085 079 063 0*
5101 *54 2861301002202221 054 28613010022032*
5201 *2121 34460N140350E86061023621 023 J2861301002301121 204 199 196 186 1*
5301 *57 153 146 138 130 112 099 083 074 062 055 2861301002302221 050 *
5401 * 286130100230322121 35296N141294E86061108121 024 *
5501 * J2861301002401121 210 210 197 188 170 159 150 143 137 124 108 099 083 076 068 28613010024022*
5601 *21 060 286130100240322121 35168N142021*
5701 *E86061112821 025 J2861301002501121 223 222 223 222 205 185 178 177 175 1*
5801 *69 165 155 142 126 110 2861301002502221 102 *
5901 * 286130100250322121 35041N142348E86061118621 026 J28613010026011*

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6001 *21 207 207 207 207 184 180 178 177 175 171 168 167 162 154 143 2861301002602221 132 *
6101 * 286130100260322121 34514N143076E86061122721 027 *
6201 * J2861301002701121 211 205 204 201 193 181 178 177 175 172 168 166 162 153 1*
6301 *45 2861301002702221 133 28613010027032*
6401 *2121 35240N144000E86061205221 028 J2861301002801121 216 215 217 215 2*
6501 *04 196 185 180 179 171 168 155 143 128 117 2861301002802221 100 *
6601 * 286130100280322121 36000N144321E86061207921 029 *
6701 * J2861301002901121 161 158 150 140 105 067 064 090 087 081 073 063 033 036 036 28613010029022*
6801 *21 054 286130100290322121 36300N144450*
6901 *E86061213521 030 J2861301003001121 198 190 168 159 133 103 079 070 073 0*
7001 *62 057 054 051 048 047 2861301003002221 044 *
7101 * 286130100300322121 36300N144150E86061217621 031 J28613010031011*
7201 *21 186 176 173 169 138 122 100 077 076 061 052 045 035 042 051 2861301003102221 047 *
7301 * 286130100310322121 36300N144000E86061219821 032 *
7401 * J2861301003201121 214 202 184 147 126 119 107 094 066 049 063 070 066 057 0*
7501 *54 2861301003202221 049 28613010032032*
7601 *2121 36300N143450E86061221121 033 J2861301003301121 201 188 169 133 1*
7701 *02 106 092 081 076 044 045 037 037 037 043 2861301003302221 047 *
7801 * 286130100330322121 36300N143300E86061223621 034 *
7901 * J2861301003401121 209 200 149 145 122 098 094 065 059 070 040 047 053 058 054 28613010034022*

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*** DUMP END

** POSITION AT T.M = 1 (SKIPED RECORD = 77)

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101				*45 132 131 125 109 102 090 084 077 068 3861101000102249 060 055 053 052 050 047 044 040 *
201				* 3861101000103249RY 3320 N13701 E860119166RY86002RY860123850432137129 *
301				*04042X3861101000201149 201 201 201 201 199 186 178 167 143 122 105 094 083 072 38611010002022*
401				*49 062 052 050 045 043 041 038 3861101000203249RY 3240 N13659 *
501				*E860119232RY86003RY860140600624160144 06032X3861101000301149 192 192 193 192 193 193 189 1*
601				*74 169 163 153 143 132 3861101000302249 121 107 097 085 075 070 063 *
701				* 3861101000303249RY 3159 N13700 E860120047RY86004RY860141800415140159 04022X38611010004011*
801				*49 191 191 191 191 191 191 191 191 184 180 172 164 158 149 3861101000402249 137 126 112 099 0*
901				*87 073 065 056 3861101000403249RY 3100 N13700 E860120112RY86005RY8*
1001				*60143053408156161 34012X3861101000501149 192 192 192 192 192 192 192 186 174 168 158 1*
1101				*49 3861101000502249 137 123 114 096 086 076 068 056 38611010005032*
1201				*49RY 3000 N13700 E860120178RY86006RY860144753613147160 36012X3861101000601149 190 190 190 190 1*
1301				*90 190 190 182 176 170 165 159 151 142 3861101000602249 127 114 099 090 078 068 061 051 *
1401				* 3861101000603249RY 2900 N13700 E860121019RY86007RY860143853517145169 *
1501				*35012X3861101000701149 189 189 189 189 189 189 187 178 171 165 159 148 135 38611010007022*
1601				*49 123 110 097 085 074 064 056 048 3861101000703249RY 2800 N13700 *
1701				*E860121082RY86008RY860143453514135171 35012X3861101000801149 204 204 204 204 203 201 198 187 1*
1801				*81 176 169 163 154 138 3861101000802249 123 110 098 082 072 064 059 049 *
1901				* 3861101000803249RY 2700 N13700 E860121152RY86009RY860146603117133181 31012X38611010009011*
2001				*49 203 204 204 204 204 203 200 191 181 172 166 158 147 3861101000902249 127 115 097 083 0*
2101				*72 065 058 049 3861101000903249RY 2600 N13700 E860121214RY86010RY8*
2201				*60155502817119195 28012X3861101001001149 220 221 221 221 220 220 219 208 187 177 167 157 146 1*
2301				*36 3861101001002249 128 107 096 083 070 064 054 046 38611010010032*
2401				*49RY 2500 N13700 E860122148RY86011RY860152003524128188 35042X3861101001101149 227 227 227 227 2*
2501				*27 226 225 218 192 178 165 158 149 139 3861101001102249 122 109 092 080 072 063 055 *
2601				* 3861101001103249RY 2400 N13659 E860123010RY86012RY860139403419154192 *
2701				*34032W3861101001201149 222 222 222 222 222 222 208 186 175 164 158 147 131 38611010012022*
2801				*49 112 101 091 078 067 060 054 045 3861101001203249RY 2300 N13700 *
2901				*E860123079RY86013RY860129903316165193 33012W3861101001301149 226 226 226 226 222 218 196 1*
3001				*79 169 160 150 139 126 3861101001302249 109 099 087 072 065 058 051 043 *
3101				* 3861101001303249RY 2200 N13700 E860123143RY86014RY860144103617189205 36022W38611010014011*
3201				*49 247 247 247 247 238 231 228 201 183 170 161 150 136 122 3861101001402249 109 096 083 070 0*
3301				*61 056 052 043 3861101001403249RY 2100 N13700 E860123204RY86015RY8*
3401				*60147200119180211 01022W3861101001501149 256 256 256 256 248 246 236 203 183 172 163 153 142 1*
3501				*23 3861101001502249 111 094 083 073 065 058 053 044 38611010015032*
3601				*49RY 2000 N13700 E860124031RY86016RY860144600321184230 03032W3861101001601149 252 253 253 253 2*
3701				*53 253 253 218 195 175 165 155 138 122 3861101001602249 104 084 075 064 059 054 050 045 *
3801				* 3861101001603249RY 1900 N13700 E860124117RY86017RY860146150721181237 *
3901				*07032W3861101001701149 253 254 254 254 254 250 238 208 183 168 154 139 122 105 38611010017022*
4001				*49 088 078 072 068 058 052 049 042 3861101001703249RY 1800 N13700 *
4101				*E860124178RY86018RY860146850722159241 07032W3861101001801149 253 253 253 253 249 233 210 1*
4201				*82 166 152 138 120 099 3861101001802249 086 075 068 062 057 054 050 044 *
4301				* 3861101001803249RY 1700 N13700 E860125000RY86019RY860146050727163258 07032W38611010019011*
4401				*49 266 266 266 266 266 266 260 233 198 178 160 143 122 103 3861101001902249 091 079 071 065 0*
4501				*59 056 052 046 3861101001903249RY 1600 N13700 E860125063RY86020RY8*
4601				*60151300727118262 07042W3861101002001149 267 267 267 267 267 263 232 193 173 160 147 126 1*
4701				*07 3861101002002249 093 081 073 066 061 057 053 048 38611010020032*
4801				*49RY 1500 N13700 E860125128RY86021RY860152350623130263 06032W3861101002101149 274 275 275 275 2*
4901				*75 275 267 238 193 172 153 137 113 090 3861101002102249 084 072 068 064 059 056 053 047 *
5001				* 3861101002103249RY 1400 N13700 E860125210RY86022RY860148750825116254 *
5101				*08032W3861101002201149 277 277 277 277 277 279 262 238 200 163 130 115 099 089 38611010022022*
5201				*49 080 073 068 064 061 059 057 3861101002203249RY 1300 N13700 *
5301				*E860126032RY86023RY860146901022106268 10042W3861101002301149 279 279 279 279 279 279 278 231 1*
5401				*81 142 114 100 087 079 3861101002302249 072 067 064 061 058 056 055 050 *
5501				* 3861101002303249RY 1200 N13700 E860126097RY86024RY860147950827106276 08042W38611010024011*
5601				*49 281 281 281 281 281 280 236 171 142 114 095 080 075 3861101002402249 069 065 061 059 0*
5701				*56 053 050 046 3861101002403249RY 1100 N13700 E860126164RY86025RY8*
5801				*60149750821092270 08032W3861101002501149 281 281 281 281 281 281 270 211 159 117 095 084 077 0*
5901				*70 3861101002502249 065 062 060 057 054 052 050 045 38611010025032*

6001 *49RY 1000 N13700 E860126227RY86026RY860149750921119280 09022W3861101002601149 280 280 280 280 2*
6101 *80 263 245 190 128 111 092 081 081 074 3861101002602249 072 069 066 062 059 058 055 050 *
6201 * 3861101002603249RY 0900 N13700 E860127077RY86027RY860130601014094279 *
6301 *10012W3861101002701149 282 282 281 281 279 240 205 166 118 102 093 087 084 081 38611010027022*
6401 *49 077 072 069 065 063 060 057 3861101002703249RY 0800 N13700 *
6501 *E860127138RY86028RY860135250818101278 08022W3861101002801149 281 282 281 282 270 239 197 146 1*
6601 *17 098 089 083 081 078 3861101002802249 076 074 071 068 064 062 059 054 047 *
6701 * 3861101002803249RY 0700 N13700 E860127226RY86029RY860141600921118283 09032W38611010029011*
6801 *49 282 282 282 282 264 234 207 144 120 100 090 085 082 078 3861101002902249 075 074 071 068 0*
6901 *66 061 060 056 3861101002903249RY 0600 N13700 E860128075RY86030RY8*
7001 *60141650819093282 08022W3861101003001149 285 285 285 285 284 276 253 167 125 104 090 085 082 0*
7101 *78 3861101003002249 075 072 070 067 065 060 058 054 38611010030032*
7201 *49RY 0500 N13700 E860128163RY86031RY860149750618082281 06022W3861101003101149 289 289 289 289 2*
7301 *86 267 252 226 149 112 095 085 082 077 3861101003102249 074 071 067 065 062 058 055 050 *
7401 * 3861101003103249RY 0430 N13700 E860128237RY86032RY860149250517102290 *
7501 *05022W3861101003201149 291 291 291 291 286 265 255 231 178 121 104 090 083 079 38611010032022*
7601 *49 073 070 067 065 062 058 055 049 3861101003203249RY 0400 N13700 *
7701 *E860129054RY86033RY860146600416073292 04022W3861101003301149 293 293 292 291 270 263 255 228 1*
7801 *88 131 125 102 087 080 3861101003302249 075 072 068 063 060 057 055 051 *
7901 * 3861101003303249RY 0330 N13700 E860129115RY86034RY860144500319092286 03022W38611010034011*

*** DUMP END

** POSITION AT T.M = 1 (SKIPED RECORD = 37)

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8800147	493461	C100		4900	490S	853208	11/13/85	11/18/85	19	206
8800147	493462	C100		4900	490S	853208	11/28/85	12/04/85	13	273
8800147	493463	C100		4900	49TK	860002	02/06/86	03/16/86	112	3,062
8800147	493464	C100		4900	492S	860008	05/31/86	06/16/86	57	1,069
8800147	493465	C100		4900	492S	860012	08/22/86	08/29/86	29	684
8800147	493466	C100		4900	492S	860014	09/14/86	09/21/86	40	800
8800147	493467	C100		4900	492S	860016	10/22/86	11/13/86	72	1,094
8800147	493468	C100		4900	49SO	862405	06/19/86	06/29/86	91	1,749
8800147	493469	C100		4900	49SO	862407	09/04/86	09/19/86	75	1,018
8800147	493470	C100		4900	49SC	862501	02/08/86	02/25/86	73	843
8800147	493471	C100		4900	49SC	862502	03/04/86	03/12/86	49	566
8800147	493472	C100		4900	49SC	862504	08/08/86	08/11/86	14	204
8800147	493473	C100		4900	490S	863202	04/01/86	04/04/86	15	223
8800147	493474	C100		4900	49H5	863203	04/01/86	04/09/86	18	154
8800147	493475	C100		4900	490S	863205	06/12/86	07/11/86	82	1,456
8800147	493476	C100		4900	490S	863205	07/24/86	08/05/86	59	330
8800147	493477	C100		4900	490S	863206	09/01/86	09/02/86	7	129
8800147	493478	C100		4900	4999	86SA01	09/22/86	09/30/86	55	848
8800147	493479	C100		4900	49SO	872401	01/20/87	02/16/87	76	1,075
8800147	493480	C100		4900	49SO	872402	02/28/87	03/19/87	59	964
8800147	493481	C100		4900	49SO	872403	04/11/87	04/24/87	57	1,057
8800147	493482	C100		4900	49CG	874501	05/19/87	05/31/87	13	442
8800147	493483	C100		4900	49SC	862314	05/21/86	06/07/86	119	1,657
8800147	493484	C100		4900	49K6	862315	08/30/86	09/17/86	93	1,337
8800147	493485	C100		4900	49YK	872611	10/02/87	10/13/87	21	154
8800147	760198	C100		7600	76SH	861401	05/23/86	05/30/86	31	344
8800147	760199	C100		7600	76SH	861401	06/13/86	06/29/86	42	584

09

13

1,391
STA.

22, 322
Rec.

2.50 MB

MRM1 - MRM21 - (493461 - 493482)
 MRM23 - 24 (760198 - 760199)
 MRM25 - MRM27 (493483 - 493485)
~~MRM28 - 29~~
 SPUNK - 9/15/89

ACCESSION NO. 8800147

FILETYPE

TRACK NO.

PROJECT
IDENTIFICATION

SD, STD, CTD, XBT, DBT, GEK

JAPAN NODC

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NC RECC
ORIG. TAPE	6/6/88	H	00273Y A00740 - 88-039A	6	VAR	VAR	
DUPLICATE TAPE	6/22/88	H	W06562 (EBCHK)	5	VAR	VAR	
REFORMATTED TAPE	2/3/88	R.P.S.	W 13155 **	1	112	11200	(391)
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

GEK FILE NOT COPIED IN TAPE W06562

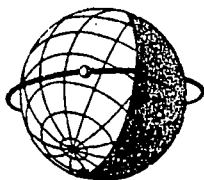
** DNODC: * JAPAN.

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

TRANSMITTAL AND RECEIPT RECORD

(Transmittal Notice)



WORLD DATA CENTER A

Oceanography

CABLE ADDRESS: WORLDATA

National Oceanic and Atmospheric Administration

TEL: AREA CODE (202) 343-4084

Washington, D. C. 20235, U.S.A.

39.0/4 (26.V.88)

TO: Dr. A. R. Picciolo
NODC
Code E/OC13

REFER TO:

ATTENTION:

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

☐ Surface Mail ☐ Air Mail ☐ Registered Mail ☐ Surface Parcel Post ☐ Air Parcel Post ☒ By Hand ☐ Other _____

One magnetic tape (No. 88-039A) containing oceanographic station data, STD, CTD, XBT, DBT, and GEK data collected during DNP cruises by Japanese vessels during 1987.

Copies of forwarding letter, tape specifications, file format descriptions, tapescan of each data type, and our receipt acknowledgement.

8800147
A00740



FORWARDED BY (Signature)

Ronald E. Moffatt

DATE FORWARDED

TITLE

Associate Director

26 May 1988

Japan Oceanographic Data Center
Hydrographic Department
Maritime Safety Agency
5-3-1, Tsukiji, Chuo-ku, Tokyo
104 JAPAN

TRANSMITTAL AND RECEIPT RECORD

(Please return signed acknowledgement copy)

To: Director National Oceanographic Data Center, NOAA		Refer to: Data Exchange Agreement Between NODC and JODC
		Attention
The item listed below were forwarded to you by <input type="checkbox"/> Surface mail <input checked="" type="checkbox"/> Air mail	Description of parcels <input type="checkbox"/> Chest <input checked="" type="checkbox"/> Parcel <input type="checkbox"/> Cardboard box <input type="checkbox"/> Other	Number of parcels
 a; Magnetic Tape 1 Reel Reel No 88-039A containing serial oceanographic Station Data, XBT, DBT, GEK, CTD, and STD Data (for 1987) b; Each File Dump List c; Each Magnetic Tape Specification d; Each File Format Description		
Forwarded by (signature) Takumi Mori	Title Director of Japan Oceanographic Data Center	Date forwarded
Received by (signature)	Title	Date received

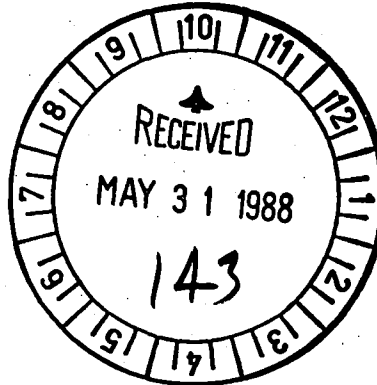
WORLD DATA CENTER A
OCEANOGRAPHY
NATIONAL OCEANIC AND ATMOSPHERIC
ADMINISTRATION
WASHINGTON, D.C. 20255 U.S.A.

8800147
A00740

27 May 1988

24/3

Dr. Takumi Mori
Director
Japan Oceanographic Data Center
Hydrographic Department
Maritime Safety Agency
No. 3-1, Tsukiji
5-Chome, Chuo-ku
Tokyo 104, Japan



Dear Dr. Mori:

We gratefully acknowledge receipt of one magnetic tape (No. 88-039A) containing oceanographic station data, STD, CTD, XBT, DBT, and GEK data collected by Japanese vessels during 1987 DNP cruises and forwarded with your letter No. 186/88 of 14 May 1988. The tape has been forwarded to NODC for processing.

We also acknowledge with appreciation receipt of Korean TESAC data for February 1988, forwarded with your letter Ref. 155/88 of 20 April.

Thank you for your contributions and continued support of the World Data Center System.

Sincerely yours,

Ronald E. Moffatt
Associate Director

bcc: OC
WDC-A, Oceanography

WDC-A:EGTranmell:clf:5/26/88

JAPAN OCEANOGRAPHIC DATA CENTER

Hydrographic Department
Maritime Safety Agency
3-1, TSUKIJI 5-CHOME, CHUO-KU, TOKYO, 104 JAPAN.

JODC 186/88

May 14, 1988

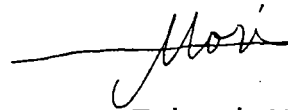
Dr. James Churgin
Director
WDC-A (Oceanography)
NOAA
Washington, D.C. 20235
U. S. A.

Dear Dr. Churgin,

The Japan Oceanographic Data Center has great pleasure in providing under separate cover by air all Oceanographic data resulting from DNPs collected by the JODC last year under the Data Exchange Agreement of May 26, 1976 between JODC and NOAA's NODC.

We look forward to further exchange of marine information between the two centers.

Sincerely yours,



Takumi MORI
Director of JODC

MAGNETIC TAPE SPECIFICATION

REEL NUMBER : 88-039A
 CONTENTS : XBT, DBT, GEK, CTD, STD, and Series Oceanographic Station Data (for 1987)
 TRACKS : 9
 DENSITY : 6250 bpi
 TAPE LABEL : Non-label
 RECORD LENGTH : 51 bytes for CTD, STD, and Station Data
 80 bytes for XBT, DBT, and Station Data
 84 bytes for GEK
 BLOCK SIZE : 40 Records/Block for GEK
~~51 Records/Block for Station Data~~
 80 Records/Block for CTD, STD, and Station Data
 100 Records/Block for XBT, DBT
 RECORDING CODE : EBCDIC
 MULTI-REEL FILE : No
 MULTI-FILE REEL : Yes
 NUMBER OF REEL : 1.
 SORTING SEQUENCE : Country Code, Cruise ID, Consecutive No
 TO BE RETURNED : No

LIST OF FILE NAMES

	File Name	File Code	No. of Stn.	
FIRST FILE :	XBT Data	XBT-87s	3302 Stations	C125
SECOND FILE :	DBT Data	DBT-87s	1707 Stations	C125
THIRD FILE :	GEK Data	GEK-87s	5437 Stations	
FOURTH FILE :	CTD Data	CTD-87s	1085 Stations	C100 DTS
FIFTH FILE :	STD Data	STD-87s	306 Stations	
SIXTH FILE :	Station Data	ST-87s	1768 Stations	- C100

NAME HALMIŃSKI	PHONE # 673-5643	ORG/TASK #	DATE SUBMITTED 6/6/88	DATE DUE	BIR #
--------------------------	----------------------------	------------	------------------------------------	----------	-------

INSTRUMENT TO BE USED AND FUNCTION TO BE PERFORMED

**COPY TAPE EXCEPT CANCEL FILE No 3. COPY ONLY
FILES 1, 2, 4, 5, 6. SCAN OUTPUT**

8800147

INPUT MEDIUM PAPER CARD DISK <u>TAPE</u> DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK <u>PRINT</u> <u>TAPE</u> PLOT DISKETTE OTHER(SPECIFY)
--	---

TAPE/DISKETTE INFORMATION

TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
A00740		9	6250		NL	VAR	VAR	VAR	6
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII <u>EBCDIC</u> BCD SDF. OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY TYPE	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILES
W06562		9	6250		NL	VAR	VAR		5
SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

NEED 'W' TAPE

ESTIMATED
EXECUTION
TIME

21 USE ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
68060603	6/20/88	13:10	13:25	C	COMPLETED BY ANDY

REMARKS

OPER NAME HALMIŃSKI	PHONE # 673-5643	ORG/TASK #	DATE SUBMITTED 6/2/88	DATE DUE	BIN #
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SHIPMENT TO BE USED AND FUNCTION TO BE PERFORMED
SCAN

8800147

INPUT MEDIUM PAPER CARD DISK TAPE DISKETTE OTHER(SPECIFY)	OUTPUT MEDIUM CARD DISK PRINT TAPE PLOT DISKETTE OTHER(SPECIFY)
--	---

TAPE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILE
INPUT	A00740		9	6250		NL	VAR	VAR		6
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
OUTPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILE
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURGE DATE

SPECIAL INSTRUCTIONS

ESTIMATED
EXECUTION
TIME

FOR USER ONLY

#	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
42660301	6/6/88	10:40	10:45	C	COMPLETED BY JS.

SERIAL STATION DATA,CTD & STD FORMAT

HEADER-1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
RECORD TYPE	NEXT RECORD	JODC CRUISE REFERENCE NUMBER												SHIP CODE	LAT.			LONG.			DATE				STATION NO.	DEPTH TO BOTTOM																								
		COUNTRY CODE	YEAR	INSTITUTE CODE	CONSECUTIVE CRUISE NUMBER	CONSECUTIVE STATION NUMBER	DEG.	N/S	MIN.	DEG.	MIN.	W/E	YEAR		MONTH	DAY	TIME																																	

- 1) RECORD TYPE
 - 1 : HEADER-1
 - 2 : HEADER-2
 - 3 : OBSERVATION DATA
 - 6 : STANDARD DATA

HEADER-2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
RECORD TYPE		NEXT RECORD		WATER		WAVE			WIND			BAR			AIR TEMP.				WEATHER		CL OUD TYPE		VIS		NO. OF DETAIL					SQUARE KYE					FILLER		SAL-ID													
				TRANS.					DIR																TOTAL NO					10DEG																				
				COLOR																					STANDARD					5 DEG																				
																									OBS.																									

- 2) NEXT RECORD
RECORD IDENTIFIER OF NEXT RECORD
- 3) FLAG
 - 0 : NORMAL
 - 1 : DOUBTFUL VALUE BY THE ORIGINATOR
 - 2 : DOUBTFUL VALUE BY JODC
 - 3 : NEGLECTED VALUE
IN THE INTERPOLATION

OBSERVATION DATA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
RECORD TYPE	NEXT RECORD	DEPTH		TEMP.			SAL.			DO			PO4-P			T-P			NO2-N			NO3-N			SI			pH			FILLER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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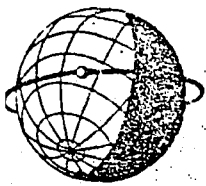
- 4) DUMMY VALUE
ALL 9
- 5) SAL-ID
 - 0 : SALINITY
 - 1 : PRACTICAL SALINITY
- 6) PROJECT NAME
 - K : KER
 - W : WESTPAC
 - J : JAPAN-CHINA COOPERATIVE STUDY
 - X : KER & WESTPAC

STANDATA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51																								
RECORD TYPE	NEXT RECORD	DEPTH					TEMP					SAL.					DO					σT					D-T					SVA					D-DY					VEL																																
		m					± °C					FLAG					mL/l					FLAG					g/°					FLAG					10 ⁻³ cm/g					FLAG					10 ⁻³ cm/g					FLAG					dyn.m					FLAG					m/sec					FLAG		

TRANSMITTAL AND RECEIPT RECORD

(Transmittal Notice)



WORLD DATA CENTER A

Oceanography

National Oceanic and Atmospheric Administration

Washington, D. C. 20235, U.S.A.

CABLE ADDRESS: WORLDATA

TEL: AREA CODE (202) 343-4064

39.0/4(26.V.88)

TO: Dr. A. R. Picciolo
NODC
Code E/OC13

REFER TO:

ATTENTION:

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

☐ Surface Mail ☐ Air Mail ☐ Registered Mail ☐ Surface Parcel Post ☐ Air Parcel Post ☒ By Hand ☐ Other _____

One magnetic tape (No. 88-039A) containing oceanographic station data, STD, CTD, XBT, DBT, and GEK data collected during DNP cruises by Japanese vessels during 1987.

Copies of forwarding letter, tape specifications, file format descriptions, tapescan of each data type, and our receipt acknowledgement.

8800147
A00740



FORWARDED BY (Signature)

Ronald E. Moffatt

DATE FORWARDED

TITLE

Associate Director

26 May 1988

ACCESSION NO. 8800147 FILETYPE C100

TRACK NO. _____

PROJECT IDENTIFICATION _____

493426 - 3470;

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	NO. RECL	BLK SIZE	NO. RECORD
ORIG. TAPE	6-6-88	S.H.	A00740	6	VAR →		
DUPLICATE TAPE	6-22-88	↓	W06562 (EBCDIC)	5	↓	↓	
REFORMATTED TAPE	1-10-89	R.P.S.	W10216 *	56	1/2	8960	25906
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* LABEL = DNODC * JAPAN.

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

CESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
8800147	493426	C100		4900	49HO	833208	11/01/83	12/03/83	60	797
8800147	493427	C100		4900	492S	860008	06/02/86	06/16/86	34	467
8800147	493428	C100		4900	492S	860016	10/24/86	11/07/86	55	631
8800147	493429	C100		4900	49RY	861101	01/19/86	01/31/86	42	951
8800147	493430	C100		4900	49RY	861101	02/12/86	02/25/86	25	482
8800147	493431	C100		4900	49RY	861103	05/02/86	05/12/86	15	321
8800147	493432	C100		4900	49RY	861104	06/06/86	07/20/86	71	1,646
8800147	493433	C100		4900	49RY	861106	10/02/86	10/04/86	6	140
8800147	493434	C100		4900	49RY	861107	11/10/86	11/18/86	24	198
8800147	493435	C100		4900	49RY	861107	11/30/86	12/02/86	14	138
8800147	493436	C100		4900	49KF	861202	02/10/86	02/23/86	23	387
8800147	493437	C100		4900	49KF	861203	04/18/86	05/08/86	32	552
8800147	493438	C100		4900	49KF	861204	07/06/86	07/26/86	34	536
8800147	493439	C100		4900	49KF	861205	08/11/86	08/28/86	36	508
8800147	493440	C100		4900	49KF	861206	10/13/86	11/06/86	31	469
8800147	493441	C100		4900	49SU	861301	02/04/86	02/17/86	27	415
8800147	493442	C100		4900	49SU	861301	02/28/86	03/01/86	17	134
8800147	493443	C100		4900	49SU	861302	04/18/86	05/06/86	40	664
8800147	493444	C100		4900	49SU	861303	07/04/86	07/19/86	31	482
8800147	493445	C100		4900	49SU	861305	09/26/86	10/06/86	28	454
8800147	493446	C100		4900	49TU	861401	01/24/86	02/23/86	42	397
8800147	493447	C100		4900	49TU	861402	04/23/86	05/14/86	35	408
8800147	493448	C100		4900	49TU	861403	07/05/86	07/30/86	42	506
8800147	493449	C100		4900	49TU	861404	10/01/86	10/27/86	48	593
8800147	493450	C100		4900	49SH	861501	02/07/86	03/08/86	44	668
8800147	493451	C100		4900	49SH	861502	05/15/86	05/28/86	26	425
8800147	493452	C100		4900	49SH	861503	07/08/86	07/31/86	38	607
8800147	493453	C100		4900	49SH	861504	09/25/86	10/13/86	33	547
8800147	493454	C100		4900	49K6	862315	08/25/86	09/17/86	49	1,017
8800147	493455	C100		4900	49YK	862609	07/03/86	07/07/86	45	552
8800147	493456	C100		4900	49H5	863201	01/21/86	02/18/86	41	761
8800147	493457	C100		4900	49H5	863203	04/01/86	04/06/86	17	277
8800147	493458	C100		4900	49H5	863204	06/04/86	06/11/86	11	199
8800147	493459	C100		4900	49H5	863204	06/23/86	06/30/86	13	243
8800147	493460	C100		4900	49H5	863204	07/16/86	08/05/86	36	681
8800147	760177	C100		7600	76AF	841350	12/26/84	12/31/84	26	196
8800147	760178	C100		7600	76AF	841352	07/09/84	07/11/84	12	84
8800147	760179	C100		7600	76AF	841353	06/12/84	06/13/84	13	78
8800147	760180	C100		7600	76AF	841355	06/18/84	07/04/84	80	807
8800147	760181	C100		7600	76XC	861001	01/26/86	01/26/86	5	33
8800147	760182	C100		7600	76X7	861005	05/19/86	05/20/86	6	58
8800147	760183	C100		7600	76XC	861008	08/06/86	08/06/86	6	58
8800147	760184	C100		7600	76XC	861011	11/20/86	11/21/86	6	58
8800147	760185	C100		7600	76X8	861101	02/18/86	02/23/86	35	354
8800147	760186	C100		7600	7699	861102	04/05/86	04/07/86	17	194
8800147	760187	C100		7600	7699	861102	04/18/86	04/19/86	8	80
8800147	760188	C100		7600	76X8	861103	05/15/86	05/22/86	38	394
8800147	760189	C100		7600	76SH	861104	06/14/86	06/18/86	25	278
8800147	760190	C100		7600	76X8	861105	08/06/86	08/11/86	35	370
8800147	760191	C100		7600	76AD	861106	09/10/86	09/13/86	25	275
8800147	760192	C100		7600	76AD	861107	11/05/86	11/13/86	38	389

8800147	760193	C100	7600	76AF	861301	05/22/86	05/29/86	28	550
8800147	760194	C100	7600	76AF	861301	06/08/86	06/22/86	58	931
8800147	760195	C100	7600	76SH	861401	05/23/86	06/14/86	75	1,031
8800147	760196	C100	7600	76SH	861402	10/16/86	11/03/86	43	721
8800147	760197	C100	7600	76SH	861402	11/13/86	11/22/86	24	394

=====

SERIAL STATION DATA,CTD & STD FORMAT

HEDER-1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
JODC CRUISE REFERENCE NUMBER														SHIP CODE		LAT.		LONG.				DATE				STATION NO.										DEPTH TO BOTTOM														
CONSECUTIVE STATION NUMBER																DEC.		N/S		DEC.		MIN.		W/E														YEAR		MONTH		DAY		TIME						
CONSECUTIVE CRUISE NUMBER														DEC.		MIN.		N/S		DEC.		MIN.		W/E		YEAR		MONTH		DAY		TIME		STATION NO.										DEPTH TO BOTTOM						
INSTITUTE CODE																																																		
YEAR														DEC.		MIN.		N/S		DEC.		MIN.		W/E		YEAR		MONTH		DAY		TIME		STATION NO.										DEPTH TO BOTTOM						
COUNTRY CODE																																																		
NEXT RECORD														DEC.		MIN.		N/S		DEC.		MIN.		W/E		YEAR		MONTH		DAY		TIME		STATION NO.										DEPTH TO BOTTOM						
RECORD TYPE																																																		

- 1) RECORD TYPE ..
1: HEADER-1
2: HEADER-2
3: OBSERVATION DATA
6: STANDARD DATA

HEDER -2

[illegible]

- 2) NEXT RECORD
RECORD IDENTIFIER OF NEXT RECORD
- 3) FLAG
0: NORMAL
1: DOUBTFUL VALUE BY THE ORIGINATOR
2: DOUBTFUL VALUE BY JODC
3: NEGLECTED VALUE
IN THE INTERPOLATION

OBSERVATION DATA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
NEXT RECORD		DEPTH			TEMP.			SAL.			DO			PO ₄ -P			T-P			NO ₂ -N			NO ₃ -N			SI			pH			FILLER																		
RECORD TYPE		m			° C			FLAG			FLAG			mg/l			FLAG			ug-at/l			FLAG			ug-at/l			FLAG			ug-at/l			FLAG			ug-at/l			FLAG									

- 4) DUMMY VALUE
ALL 9
- 5) SAL-ID
0: SALINITY
1: PRACTICAL SALINITY

STANDATA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
RECORD TYPE	NEXT RECORD	DEPTH					TEMP			SAL				DO			σT		D-T				SVA				D-DY			VEL																				
		m					± °C			FLAG				ml/l			g/g		FLAG				10 ⁻⁶ cm/g				FLAG				10 ⁻⁶ cm/g			FLAG			dyn.m			FLAG				m/sec						

- 6) PROJECT NAME
K : KER
W : WESTPAC
J : JAPAN-CHINA COOPERATIVE STUDY
X : KER & WESTPAC

MAGNETIC TAPE SPECIFICATION

REEL NUMBER : 88-039A
 CONTENTS : XBT, DBT, GEK, CTD, STD, and Series Oceanographic Station Data (for 1987)
 TRACKS : 9
 DENSITY : 6250 bpi
 TAPE LABEL : Non-label
 RECORD LENGTH : 51 bytes for CTD, STD, and Station Data
 80 bytes for XBT, DBT, and Station Data
 84 bytes for GEK
 BLOCK SIZE : 40 Records/Block for GEK
 ~~51 Records/Block for Station Data~~
 80 Records/Block for CTD, STD, and Station Data
 100 Records/Block for XBT, DBT
 RECORDING CODE : EBCDIC
 MULTI-REEL FILE : No
 MULTI-FILE REEL : Yes
 NUMBER OF REEL : 1.
 SORTING SEQUENCE : Country Code, Cruise ID, Consecutive No.
 TO BE RETURNED : No

LIST OF FILE NAMES

	File Name	File Code	No. of Stn.	
FIRST FILE :	XBT Data	XBT-87s	3302 Stations	C125
SECOND FILE :	DBT Data	DBT-87s	1707 Stations	C125
THIRD FILE :	GEK Data	GEK-87s	5437 Stations	
FOURTH FILE :	CTD Data	CTD-87s	1085 Stations	C100 DTS
FIFTH FILE :	STD Data	STD-87s	306 Stations	
SIXTH FILE :	Station Data	ST-87s	1768 Stations	- C100

JAPAN OCEANOGRAPHIC DATA CENTER

Hydrographic Department
Maritime Safety Agency

3-1, TSUKIJI 5-CHOME, CHUO-KU, TOKYO, 104 JAPAN.

JODC 186/88

May 14, 1988

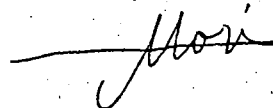
Dr. James Churgin
Director
WDC-A (Oceanography)
NOAA
Washington, D.C. 20235
U. S. A.

Dear Dr. Churgin,

The Japan Oceanographic Data Center has great pleasure in providing under separate cover by air all Oceanographic data resulting from DNPs collected by the JODC last year under the Data Exchange Agreement of May 26, 1976 between JODC and NOAA's NODC.

We look forward to further exchange of marine information between the two centers.

Sincerely yours,



Takumi MORI
Director of JODC

WORLD DATA CENTER A
OCEANOGRAPHY
NATIONAL OCEANIC AND ATMOSPHERIC
ADMINISTRATION
WASHINGTON, D.C. 20235 U.S.A.

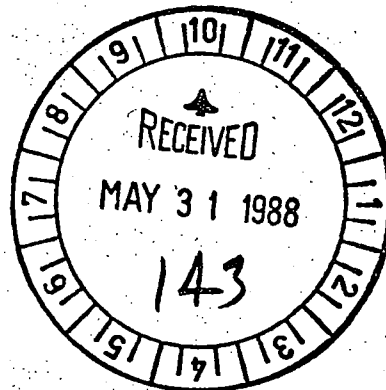
8800147

A00740

27 May 1988

24/3

Dr. Takumi Mori
Director
Japan Oceanographic Data Center
Hydrographic Department
Maritime Safety Agency
No. 3-1, Tsukiji
5-Chome, Chuo-ku
Tokyo 104, Japan



Dear Dr. Mori:

We gratefully acknowledge receipt of one magnetic tape (No. 88-039A) containing oceanographic station data, STD, CTD, XBT, DBT, and GEK data collected by Japanese vessels during 1987 DNP cruises and forwarded with your letter No. 186/88 of 14 May 1988. The tape has been forwarded to NODC for processing.

We also acknowledge with appreciation receipt of Korean TESAC data for February 1988, forwarded with your letter Ref. 155/88 of 20 April.

Thank you for your contributions and continued support of the World Data Center System.

Sincerely yours,

Ronald E. Moffatt
Associate Director

bcc: OC
WDC-A, Oceanography

WDC-A:EGTrammell:clf:5/26/88

Japan Oceanographic Data Center
Hydrographic Department
Maritime Safety Agency
5-3-1, Tsukiji, Chuo-ku, Tokyo
104 JAPAN

TRANSMITTAL AND RECEIPT RECORD

(Please return signed acknowledgement copy)

To: Director National Oceanographic Data Center, NOAA	Refer to: Data Exchange Agreement Between NODC and JODC
	Attention

The item listed below were forwarded to you by <input type="checkbox"/> Surface mail <input checked="" type="checkbox"/> Air mail	Description of parcels <input type="checkbox"/> Chest <input checked="" type="checkbox"/> Parcel <input type="checkbox"/> Cardboard box <input type="checkbox"/> Other	Number of parcels
---	--	-------------------

- a; Magnetic Tape 1 Reel
Reel No 88-039A containing serial oceanographic Station Data,
XBT, DBT, GEK, CTD, and STD Data (for 1987)
- b; Each File Dump List
- c; Each Magnetic Tape Specification
- d; Each File Format Description

Forwarded by (signature) Takumi Mori	Title Director of Japan Oceanographic Data Center	Date forwarded
Received by (signature)	Title	Date received

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
-----	----	-----	-----	-----	-----	-----	-----	-----
8800147	C100	493427	9999	4900	492S	1986/06/02	860008	178839
8800147	C100	493428	9999	4900	492S	1986/10/24	860016	178840
8800147	C100	493464	9999	4900	492S	1986/05/31	860008	179134
8800147	C100	493467	9999	4900	492S	1986/10/22	860016	179135
8800147	C125	044011	9999	4953	492S	1986/04/07	NULL	179065
8800147	C125	044012	9999	4953	492S	1986/05/31	NULL	179066
8800147	C125	044013	9999	4953	492S	1986/07/09	NULL	179067
8800147	C125	044014	9999	4953	492S	1986/08/21	NULL	179068
8800147	C125	044015	9999	4953	492S	1986/09/25	NULL	179069
8800147	C100	493465	9999	4900	492S	1986/08/22	860012	179116
8800147	C100	493466	9999	4900	492S	1986/09/14	860014	179117
8800147	C125	043842	9999	4953	4999	1986/10/02	NULL	178896
8800147	L107	L00479	9999	4953	4999	1987/01/01	NULL	179140
8800147	C100	493478	9999	4900	4999	1986/09/22	86SA01	179127
8800147	C125	044016	9999	4953	49AC	1986/02/26	NULL	179070
8800147	C125	044017	9999	4953	49AC	1986/04/27	ZA8604	179071
8800147	C125	044018	9999	4953	49AC	1986/06/27	ZA8607	179072
8800147	C125	044019	9999	4953	49AC	1986/07/30	ZA8608	179073
8800147	C125	044020	9999	4953	49AC	1986/09/22	ZA8609	179074
8800147	C125	044021	9999	4953	49AC	1986/10/22	ZA8610	179075
8800147	C125	044022	9999	4953	49AC	1986/11/27	ZA8611	179076
8800147	C125	043836	9999	4953	49AQ	1986/01/28	NULL	178890
8800147	C125	043837	9999	4953	49AQ	1986/03/15	NULL	178891
8800147	C125	043838	9999	4953	49AQ	1986/05/19	NULL	178892
8800147	C125	043839	9999	4953	49AQ	1986/06/19	NULL	178893
8800147	C125	043840	9999	4953	49AQ	1986/10/21	NULL	178894
8800147	C125	043841	9999	4953	49AQ	1986/11/20	NULL	178895
8800147	C125	043875	9999	4953	49BE	1986/02/20	NULL	178929
8800147	C125	043876	9999	4953	49BE	1986/07/05	KA8601	178930
8800147	C125	043877	9999	4953	49BE	1986/07/23	KA8602	178931
8800147	C125	043878	9999	4953	49BE	1986/09/10	NULL	178932
8800147	C125	043879	9999	4953	49BE	1986/09/23	KA8603	178933
8800147	C125	043880	9999	4953	49BE	1986/11/01	NULL	178934
8800147	C125	043881	9999	4953	49BE	1986/12/09	NULL	178935
8800147	C125	043930	9999	4953	49BX	1986/03/13	NULL	178984
8800147	C125	043931	9999	4953	49BX	1986/08/25	NULL	178985
8800147	C125	043932	9999	4953	49BX	1986/11/18	NULL	178986
8800147	C125	043929	9999	4953	49BY	1986/04/12	NULL	178983
8800147	C125	043858	9999	4953	49C4	1986/10/05	CO8607	178912
8800147	C125	043859	9999	4953	49C4	1986/11/22	CO8608	178913
8800147	C125	043852	9999	4953	49C4	1986/01/16	NULL	178906
8800147	C125	043853	9999	4953	49C4	1986/02/27	NULL	178907
8800147	C125	043854	9999	4953	49C4	1986/03/11	NULL	178908
8800147	C125	043855	9999	4953	49C4	1986/05/12	NULL	178909
8800147	C125	043856	9999	4953	49C4	1986/08/01	NULL	178910
8800147	C125	043857	9999	4953	49C4	1986/08/30	CO8606	178911
8800147	C125	043903	9999	4953	49C5	1986/07/07	NULL	178957
8800147	C125	043904	9999	4953	49C5	1986/07/28	NULL	178958
8800147	C125	043998	9999	4953	49C6	1986/09/25	UG8601	179052
8800147	C125	043999	9999	4953	49C6	1986/10/13	UG8602	179053
8800147	C125	043968	9999	4953	49C7	1986/02/01	NULL	179022
8800147	C125	043969	9999	4953	49C7	1986/05/07	NULL	179023
8800147	C125	043970	9999	4953	49C7	1986/07/17	NULL	179024
8800147	C125	043971	9999	4953	49C7	1986/11/02	SV8604	179025
8800147	C125	043949	9999	4953	49C8	1986/11/03	S18601	179003
8800147	C100	493482	9999	4900	49CG	1987/05/19	874501	179131

8800147	C125	043843	9999	4953	49DK	1986/04/19	NULL	178897
8800147	C125	043844	9999	4953	49DK	1986/07/22	NULL	178898
8800147	C125	043845	9999	4953	49DK	1986/08/12	NULL	178899
8800147	C125	043846	9999	4953	49DK	1986/09/06	NULL	178900
8800147	C125	043847	9999	4953	49DK	1986/10/21	NULL	178901
8800147	C125	043882	9999	4953	49EK	1986/01/21	KE8601	178936
8800147	C125	043883	9999	4953	49EK	1986/03/09	KE8602	178937
8800147	C125	043884	9999	4953	49EK	1986/04/19	KE8603	178938
8800147	C125	043885	9999	4953	49EK	1986/05/13	KE8604	178939
8800147	C125	043886	9999	4953	49EK	1986/06/20	KE8605	178940
8800147	C125	043887	9999	4953	49EK	1986/07/17	KE8605	178941
8800147	C125	043888	9999	4953	49EK	1986/08/06	KE8606	178942
8800147	C125	043889	9999	4953	49EK	1986/09/01	KE8606	178943
8800147	C125	043890	9999	4953	49EK	1986/09/30	KE8607	178944
8800147	C125	043891	9999	4953	49EK	1986/10/31	KE8608	178945
8800147	C125	044027	9999	4953	49EK	1986/01/20	KE8601	179081
8800147	C125	044028	9999	4953	49EK	1986/03/10	KE8602	179082
8800147	C125	044029	9999	4953	49EK	1986/04/21	KE8603	179083
8800147	C125	044030	9999	4953	49EK	1986/05/16	KE8604	179084
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8800147	C125	044016	49AC	22	22	86/02/26	86/03/15
8800147	C125	044017	49AC	25	25	86/04/27	86/05/28
8800147	C125	044018	49AC	10	10	86/06/27	86/07/04
8800147	C125	044019	49AC	5	5	86/07/30	86/07/30
8800147	C125	044020	49AC	16	16	86/09/22	86/09/23
8800147	C125	044021	49AC	27	27	86/10/22	86/10/27
8800147	C125	044022	49AC	28	28	86/11/27	86/11/30
8800147	C125	043836	49AQ	4	4	86/01/28	86/01/29
8800147	C125	043837	49AQ	2	2	86/03/15	86/03/15
8800147	C125	043838	49AQ	1	1	86/05/19	86/05/19
8800147	C125	043839	49AQ	2	2	86/06/19	86/06/19
8800147	C125	043840	49AQ	2	2	86/10/21	86/10/21
8800147	C125	043841	49AQ	1	1	86/11/20	86/11/20
8800147	C125	043875	49BE	34	34	86/02/20	86/02/27
8800147	C125	043876	49BE	8	8	86/07/05	86/07/05
8800147	C125	043877	49BE	11	11	86/07/23	86/07/25
8800147	C125	043878	49BE	35	35	86/09/10	86/09/12
8800147	C125	043879	49BE	32	32	86/09/23	86/10/02
8800147	C125	043880	49BE	71	71	86/11/01	86/11/24
8800147	C125	043881	49BE	19	19	86/12/09	86/12/20
8800147	C125	043930	49BX	24	24	86/03/13	86/03/14
8800147	C125	043931	49BX	33	33	86/08/25	86/08/29
8800147	C125	043932	49BX	21	21	86/11/18	86/11/19
8800147	C125	043929	49BY	22	22	86/04/12	86/04/15
8800147	C125	043858	49C4	2	2	86/10/05	86/10/05
8800147	C125	043859	49C4	3	3	86/11/22	86/11/22
8800147	C125	043852	49C4	2	2	86/01/16	86/01/17
8800147	C125	043853	49C4	4	4	86/02/27	86/02/28
8800147	C125	043854	49C4	4	4	86/03/11	86/03/13
8800147	C125	043855	49C4	4	4	86/05/12	86/05/13
8800147	C125	043856	49C4	2	2	86/08/01	86/08/02
8800147	C125	043857	49C4	33	33	86/08/30	86/09/02
8800147	C125	043903	49C5	2	2	86/07/07	86/07/08
8800147	C125	043904	49C5	6	6	86/07/28	86/07/30
8800147	C125	043998	49C6	12	11	86/09/25	86/09/26
8800147	C125	043999	49C6	9	9	86/10/13	86/10/14
8800147	C125	043968	49C7	4	4	86/02/01	86/02/01
8800147	C125	043969	49C7	4	4	86/05/07	86/05/07
8800147	C125	043970	49C7	4	4	86/07/17	86/07/17
8800147	C125	043971	49C7	12	12	86/11/02	86/11/09
8800147	C125	043949	49C8	46	46	86/11/03	86/11/11
8800147	C100	493482	49CG	13	26	87/05/19	87/05/31

8800147	C125	043843	49DK	4	4	86/04/19	86/04/19
8800147	C125	043844	49DK	5	5	86/07/22	86/07/22
8800147	C125	043845	49DK	27	27	86/08/12	86/08/14
8800147	C125	043846	49DK	4	4	86/09/06	86/09/06
8800147	C125	043847	49DK	7	7	86/10/21	86/10/21
8800147	C125	043882	49EK	25	25	86/01/21	86/02/17
8800147	C125	043883	49EK	6	6	86/03/09	86/03/15
8800147	C125	043884	49EK	7	7	86/04/19	86/04/22
8800147	C125	043885	49EK	10	10	86/05/13	86/05/26
8800147	C125	043886	49EK	19	19	86/06/20	86/07/02
8800147	C125	043887	49EK	3	3	86/07/17	86/07/22
8800147	C125	043888	49EK	14	14	86/08/06	86/08/21
8800147	C125	043889	49EK	17	17	86/09/01	86/09/15
8800147	C125	043890	49EK	4	4	86/09/30	86/10/13
8800147	C125	043891	49EK	31	31	86/10/31	86/11/23
8800147	C125	044027	49EK	5	5	86/01/20	86/02/17
8800147	C125	044028	49EK	5	5	86/03/10	86/03/15
8800147	C125	044029	49EK	1	1	86/04/21	86/04/21
8800147	C125	044030	49EK	10	10	86/05/16	86/05/27
8800147	C125	044031	49EK	20	20	86/06/23	86/07/16
8800147	C125	044032	49EK	12	12	86/08/09	86/08/22
8800147	C125	044033	49EK	11	11	86/10/01	86/10/13
8800147	C125	044034	49EK	5	5	86/11/03	86/11/08
8800147	C125	044035	49EK	3	3	86/11/19	86/11/21
8800147	C125	043996	49ET	12	12	86/02/26	86/02/27
8800147	C125	043997	49ET	6	6	86/09/13	86/09/13
8800147	C125	043860	49GI	6	6	86/03/07	86/03/07
8800147	C125	043861	49GI	5	5	86/04/13	86/04/14
8800147	C125	043862	49GI	5	5	86/06/04	86/06/04
8800147	C125	043863	49GI	7	7	86/07/20	86/07/20
8800147	C125	043864	49GI	7	7	86/09/04	86/09/04
8800147	C125	043933	49GJ	29	28	86/11/18	86/11/19
8800147	C125	043972	49GM	9	9	86/01/07	86/01/12
8800147	C125	043973	49GM	6	6	86/02/13	86/02/17
8800147	C125	043974	49GM	4	4	86/03/21	86/03/22
8800147	C125	043975	49GM	3	3	86/04/05	86/04/05
8800147	C125	043976	49GM	9	9	86/05/06	86/05/11
8800147	C125	043977	49GM	6	6	86/06/11	86/06/18
8800147	C125	043978	49GM	3	3	86/06/29	86/06/29
8800147	C125	043979	49GM	6	6	86/07/14	86/07/15
8800147	C125	043980	49GM	6	6	86/08/12	86/08/13
8800147	C125	043981	49GM	12	12	86/09/05	86/09/16
8800147	C125	043982	49GM	39	39	86/10/02	86/10/09
8800147	C125	043983	49GM	6	6	86/10/26	86/10/27
8800147	C125	043984	49GM	19	19	86/11/15	86/11/20
8800147	C125	043985	49GM	26	26	86/12/01	86/12/18
8800147	C125	043910	49GQ	16	16	86/01/14	86/01/20
8800147	C125	043911	49GQ	16	16	86/03/08	86/03/13
8800147	C125	043912	49GQ	21	21	86/04/12	86/04/18
8800147	C125	043913	49GQ	10	10	86/10/16	86/10/17
8800147	C125	043914	49GQ	11	11	86/11/01	86/11/01
8800147	C125	043915	49GQ	8	8	86/11/25	86/11/25
8800147	C125	043916	49GQ	12	12	86/12/08	86/12/08
8800147	C100	493456	49H5	41	41	86/01/21	86/02/18
8800147	C100	493457	49H5	17	17	86/04/01	86/04/06
8800147	C100	493458	49H5	11	11	86/06/04	86/06/11
8800147	C100	493459	49H5	13	13	86/06/23	86/06/30
8800147	C100	493460	49H5	36	36	86/07/16	86/08/05
8800147	C100	493474	49H5	18	18	86/04/01	86/04/09
8800147	C100	493426	49HO	60	60	83/11/01	83/12/03

8800147	C125	043866	49ID	3	3	86/01/17	86/01/17
8800147	C125	043867	49ID	2	2	86/02/18	86/02/18
8800147	C125	043868	49ID	1	1	86/05/02	86/05/02
8800147	C125	043869	49ID	3	3	86/06/11	86/06/11
8800147	C125	043870	49ID	3	3	86/09/11	86/09/11
8800147	C125	043871	49ID	3	3	86/10/04	86/10/04
8800147	C125	043872	49IF	6	6	86/03/28	86/03/28
8800147	C125	043873	49IF	56	56	86/08/11	86/08/15
8800147	C125	043874	49K6	52	52	86/08/26	86/09/13
8800147	C100	493454	49K6	49	49	86/08/25	86/09/17
8800147	C100	493484	49K6	93	93	86/08/30	86/09/17
8800147	C125	043899	49KF	15	15	86/02/23	86/02/24
8800147	C125	043900	49KF	3	3	86/03/11	86/03/11
8800147	C125	043901	49KF	7	7	86/07/09	86/07/10
8800147	C125	043902	49KF	33	33	86/10/19	86/10/30
8800147	C100	493436	49KF	23	23	86/02/10	86/02/23
8800147	C100	493437	49KF	32	32	86/04/18	86/05/08
8800147	C100	493438	49KF	34	34	86/07/06	86/07/26
8800147	C100	493439	49KF	36	36	86/08/11	86/08/28
8800147	C100	493440	49KF	31	31	86/10/13	86/11/06
8800147	C125	044036	49KF	30	30	86/01/20	86/01/21
8800147	C125	044037	49KF	58	58	86/02/10	86/02/23
8800147	C125	044038	49KF	1	1	86/03/11	86/03/11
8800147	C125	044039	49KF	84	84	86/04/18	86/05/16
8800147	C125	044040	49KF	109	109	86/07/01	86/07/26
8800147	C125	044041	49KF	86	86	86/08/11	86/08/28
8800147	C125	044042	49KF	67	67	86/10/04	86/11/06
8800147	C125	043892	49KQ	4	4	86/01/25	86/01/25
8800147	C125	043893	49KQ	21	21	86/03/04	86/03/06
8800147	C125	043894	49KQ	4	4	86/07/26	86/07/26
8800147	C125	043895	49KQ	23	23	86/08/18	86/08/21
8800147	C125	043896	49KQ	5	5	86/09/11	86/09/12
8800147	C125	043897	49KQ	4	4	86/10/04	86/10/04
8800147	C125	043898	49KQ	2	2	86/11/12	86/11/12
8800147	C125	043924	49M6	8	8	86/01/25	86/02/01
8800147	C125	043925	49M6	4	4	86/06/17	86/06/17
8800147	C125	043926	49M6	3	3	86/08/08	86/08/09
8800147	C125	043927	49M6	4	4	86/09/22	86/09/22
8800147	C125	043928	49M6	4	4	86/12/11	86/12/12
8800147	C125	043917	49MV	4	4	86/02/10	86/02/10
8800147	C125	043918	49MV	4	4	86/03/08	86/03/08
8800147	C125	043919	49MV	8	8	86/05/17	86/05/17
8800147	C125	043920	49MV	8	8	86/06/03	86/06/03
8800147	C125	043921	49MV	5	5	86/09/03	86/09/03
8800147	C125	043922	49MV	7	7	86/10/03	86/10/03
8800147	C125	043923	49MV	8	8	86/11/02	86/11/02
8800147	C125	043905	49MW	8	8	86/02/09	86/02/09
8800147	C125	043906	49MW	35	35	86/03/12	86/03/16
8800147	C125	043907	49MW	46	46	86/05/12	86/05/16
8800147	C125	043908	49MW	6	6	86/06/23	86/06/23
8800147	C125	043909	49MW	62	62	86/11/05	86/11/09
8800147	C125	043934	49NO	4	4	86/01/20	86/01/21
8800147	C125	043935	49NO	8	8	86/02/17	86/02/20
8800147	C125	043936	49NO	8	8	86/07/02	86/07/04
8800147	C125	043937	49NO	3	3	86/09/12	86/09/12
8800147	C125	043938	49NO	8	8	86/10/20	86/10/24
8800147	C100	493461	49OS	19	19	85/11/13	85/11/18
8800147	C100	493462	49OS	13	13	85/11/28	85/12/04
8800147	C100	493473	49OS	15	15	86/04/01	86/04/04
8800147	C100	493475	49OS	82	82	86/06/12	86/07/11

8800147	C100	493476	49OS	59	59	86/07/24	86/08/05
8800147	C100	493477	49OS	7	7	86/09/01	86/09/02
8800147	C125	043940	49RI	2	2	86/10/02	86/10/02
8800147	C125	043941	49RY	101	101	86/02/01	86/02/25
8800147	C125	043942	49RY	6	6	86/03/08	86/03/09
8800147	C125	043943	49RY	32	32	86/04/18	86/05/12
8800147	C125	043944	49RY	10	10	86/06/08	86/06/10
8800147	C125	043945	49RY	12	12	86/09/13	86/09/15
8800147	C125	043946	49RY	19	19	86/10/03	86/10/18
8800147	C125	043947	49RY	13	13	86/11/05	86/11/09
8800147	C125	043948	49RY	8	8	86/12/05	86/12/06
8800147	C100	493429	49RY	42	49	86/01/19	86/01/31
8800147	C100	493430	49RY	25	29	86/02/12	86/02/25
8800147	C100	493431	49RY	15	16	86/05/02	86/05/12
8800147	C100	493432	49RY	71	86	86/06/06	86/07/20
8800147	C100	493433	49RY	6	6	86/10/02	86/10/04
8800147	C100	493434	49RY	24	24	86/11/10	86/11/18
8800147	C100	493435	49RY	14	14	86/11/30	86/12/02
8800147	C125	044043	49RY	42	42	86/01/19	86/01/31
8800147	C125	044044	49RY	16	16	86/05/02	86/05/12
8800147	C125	044045	49RY	79	79	86/06/06	86/07/20
8800147	C125	044046	49RY	6	6	86/10/02	86/10/04
8800147	C125	044047	49RY	51	51	86/11/07	86/12/03
8800147	C125	043939	49SB	15	15	86/01/19	86/01/25
8800147	C125	043967	49SC	44	44	86/05/21	86/06/07
8800147	C100	493483	49SC	119	119	86/05/21	86/06/07
8800147	C125	044057	49SC	43	43	86/07/05	86/07/10
8800147	C125	044058	49SC	33	32	86/08/12	86/08/23
8800147	C100	493470	49SC	73	73	86/02/08	86/02/25
8800147	C100	493471	49SC	49	49	86/03/04	86/03/13
8800147	C100	493472	49SC	14	14	86/08/08	86/08/11
8800147	C125	043960	49SH	30	30	86/02/07	86/03/08
8800147	C125	043961	49SH	6	6	86/05/21	86/05/22
8800147	C125	043962	49SH	7	7	86/07/18	86/07/19
8800147	C125	043963	49SH	9	9	86/08/05	86/08/09
8800147	C125	043964	49SH	30	30	86/10/05	86/10/14
8800147	C100	493450	49SH	44	44	86/02/07	86/03/08
8800147	C100	493451	49SH	26	26	86/05/15	86/05/28
8800147	C100	493452	49SH	38	38	86/07/08	86/07/31
8800147	C100	493453	49SH	33	33	86/09/25	86/10/13
8800147	C125	044053	49SH	66	66	86/02/07	86/03/08
8800147	C125	044054	49SH	83	83	86/05/08	86/05/28
8800147	C125	044055	49SH	68	68	86/07/08	86/07/31
8800147	C125	044056	49SH	40	39	86/09/25	86/10/05
8800147	C125	043865	49SN	43	43	86/08/18	86/08/22
8800147	C100	493468	49SO	91	91	86/06/19	86/06/29
8800147	C100	493469	49SO	75	75	86/09/04	86/09/19
8800147	C100	493479	49SO	76	76	87/01/20	87/02/16
8800147	C100	493480	49SO	59	59	87/02/28	87/03/19
8800147	C100	493481	49SO	57	57	87/04/11	87/04/24
8800147	C125	043965	49SQ	5	5	86/01/15	86/01/15
8800147	C125	043966	49SQ	11	11	86/08/22	86/08/23
8800147	C125	043952	49SR	5	5	86/05/22	86/05/22
8800147	C125	043953	49SR	5	5	86/09/16	86/09/16
8800147	C125	043954	49SR	5	5	86/11/13	86/11/13
8800147	C125	043950	49ST	22	22	86/05/19	86/05/21
8800147	C125	043951	49ST	24	24	86/11/04	86/11/06
8800147	C125	043955	49SU	3	3	86/02/09	86/02/09
8800147	C125	043956	49SU	11	11	86/02/22	86/02/23
8800147	C125	043957	49SU	9	9	86/09/01	86/09/01

8800147	C125	043958	49SU	22	22	86/10/02	86/10/06
8800147	C125	043959	49SU	5	5	86/10/21	86/10/21
8800147	C100	493441	49SU	27	30	86/02/04	86/02/17
8800147	C100	493442	49SU	17	17	86/02/28	86/03/01
8800147	C100	493443	49SU	40	45	86/04/18	86/05/06
8800147	C100	493444	49SU	31	34	86/07/04	86/07/19
8800147	C100	493445	49SU	28	30	86/09/26	86/10/06
8800147	C125	044048	49SU	53	53	86/02/04	86/02/23
8800147	C125	044049	49SU	106	106	86/04/18	86/05/12
8800147	C125	044050	49SU	99	99	86/07/04	86/07/26
8800147	C125	044051	49SU	12	12	86/08/31	86/09/01
8800147	C125	044052	49SU	79	79	86/09/26	86/10/21
8800147	C125	043986	49TK	179	179	86/02/06	86/03/16
8800147	C125	043987	49TK	15	15	86/04/19	86/04/21
8800147	C125	043988	49TK	13	13	86/05/05	86/05/07
8800147	C125	043989	49TK	9	9	86/05/30	86/05/31
8800147	C125	043990	49TK	29	29	86/06/16	86/07/06
8800147	C125	043991	49TK	12	12	86/07/29	86/07/31
8800147	C125	043992	49TK	36	36	86/09/23	86/10/15
8800147	C125	043993	49TK	18	18	86/10/28	86/11/04
8800147	C125	043994	49TK	29	29	86/11/17	86/11/19
8800147	C125	043995	49TK	40	40	86/12/08	86/12/22
8800147	C100	493463	49TK	112	190	86/02/06	86/03/16
8800147	C100	493446	49TU	42	42	86/01/24	86/02/23
8800147	C100	493447	49TU	35	35	86/04/23	86/05/14
8800147	C100	493448	49TU	42	42	86/07/05	86/07/30
8800147	C100	493449	49TU	48	48	86/10/01	86/10/27
8800147	C125	043848	49TU	10	10	86/01/26	86/02/03
8800147	C125	043849	49TU	6	6	86/04/24	86/04/25
8800147	C125	043850	49TU	9	9	86/07/20	86/07/21
8800147	C125	043851	49TU	6	6	86/10/11	86/10/13
8800147	C125	044023	49TU	76	76	86/01/24	86/02/23
8800147	C125	044024	49TU	75	75	86/04/23	86/05/16
8800147	C125	044025	49TU	84	84	86/07/05	86/07/31
8800147	C125	044026	49TU	89	89	86/10/01	86/10/27
8800147	C125	044000	49YJ	12	12	86/02/02	86/02/09
8800147	C125	044001	49YJ	32	32	86/03/02	86/03/05
8800147	C125	044002	49YJ	7	7	86/03/19	86/03/23
8800147	C125	044003	49YJ	12	12	86/04/13	86/04/18
8800147	C125	044004	49YJ	82	82	86/05/19	86/05/23
8800147	C125	044005	49YJ	12	12	86/06/15	86/06/18
8800147	C125	044006	49YJ	12	12	86/07/24	86/07/26
8800147	C125	044007	49YJ	6	6	86/09/25	86/09/25
8800147	C125	044008	49YJ	34	34	86/11/15	86/11/19
8800147	C125	044009	49YJ	12	12	86/12/03	86/12/07
8800147	C125	044010	49YJ	10	10	86/12/22	86/12/24
8800147	C100	493455	49YK	45	45	86/07/03	86/07/07
8800147	C100	493485	49YK	21	21	87/10/02	87/10/13
8800147	C100	760186	7699	17	17	86/04/05	86/04/07
8800147	C100	760187	7699	8	8	86/04/18	86/04/19
8800147	C100	760177	76AF	26	26	84/12/26	84/12/31
8800147	C100	760178	76AF	12	12	84/07/09	84/07/11
8800147	C100	760179	76AF	13	13	84/06/12	84/06/13
8800147	C100	760180	76AF	80	77	84/06/18	84/07/04
8800147	C100	760193	76AF	28	28	86/05/22	86/05/29
8800147	C100	760194	76AF	58	58	86/06/08	86/06/22
8800147	C125	043834	76AF	8	8	86/05/21	86/05/24
8800147	C125	043835	76AF	50	50	86/06/06	86/06/22
8800147	C100	760195	76SH	146	146	86/05/23	86/06/14
8800147	C100	760196	76SH	43	43	86/10/16	86/11/03

8800147	C100	760197	76SH	24	24	86/11/13	86/11/22
8800147	C100	760198	76SH	31	NULL	86/05/23	86/05/30
8800147	C100	760199	76SH	42	NULL	86/06/09	86/06/13
8800147	C100	760182	76X7	6	6	86/05/19	86/05/20
8800147	C100	760181	76XC	5	5	86/01/26	86/01/26
8800147	C100	760183	76XC	6	6	86/08/06	86/08/06
8800147	C100	760184	76XC	6	6	86/11/20	86/11/21

(303 rows affected)