

## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

Zooplankton  
biodiversity

## A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

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1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Minerals Management Service Gulf of Mexico OCS Region. 3301 N. Causeway Blvd. Metairie, LA 70010			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED  Environmental Studies, South Texas Outer Continental Shelf, 1975-1977		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT  1,2,3,5,6,8,9,10,11,12,13,14,15,16,17,23, 24,27,31,37,38,45,47,51,53,57,62,65,67, 72,75,78,85,89	
4. PLATFORM NAME(S)  R/V Longhorn	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  ship	6. PLATFORM AND OPERATOR NATIONALITY(IES)  usa      usa	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 12/03/74      12/03/77
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?)  <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			

## B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

### EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model S510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING  
TWO PAGES FOR THIS INFORMATION)

## B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
		see attachments		

## **C. DATA FORMAT**

**This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.**

**1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).**

**2. Describe briefly how your file is organized.**

**3-13. Self-explanatory.**

**14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity.**

**15. Enter starting position of the field.**

**16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.**

**17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").**

**18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.**



### C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE  
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

see nodc file type 124 02/18/82 version

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

see nodc file type 124 02/18/82 version

3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL  
☐ FORTRAN ☐ \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER Mr. Craig Brandt (615) 482-9614

ADDRESS P.O. Box 2501, Oak Ridge, TN 37831

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	
	<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 4800
	<b>13. LENGTH OF BYTES IN BITS</b> 8

## RECORD FORMAT DESCRIPTION

**RECORD NAME** see nodc file type 124 02/18/82

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

### D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED  (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	

**Environmental Studies, South Texas Outer Continental Shelf, 1975-1977**

**Data Type: Zooplankton**

**Principle Investigator: E. Taisoo Park**

**Affiliation: Texas A&M University**

**Moody College of Marine Sciences and Maritime Resources  
Galveston, Texas**

**Methodological Summary:**

Standard 1 m NITEX nets of 233 um size were used. A digital flowmeter (Model 2030, GENERAL OCEANICS) was mounted centrally in the mouth of the net to determine the amount of water filtered in each tow, and a time-depth recorder (Model 1170-250, BENTHOS) was attached near the net to determine the maximum sampling depth. The water column was sampled from the surface to near-bottom by means of oblique tows of about 15 minutes duration. During the tow, ship speed was maintained constant at about 2.5 knots. The volume of water filtered was calculated from flowmeter and tow duration data. After the tow, the net was rinsed down using the deck hose. The contents of the cod-end were drained through a 100 um NITEX net, transferred to a jar, and preserved with buffered formalin.

**For detailed methodologies, see the following reports:**

Flint, R. W., and C. W. Griffin (eds.). 1979. Environmental studies, south Texas outer continental shelf, biology and chemistry. 1977 final report to the Bureau of Land Management, Washington, D.C. Contract No. AA550-CT7-11.

Groover, R. D. (ed.). 1977a. Environmental studies, south Texas outer continental shelf, biology and chemistry. 1976 final report to the Bureau of Land Management, Washington, D.C. Contract No. AA550-CT6-17.

Groover, R. D. (ed.). 1977b. Environmental studies, south Texas outer continental shelf, rig monitoring. 1976 final report to the Bureau of Land Management, Washington, D.C. Contract No. AA550-CT6-17.

Parker, P. L. (ed.). 1976. Environmental studies, south Texas outer continental shelf, biology and chemistry. 1975 final report to the Bureau of Land Management, Washington D.C. Contract No. 08550-CT5-16.

### Sample Analysis

Two comparable samples were selected for analysis from the three replicate samples taken at each station according to the similarity in the amount of water filtered and in the settling volume of organisms. The samples were split with a FOLSOM plankton splitter to achieve adequate subsamples for archiving and analysis. The subsample size for biomass determination was adjusted to the capacity of the crucible to be used (50 ml).

For dry weight determination, subsamples were washed with tap water through tared PYREX 50-ml filtering crucibles with fritted discs of 40 to 60  $\mu$ m pore size. Suction filtration at 10-15 psi was used to expedite removal of interstitial water. The subsamples were dried in the crucibles at 55°C to a constant weight, and the weight of the crucible plus sample was recorded to the nearest milligram. Ashing to a constant weight was accomplished in a muffle furnace (BLUE "M", Model M25A-1A) at 550°C, and the weight of crucible plus ash was recorded to the nearest milligram. The weight of the empty crucible was subtracted, yielding the subsample dry weight and ash weight from which the ash-free dry weight was calculated.

Each subsample was sorted into major taxa in a BOGOROV plankton sorting tray, and all the individuals were counted. The copepods, which were usually the numerically dominant form, were most intensively studied. They were first separated into three sub-orders (Calanoida, Cyclopoida, and Harpacticoida), and then each sub-order was separated into adult females, males and immature copepodid forms for enumeration. All adult female copepods were identified to species and enumerated.

Table 6. Zooplankton Biomass Data from the STOCS Program.

<u>Tape File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record Count</u>
146	124STOC01	STOCS, Cruise 1, 12/03/74 - 12/06/74	37
147	124STOC02	STOCS, Cruise 2, 12/11/74 - 12/18/74	61
148	124STOC03	STOCS, Cruise 3, 01/09/75 - 01/09/75	7
149	124STOC05	STOCS, Cruise 5, 01/21/75 - 01/26/75	37
150	124STOC06	STOCS, Cruise 6, 02/25/75 - 02/27/75	7
151	124STOC08	STOCS, Cruise 8, 04/16/75 - 04/18/75	25
152	124STOC09	STOCS, Cruise 9, 04/29/75 - 05/02/75	37
153	124STOC10	STOCS, Cruise 10, 05/06/75 - 05/07/75	37
154	124STOC11	STOCS, Cruise 11, 05/13/75 - 05/17/75	49
155	124STOC12	STOCS, Cruise 12, 08/26/75 - 08/30/75	25
156	124STOC13	STOCS, Cruise 13, 09/04/75 - 09/09/75	73
157	124STOC14	STOCS, Cruise 14, 09/11/75 - 09/13/75	37
158	124STOC15	STOCS, Cruise 15, 09/11/75 - 09/13/75	13
159	124STOC16	STOCS, Cruise 16, 01/13/76 - 01/16/76	7
160	124STOC17	STOCS, Cruise 17, 01/30/76 - 02/04/76	67
161	124STOC23	STOCS, Cruise 23, 03/18/76 - 03/20/76	19
162	124STOC25	STOCS, Cruise 24 <sup>5</sup> , 04/02/76 - 04/04/76	19
163	124STOC27	STOCS, Cruise 27, 05/29/76 - 06/08/76	73
164	124STOC31	STOCS, Cruise 31, 07/10/76 - 07/12/76	19
165	124STOC37	STOCS, Cruise 37, 08/27/76 - 08/29/76	19
166	124STOC38	STOCS, Cruise 38, 09/10/76 - 09/16/76	73
167	124STOC45	STOCS, Cruise 45, 11/08/76 - 11/10/76	19
168	124STOC47	STOCS, Cruise 47, 12/01/76 - 12/03/76	19
169	124STOC51	STOCS, Cruise 51, 01/11/77 - 01/12/77	13
170	124STOC53	STOCS, Cruise 53, 01/17/77 - 01/22/77	49
171	124STOC57	STOCS, Cruise 57, 02/21/77 - 02/22/77	13
172	124STOC62	STOCS, Cruise 62, 03/14/77 - 03/15/77	19
173	124STOC65	STOCS, Cruise 65, 04/20/77 - 04/21/77	19
174	124STOC67	STOCS, Cruise 67, 05/15/77 - 05/21/77	73
175	124STOC72	STOCS, Cruise 72, 07/06/77 - 07/07/77	19
176	124STOC75	STOCS, Cruise 75, 08/04/77 - 08/05/77	19
177	124STOC78	STOCS, Cruise 78, 09/06/77 - 09/12/77	73

Table 6 (continued).

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
178	124STOC85	STOCS, Cruise 85, 11/05/77 - 11/06/77	19
179	124STOC89	STOCS, Cruise 89, 12/02/77 - 12/03/77	19

STOCS ZOOPLANKTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
12050101	PYROCYSTIS	PYROCYSTIS
3448	FORAMINIFERA	FORAMINIFERA
3465	RADIOLARIA	RADIOLARIAN
37	CNIDARIA	MEDUSAE
3715	HYDROZOA SIPHONOPHORA	HYDROZOA SIPHONOPHORA
5001	POLYCHAETA	POLYCHAETA
5085	MOLLUSCA	OTHER MOLLUSCA
5085	MOLLUSCA	TOTAL MOLLUSCA
51	GASTROPODA	GASTROPOD LARVAE
51	GASTROPODA	GASTROPODA (VELIGERS)
5103	HETEROPODA	HETEROPODA
5107	EUTHYNEURA	PTEROPODA
5113	THECOSOMATA	THECOSOMATA
51130101	LIMACINA	LIMACINA
5113020103	CAVOLINA LONGIROSTRATUS	CAVOLINA LONGIROSTRATUS
51130202	CLIO	CLIO
5113020302	CRESEIS VIRGULA	CRESEIS VIRGULATA
5125	GYMNOSOMATA	GYMNOSOMATA
55	BIVALVIA	BIVALVE LARVAE
55	BIVALVIA	BIVALVIA (LARVAE)
57	CEPHALOPODA	CEPHALOPODA
61	CRUSTACEA	OTHER CRUSTACEAN LARVAE
61	CRUSTACEA	OTHER CRUSTACEANS
61	CRUSTACEA	OTHER NAUPLII
6100000000	* CLADOCERA PODON	CLADOCERA PODON
6100000000	* CLADOCERA PENILIA	CLADOCERA PENILIA
6100000000	* CLADOCERA EVADNE	CLADOCERA EVADNE
6110	OSTRACODA	OTHER OSTRACODA
6110501	CONCHOECIA	CONCHOECIA
6110501	CONCHOECIA	OSTRACODA CONCHOECIA
6110503	EUCONCHOECHIA	OSTRACODA EUCONCHOECHIA
6117	COPEPODA	COPEPODA NAUPLII
6118	CALANOIDA	ADULT MALE CALANOIDA
6118	CALANOIDA	CALANOID COPEPODITES
6118	CALANOIDA	COPEPODA CALANOIDA
6118	CALANOIDA	IMMATURE CALANOIDA
61180102	CALOCALANUS	CALOCALANUS
6118010207	CALANUS TENUICORNIS	CALANUS TENUICORNIS
6118010209	CALANUS MINOR	NANNOCALANUS MINOR
6118010301	UNDINULA VULGARIS	UNDINULA VULGARIS
6118010401	NEOCALANUS GRACILIS	NEOCALANUS GRACILIS
6118010402	NEOCALANUS ROBUSTIOR	NEOCALANUS ROBUSTIOR
6118010000	* ZANTHOCALANUS AGILIS	ZANTHOCALANUS AGILIS
6118030103	EUCALANUS ELONGATUS	EUCALANUS ELONGATUS
6118030105	EUCALANUS PILEATUS	EUCALANUS PILEATUS
6118030106	EUCALANUS MONACHUS	EUCALANUS MONACHUS
6118030107	EUCALANUS CRASSUS	EUCALANUS CRASSUS
6118030108	EUCALANUS HYALINUS	EUCALANUS HYALINUS
6118030110	EUCALANUS SEWELLI	EUCALANUS SEWELLI
6118030111	EUCALANUS SUBTENUIS	EUCALANUS SUBTENUIS
6118030201	RHINCALANUS CORNUTUS	RHINCALANUS CORNUTUS
6118030301	MECYNOCERA CLAUSII	MECYNOCERA CLAUSII
61180401	PARACALANUS	PARACALANUS
6118040101	PARACALANUS PARVUS GROUP	PARACALANUS PARVUS GROUP
6118040102	PARACALANUS CRASSIROSTRIS	PARACALANUS CRASSIROSTRIS
6118040103	PARACALANUS INDICUS	PARACALANUS INDICUS
6118040104	PARACALANUS QUASIMODO	PARACALANUS QUASIMODO
6118040105	PARACALANUS ACULEATUS	PARACALANUS ACULEATUS
6118040106	PARACALANUS DENUATUS	PARACALANUS DENUATUS
6118040107	PARACALANUS NUDUS	PARACALANUS NUDUS
6118040201	CALOCALANUS STYLIREMIS	CALOCALANUS STYLIREMIS
6118040202	CALOCALANUS PAVO	CALOCALANUS PAVO
6118040204	CALOCALANUS PAVONINUS	CALOCALANUS PAVONINUS
6118040207	CALOCALANUS ELEGANS	CALOCALANUS ELEGANS
6118040208	* CALOCALANUS SP. 4	CALOCALANUS SP. 4
6118040207	* CALOCALANUS SP. 3	CALOCALANUS SP. 3
6118040208	* CALOCALANUS SP. 2	CALOCALANUS SP. 2
6118040209	* CALOCALANUS SP. 1	CALOCALANUS SP. 1
6118040301	ACROCALANUS LONGICORNIS	ACROCALANUS LONGICORNIS
6118040303	ACROCALANUS ANDERSONI	ACROCALANUS ANDERSONI
6118040401	ISCHNOCALANUS PLUMULOSUS	ISCHNOCALANUS PLUMULOSUS
61180501	CLAUSOCALANUS	CLAUSOCALANUS
6118050101	CLAUSOCALANUS ARCUICORNIS	CLAUSOCALANUS ARCUICORNIS
6118050103	CLAUSOCALANUS FURCATUS	CLAUSOCALANUS FURCATUS
6118050104	CLAUSOCALANUS PERGENS	CLAUSOCALANUS PERGENS



STOCS ZOOPLANKTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
6118050105	CLAUSOCALANUS PARAPERGENS	CLAUSOCALANUS PARAPERGENS
6118050107	CLAUSOCALANUS JOBEI	CLAUSOCALANUS JOBEI
6118050108	CLAUSOCALANUS MASTIGOPHORUS	CLAUSOCALANUS MASTIGOPHORUS
6118050109	CLAUSOCALANUS PAULULUS	CLAUSOCALANUS PAULULUS
6118050201	CTENOCALANUS VANUS	CTENOCALANUS VANUS
6118050402	MICROCALANUS PYGMAEUS	MICROCALANUS PYGMAEUS
6118070203	AETIDEUS ACUTUS	AETIDEUS ACUTUS
6118070204	AETIDEUS GIESBRECHTI	AETIDEUS GIESBRECHTI
6118070403	BRADYIDIUS ARNOLDI	BRADYIDIUS ARNOLDI
6118070409	* BRADYIDIUS SP. 1	BRADYIDIUS SP.1
6118070609	* CHIRIDIUS SUBGRACILIS	CHIRIDIUS SUBGRACILIS
6118070901	EUCHIRELLA AMOENA	EUCHIRELLA AMOENA
6118070905	EUCHIRELLA MESSINENSIS	EUCHIRELLA MESSINENSIS
6118070907	EUCHIRELLA PULCHRA	EUCHIRELLA PULCHRA
6118070908	EUCHIRELLA ROSTRATA	EUCHIRELLA ROSTRATA
6118070913	EUCHIRELLA SPLENDENS	EUCHIRELLA SPLENDENS
6118071007	GAETANUS MINOR	GAETANUS MINOR
6118071404	UNDEUCHAETA PLUMOSA	UNDEUCHAETA PLUMOSA
6118071701	EUAETIDEUS GIESBRECHTI	EUAETIDEUS GIESBRECHTI
6118080113	EUCHAETA MARINA	EUCHAETA MARINA
6118080113	EUCHAETA MARINA	EUCHAETA MARINA
6118080114	EUCHAETA MEDIA	EUCHAETA MEDIA
6118080125	EUCHAETA SPINOSA	EUCHAETA SPINOSA
6118080131	EUCHAETA PARACONCINNA	EUCHAETA PARACONCINNA
6118080133	EUCHAETA PUBERA	EUCHAETA PUBERA
6118090401	PHAENNA SPINIFERA	PHAENNA SPINIFERA
6118100202	LOPHOTHRIX LATIPES	LOPHOTHRIX LATIPES
6118100305	RACOVITZANUS LEVIS	RACOVITZANUS LEVIS
6118100414	SCAPHOCALANUS BREVIROSTRIS	SCAPHOCALANUS BREVIROSTRIS
6118100415	SCAPHOCALANUS SUBCURTUS	SCAPHOCALANUS SUBCURTUS
6118100504	SCOLECITHRICELLA MINOR	SCOLECITHRICELLA MINOR
6118100508	SCOLECITHRICELLA CTENOPUS	SCOLECITHRICELLA CTENOPUS
6118100510	SCOLECITHRICELLA VITTATA	SCOLECITHRICELLA VITTATA
6118100511	SCOLECITHRICELLA TENUISERRATA	SCOLECITHRICELLA TENUISERRATA
6118100601	SCOLECITHRIX DANAE	SCOLECITHRIX DANAE
6118100603	SCOLECITHRIX BRADYI	SCOLECITHRIX BRADYI
6118101509	SCOLECITHRICELLA DENTATA	SCOLECITHRICELLA DENTATA
6118120201	STEPHOS DEICHMANNAE	STEPHOS DEICHMANNAE
6118130301	PARUNDINELLA SPINODENTICULA	PARUNDINELLA SPINODENTICULA
6118160301	PLEUROMAMMA ABDOMINALIS	PLEUROMAMMA ABDOMINALIS
6118160303	PLEUROMAMMA GRACILIS	PLEUROMAMMA GRACILIS
6118160307	PLEUROMAMMA XIPHIAS	PLEUROMAMMA XIPHIAS
6118160308	PLEUROMAMMA PISEKI	PLEUROMAMMA PISEKI
6118170104	CENTROPAGES FURCATUS	CENTROPAGES FURCATUS
6118170105	CENTROPAGES HAMATUS	CENTROPAGES HAMATUS
6118170107	CENTROPAGES VELIFICATUS	CENTROPAGES VELIFICATUS
6118170109	CENTROPAGES CARIBBEANENSIS	CENTROPAGES CARIBBEANENSIS
6118190298	* PSEUDODIAPTOMUS SP. 2	PSEUDODIAPTOMUS SP.2
6118190299	* PSEUDODIAPTOMUS SP. 1	PSEUDODIAPTOMUS SP.1
6118200301	TEMORA STYLIFERA	TEMORA STYLIFERA
6118200304	TEMORA TURBINATA	TEMORA TURBINATA
6118200401	TEMORPIA MAYUMBAENSIS	TEMORPIA MAYUMBAENSIS
6118210104	LUCICUTIA FLAVICORNIS	LUCICUTIA FLAVICORNIS
6118210116	LUCICUTIA CLAUSII	LUCICUTIA CLAUSII
6118210120	LUCICUTIA GAUSSAE	LUCICUTIA GAUSSAE
6118210121	LUCICUTIA GEMINA	LUCICUTIA GEMINA
6118210122	LUCICUTIA PARACLAUSI	LUCICUTIA PARACLAUSI
6118220206	HETERORHABDUS PAPILLIGER	HETERORHABDUS PAPILLIGER
6118220209	HETERORHABDUS SPINIFRONS	HETERORHABDUS SPINIFRONS
6118220212	HETERORHABDUS MEDIANUS	HETERORHABDUS MEDIANUS
6118230106	AUGAPTILUS LONGICAUDATUS	AUGAPTILUS LONGICAUDATUS
6118230107	AUGAPTILUS MEGALURUS	AUGAPTILUS MEGALURUS
6118230211	HETERORHABDUS SPINIFER	HETERORHABDUS SPINIFER
61182303	EUCALANUS	EUCALANUS
6118230399	* EUAUGAPTILUS HECTICUS	EUAUGAPTILUS HECTICUS
6118230401	HALOPTILUS ACUTIFRONS	HALOPTILUS ACUTIFRONS
6118230403	HALOPTILUS LONGICORNIS	HALOPTILUS LONGICORNIS
6118230407	HALOPTILUS ORNATUS	HALOPTILUS ORNATUS
6118230408	HALOPTILUS SPINICEPS	HALOPTILUS SPINICEPS
6118230409	HALOPTILUS AUSTINI	HALOPTILUS AUSTINI
6118230410	HALOPTILUS PARALONGICIRRUS	HALOPTILUS PARALONGICIRRUS
6118260101	CANDACIA BIPINNATA	CANDACIA BIPINNATA
6118260105	CANDACIA PACHYDACTYLA	CANDACIA PACHYDACTYLA
6118260107	CANDACIA CURTA	CANDACIA CURTA
6118260108	CANDACIA LONGIMANA	CANDACIA LONGIMANA

## STOCS ZOOPLANKTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
6118260110	CANDACIA VARICANS	CANDACIA VARICANS
6118260201	PARACANDACIA BISPINOSA	PARACANDACIA BISPINOSA
6118260202	PARACANDACIA SIMPLEX	PARACANDACIA SIMPLEX
6118270205	LABIDOCERA AESTIVA	LABIDOCERA AESTIVA
6118270206	LABIDOCERA ACUTIFRONS	LABIDOCERA ACUTIFRONS
6118270208	LABIDOCERA SCOTTI	LABIDOCERA SCOTTI
6118270302	PONTELLA MEADII	PONTELLA MEADII
6118270305	PONTELLA ATLANTICA	PONTELLA ATLANTICA
6118270307	PONTELLA SECURIFER	PONTELLA SECURIFER
6118270401	PONTELLINA PLUMATA	PONTELLINA PLUMATA
6118270502	ANOMALOCERA ORNATA	ANOMALOCERA ORNATA
6118270601	CALANOPIA AMERICANA	CALANOPIA AMERICANA
6118270609	* CALANOPIA AMERICAN	CALANOPIA AMERICAN
6118270801	PONTELLOPSIS VILLOSA	PONTELLOPSIS VILLOSA
6118290102	ACARTIA DANAE	ACARTIA DANAE
6118290104	ACARTIA TONSA	ACARTIA TONSA
6118290109	ACARTIA LILLJEBORGII	ACARTIA LILLJEBORGII
6118310101	MORMONILLA MINOR	MORMONILLA MINOR
6119	HARPACTICOIDA	BENTHIC HARPACTICOID FEMALES
6119	HARPACTICOIDA	BENTHIC HARPACTICOID IMMATURES
6119	HARPACTICOIDA	BENTHIC HARPACTICOID MALES
6119	HARPACTICOIDA	COPEPODA HARPACTICOIDA
6119	HARPACTICOIDA	HARPACTICOID COPEPODITES
61190901	MICROSETELLA	MICROSETELLA IMMATURES
61190901	MICROSETELLA	MICROSETELLA MALES
6119090101	MICROSETELLA NORVEGICA	MICROSETELLA NORVEGICA
6119090102	MICROSETELLA ROSEA	MICROSETELLA ROSEA
61191201	CLYTEMNESTRA	CLYTEMNESTRA
61191201	CLYTEMNESTRA	CLYTEMNESTRA IMMATURES
61191201	CLYTEMNESTRA	CLYTEMNESTRA MALES
6119120101	CLYTEMNESTRA ROSTRATA	CLYTEMNESTRA ROSTRATA
6119120102	CLYTEMNESTRA SCUTELLATA	CLYTEMNESTRA SCUTELLATA
61193001	MACROSETELLA	MACROSETELLA IMMATURES
61193001	MACROSETELLA	MACROSETELLA MALES
6119300101	MACROSETELLA GRACILIS	MACROSETELLA GRACILIS
61193002	OCULOSETELLA	OCULOSETELLA IMMATURES
61193002	OCULOSETELLA	OCULOSETELLA MALES
6119300201	OCULOSETELLA GRACILIS	OCULOSETELLA GRACILIS
61193003	MIRACIA	MIRACIA IMMATURES
61193003	MIRACIA	MIRACIA MALES
6119300301	MIRACIA EFFERATA	MIRACIA EFFERATA
6119300302	MIRACIA MINOR	MIRACIA MINOR
6120	CYCLOPOIDA	COPEPODA CYCLOPOIDA
6120	CYCLOPOIDA	CYCLOPOID COPEPODITES
6120	CYCLOPOIDA	OTHER CYCLOPOID IMMATURES
6120	CYCLOPOIDA	OTHER CYCLOPOID MALES
61200102	LUBBOCKIA	LUBBOCKIA IMMATURES
61200102	LUBBOCKIA	LUBBOCKIA MALES
6120010204	LUBBOCKIA SQUILLIMANA	LUBBOCKIA SQUILLIMANA
61200103	ONCAEA	ONCAEA
61200103	ONCAEA	ONCAEA IMMATURES
61200103	ONCAEA	ONCAEA MALES
6120010302	ONCAEA CONIFERA	ONCAEA CONIFERA
6120010304	ONCAEA NOTOPUS	ONCAEA NOTOPUS
6120010305	ONCAEA ORNATA	ONCAEA ORNATA
6120010307	ONCAEA SIMILIS	ONCAEA SIMILIS
6120010310	ONCAEA MEDITERRANEA	ONCAEA MEDITERRANEA
6120010312	ONCAEA VENUSTA	ONCAEA VENUSTA
6120010313	ONCAEA MEDIA	ONCAEA MEDIA
6120010314	ONCAEA DENTIPES	ONCAEA DENTIPES
61200106	PACHOS	PACHOS IMMATURES
61200106	PACHOS	PACHOS MALES
6120010601	PACHOS PUNCTATUM	PACHOS PUNCTATUM
61200202	RATANIA	RATANIA IMMATURES
61200202	RATANIA	RATANIA MALES
6120020202	RATANIA FLAVA	RATANIA FLAVA
61200401	CORYCAEUS	CORYCAEUS
61200401	CORYCAEUS	CORYCAEUS IMMATURES
61200401	CORYCAEUS	CORYCAEUS MALES
6120040103	CORYCAEUS AMAZONICUS	CORYCAEUS AMAZONICUS
6120040108	CORYCAEUS LAUTUS	CORYCAEUS LAUTUS
6120040109	CORYCAEUS SPECIOSUS	CORYCAEUS SPECIOSUS
6120040111	CORYCAEUS CLAUSI	CORYCAEUS CLAUSI
6120040112	CORYCAEUS FLACCUS	CORYCAEUS FLACCUS
6120040113	CORYCAEUS LATUS	CORYCAEUS LATUS

## STOCS ZOOPLANKTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
0120040114	CORYCAEUS LIMBATUS	CORYCAEUS LIMBATUS
0120040115	CORYCAEUS TYPICUS	CORYCAEUS TYPICUS
0120040117	CORYCAEUS FURCIFER	CORYCAEUS FURCIFER
0120040118	CORYCAEUS GIESBRECHTI	CORYCAEUS GIESBRECHTI
0120040119	CORYCAEUS MINIMUS	CORYCAEUS MINIMUS
0120040120	CORYCAEUS AMERICANUS	CORYCAEUS AMERICANUS
01200402	FARRANULA	FARRANULA
01200402	FARRANULA	FARRANULA IMMATURES
01200402	FARRANULA	FARRANULA MALES
0120040201	FARRANULA GRACILIS	FARRANULA GRACILIS
0120040203	FARRANULA ROSTRATA	FARRANULA ROSTRATA
01200602	SAPHIRELLA	SAPHIRELLA IMMATURES
01200602	SAPHIRELLA	SAPHIRELLA MALES
0120060201	SAPHIRELLA TROPICA	SAPHIRELLA TROPICA
0120060298	* SAPHIRELLA SP. 2	SAPHIRELLA SP.2
0120060299	* SAPHIRELLA SP. 1	SAPHIRELLA SP.1
01200901	OITHONA	OITHONA
01200901	OITHONA	OITHONA IMMATURES
01200901	OITHONA	OITHONA MALES
0120090102	OITHONA PLUMIFERA	OITHONA PLUMIFERA
0120090103	OITHONA SIMILIS	OITHONA SIMILIS
0120090108	OITHONA SETIGERA	OITHONA SETIGERA
0120090109	OITHONA COLCARVA	OITHONA COLCARVA
0120090112	OITHONA NANA	OITHONA NANA
0120090113	OITHONA HEBES	OITHONA HEBES
0120090114	OITHONA DECIPIENS	OITHONA DECIPIENS
0120090115	OITHONA ROBUSTA	OITHONA ROBUSTA
0120090116	OITHONA SIMPLEX	OITHONA SIMPLEX
0120090117	OITHONA FALLAX	OITHONA FALLAX
0120090118	OITHONA TENUIS	OITHONA TENUIS
0120090119	OITHONA VIVIDA	OITHONA VIVIDA
0120090120	OITHONA HAMATA	OITHONA HAMATA
0120090121	OITHONA MINUTA	OITHONA MINUTA
0120090196	* OITHONA SP. 4	OITHONA SP.4
0120090197	* OITHONA SP. 3	OITHONA SP.3
0120090198	* OITHONA SP. 2	OITHONA SP.2
0120090199	* OITHONA SP. 1	OITHONA SP.1
01200902	PAROITHONA	PAROITHONA IMMATURES
01200902	PAROITHONA	PAROITHONA MALES
01200902	PAROITHONA	PAROITHONA SP.
0120090201	PAROITHONA PULLA	PAROITHONA PULLA
012010	SAPPHIRINIDAE	SAPPHIRINIDAE
01201001	SAPPHIRINA	SAPPHIRINA
01201001	SAPPHIRINA	SAPPHIRINA IMMATURES
01201001	SAPPHIRINA	SAPPHIRINA MALES
0120100101	SAPPHIRINA OVATOLANCEOLATA	SAPPHIRINA OVATOLANCEOLATA
0120100102	SAPPHIRINA METALLINA	SAPPHIRINA METALLINA
0120100103	SAPPHIRINA NIGROMACULATA	SAPPHIRINA NIGROMACULATA
0120100105	SAPPHIRINA ANGUSTA	SAPPHIRINA ANGUSTA
0120100106	SAPPHIRINA OPALINA	SAPPHIRINA OPALINA
0120100107	SAPPHIRINA STELLATA	SAPPHIRINA STELLATA
0120100108	SAPPHIRINA AURONITENS	SAPPHIRINA AURONITENS
0120100109	SAPPHIRINA BICUSPIDATA	SAPPHIRINA BICUSPIDATA
0120100110	SAPPHIRINA INTESTINATA	SAPPHIRINA INTESTINATA
0120100111	SAPPHIRINA LACTENS	SAPPHIRINA LACTENS
0120100112	SAPPHIRINA MACULOSA	SAPPHIRINA MACULOSA
0120100198	* SAPPHIRINA SP. 2	SAPPHIRINA SP.2
0120100199	* SAPPHIRINA SP. 1	SAPPHIRINA SP.1
01201002	CORISSA	CORISSA IMMATURES
01201002	CORISSA	CORISSA MALES
0120100201	CORISSA PARVA	CORISSA PARVA
01201003	COPILIA	COPILIA IMMATURES
01201003	COPILIA	COPILIA MALES
0120100301	COPILIA MIRABILIS	COPILIA MIRABILIS
0120100302	COPILIA QUADRATA	COPILIA QUADRATA
0120100303	COPILIA VITREA	COPILIA VITREA
0120100304	COPILIA LATA	COPILIA LATA
01201004	VETTORIA	VETTORIA IMMATURES
01201004	VETTORIA	VETTORIA MALES
0120100401	VETTORIA GRANULOSA	VETTORIA GRANULOSA
01201099	* LICHOMOLGUS	LICHOMOLGUS IMMATURES
01201099	* LICHOMOLGUS	LICHOMOLGUS MALES
0120109998	* LICHOMOLGUS SP. 2	LICHOMOLGUS SP.2
0120109999	* LICHOMOLGUS SP. 1	LICHOMOLGUS SP.1
01220201	MONSTRILLA	MONSTRILLA SP.

**STOCS ZOOPLANKTON TAXA LIST**

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
6130	CIRREPIDIA	BARNACLE CYPRIS
6130	CIRREPIDIA	BARNACLE NAUPLII
613402	BALANIDAE	BALANIDAE (LARVAE)
6151	MYSIDACEA	MYSIDACEA
6153	MYSIDA	PERICARIDA MYSIDACEA MYSIDA
6168	AMPHIPODA	AMPHIPODA
6169	GAMMARIDAE	PERICARIDA AMPHIPODA GAMMARIDAE
6174	EUPHAUSIACEA	EUCARIDA EUPHAUSIACEA
6174	EUPHAUSIACEA	EUPHAUSIACEA
6175	DECAPODA	DECAPOD LARVAE
6175	DECAPODA	DECAPOD MEGALOPA
6175	DECAPODA	DECAPOD ZOEAE
6175	DECAPODA	EUCARIDA DECAPODA (ZOEAE)
61770202	LUCIFER	LUCIFER
61770202	LUCIFER	LUCIFER MYSIDS
6177020201	LUCIFER FAXONI	LUCIFER FAXONI
6179	CARIDEA	EUCARIDA DECAPODA PLEOCYEMATA CARIDEA
6183	ANOMURA	EUCARIDA DECAPODA PLEOCYEMATA ANOMURA
6191	STOMATOPODA	STOMATOPOD LARVAE
6191	STOMATOPODA	STOMATOPODA (LARVAE)
81	ECHINODERMATA	ECHINODERM LARVAE
81	ECHINODERMATA	ECHINODERMATA (LARVAE)
83	CHAETOGNATHA	CHAETOGNATHA
8300000301	SAGITTA BIPUNCTATA	SAGITTA BIPUNCTATA
8300000304	SAGITTA ENFLATA	SAGITTA ENFLATA
84	UROCHORDATA	OTHER UROCHORDATES
84100101	DOLIOLUM	DOLIOLUM
84100101	DOLIOLUM	DOLIOLUMDOLIOLUM
84110103	SALPA SP.	SALPA
8412	LARVACEA	LARVACEA
84130101	OIKOPLEURA	OIKOPLEURA
84130201	FRITILLARIA	FRITILLARIA
8717	OSTEICHTHYES	OSTEICHTHYES (EGGS)
8717	OSTEICHTHYES	OSTEICHTHYES (LARVAE)
99999999	* EUADNE	EUADNE
9999999995	* SIPHONOSTOMATA SP. 2	SIPHONOSTOMATA SP.2
9999999996	* SIPHONOSTOMATA SP. 1	SIPHONOSTOMATA SP.1
9999999997	* PAIVELLA INACIAE	PAIVELLA INACIAE
9999999998	* NECYNOCERA CLAUSII	NECYNOCERA CLAUSII
9999999999	UNIDENTIFIED	OTHERS

## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

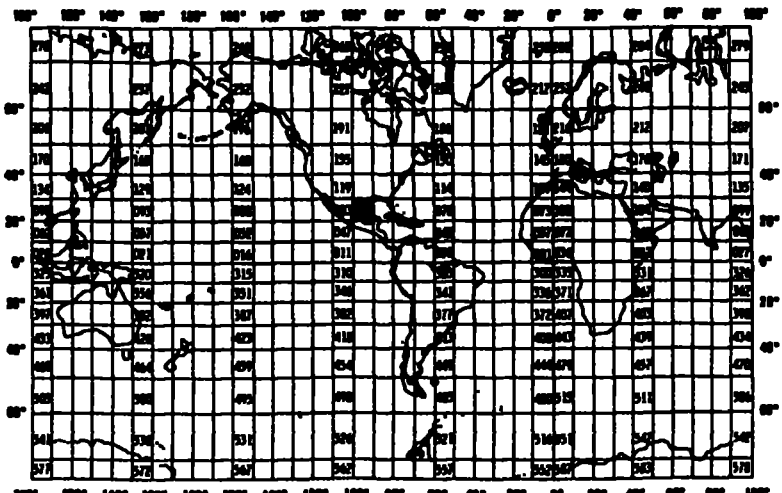
This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

NA 2020 plankton  
P/O to 206

## A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

124

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Minerals Management Service Gulf of Mexico OCS Region 3301 N. Causeway Blvd. Metairie, LA 70010			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Environmental Studies, South Texas Outer Continental Shelf, 1975-1977		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 2,3,8,11,13,17,23,24,27,31,34,35,38,45, 47,51,53,57,62,65,67,72,75,78,83,85,89	
4. PLATFORM NAME(S) R/V Longhorn	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR USA USA	7. DATES FROM: MO/PAY/YR TO: MO/DAY/YR 12/11/74 12/03/77
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Mr. Craig Brandt Quantus, Inc. P.O. Box 2501 Oak Ridge, TN 37831 (615) 482-9614			

## B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	700	Nansen bottles	Inductive salinometer (Hytech model 5510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING  
TWO PAGES FOR THIS INFORMATION)

## B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
		see attachments		

## **C. DATA FORMAT**

**This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.**

- 1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).**
- 2. Describe briefly how your file is organized.**
- 3-13. Self-explanatory.**
- 14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity.**
- 15. Enter starting position of the field.**
- 16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.**
- 17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").**
- 18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.**



### C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE  
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

see nodc file type 124 02/18/82 version

**2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION**

see nodc file type 124 02/18/82 version

**3. ATTRIBUTES AS EXPRESSED IN** ☐ PL-1 ☐ ALGOL ☐ COBOL  
☐ FORTRAN ☐ \_\_\_\_\_ LANGUAGE

**4. RESPONSIBLE COMPUTER SPECIALIST:** Mr. Craig Brandt (615) 482-9614  
NAME AND PHONE NUMBER  
ADDRESS P.O. Box 2501, Oak Ridge, TN 37831

**COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE**

<b>5. RECORDING MODE</b> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	
<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 4800	
	<b>13. LENGTH OF BYTES IN BITS</b> 8

## RECORD FORMAT DESCRIPTION

**RECORD NAME** see nodc file type 124 02/18/82 version

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED  (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	

**Environmental Studies, South Texas Outer Continental Shelf, 1975-1977**

**Data Type: Microzooplankton--Protozoa**

**Principle Investigator: Patricia L. Johansen**

**Affiliation: University of Texas Marine Science Institute  
Port Aransas Marine Laboratory  
Port Aransas, Texas**

**Methodological Summary:**

One-liter water samples were collected with a 50 l Niskin bottle from the surface and from one half the depth of the photic zone. These samples were preserved with 1% basic Lugol's fixative.

A 500 ml aliquot of each 1 l sample was placed in a graduated cylinder and allowed to settle for 24 hours. At this time, 400 ml were drawn off and the remaining 100 ml transferred to a Utermohl settling chamber. The ciliates were identified to species and enumerated. The foraminifera, radiolaria and acantharia were enumerated. Following counting, the aliquot was combined with the original sample, resettled, drawn down to 10 ml and archived.

Biomass estimates were calculated by estimating the volume of the ciliates (not including the lorica). Assuming a cell density of  $1, 1\mu^3$  approximately equals  $10^{-6}$  ug wet weight. Dry weight was assumed to be 13% of the wet weight (Beers and Stewart, 1970). Total dry weights ( $\text{mg}/\text{m}^3$ ) were calculated by multiplying the abundance of each species in the sample by its respective volume, converting to dry weight and summing the individual estimates.

For detailed methodologies, see the following reports:

Flint, R. W., and C. W. Griffin (eds.). 1979. Environmental studies, south Texas outer continental shelf, biology and chemistry. 1977 final report to the Bureau of Land Management, Washington, D.C. Contract No. AA550-CT7-11.

Groover, R. D. (ed.). 1977a. Environmental studies, south Texas outer continental shelf, biology and chemistry. 1976 final report to the Bureau of Land Management, Washington, D.C. Contract No. AA550-CT6-17.

Groover, R. D. (ed.). 1977b. Environmental studies, south Texas outer

continental shelf, rig monitoring. 1976 final report to the Bureau of Land Management, Washington, D.C. Contract No. AA550-CT6-17.

Parker, P. L. (ed.). 1976. Environmental studies, south Texas outer continental shelf, biology and chemistry. 1975 final report to the Bureau of Land Management, Washington D.C. Contract No. 08550-CT5-16.

**Table 3. Microzooplankton/Protozoa Abundance Data from the STOCS Program.**

<u>Tape File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record Count</u>
61	124ST0002	STOCS, Cruise 2, 12/11/74 - 12/18/74	53
62	124ST0003	STOCS, Cruise 3, 01/09/75 - 01/09/75	21
63	124ST0008	STOCS, Cruise 8, 04/16/75 - 04/18/75	47
64	124ST0011	STOCS, Cruise 11, 05/13/75 - 05/17/75	32
65	124ST0013	STOCS, Cruise 13, 09/04/75 - 09/09/75	73
66	124ST0017	STOCS, Cruise 17, 01/30/76 - 02/04/76	47
67	124ST0023	STOCS, Cruise 23, 03/18/76 - 03/20/76	68
68	124ST0025	STOCS, Cruise 25, 04/02/76 - 04/04/76	65
69	124ST0027	STOCS, Cruise 27, 05/29/76 - 06/08/76	57
70	124ST0031	STOCS, Cruise 31, 07/10/76 - 07/12/76	39
71	124ST0034	STOCS, Cruise 34, 08/04/76 - 08/07/76	38
72	124ST0035	STOCS, Cruise 35, 08/09/76 - 08/11/76	12
73	124ST0038	STOCS, Cruise 38, 09/10/76 - 09/16/76	28
74	124ST0045	STOCS, Cruise 45, 11/08/76 - 11/10/76	19
75	124ST0047	STOCS, Cruise 47, 12/01/76 - 12/03/76	8
76	124ST0051	STOCS, Cruise 51, 01/11/77 - 01/12/77	60
77	124ST0053	STOCS, Cruise 53, 01/17/77 - 01/22/77	248
78	124ST0057	STOCS, Cruise 57, 02/21/77 - 02/22/77	89
79	124ST0062	STOCS, Cruise 62, 03/14/77 - 03/15/77	93
80	124ST0065	STOCS, Cruise 65, 04/20/77 - 04/21/77	214
81	124ST0067	STOCS, Cruise 67, 05/15/77 - 05/21/77	519
82	124ST0072	STOCS, Cruise 72, 07/06/77 - 07/07/77	86
83	124ST0075	STOCS, Cruise 75, 08/04/77 - 08/05/77	133
84	124ST0078	STOCS, Cruise 78, 09/06/77 - 09/12/77	404
85	124ST0083	STOCS, Cruise 83, 10/20/77 - 10/21/77	75
86	124ST0085	STOCS, Cruise 85, 11/05/77 - 11/06/77	197
87	124ST0089	STOCS, Cruise 89, 12/02/77 - 12/03/77	185

## STOCS PROTOZOA TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
34	PROTOZOA	UNIDENTIFIED PROTOZOA
3446999999	• ELLIPSONODOSARIA ROTUNDATA	ELLIPSONODOSARIA ROTUNDATA
3452636199	• CORNUSPIRA PLANORBIS	CORNUSPIRA PLANORBIS
3452146106	• QUINQUELOCULINA SEMINULUM	QUINQUELOCULINA SEMINULUM
3452146198	• QUINQUELOCULINA INTRICATA	QUINQUELOCULINA INTRICATA
3452146199	• QUINQUELOCULINA PATAGONI	QUINQUELOCULINA PATAGONI
3452146399	• TRILOCULINA TRANSVERSESTRIATA	TRILOCULINA TRANSVERSESTRIATA
3453186199	• FISSURINA PULCHELLA	FISSURINA PULCHELLA
3453386102	• BULIMINELLA ELEGANTIS	BULIMINELLA ELEGANTIS
3453426101	• BOLIVINA ELONGATA	BOLIVINA ELONGATA
3453426110	• BOLIVINA STRIATULA	BOLIVINA STRIATULA
3453546201	• BUCCELLA FRIGIDA	BUCCELLA FRIGIDA
3454216103	• GLOBIGERINA PACHYDERMA	GLOBIGERINA PACHYDERMA
3454216199	• GLOBIGERINA DUTERTREI	GLOBIGERINA DUTERTREI
3454229999	• HASTIGERINA PELAGICA	HASTIGERINA PELAGICA
3454616501	• NONION GRATELOUPI	NONION GRATELOUPI
3465999993	• STICHOLONCHE ZANCEA	STICHOLONCHE ZANCEA
3465999994	• SPONGOSPHAERA STREPACANTHA	SPONGOSPHAERA STREPACANTHA
3465999995	• SPHAEROZOOM PUNCTATA	SPHAEROZOOM PUNCTATA
3465999996	• LITHELIUS ALVEOLINA	LITHELIUS ALVEOLINA
3465999997	• HEXALONCHA PHILISOPHICA	HEXALONCHA PHILISOPHICA
3465999998	• DICTYOCORYNE PROFUNDA	DICTYOCORYNE PROFUNDA
3465999999	• CUBOTHALUS REGULARIS	CUBOTHALUS REGULARIS
34689997	• CLATHROCONICUM	CLATHROCONICUM SP.
34689998	• CERATOSPHYRIS	CERATOSPHYRIS SP.
34689999	• ACROBOTRYS	ACROBOTRYS SP.
3468999994	• ZYGOCIRCUS PISCICAUDATA	ZYGOCIRCUS PISCICAUDATA
3468999995	• TRIPLACIACANTHA ABIETIHA	TRIPLACIACANTHA ABIETIHA
3468999996	• NEPHROSPYRIS DOCRIS	NEPHROSPYRIS DOCRIS
3468999997	• LITHOMELLISA SETOSA	LITHOMELLISA SETOSA
3468999998	• CALOCYLAS MONUMENTUM	CALOCYLAS MONUMENTUM
3468999999	• ANTHOCYRTIDIUM OPHIRENSE	ANTHOCYRTIDIUM OPHIRENSE
3469999999	• CONCHIDINIUM ARGIOPE	CONCHIDINIUM ARGIOPE
3470999998	• ACANTHOSTARUS PURPURASCENS	ACANTHOSTARUS PURPURASCENS
3470999999	• ACANTHOSTARUS PALLIDUS	ACANTHOSTARUS PALLIDUS
3474999999	• ACTINOSPHAERA EICHHORNII	ACTINOSPHAERA EICHHORNII
3499999999	• EUGLYPHA LOEVI	EUGLYPHA LOEVI
3515999997	• TIARINA GIGANTEA	TIARINA GIGANTEA
3515999998	• TIARINA FUCUS	TIARINA FUCUS
3515999999	• TIARINA FUSUS	TIARINA FUSUS
3515999999	• NASSULA MICROSPORA	NASSULA MICROSPORA
3516610199	• DIDINIUM GIGANTEA	DIDINIUM GIGANTEA
3516610201	• MESODINIUM PULEX	MESODINIUM PULEX
3516610299	• MESODINIUM RUBRUM	MESODINIUM RUBRUM
3533999998	• TRICOPHYA COLUMBIAE	TRICOPHYA COLUMBIAE
3533999999	• EPHELOTA GEMINARIA	EPHELOTA GEMINARIA
3539999991	• TONTONIA GRACILLIMA	TONTONIA GRACILLIMA
3539999992	• STROMBIDIUM TYPICUM	STROMBIDIUM TYPICUM
3539999993	• STROMBIDIUM SULCATUM	STROMBIDIUM SULCATUM
3539999994	• STROMBIDIUM STROBILUS	STROMBIDIUM STROBILUS
3539999995	• STROMBIDIUM OVALE	STROMBIDIUM OVALE
3539999996	• STROMBIDIUM CORNUCOPIAE	STROMBIDIUM CORNUCOPIAE
3539999997	• STROMBIDIUM CONICUM	STROMBIDIUM CONICUM
3539999998	• STROMBIDIUM CALKINSI	STROMBIDIUM CALKINSI
3539999999	• STROMBIDIUM ACUMINATUM	STROMBIDIUM ACUMINATUM
3540020105	• TINTINNOPSIS DADAYI	TINTINNOPSIS DADAYI
3540020107	• TINTINNOPSIS LEVIGATA	TINTINNOPSIS LEVIGATA
3540020108	• TINTINNOPSIS PARVA	TINTINNOPSIS PARVULA
3540020111	• TINTINNOPSIS TUBULOSA	TINTINNOPSIS TUBULOSA
3540020117	• TINTINNOPSIS MINUTA	TINTINNOPSIS MINUTA
3540020183	• TINTINNOPSIS TOCANTINENSIS	TINTINNOPSIS TOCANTINENSIS
3540020184	• TINTINNOPSIS STRIGOSA	TINTINNOPSIS STRIGOSA
3540020185	• TINTINNOPSIS SACCULUS	TINTINNOPSIS SACCULUS
3540020186	• TINTINNOPSIS RADIX	TINTINNOPSIS RADIX
3540020187	• TINTINNOPSIS OVALE	TINTINNOPSIS OVALE
3540020188	• TINTINNOPSIS LOBIANCOI	TINTINNOPSIS LOBIANCOI
3540020189	• TINTINNOPSIS LINDENI	TINTINNOPSIS LINDENI
3540020190	• TINTINNOPSIS LATA	TINTINNOPSIS LATA
3540020191	• TINTINNOPSIS FIMBRIATA	TINTINNOPSIS FIMBRIATA
3540020192	• TINTINNOPSIS FENNICA	TINTINNOPSIS FENNICA
3540020193	• TINTINNOPSIS DIRECTA	TINTINNOPSIS DIRECTA
3540020194	• TINTINNOPSIS CORONATA	TINTINNOPSIS CORONATA
3540020195	• TINTINNOPSIS COMPRESSA	TINTINNOPSIS COMPRESSA
3540020196	• TINTINNOPSIS COCHLEATA	TINTINNOPSIS COCHLEATA
3540020197	• TINTINNOPSIS BRANDTI	TINTINNOPSIS BRANDTI

124  
STOCS  
Abundance

## STOCS PROTOZOA TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
3540020198	* TINTINNOPSIS ACUMINATA	TINTINNOPSIS ACUMINATA
3540020199	* TINTINNIDIUM INCERTUM	TINTINNIDIUM INCERTUM
3540030103	* STENOSEMELLA VENTRICOSA	STENOSEMELLA VENTRICOSA
3540040998	* DICTYOCYSTA RETICULATA	DICTYOCYSTA RETICULATA
3540040999	* DICTYOCYSTA LATA	DICTYOCYSTA LATA
3540050999	* COXIELLA PELAGICA	COXIELLA PELAGICA
3540070199	* FAVELLA PANAMENSIS	FAVELLA PANAMENSIS
3540100995	* RHABDONELLOPSIS TRITON	RHABDONELLOPSIS TRITON
3540100996	* RHABDONELLA HEBE	RHABDONELLA HEBE
3540100997	* RHABDONELLA CONICA	RHABDONELLA CONICA
3540100998	* RHABDONELLA CANELATA	RHABDONELLA CANELATA
3540100999	* RHABDONELLA BRANDTI	RHABDONELLA BRANDTI
3540110999	* XYSTONELLA TREFORTI	XYSTONELLA TREFORTI
3540120999	* UNDELLA HYALINA	UNDELLA HYALINA
3540130199	* EUTINTINNUS APERTUS	EUTINTINNUS APERTUS
3540130199	* EUTINTINNUS TENUE	EUTINTINNUS TENUE
3540130299	* TINTINNUS TUBULOSUS	TINTINNUS TUBULOSUS
354009050999	* EUTINTINNUS LASUS-UNDAE	EUTINTINNUS LASUS-UNDAE
3540090609	* STEENSTRUPIELLA GRACILIS	STEENSTRUPIELLA GRACILIS
3540090709	* SALPINGELLA MINUTISSIMA	SALPINGELLA MINUTISSIMA
3540090799	* SALPINGELLA ACUMINATA	SALPINGELLA ACUMINATA
3540090809	* SALPINGACANTHA UNDATA	SALPINGACANTHA UNDATA
3540090899	* PSEUDOMETACYLIS ORNATA	PSEUDOMETACYLIS ORNATA
3540090909	* PROTORHABDONELLA CURTA	PROTORHABDONELLA CURTA
3540090197	* PROPLECTELLA SUBCAUDATA	PROPLECTELLA SUBCAUDATA
3540090198	* PROPLECTELLA GLOBOSA	PROPLECTELLA GLOBOSA
3540090199	* PROPLECTELLA CLAPAREDEI	PROPLECTELLA CLAPAREDEI
3540090206	* PARUNDELLA SUBCAUDATA	PARUNDELLA SUBCAUDATA
3540090207	* PARUNDELLA DIFICILIS	PARUNDELLA DIFICILIS
3540090208	* PARUNDELLA CONICA	PARUNDELLA CONICA
3540090209	* PARUNDELLA ATTENUATA	PARUNDELLA ATTENUATA
3540090309	* ORMOSELLA BRESSLAUI	ORMOSELLA BRESSLAUI
3540090409	* EPILOCYCLOIDES ACUTA	EPILOCYCLOIDES ACUTA
3540090507	* DADAYIELLA PACHYTOECUS	DADAYIELLA PACHYTOECUS
3540090508	* DADAYIELLA JORGENSENI	DADAYIELLA JORGENSENI
3540090509	* DADAYIELLA GANYMEDES	DADAYIELLA GANYMEDES
3540090609	* CODONELLOPSIS AMERICANA	CODONELLOPSIS AMERICANA
3540090709	* CLIMACOCYLIS SCALAROIDES	CLIMACOCYLIS SCALAROIDES
3540090808	* AMPHORIDES QUADRILINEATA	AMPHORIDES QUADRILINEATA
3540090809	* AMPHORIDES BRANDTI	AMPHORIDES BRANDTI
3540090908	* ACANTHOSTOMELLA NORVEGICA	ACANTHOSTOMELLA NORVEGICA
3540090909	* ACANTHOSTOMELLA GRACILIS	ACANTHOSTOMELLA GRACILIS
3543090908	* EUPLOTES SEXCOSTATUS	EUPLOTES SEXCOSTATUS
3543090909	* EUPLOTES MINUTA	EUPLOTES MINUTA
3544020198	* HOLOSTICHA PERNIX	AMPHISIA PERNIX
3544020199	* HOLOSTICHA OVALE	AMPHISIA OVALE
5030011309	* LOHMANIELLA OVIFORMIS	LOHMANIELLA OVIFORMIS
9901	* ROBULUS RENIFORMIS	ROBULUS RENIFORMIS



## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-73)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

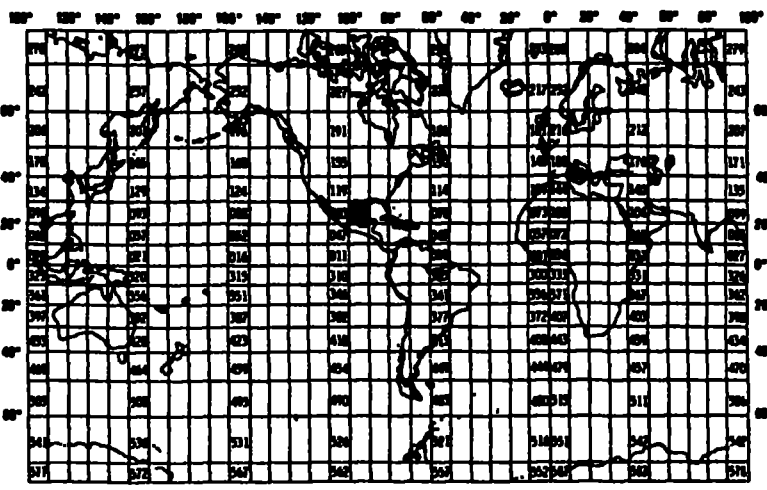
This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

Newton

## A. ORIGINATOR IDENTIFICATION

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THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Minerals Management Service Gulf of Mexico OCS Region 3301 N. Causeway Blvd. Metairie, LA 70010			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Environmental Studies, South Texas Outer Continental Shelf, 1975-1977		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 18,19,21,22,24,26,28,29,30,32,37,39,42, 46,49,51,53,57,62,65,67,72,77,78,85,92	
4. PLATFORM NAME(S) R/V Longhorn	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR
		usa usa	02/08/76 12/19/77
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNA- TIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELE- PHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Mr. Craig Brandt Quantus, Inc. P.O. Box 2501 Oak Ridge, TN 37831 (615) 482-9614			

## B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

### EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	700	Nansen bottles	Inductive salinometer (Hytech model 5510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	$\phi$ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING  
TWO PAGES FOR THIS INFORMATION)

**B. SCIENTIFIC CONTENT**

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
		see attachments		

## C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).
2. Describe briefly how your file is organized.
- 3-13. Self-explanatory.
14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity).
15. Enter starting position of the field.
16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.
17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").
18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

### C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE  
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

see nodc file type 124 02/18/82 version

**2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION**

see nodc file type 124 02/18/82 version

**3. ATTRIBUTES AS EXPRESSED IN** ☐ PL-1 ☐ ALGOL ☐ COBOL  
☐ FORTRAN ☐ \_\_\_\_\_ LANGUAGE

**4. RESPONSIBLE COMPUTER SPECIALIST:** Mr. Craig Brandt (615) 482-9614  
NAME AND PHONE NUMBER  
ADDRESS P.O. Box 2501, Oak Ridge, TN 37831

**COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE**

<b>5. RECORDING MODE</b> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____
<b>7. PARITY</b> <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____	
	<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 4800
	<b>13. LENGTH OF BYTES IN BITS</b> 8

## RECORD FORMAT DESCRIPTION

**RECORD NAME** see nodc file type 124 02/18/82 version

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <small>(e.g., bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED  (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	

CHAPTER FIFTEEN

NEUSTON PROJECT

Texas A&M University  
Department of Oceanography

Principal Investigator:

John H. Wormuth

Associate Investigators:

Linda H. Pequegnat

John D. McEachran

Assistant Investigators:

Alan Hart

James Cummings

Mary Ann Daher

Chinyelu Odumodu



thesis by Berkowitz (1976). This study compared the neuston and near-surface zooplankton in the northwestern Gulf of Mexico in oceanic waters off Texas above the 1000-fathom bottom contour of the continental slope zone. The neuston in this area appeared to be relatively impoverished compared to plankton concentrations one meter below the surface. The above two studies did not, however, include detailed analyses of fish larvae and eggs or decapod larvae, as in the present BLM study.

Other neuston studies in the Gulf of Mexico have been sparse and incomplete. Zaitsev (1970) reported on neuston from the Gulf of Mexico, which he found to be poor in areas of upwelling, where biomass (wet fresh weight) did not exceed 100-200 mg/m<sup>3</sup>, but where the water converges in the center of the Gulf the wet-weight biomass reached 410 mg/m<sup>3</sup>.

Jeffrey *et al.* (1974) reported on relative abundance of pelagic tar in the Gulf of Mexico from neuston samples but did not report on the biotic aspects of the neuston. A cursory study of the latter was reported on briefly, however, in Pequegnat *et al.* (1976).

## METHODS

### Field

Field sampling was carried out under two different schemes. The winter seasonal cruise used the net from the 1976 program. This net had a 2 m x 1 m opening and yielded one sample per tow. Starting with the March monthly and for the remainder of 1977, a net 2 m x 0.5 m partitioned into four equal areas by vertical bars was used. Each section had a separate net so it was possible to collect four samples per tow. All four samples from each tow were analyzed for the March and April cruises. The agreement among the four "replicates" for all six tows was compared in detail for the March samples and the results were reported in the Second

Quarterly Report, 1977. No systematic bias was found in any of these comparisons and the agreement within the sets of four was very good. Starting with the spring seasonal samples two net chambers were randomly selected and analyzed. The values used for analysis represented averages of four samples for March and April and averages of two samples from Spring to December.

The mesh size of the four nets was 505  $\mu\text{m}$ . After each tow the nets were rinsed down and each cod end was emptied into a separate jar. The jars were filled with 10% formaldehyde solution (4% formaldehyde) and buffered with sodium borate. Labels were added with the starting and final flowmeter readings. The flowmeter was suspended just below the middle of the net and recorded the distance traveled by the net. Assuming an average fishing depth of 15 cm the volume of water filtered could be estimated. It also was assumed each net filtered an equal volume of water. The validity of these last two assumptions remains untested.

### Laboratory

Each sample was "rough sorted" initially to remove large organisms and non-living debris. This material was put in a separate jar and labeled as the large fraction. The remainder was put into a Folsom plankton splitter which mechanically divided the sample in half. The first split produced the "archive half" and the other half was resplit. This resplitting process continued until two final aliquots of approximately 1000 individuals were obtained. One of these final aliquots was used for a dry weight determination while the other was used for taxonomic identifications. Each tow resulted in at least four aliquots, five if there was a large fraction present. For example, if a sample was split four times and there was also a large fraction, there were the following aliquots: a large

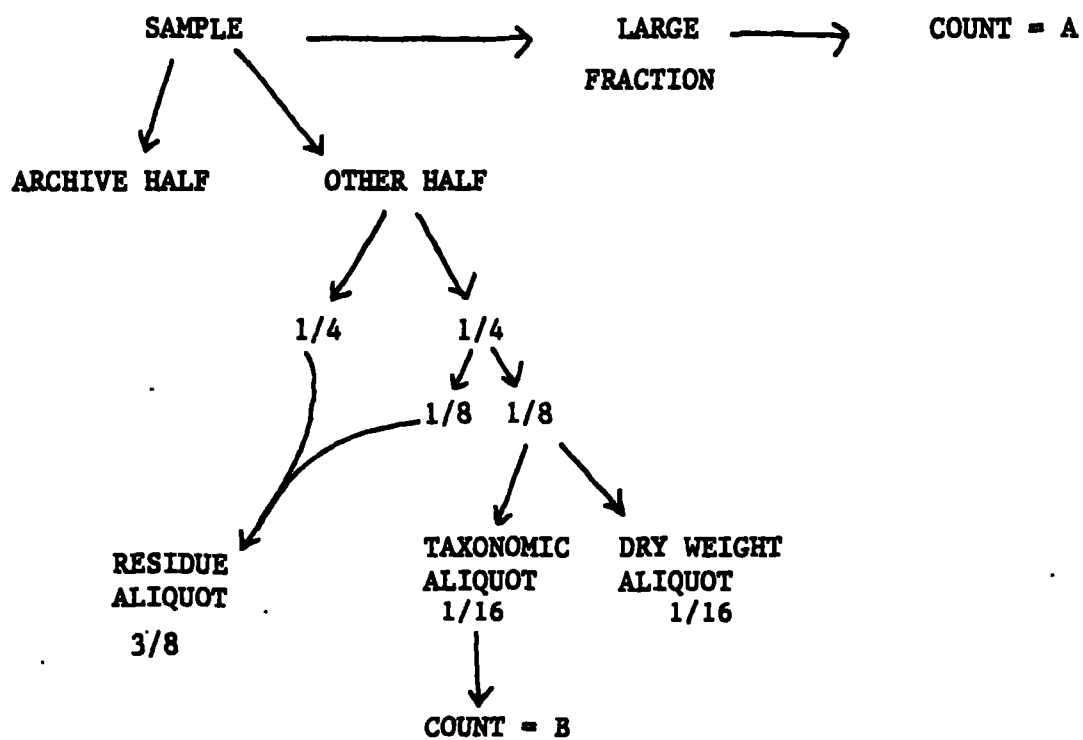
fraction, an archive half ( $1/2$  of original sample), one final aliquot for taxonomy ( $1/16$  of original sample), one final aliquot for dry weight and ash-free dry weight ( $1/16$  of original sample) and a residue ( $1/2 - 1/16 - 1/16$  or  $3/8$  of original sample) (Figure 15.1).

The archive half was permanently stored. The organisms and debris in the large fraction were enumerated. These counts were called "A". The organisms in one final aliquot were also identified and counted. These were called "B". Any tar in either of these samples was removed, dried at  $60^{\circ}\text{C}$  and weighed separately. Any tar in the other final aliquot was removed and added to that from the other final aliquot before drying. This then represented the tar from  $1/8$  of the original sample.

The counts termed "B" were then multiplied by  $(1000/\text{volume filtered}) \times 4$  nets to give the numbers per  $1000 \text{ m}^3$  per net per aliquot. If these numbers were multiplied by the inverse of the aliquot size ( $16$ ) the number per  $1000 \text{ m}^3$  per net was obtained. The large fraction counts ("A") were multiplied by "C", which was a correction factor to a constant volume (Figure 15.1) and added to the values of the number per  $1000 \text{ m}^3$  per tow obtained from the "B" counts. Then the total sample was counted and corrected to a standard volume,  $1000 \text{ m}^3$  in this case.

The other final aliquot was dried at  $60^{\circ}\text{C}$  to constant weight and weighed. It was then put in a muffle furnace at  $500^{\circ}\text{C}$  to combust all organics and weighed again. The difference between these two weights was the ash-free dry weight. The same corrections for aliquot size and volume filtered were made.

In the taxonomic sorting all decapods and decapod larvae were sorted out and sent to Dr. Linda Pequegnat for analysis. All fish and fish eggs were also removed and sent to Dr. John McEachran for analysis. These people also sorted through all the large fractions for their organisms.



$$\frac{1000\text{m}^3}{\text{(VOLUME FILTERED)}} = C$$

$$\text{TOTALS} = (A \cdot C) + (B \cdot C \cdot 16) = \text{NUMBERS PER } 1000\text{m}^3$$

Figure 15.1 : Schematic diagram of the analysis of a single sample.

In addition McEachran sorted all the residue aliquots for fish and fish eggs.

The results of the general taxonomic analyses will be discussed first, followed by a discussion of the decapod and decapod larvae results by Dr. Pequegnat and finally a discussion of the fish and fish eggs results by Dr. McEachran.

## RESULTS

### Dry Weight

An examination of the dry weight data for the entire year (Table 15.1) showed a considerable amount of variability. In Table 15.2 the averaged values along Transect II using both day and night values are presented. This was done since there were unequal numbers of day and night observations if all transects were used and diel differences were not consistent along a transect. Figure 15.2 shows these means and 95% confidence intervals. Considerable overlap of intervals was observed due to the high variability and a horizontal line could be drawn which intersected every month. This indicated that there were no significant seasonal changes which could be shown in our data.

### Tar Weight

Figure 15.3 shows monthly and seasonal averages for all available data. With the exception of August which had small variability (and a small mean), all other values were indistinguishable at the 95% level.

### Species Counts

The general philosophy of this report was not to present a lot of results which showed little. Examination of monthly changes of total numbers per unit volume provided little additional information and there-

Table 2. Neuston Abundance Data from the STOCS Program.

<u>Tape File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record Count</u>
35	124STOC18	STOCS, Cruise 18, 02/08/76 - 02/10/76	180
36	124STOC19	STOCS, Cruise 19, 02/12/76 - 02/17/76	198
37	124STOC21	STOCS, Cruise 21, 02/26/76 - 02/29/76	315
38	124STOC22	STOCS, Cruise 22, 03/09/76 - 03/12/76	243
39	124STOC24	STOCS, Cruise 24, 03/25/76 - 03/28/76	256
40	124STOC26	STOCS, Cruise 26, 04/08/76 - 04/11/76	218
41	124STOC28	STOCS, Cruise 28, 06/10/76 - 06/15/76	252
42	124STOC29	STOCS, Cruise 29, 06/18/76 - 06/22/76	255
43	124STOC30	STOCS, Cruise 30, 06/24/76 - 06/29/76	273
44	124STOC32	STOCS, Cruise 32, 07/16/76 - 07/19/76	200
45	124STOC37	STOCS, Cruise 37, 08/27/76 - 08/29/76	244
46	124STOC39	STOCS, Cruise 39, 09/19/76 - 09/23/76	436
47	124STOC42	STOCS, Cruise 42, 10/06/76 - 10/11/76	470
48	124STOC46	STOCS, Cruise 46, 11/15/76 - 11/18/76	233
49	124STOC49	STOCS, Cruise 49, 12/08/76 - 12/10/76	227
50	124STOC51	STOCS, Cruise 51, 01/11/77 - 01/12/77	172
51	124STOC53	STOCS, Cruise 53, 01/17/77 - 01/22/77	259
52	124STOC57	STOCS, Cruise 57, 02/21/77 - 02/22/77	156
53	124STOC62	STOCS, Cruise 62, 03/14/77 - 03/15/77	309
54	124STOC65	STOCS, Cruise 65, 04/20/77 - 04/21/77	330
55	124STOC67	STOCS, Cruise 67, 05/15/77 - 05/21/77	628
56	124STOC72	STOCS, Cruise 72, 07/06/77 - 07/07/77	250
57	124STOC77	STOCS, Cruise 77, 08/18/77 - 08/19/77	250
58	124STOC78	STOCS, Cruise 78, 09/06/77 - 09/12/77	573
59	124STOC85	STOCS, Cruise 85, 11/05/77 - 11/06/77	264
60	124STOC92	STOCS, Cruise 92, 12/18/77 - 12/19/77	304

## STOCS NEUSTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
15100401	SARGASSUM	SARGASSUM FAUNA
15100401	SARGASSUM	SARGASSUM
3448	FORAMINIFERA	FORAMINIFERA
37	CNIDARIA	MEDUSAE
37140101	VELELLA	VELLELA
37140201	PORPITA	PORPITA
3715	SIPHONOPHORA	SIPHONOPHORE PARTS
3715	SIPHONOPHORA	SIPHONOPHORES
37100101	PHYSALIA	PHYSALIA
38	CTENOPHORA	CTENOPHORES
47	NEMATODA	NEMATODES
5001	POLYCHAETA	POLYCHAETES
500114	ALCIOPIDAE	ALCIOPIDAE
500119	TYPHLOSCOLECIDAE	TYPHLOSCOLECIDAE
500120	TOMOPTERIDAE	TOMOPTERIDAE
5005	MOLLUSCA	MOLLUSCA
51	GASTROPODA	GASTROPOD MEROPLANKTERS
51	GASTROPODA	PTEROPODS
5103	HETEROPODA	HETEROPODS
51035199	* JANTHINA	JANTHINA BUBBLE RAFTS
51035199	* JANTHINA	JANTHINA SHELLS
510373	ATLANTIDAE	ATLANTIDAE
510375	PTEROTRACHEIDAE	PTEROTRACHEIDAE
5113010101	LIMACINA BULIMOIDES	LIMACINA BULIMOIDES
5113010103	LIMACINA INFLATA	LIMACINA INFLATA
5113010105	LIMACINA TROCHIFORMIS	LIMACINA TROCHIFORMIS
5113020102	CAVOLINA INFLEXA	CAVOLINIA INFLEXA
5113020106	CAVOLINA LONGIROSTRIS	CAVOLINIA LONGIROSTRIS
5113020107	CAVOLINA UNCINATA	CAVOLINIA UNCINATA
5113020199	* CAVOLINA GIBBOSA	CAVOLINIA GIBBOSA
5113020301	CRESEIS ACICULA	CRESEIS ACICULA
5113020302	CRESEIS VIRGULA	CRESEIS VIRGULA
5113020401	DIACRIA QUADRIDENTATA	DIACRIA QUADRIDENTATA
5113020601	STYLIOLA SUBULA	STYLIOLA SUBULA
5113020801	HYALOCYLIS STRIATA	HYALOCYLIS STRIATA
51130301	PERACLIS	PERACLIS SPP.
5125	GYMNOSOMATA	GYMNOSOMES
51420499	* GLAUCUS	GLAUCUS
55	BIVALVIA	BIVALVE MEROPLANKTERS
61	CRUSTACEA	CRUSTACEA
6100	CLADOCERA	CLADOCERA
6110	OSTRACODA	OSTRACODA
6117	COPEPODA	COPEPOD EXOSKELETONS
6117	COPEPODA	COPEPOD NAUPLIUS
6117	COPEPODA	COPEPODA
6118	CALANOIDA	CALANOIDS
6118	CALANOIDA	IMMATURE + UNIDENTIFIED CALANO
6110010209	CALANUS MINOR	NANNOCALANUS MINOR
6110010301	UNDINULA VULGARIS	UNDINULA VULGARIS FEMALE
6110010301	UNDINULA VULGARIS	UNDINULA VULGARIS IMM.
6110010301	UNDINULA VULGARIS	UNDINULA VULGARIS MALE
6110010401	NEOCALANUS GRACILIS	NEOCALANUS GRACILIS FEMALE
6110010401	NEOCALANUS GRACILIS	NEOCALANUS GRACILIS IMM.
6110010401	NEOCALANUS GRACILIS	NEOCALANUS GRACILIS MALE
61100301	EUCALANUS	EUCALANUS SPP. FEMALE
61100301	EUCALANUS	EUCALANUS SPP. MALE
6110030101	EUCALANUS ATTENUATUS	EUCALANUS ATTENUATUS FEMALE
6110030101	EUCALANUS ATTENUATUS	EUCALANUS ATTENUATUS IMM.
6110030101	EUCALANUS ATTENUATUS	EUCALANUS ATTENUATUS MALE
6110030103	EUCALANUS ELONGATUS	EUCALANUS ELONGATUS FEMALE
6110030103	EUCALANUS ELONGATUS	EUCALANUS ELONGATUS IMM.
6110030103	EUCALANUS ELONGATUS	EUCALANUS ELONGATUS MALE
6110030105	EUCALANUS PILEATUS	EUCALANUS PILEATUS FEMALE
6110030105	EUCALANUS PILEATUS	EUCALANUS PILEATUS IMM.
6110030105	EUCALANUS PILEATUS	EUCALANUS PILEATUS MALE
61100302	RHINCALANUS	RHINCALANUS UNIDENTIFIED
6110030201	RHINCALANUS CORNUTUS	RHINCALANUS CORNUTUS
61100801	EUCHAETA	EUCHAETA SPP IMMATURE
61100801	EUCHAETA	EUCHAETA SPP.
6110080113	EUCHAETA MARINA	EUCHAETA MARINA FEMALE
6110080113	EUCHAETA MARINA	EUCHAETA MARINA MALE
61101003	PLEUROMAMMA	PLEUROMAMMA SPP. IMMATURE
6110100301	PLEUROMAMMA ABDOMINALIS	PLEUROMAMMA ABDOMINALIS IMMATU
6110100303	PLEUROMAMMA GRACILIS	P. GRACILIS PISECKI MALES
6110100303	PLEUROMAMMA GRACILIS	PLEUROMAMMA GRACILIS FEMALE

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Neundange &  
Brown

## STOCS NEUSTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
6118160308	PLEUROMAMMA PISEKI	PLEUROMAMMA PISECKI FEMALE
6118170104	CENTROPAGES FURCATUS	CENTROPAGES FURCATUS FEMALE
6118170104	CENTROPAGES FURCATUS	CENTROPAGES FURCATUS MALE
6118200301	TEMORA STYLIFERA	TEMORA STYLIFERA
6118200304	TEMORA TURBINATA	TEMORA TURBINATA
61182001	CANDACIA	CANDACIA SPP
6118200101	CANDACIA BIPINNATA	CANDACIA BIPINNATA FEMALE
6118200101	CANDACIA BIPINNATA	CANDACIA BIPINNATA MALE
6118200105	CANDACIA PACHYDACTYLA	CANDACIA PACHYDACTYLA FEMALE
6118200105	CANDACIA PACHYDACTYLA	CANDACIA PACHYDACTYLA MALE
6118200107	CANDACIA CURTA	CANDACIA CURTA FEMALE
6118200107	CANDACIA CURTA	CANDACIA CURTA MALE
6118200201	PARACANDACIA BISPINOSA	PARACANDACIA BISPINOSA FEMALE
6118200201	PARACANDACIA BISPINOSA	PARACANDACIA BISPINOSA MALE
611827	PONTELLIDAE	PONTELLIDS
61182702	LABIDOCERA	LABIDOCERA IMMATURE
6118270205	LABIDOCERA AESTIVA	LABIDOCERA AESTIVA FEMALE
6118270205	LABIDOCERA AESTIVA	LABIDOCERA AESTIVA MALE
6118270206	LABIDOCERA ACUTIFRONS	LABIDOCERA ACUTIFRONS FEMALE
6118270206	LABIDOCERA ACUTIFRONS	LABIDOCERA ACUTIFRONS MALE
6118270208	LABIDOCERA SCOTTI	LABIDOCERA SCOTTI FEMALE
6118270208	LABIDOCERA SCOTTI	LABIDOCERA SCOTTI MALE
61182703	PONTELLA	PONTELLA IMMATURE
6118270302	PONTELLA MEADII	PONTELLA MEADII FEMALE
6118270302	PONTELLA MEADII	PONTELLA MEADII MALE
6118270305	PONTELLA ATLANTICA	PONTELLA ATLANTICA FEMALE
6118270305	PONTELLA ATLANTICA	PONTELLA ATLANTICA MALE
6118270307	PONTELLA SECURIFER	PONTELLA SECURIFER FEMALE
6118270307	PONTELLA SECURIFER	PONTELLA SECURIFER MALE
6118270308	* PONTELLA MIMOCERAMI	PONTELLA MIMOCERAMI
6118270399	* PONTELLA SP. A	PONTELLA SP. \A/ FEMALE
6118270399	* PONTELLA SP. A	PONTELLA SP. \A/ MALE
61182704	PONTELLINA	PONTELLINA IMMATURE
6118270401	PONTELLINA PLUMATA	PONTELLINA PLUMATA FEMALE
6118270401	PONTELLINA PLUMATA	PONTELLINA PLUMATA MALE
6118270502	ANOMALOCERA ORNATA	ANOMALOCERA ORNATA FEMALE
6118270502	ANOMALOCERA ORNATA	ANOMALOCERA ORNATA IMMATURE
6118270502	ANOMALOCERA ORNATA	ANOMALOCERA ORNATA MALE
6118270601	CALANOPIA AMERICANA	CALANOPIA AMERICANA FEMALE
6118270601	CALANOPIA AMERICANA	CALANOPIA AMERICANA MALE
61182708	PONTELLOPSIS	PONTELLOPSIS IMMATURE
6118270801	PONTELLOPSIS VILLOSA	PONTELLOPSIS VILLOSA FEMALE
6118270801	PONTELLOPSIS VILLOSA	PONTELLOPSIS VILLOSA MALE
6119	HARPACTICOIDA	HARPACTICOIDA
6120	CYCLOPOIDA	CYCLOPOIDA
61201001	SAPPHIRINA	SAPPHIRINA SPP
6120100102	SAPPHIRINA METALLINA	SAPPHIRINA METALLINA
6120100103	SAPPHIRINA NIGROMACULATA	SAPPHIRINA NIGROMACULATA
6120100199	* SAPPHIRINA STELLATA	SAPPHIRINA STELLATA
6120100301	COPILIA MIRABILIS	COPILIA MIRABILIS FEMALE
6120100301	COPILIA MIRABILIS	COPILIA MIRABILIS MALE
6120100302	COPILIA QUADRATA	COPILIA QUADRATA FEMALE
6120100302	COPILIA QUADRATA	COPILIA QUADRATA MALE
6123	CALIGOIDA	CALIGOIDA
6130	CIRRIPEDIA	BARNACLE CYPRIDS
6130	CIRRIPEDIA	BARNACLE NAUPLII
6151	MYSIDACEA	MYSIDACEA
6154	CUMACEA	CUMACEA
6168	AMPHIPODA	AMPHIPODA
617001	HYPERIIDAE	HYPERIIDAE
617003	PHRONIMIDAE	PHRONIMIDS
6170030103	PHRONIMA COLLETTI	PHRONIMA COLLETTI
617402	EUPHAUSIIDAE	EUPHAUSIIDS
6175	DECAPODA	DECAPODA
6177	PENAEIDEA	SHRIMP LARVAE
6177020201	LUCIFER FAXONI	LUCIFER FAXONI
6177020202	LUCIFER TYPUS	LUCIFER TYPUS
6178	PLEOCYEMATA	MACRURAN LARVAE
6179	CARIDEA	CARIDEAN SHRIMP
6183	ANOMURA	ANOMURAN CRAB LARVAE
6184	BRACHYURA	BRACHYURAN CRABS
6184	BRACHYURA	BRACHYURAN MEGALOPS
6184	BRACHYURA	BRACHYURAN ZOEAS
618901	PORTUNIDAE	PORTUNIO CRABS
6191	STOMATOPODA	STOMATOPOD ALIMA LARVAE



# STOCS NEUSTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
6274019999	• HALOBATES MICANS	HALOBATES MICANS
81	ECHINODERMATA	ECHINODERM LARVAE
83	CHAETOGNATHA	CHAETOGNATHS
84	UROCHORDATA	TUNICATES
8407	THALIACEA	SALPS
841001	DOLIOLIDAE	DOLIOLIDS
8413	LARVACEA	LARVACEANS
9924	FEATHERS	FEATHERS
9925	FISH	FISH
9925	FISH	FISH EGGS
9927	MISCELLANEOUS DEBRIS	MISCELLANEOUS DEBRIS
9928	PLANT STEMS	PLANT STEMS
9929	PLASTIC	PLASTIC
9930	PLANT SEEDS	SEA BEANS (PLANT SEEDS)
9931	SHELL FRAGMENTS	SHELL FRAGMENTS
9932	STRING	STRING
9933	TAR	TAR
9934	TERRESTRIAL INSECTS	TERRESTRIAL INSECTS
9935	WORM	UNIDENTIFIED WORM
9936	WOOD	WOOD
9999999999	UNIDENTIFIED	LARVAE
9999999999	UNIDENTIFIED	OTHER

## DATA DOCUMENTATION FORM

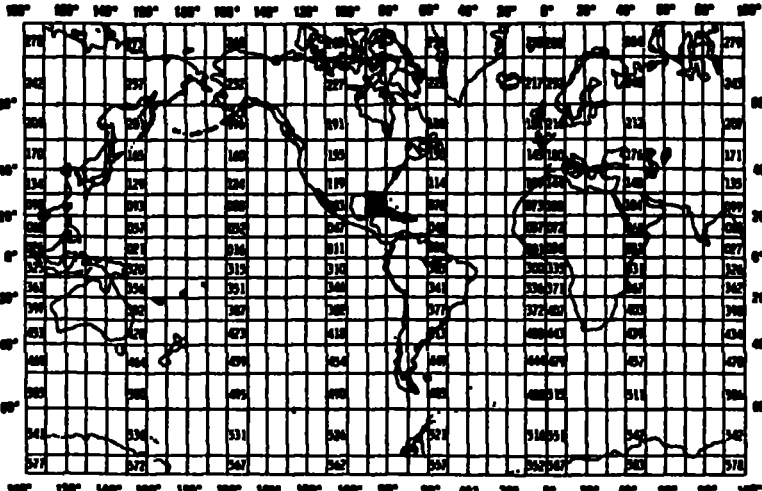
NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

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## A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Minerals Management Service Gulf of Mexico OCS Region 3301 N. Causeway Blvd. Metairie, LA 70010					
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Baseline Monitoring Studies, Mississippi, Alabama, Florida Outer Continental Shelf 1975-1976; The Mississippi, Alabama, Florida Outer Continental Shelf Baseline Environment Survey, 1977-1978		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 42, DM3			
4. PLATFORM NAME(S) R/V Bellows R/V Pacific Seal	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) ship	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM usa	OPERATOR usa	FROM: MO, DAY, YR 07/22/76	TO: MO, DAY, YR 02/20/78
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  GENERAL AREA			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNPI)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)					
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Mr. Craig Brandt Quantus Inc. P.O. Box 2501 Oak Ridge, TN 37831 (615) 482-9614					

## B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

### EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model 5510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING  
TWO PAGES FOR THIS INFORMATION)

## B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
		see attachments		

## **C. DATA FORMAT**

**This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.**

**1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).**

**2. Describe briefly how your file is organized.**

**3-13. Self-explanatory.**

**14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity.**

**15. Enter starting position of the field.**

**16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.**

**17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").**

**18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.**

**COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.**

see nodc file type 124 02/18/82 version

see nodc file type 124 02/18/82 version

4. RESPONSIBLE COMPUTER SPECIALIST: Mr. Craig Brandt (615) 482-9614  
NAME AND PHONE NUMBER  
ADDRESS P.O. Box 2501, Oak Ridge, TN 37831

[illegible]



## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED  (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	



The Mississippi, Alabama, Florida Outer Continental Shelf Survey (MAFLA)

Program Work Element: Zooplankton Taxonomy

Principle Investigator: Mr. John Caldwell/Dr. Frank Maturo

Affiliation: University of Florida

Methodological Summary:

Shipboard Procedures - Zooplankton were collected four times per day for five consecutive days at Station C (Florida Middle Grounds) only. One or more double-oblique tows were made during each sampling interval using Nitex plankton nets (mesh size 202  $\mu$ ) attached to the tow wire. An opening-closing net was used for chemical samples; non-closing nets fitted with a flow meter yielded samples for taxonomic studies.

The plankton samples for taxonomic purposes were transferred to glass screw-cap jars and preserved with 5% formalin.

Laboratory Procedures - Each sample was split initially in a Folsom plankton splitter, one-half retained as the archived sample portion, the other half used for counting, identification, and biomass determinations. The counting sample was then split repeatedly until an aliquot of approximately 200 animals was attained. The aliquot was placed in a channeled counting chamber, enumerated, and identified to the lowest possible taxon. Dry weight biomass was determined by washing the entire counting half of the sample in distilled water, placing it in a tared container, and drying to constant weight at 60° C. Ash-free weights were determined by placing the sample in a crucible and then a muffle furnace at 500° for one hour. The samples were cooled, re-wetted with distilled water, and dried to constant weight at 105° C. Subtraction of the crucible and ash weights from the dry weight yielded ash-free weight.

For further documentation of the methodologies utilized during the MAFLA program, see the following documents:

Dames and Moore. 1979. The Mississippi, Alabama, Florida outer continental shelf baseline environmental survey, MAFLA 1977/1978. Volumes IA, IB, IIA, IIB. Final report to the Bureau of Land Management, Washington, D. C. by Dames and Moore, Los Angeles, CA.

Table 8. Zooplankton Abundance Data from the MAFLA Program.

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
206	124MAF042	MAFLA, Cruise 42, 07/22/76 - 07/28/76	133
207	124MAFDM3	MAFLA, Cruise DM3, 01/31/78 - 02/20/78	124

MAFLA ZOOPLANKTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
12850101	PYROCYSTIS	PYROCYSTIS
3715	HYDROZOA SIPHONOPHORA	HYDROZOA SIPHONOPHORA
5001	POLYCHAETA	POLYCHAETA
51	GASTROPODA	GASTROPODA (VELIGERS)
5113	THECOSOMATA	THECOSOMATA
51130101	LIMACINA	LIMACINA
5113020103	CAVOLINA LONGIROSTRATUS	CAVOLINA LONGIROSTRATUS
51130202	CLIO	CLIO
5113020302	CRESEIS VIRGULA	CRESEIS VIRGULATA
5125	GYMNOSOMATA	GYMNOSOMATA
55	BIVALVIA	BIVALVIA (LARVAE)
61110501	CONCHOECIA	CONCHOECIA
6117	COPEPODA	COPEPODA NAUPLII
6118	CALANOIDA	CALANOID COPEPODITES
6118	CALANOIDA	COPEPODA CALANOIDA
61180102	CALOCALANUS	CALOCALANUS
6118010301	UNDINULA VULGARIS	UNDINULA VULGARIS
6118030103	EUCALANUS ELONGATUS	EUCALANUS ELONGATUS
6118030201	RHINCALANUS CORNUTUS	RHINCALANUS CORNUTUS
61180401	PARACALANUS	PARACALANUS
61180501	CLAUSOCALANUS	CLAUSOCALANUS
6118071701	EUAETIDEUS GIESBRECHTI	EUAETIDEUS GIESBRECHTI
6118080113	EUCHAETA MARINA	EUCHAETA MARINA
6118100001	SCOLECITHRIX DANAE	SCOLECITHRIX DANAE
6118170104	CENTROPAGES FURCATUS	CENTROPAGES FURCATUS
6118200301	TEMORA STYLIFERA	TEMORA STYLIFERA
6118200304	TEMORA TURBINATA	TEMORA TURBINATA
61182303	EUCALANUS	EUCALANUS
6118260107	CANDACIA CURTA	CANDACIA CURTA
6118270305	PONTELLA ATLANTICA	PONTELLA ATLANTICA
6118270609	* CALANOPIA AMENCAN	CALANOPIA AMENCAN
6118290102	ACARTIA DANAE	ACARTIA DANAE
6119	HARPACTICOIDA	COPEPODA HARPACTICOIDA
6119	HARPACTICOIDA	HARPACTICOID COPEPODITES
61191201	CLYTEMNESTRA	CLYTEMNESTRA
6120	CYCLOPOIDA	COPEPODA CYCLOPOIDA
6120	CYCLOPOIDA	CYCLOPOID COPEPODITES
61200103	ONCAEA	ONCAEA
61200401	CORYCAEUS	CORYCAEUS
61200402	FARRANULA	FARRANULA
61200901	OITHONA	OITHONA
612010	SAPPHIRINIDAE	SAPPHIRINIDAE
61201001	SAPPHIRINA	SAPPHIRINA
613402	BALANIDAE	BALANIDAE (LARVAE)
6153	MYSIDA	PERICARIDA MYSIDACEA MYSIDA
6169	GAMMARIDAE	PERICARIDA AMPHIPODA GAMMARIDAE
6174	EUPHAUSIACEA	EUCARIDA EUPHAUSIACEA
6175	DECAPODA	EUCARIDA DECAPODA (ZOEAE)
61770202	LUCIFER	LUCIFER MYSIDS
6177020201	LUCIFER FAXONI	LUCIFER FAXONI
6179	CARIDEA	EUCARIDA DECAPODA PLEOCYEMATA CARIDE
6183	ANOMURA	EUCARIDA DECAPODA PLEOCYEMATA ANOMU
6191	STOMATOPODA	STOMATOPODA (LARVAE)
61	ECHINODERMATA	ECHINODERMATA (LARVAE)
83	CHAETOGNATHA	CHAETOGNATHA
8300000301	SAGITTA BIPUNCTATA	SAGITTA BIPUNCTATA
8300000304	SAGITTA ENFLATA	SAGITTA ENFLATA
84100101	DOLIOLUM	DOLIOLUM
84100101	DOLIOLUM	DOLIOLUM
84100101	DOLIOLUM	DOLIOLUMDOLIOLUM
8412	LARVACEA	LARVACEA
84130101	OIKOPLEURA	OIKOPLEURA
84130201	FRITILLARIA	FRITILLARIA
8717	OSTEICHTHYES	OSTEICHTHYES (EGGS)
8717	OSTEICHTHYES	OSTEICHTHYES (LARVAE)
99999999	* EUADNE	EUADNE
9999999998	* NECYNOCERA CLAUSII	NECYNOCERA CLAUSII

12/

MAFLA

Abundant

## DATA DOCUMENTATION FORM

NOAA FORM 24-13  
(4-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
ROCKVILLE, MARYLAND 20852FORM APPROVED  
O.M.B. No. 41-R2651

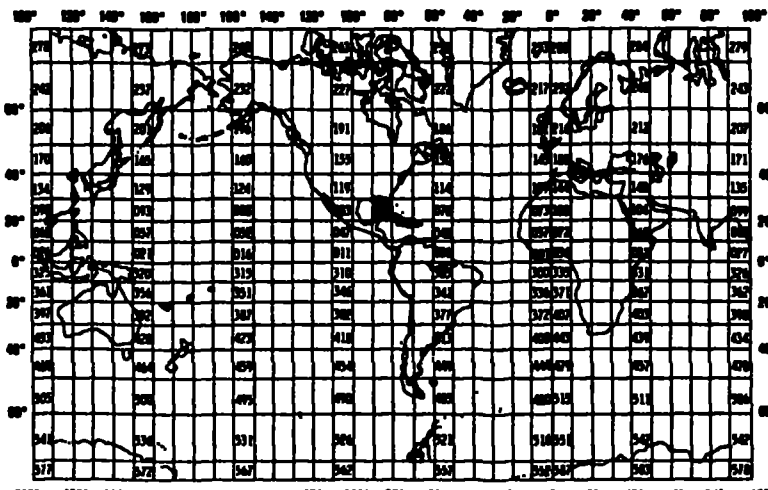
This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

Newston

## A. ORIGINATOR IDENTIFICATION

124

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED Minerals Management Service Gulf of Mexico OCS Region 3301 N. Causeway Blvd. Metairie, LA 70010					
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Baseline Monitoring Studies, Mississippi, Alabama, Florida, Outer Continental Shelf 1975-1976; The Mississippi, Alabama, Florida OUTER Continental Shelf Baseline Environment Survey, 1977-1978		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 38,41,42,43,DM3			
4. PLATFORM NAME(S) R/V Tuslops R/V Bellows R/V Pacific Seal	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)  ship	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
		usa	usa	06/10/76	02/20/78
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.  GENERAL AREA			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)					
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)  Mr. Craig Brandt Quantus, Inc. P.O. Box 2501 Oak Ridge, TN 38731 (615) 482-9614					

## B. SCIENTIFIC CONTENT

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example.

### EXAMPLE (HYPOTHETICAL INFORMATION)

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model 5510)	N/A (Not applicable)
		STD Bissett-Berman Model 9006	N/A	Values averaged over 5-meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING  
TWO PAGES FOR THIS INFORMATION)

## B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
		see attachments		

## **C. DATA FORMAT**

**This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.**

**1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).**

**2. Describe briefly how your file is organized.**

**3-13. Self-explanatory.**

**14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity.**

**15. Enter starting position of the field.**

**16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.**

**17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").**

**18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.**



### C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE  
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

see nodc file type 124 02/18/82 version

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

see nodc file type 124 02/18/82

3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL  
☐ FORTRAN ☐ \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:  
NAME AND PHONE NUMBER Mr. Craig Brandt (615) 482-9614  
ADDRESS P.O. Box 2501, Oak Ridge, TN 37831

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<b>5. RECORDING MODE</b> <input type="checkbox"/> BCD <input type="checkbox"/> BINARY <input checked="" type="checkbox"/> ASCII <input type="checkbox"/> EBCDIC <input type="checkbox"/> _____	<b>9. LENGTH OF INTER-RECORD GAP (IF KNOWN)</b> <input type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____	
<b>6. NUMBER OF TRACKS (CHANNELS)</b> <input type="checkbox"/> SEVEN <input checked="" type="checkbox"/> NINE <input type="checkbox"/> _____	<b>10. END OF FILE MARK</b> <input type="checkbox"/> OCTAL 17 <input type="checkbox"/> _____	
<b>7. PARITY</b> <input checked="" type="checkbox"/> ODD <input type="checkbox"/> EVEN	<b>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</b>          	
<b>8. DENSITY</b> <input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI <input type="checkbox"/> 556 BPI <input type="checkbox"/> 800 BPI <input type="checkbox"/> _____		<b>12. PHYSICAL BLOCK LENGTH IN BYTES</b> 4800
		<b>13. LENGTH OF BYTES IN BITS</b> 8

**CORD NAME** see nodc file type 124 02/18/82 version

**CORD NAME** see nodc file type 124 02/18/82 version

**A FORM 24-13**

## D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (IMFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALI- BRATED  (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	

The Mississippi, Alabama, Florida Outer Continental Shelf Survey (MAFLA)

Program Work Element: Neuston Taxonomy

Principle Investigator: Dr. Sneed Collard

Affiliation: University of West Florida

Methodological Summary:

Shipboard Procedures - Neuston samples were collected eight times per day at each of the four time series stations; sampling times occurred twice during daylight hours (nominally 1200 and 1600 h), once each at dusk and dawn, and four times during the night. Tow duration was held constant at 15 minutes. The sampler was a Kahl Scientific Instrument Company floating plankton sampler fitted with a 5 m long, 1 m diameter Nitex net with a mesh size of 202  $\mu$ .

The net was fished at a speed of less than 2 knots and from a position approximately 4-5 m off the starboard side of the vessel. The net was deployed outside of the vessel's bow wake to avoid admixture of subsurface plankton. The vessel was brought to a halt during deployment and retrieval of the net, and deck lights were extinguished during night time tows.

After each tow the sample was flushed into clean glass containers, and the net was washed with seawater and stowed. The samples were transferred to glass jars with screw-top lids and immediately preserved in 5% buffered formalin.

Laboratory Procedures - Neuston samples received in the laboratory were washed, had preservatives changed, and were picked to remove Sargassum, tar balls, plastics, and organisms greater than 2.5 cm in greatest dimension. The samples were then split, identified, and archived.

For further documentation of the methodologies utilized during the MAFLA program, see the following documents:

Dames and Moore. 1979. The Mississippi, Alabama, Florida outer continental shelf baseline environmental survey, MAFLA 1977/1978. Volumes IA, IB, IIA, IIB. Final report to the Bureau of Land Management, Washington, D. C. by Dames and Moore, Los Angeles, CA.

Table 9. Neuston Abundance Data from the MAFLA Program.

<u>Tape File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record Count</u>
208	124MAF038	MAFLA, Cruise 38, 06/10/76 - 06/17/76	469
209	124MAF041	MAFLA, Cruise 41, 07/07/76 - 07/16/76	370
210	124MAF042	MAFLA, Cruise 42, 07/22/76 - 07/28/76	792
211	124MAF043	MAFLA, Cruise 43, 08/01/76 - 08/08/76	491
212	124MAFDM3	MAFLA, Cruise DM3, 01/31/78 - 02/20/78	2176

## MAFLA NEUSTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
3288010299	* ANEMONE SARGASIENSIS	ANEMONE SARGASIENSIS
3448	FORAMINIFERA	FORAMINIFERIDA
37	CNIDARIA	CNIDARIA
3704	LEPTOMEDUSAE	HYDROZOA HYDROIDA LEPTOMEDUSAE
370401	CAMPANULARIIDAE	CAMPANULARIIDAE
3718	CALYCOPHORINA	HYDROZOA SIPHONOPHORA CALYCOPHORINA
371801	DIPHYIDAE	DIPHYIDAE
37180107	DIPHYES	DIPHYES
3718010799	* DIPHYES SPIRALIS	DIPHYES SPIRALIS
3718040299	* ABYLOPSIS TETRAGONA	ABYLOPSIS TETRAGONA
37180599	* ABYLA	ABYLA
3717010101	AGALMA ELEGANS	AGALMA ELEGANS
3718	RHIZOPHYSALINA	HYDROZOA SIPHONOPHORA RHIZOPHYSALINA
37330401	NAUSITHOE	NAUSITHOE
3901	TURBELLARIA	TURBELLARIA
3900000102	HOPLOPLANA GRUBEI	HOPLOPLANA GRUBEI
3900070401	GNESIOCEROS FLORIDANA	GNESIOCEROS FLORIDANA
5001	POLYCHAETA	POLYCHAETA
50011004	LINOPHERUS	LINOPHERUS
500110	TYPHLOSCOLECIDAE	TYPHLOSCOLECIDAE
500120	TOMOPTERIDAE	TOMOPTERIDAE
500123	SYLLIDAE	SYLLIDAE
50012301	AUTOLYTUS	AUTOLYTUS
500124	NEREIDAE	NEREIDAE
50012405	PLATYNEREIS	PLATYNEREIS
50013001	EUNICE	EUNICE
5001430002	BOCCARDIA NATRIX	SPIRORBIS
5001500308	THARYX CF. ANNULOSUS	CENTROPAGES
500173	SERPULIDAE	SERPULIDAE
50019999	* TRAVISIOPSIS	TRAVISIOPSIS
5001999999	* TRAVISIOPSIS LEVINSERI	TRAVISIOPSIS LEVINSERI
51	GASTROPODA	GASTROPODA
5103	MESOGASTROPODA	MESOGASTROPODA
51037301	ATLANTA	ATLANTA
5109	PARASITA	PARASITA
51130101	LIMACINA	LIMACINA
51130201	CAVOLINA	CAVOLINA
51130202	CLIO	CLIO
51130203	CRESEIS	CRESEIS
51130204	DIACRIA	DIACRIA
5113029492	DIACRIA TRISPIONSA	DIACRIA TRISPIONSA
512508	CLIONIDAE	CLIONIDAE
51250801	CLIONE	CLIONE
5131070201	DORIDELLA OBSCURA	DORIDELLA OBSCURA
514203	AEOLIDIIDAE	AEOLIDIIDAE
5301	NEOLORICATA	NEOLORICATA
55	BIVALVIA	BIVALVIA
5509	PTERIINA	PTERIOIDA PTERIINA
5708	MYOPSIDA	THEUTHIDIDA MYOPSIDA
58020101	LIMULUS	LIMULUS
61	CRUSTACEA	ARTHROPODA MANDIBULATA CRUSTACEA
61090102	DIAPHANOSOMA	DIAPHANOSOMA
6109050101	EVADNE NORDMANNI	EVADNE NORDMANNI
6109050102	EVADNE TERGESTINA	EVADINE TERGESTINA
6110	OSTRACODA	OSTRACODA
6111	MYODOCOPA	OSTRACODA MYODOCOPA
611105	HALOCYPRIDIDAE	HALOCYPRIDIDAE
61110501	CONCHOECIA	CONCHAECIA
6117	COPEPODA	COPEPODA
6118	CALANOIDA	COPEPODA CALANOIDA
611801	CALANIDAE	CALANIDAE
6118010301	UNDINULA VULGARIS	UNDINULA VULGARIS
61180301	EUCALANUS	EUCALANUS
6118030109	EUCALANUS MUCRONATUS	EUCALANUS MUCRONATUS
61180302	RHINCALANUS	RHINCALANUS
611804	PARACALANIDAE	PARACALANIDAE
61180401	PARACALANUS	PARACALANUS
6118040101	PARACALANUS PARVUS	PARACALANUS PARVUS
6118040104	PARACALANUS QUASIMODO	PARACALANUS QUASIMODO
61180402	CALOCALANUS	CALOCALANUS
6118060303	SPINOCALANUS ANGUSTICEPS	SPINOCALANUS ANGUSTICEPS
6118060304	SPINOCALANUS ANTARCTICUS	SPINOCALANUS ANTARCTICUS
6118060307	SPINOCALANUS ELONGATUS	SPINOCALANUS ELONGATUS
6118060308	SPINOCALANUS HIRTUS	SPINOCALANUS HIRTUS
61180702	AETIDEUS	AETIDEUS

12 Y  
MAFLA Neuston  
Abundance

## MAFLA NEUSTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
61180501	EUCHAETA	EUCHAETA
6118090401	PHAENNA SPINIFERA	PHAENNA SPINIFERA
611810	SCOLECITHRICIDAE	SCOLECITHRICELLA SCOLECITHRICIDAE
61181005	SCOLECITHRICELLA	SCOLECITHRICELLA
61181006	SCOLECITHRIX	SCOLECITHRIX
61181003	PLEUROMAMMA	PLEUROMAMMA
611817	CENTROPAGIDAE	CENTROPAGIDAE
611820	TEMORIDAE	TEMORIDAE
61182002	EURYTEMORA	EURYTEMORA
61182003	TEMORA	TEMORA
611823	AUGAPTILIDAE	AUGAPTILIDAE
611826	CANDACIIDAE	CANDACIA CANDACIIDAE
61182601	CANDACIA	CANDACIA
611827	PONTELLIDAE	PONTELLIDAE
61182702	LABIDOCERA	LABIDOCERA
61182703	PONTELLA	PONTELLA
611827030199*	PONTELLA PENNATA CF. MEADII	PONTELLA PENNATA CF MEADI CF MEADII
61182704	PONTELLINA	PONTELLINA
61182705	ANOMALOCERA	ANOMALOCERA
61182706	CALANOPIA	CALANOPIA
61182708	PONTELLOPSIS	PONTELLOPSIS
61182901	ACARTIA	ACARTIA
6118300999 *	TORTANIDAE SP. A	TORTANIDAE GENUS A SP A
6119	HARPACTICOIDA	COPEPODA HARPACTICOIDA
611910	HARPACTICIDAE	HARPACTICIDAE
6120	CYCLOPOIDA	COPEPODA CYCLOPOIDA
61200101	CONAEA	CONAEA
6120010199 *	CONAEA SP. A	CONAEA SP A
61200102	LUBBOCKIA	LUBBOCKIA
61200103	ONCAEA	ONCAEA
61200301	PONTOECIELLA	PONTOECIELLA
61200401	CORYCAEUS	CORYCAEUS
61200402	FARRANULA	FARRANULA
6120040299 *	FARRANULA SP. A	FARRANULA SP A
61200602	SAPHIRELLA	SAPHIRELLA
61200901	OITHONA	OITHONA
61201001	SAPPHIRINA	SAPPHIRINA
6120100106	SAPPHIRINA OPALINA	SAPPHIRINA OPALINA
6126	LERNAEOPODOIDA	COPEPODA LERNEOPODIDEA
61340201	BALANUS	BALANUS
6153	MYSIDA	PERICARIDA MYSIDACEA MYSIDA
61530101	ACANTHOMYSIS	ACANTHOMYSIS
61540902	CYCLASPIS	CYCLASPIS
6161	FLABELLIFERA	PERACARIDA ISOPODA FLABELLIFERA
616101	CIROLANIDAE	CIROLANIDAE
61610102	EURYDICE	EURYDICE
6163060101	MICROPROCTUS CAECUS	MICROPROCTUS CAECUS
6166	AMPHIPODA	PERACARIDA AMPHIPODA
616922	HAUSTORIIDAE	HAUSTORIIDAE
61692207	AMPHIPOREA	AMPHIPOREA
6170	HYPERIIDAE	PERACIDA AMPHIPODA HYPERIIDAE
617001	HYPERIIDAE	HYPERIIDAE
61700301	PHRONIMA	PHRONIMA
61701005	TETRATHYRUS	TETRATHYRUS
617101	CAPRELLIDAE	CAPRELLIDAE
617102	CYAMIDAE	CYAMIDAE
617402	EUPHAUSIIDAE	EUPHAUSIIDAE
61740209	THYSANOESSA	THYSANOESSA
6175	DECAPODA	EUCARIDA DECAPODA PLED. BRACH. BRACHYRH
6175	DECAPODA	EUCARIDA DECAPODA PLED. BRACHYURA DROMI
6175	DECAPODA	EUCARIDA DECAPODA PLEOCYEMATA
617701	PENAEIDAE	PENAEIDAE
61770105	PARAPENAEUS	PARAPENAEUS
6177020101	ACETIS AMERICANUS	ACETIS AMERICANUS
61770202	LUCIFER	LUCIFER
617905	PASIPHAIDAE	PASIPHAIDAE
61790502	LEPTOCHELA	LEPTOCHELA
617914	ALPHEIDAE	ALPHEIDAE
61791403	AUTOMATE	AUTOMATE
617916	HIPPOLYTIDAE	HIPPOLYTIDAE
61791601	HIPPOLYTE	HIPPOLYTE
6183	ANOMURA	EUCARIDA DECAPODA PLEOCYEMATA ANOMURA
618301	THALASSINIDAE	THALASSINIDAE
618306	PAGURIDAE	PAGURIDAE
61830601	PAGURISTES	PAGURISTES



## MAFLA NEUSTON TAXA LIST

NODC CODE	NODC TAXONOMIC NAME	ORIGINAL TAXONOMIC NAME
618901	PORTUNIDAE	PORTUNIDAE
61890106	PORTUNUS	PORTUNUS
6191	STOMATOPODA	STOMATOPODA
619101	SQUILLIDAE	SQUILLIDAE
6191401	EUTERPINA	EUTERPINA
62	INSECTA	INSECTA IV
6231	ORTHOPTERA	ORTHOPTERA
6274019999 *	HALOBATES MINKANS	HALOBATES MINKANS
6505	CULICOIDEA	CULICOIDEA
77	PHORONIDA	PHORONIDA
78	ECTOPROCTA	ECTOPROCTA
8104	ASTEROIDEA	ASTEROIDEA
8110019999 *	SPHAERSTERIDAE SP. A	SPHAERSTERIDAE GENUS A SP A
83	CHAETOGNATHA	CHAETOGNATHA
83000003	SAGITTA	SAGITTA
8300000303	SAGITTA ELEGANS	SAGITTA ELEGANS
84	UROCHORDATA	UROCHORDATA
8401	ASCIDIACEA	ASCIDIACEA
8410	DOLIOLIDA	THALIACEA DOLIOLIDA
841001	DOLIOLIDAE	DOLIOLIDAE
8411	SALPIDA	SALPIDAE
84110102	IASIS	IASIS
84110103	SALPA	SALPA
8411010399 *	SALPA ASYMMETRICA	SALPA ASYMMETRICA
8413	COPELATA	LARVACEA COPELATA
87	GNATHOSTOMATA	GNATHOSTOMATA I
87	GNATHOSTOMATA	GNATHOSTOMATA II
8741130101	AHLIA EGMONTIS	AHLIA EGMANTIS
880301	EXOCOETIDAE	EXOCOETIDAE
88030101	CYPSELURUS	CYPSELURUS
883528	CARANGIDAE	CARANGIDAE
88352808	SERIOLA	SERIOLA
88352901	CORYPHAENA	CORYPHAENA
88600201	ALUTERUS	ALUTERUS
8860020799 *	MONACANTHUS SP. A	MONACANTHUS SP A
9901	* GASTROSACCHUS	GASTROSACCHUS
9902	* GASTROSACCHUS JOHNSONI	GASTROSACCHUS JOHNSONI
9903	* HIPPODEUS	HIPPODEUS
9904	* CORRUGATUS	CORRUGATUS

F124 TT5754-TT5852

Corrections 8600025

- ① File ID corrected to TT5754-TT5852
- ② Blank records removed from original data.
- ③ Record 'F' Biomass of Zooplankton  
Ø filler in field removed

Ask Mitch about  
missing files/tapes

HALMINSKI

634-  
7441DATE  
SUBMITTED  
3/27/86

FILE NO.

33

DIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

F124 SL COPY, RUN SCAN ON OUTPUT

212 SINGLE EOF ON TAPE

8600025

PUT MEDIUM

PAPER CARD DISK TAPE  
ISKETTE OTHER(SPECIFY)

OUTPUT MEDIUM

CARD DISK PRINT TAPE PLOT  
DISKETTE OTHER(SPECIFY)

PE/DISKETTE INFORMATION

	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# OF FILE
PUT	MAFLA1		9	1600		NL	FB	80	4800	1
	SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PURG DATE
	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			PURG DATE
TPUT	W10883		9	1600		SL	FB	80	4800	
	SECTOR SIZE	EXCHANGE TYPE	CODE: <u>ASCII</u> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME DNODC 8600025-01			PURG DATE
	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			PURG DATE

ECIAL INSTRUCTIONS

NEED W TAPE

ESTIMATED  
EXECUTION  
TIME

31 USE ONLY

B #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINT DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
130761	04/04/86	10:01	10:50	C	Completed by Andf

NAME <b>HALMINEKI</b>	PHONE # <b>634 - 7441</b>	CS/TASK #	DATE SUBMITTED <b>1/22/86</b>	DATE DUE	BIR <b>33</b>
--------------------------	------------------------------	-----------	----------------------------------	----------	------------------

EQUIPMENT TO BE USED AND FUNCTION TO BE PERFORMED

**F124**

**SCAN AND PRINT 3 PAGES OF RECORDS**

**8600025**

INPUT MEDIUM PAPER CARD DISK <b>TAPE</b> 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	# FI
INPUT	<b>MAFLA2</b>		<b>9</b>	<b>1600</b>		<b>NC</b>		<b>80</b>	<b>4800</b>	
	SECTOR SIZE	EXCHANGE TYPE	CODE: <b>ASCII</b> EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DA
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FI
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DA
OUTPUT	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FI
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DA
	TAPE #/ DISKETTE	SLOT #	TRK	DENSITY	PARITY	LABEL TYPE	RECORD TYPE	RECORD LENGTH	MAX. BLOCK SIZE	# FI
	SECTOR SIZE	EXCHANGE TYPE	CODE: ASCII EBCDIC BCD SDF OTHER(SPECIFY)				DATA SET NAME			PUR DA

SPECIAL INSTRUCTIONS

ESTIMATED  
EXECUTION  
TIME

D731 USE ONLY

JOB #	DATE JOB COMPLETED	START TIME	END TIME	PRIORITY	DEVICES USED, NUMBER OF TAPE MOUNTS, LINES PRINTED, DISKETTES USED, CARDS PUNCHED, CARDS KEYVERIFIED
<b>86012217</b>	<b>1/23/86</b> <b>CW</b>			<b>C</b>	<b>MTAB - input 1 mount</b>

COMMENTS

Quantus Plaza Tower, Suite 901  
800 Oak Ridge Turnpike  
Oak Ridge, Tennessee 37830  
(615) 482 - 9614

QUANTUS, INC.

8600025

January 15, 1986

Mr. Francis Mitchell  
NOAA/NODC E/OC13  
Room 410  
2001 Wisconsin Avenue, N.W.  
Washington, D.C. 20235

Dear Mitch:

Included with this letter please find one (1) 1600 bpi 9-track magnetic tape containing 212 files of zooplankton data in NODC format 124. These files represent the zooplankton data from the South Texas Outer Continental Shelf (STOCS) and Mississippi, Alabama, and Florida (MAFLA) studies. The tape is written in ASCII at 1600 bpi with 80 byte records and 4800 byte physical blocks. Tables 1 through 9 give a more detailed explanation of the contents of the tape.

If you have any questions or comments on the enclosed data, please contact me at (615) 482-9614.

Sincerely,  
QUANTUS, INC.

*Craig*

Craig C. Brandt

enclosures

cc: Dr. Murray Brown / MMS-Metalrie  
Mr. Terry Farmer / Quantus, Inc.

A00126

*Jan 21, 1986*

Table 1. Zooplankton Abundance Data from the STOCS Program.

Tape File	Identifier	Description	Record Count
T15754	1 124STOC01	✓STOCS, Cruise 1, 12/03/74 - 12/06/74	71432 LH
	2 124STOC02	✓STOCS, Cruise 2, 12/11/74 - 12/18/74	1143
	3 124STOC03	✓STOCS, Cruise 3, 01/09/75 - 01/09/75	134
	4 124STOC05	✓STOCS, Cruise 5, 01/21/75 - 01/26/75	745
	5 124STOC06	✓STOCS, Cruise 6, 02/25/75 - 02/27/75	113
	6 124STOC08	✓STOCS, Cruise 8, 04/16/75 - 04/18/75	308
	7 124STOC09	✓STOCS, Cruise 9, 04/29/75 - 05/02/75	680
	8 124STOC10	✓STOCS, Cruise 10, 05/06/75 - 05/07/75	664
	9 124STOC11	✓STOCS, Cruise 11, 05/13/75 - 05/17/75	1123
	10 124STOC12	✓STOCS, Cruise 12, 08/26/75 - 08/30/75	380
	11 124STOC13	✓STOCS, Cruise 13, 09/04/75 - 09/09/75	1392
	12 124STOC14	✓STOCS, Cruise 14, 09/11/75 - 09/13/75	604
	13 124STOA15	✓STOCS, Cruise 15, 09/11/75 - 09/13/75	316
	14 124STOC16	✓STOCS, Cruise 16, 01/13/76 - 01/16/76	121
	15 124STOC17	✓STOCS, Cruise 17, 01/30/76 - 02/04/76	1539
	16 124STOC23	✓STOCS, Cruise 23, 03/18/76 - 03/20/76	393
	17 124STOC25	✓STOCS, Cruise 24, 04/02/76 - 04/04/76	354
	18 124STOC27	✓STOCS, Cruise 27, 05/29/76 - 06/08/76	1573
	19 124STOC31	✓STOCS, Cruise 31, 07/10/76 - 07/12/76	350
	20 124STOC37	✓STOCS, Cruise 37, 08/27/76 - 08/29/76	382
	21 124STOC38	✓STOCS, Cruise 38, 09/10/76 - 09/16/76	1405
	22 124STOC45	✓STOCS, Cruise 45, 11/08/76 - 11/10/76	377
	23 124STOC47	✓STOCS, Cruise 47, 12/01/76 - 12/03/76	430
	24 124STOC51	✓STOCS, Cruise 51, 01/11/77 - 01/12/77	260
	25 124STOC53	✓STOCS, Cruise 53, 01/17/77 - 01/22/77	1154
	26 124STOC57	✓STOCS, Cruise 57, 02/21/77 - 02/22/77	293
	27 124STOC62	✓STOCS, Cruise 62, 03/14/77 - 03/15/77	366
	28 124STOC65	✓STOCS, Cruise 65, 04/20/77 - 04/21/77	402
	29 124STOC67	✓STOCS, Cruise 67, 05/15/77 - 05/21/77	1634
	30 124STOC72	✓STOCS, Cruise 72, 07/06/77 - 07/07/77	403
	31 124STOC75	✓STOCS, Cruise 75, 08/04/77 - 08/05/77	374
T15785	32 124STOC78	✓STOCS, Cruise 78, 09/06/77 - 09/12/77	1205

Table 1 (continued)

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
TT5786 <sup>33</sup>	124STOC85	✓ STOCs, Cruise 85, 11/05/77 - 11/06/77	338
TT5787 <sup>34</sup>	124STOC89	✓ STOCs, Cruise 89, 12/02/77 - 12/03/77	349

Table 2. Neuston Abundance Data from the STOCS Program.

<u>Tape File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record Count</u>
T5788	35	124STOC18 ✓STOCS, Cruise 18, 02/08/76 - 02/10/76	180
	36	124STOC19 ✓STOCS, Cruise 19, 02/12/76 - 02/17/76	198
	37	124STOC21 ✓STOCS, Cruise 21, 02/26/76 - 02/29/76	315
	38	124STOC22 ✓STOCS, Cruise 22, 03/09/76 - 03/12/76	243
	39	124STOC24 ✓STOCS, Cruise 24, 03/25/76 - 03/28/76	256
T5793	40	124STOC26 ✓STOCS, Cruise 26, 04/08/76 - 04/11/76	218
T5794	41	124STOC28 ✓STOCS, Cruise 28, 06/10/76 - 06/15/76	252
	42	124STOC29 ✓STOCS, Cruise 29, 06/18/76 - 06/22/76	255
	43	124STOC30 ✓STOCS, Cruise 30, 06/24/76 - 06/29/76	273
	44	124STOC32 ✓STOCS, Cruise 32, 07/16/76 - 07/19/76	200
	45	124STOC37 ✓STOCS, Cruise 37, 08/27/76 - 08/29/76	244
	46	124STOC39 ✓STOCS, Cruise 39, 09/19/76 - 09/23/76	436
	47	124STOC42 ✓STOCS, Cruise 42, 10/06/76 - 10/11/76	470
	48	124STOC46 ✓STOCS, Cruise 46, 11/15/76 - 11/18/76	233
	49	124STOC49 ✓STOCS, Cruise 49, 12/08/76 - 12/10/76	227
	50	124STOC51 ✓STOCS, Cruise 51, 01/11/77 - 01/12/77	172
	51	124STOC53 ✓STOCS, Cruise 53, 01/17/77 - 01/22/77	259
	52	124STOC57 ✓STOCS, Cruise 57, 02/21/77 - 02/22/77	156
	53	124STOC62 ✓STOCS, Cruise 62, 03/14/77 - 03/15/77	309
	54	124STOC65 ✓STOCS, Cruise 65, 04/20/77 - 04/21/77	330
	55	124STOC67 ✓STOCS, Cruise 67, 05/15/77 - 05/21/77	628
	56	124STOC72 ✓STOCS, Cruise 72, 07/06/77 - 07/07/77	250
	57	124STOC77 ✓STOCS, Cruise 77, 08/18/77 - 08/19/77	250
	58	124STOC78 ✓STOCS, Cruise 78, 09/06/77 - 09/12/77	573
	59	124STOC85 ✓STOCS, Cruise 85, 11/05/77 - 11/06/77	264
T5813	60	124STOC92 ✓STOCS, Cruise 92, 12/18/77 - 12/19/77	304



Table 3. Microzooplankton/Protozoa Abundance Data from the STOCS Program.

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
TI 5814	61	✓STOCS, Cruise 2, 12/11/74 - 12/18/74	53
	62	✓STOCS, Cruise 3, 01/09/75 - 01/09/75	21
	63	✓STOCS, Cruise 8, 04/16/75 - 04/18/75	47
	64	✓STOCS, Cruise 11, 05/13/75 - 05/17/75	32
	65	✓STOCS, Cruise 13, 09/04/75 - 09/09/75	73
	66	✓STOCS, Cruise 17, 01/30/76 - 02/04/76	47
	67	✓STOCS, Cruise 23, 03/18/76 - 03/20/76	68
	68	✓STOCS, Cruise 24, 04/02/76 - 04/04/76	65
	69	✓STOCS, Cruise 27, 05/29/76 - 06/08/76	57
TI 5823	70	✓STOCS, Cruise 31, 07/10/76 - 07/12/76	39
→	71	✓STOCS, Cruise 34, 08/04/76 - 08/07/76	38
	72	✓STOCS, Cruise 35, 08/09/76 - 08/11/76	12
	73	✓STOCS, Cruise 38, 09/10/76 - 09/16/76	28
	74	✓STOCS, Cruise 45, 11/08/76 - 11/10/76	19
	75	✓STOCS, Cruise 47, 12/01/76 - 12/03/76	8
	76	✓STOCS, Cruise 51, 01/11/77 - 01/12/77	60
	77	✓STOCS, Cruise 53, 01/17/77 - 01/22/77	248
	78	✓STOCS, Cruise 57, 02/21/77 - 02/22/77	89
	79	✓STOCS, Cruise 62, 03/14/77 - 03/15/77	93
	80	✓STOCS, Cruise 65, 04/20/77 - 04/21/77	214
	81	✓STOCS, Cruise 67, 05/15/77 - 05/21/77	519
	82	✓STOCS, Cruise 72, 07/06/77 - 07/07/77	86
	83	✓STOCS, Cruise 75, 08/04/77 - 08/05/77	133
	84	✓STOCS, Cruise 78, 09/06/77 - 09/12/77	404
	85	✓STOCS, Cruise 83, 10/20/77 - 10/21/77	75
	86	✓STOCS, Cruise 85, 11/05/77 - 11/06/77	197
	87	✓STOCS, Cruise 89, 12/02/77 - 12/03/77	185

Table 4. Microzooplankton Abundance Data (Niskin Samples) from the STOCs Program.

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
88	124STOA01	<del>1</del> STOCS, Cruise 1, 12/03/74 - 12/06/74	93
89	124STOA02	<del>1</del> STOCS, Cruise 2, 12/11/74 - 12/18/74	156
90	124STOA03	<del>1</del> STOCS, Cruise 3, 01/09/75 - 01/09/75	31
91	124STOA04	<del>1</del> STOCS, Cruise 4, 01/05/75 - 01/17/75	60
92	124STOA05	<del>1</del> STOCS, Cruise 5, 01/21/75 - 01/26/75	79
93	124STOA07	<del>1</del> STOCS, Cruise 7, 04/08/75 - 04/10/75	115
94	124STOA08	<del>1</del> STOCS, Cruise 8, 04/16/75 - 04/18/75	42
95	124STOA09	<del>1</del> STOCS, Cruise 9, 04/29/75 - 05/02/75	152
96	124STOA11	<del>1</del> STOCS, Cruise 11, 05/13/75 - 05/17/75	181
97	124STOA12	<del>1</del> STOCS, Cruise 12, 08/26/75 - 08/30/75	133
98	124STOA13	<del>1</del> STOCS, Cruise 13, 09/04/75 - 09/09/75	277
99	124STOA14	<del>1</del> STOCS, Cruise 14, 09/11/75 - 09/13/75	140
100	124STOA16	<del>1</del> STOCS, Cruise 16, 01/13/76 - 01/16/76	29
101	124STOA17	<del>1</del> STOCS, Cruise 17, 01/30/76 - 02/04/76	511
102	124STOA23	<del>1</del> STOCS, Cruise 23, 03/18/76 - 03/20/76	191
103	124STOA25	<del>1</del> STOCS, Cruise 25, 04/02/76 - 04/04/76	180
104	124STOA27	<del>1</del> STOCS, Cruise 27, 05/29/76 - 06/08/76	600
105	124STOA38	<del>1</del> STOCS, Cruise 38, 09/10/76 - 09/16/76	362
106	124STOA51	<del>1</del> STOCS, Cruise 51, 01/11/77 - 01/12/77	30
107	124STOA53	<del>1</del> STOCS, Cruise 53, 01/17/77 - 01/22/77	28
108	124STOA57	<del>1</del> STOCS, Cruise 57, 02/21/77 - 02/22/77	39
109	124STOA67	<del>1</del> STOCS, Cruise 67, 05/15/77 - 05/21/77	284
110	124STO072	<del>1</del> STOCS, Cruise 72, 07/06/77 - 07/07/77	109
111	124STO075	<del>1</del> STOCS, Cruise 75, 08/04/77 - 08/05/77	124
112	124STO078	<del>1</del> STOCS, Cruise 78, 09/06/77 - 09/12/77	435
113	124STO085	<del>1</del> STOCS, Cruise 85, 11/05/77 - 11/06/77	85
114	124STO089	<del>1</del> STOCS, Cruise 89, 12/02/77 - 12/03/77	124

Table 5. Microzooplankton Abundance Data (Nansen Samples) from the STOCS Program.

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
115	124STOB01	✓STOCS, Cruise 1, 12/03/74 - 12/06/74	69
116	124STOB02	✓STOCS, Cruise 2, 12/11/74 - 12/18/74	117
117	124STOB03	✓STOCS, Cruise 3, 01/09/75 - 01/09/75	12
118	124STOB05	✓STOCS, Cruise 5, 01/21/75 - 01/26/75	67
119	124STOB07	✓STOCS, Cruise 7, 04/08/75 - 04/10/75	36
120	124STOB08	✓STOCS, Cruise 8, 04/16/75 - 04/18/75	16
121	124STOB09	✓STOCS, Cruise 9, 04/29/75 - 05/02/75	57
122	124STOB11	✓STOCS, Cruise 11, 05/13/75 - 05/17/75	109
123	124STOB12	✓STOCS, Cruise 12, 08/26/75 - 08/30/75	60
124	124STOB13	✓STOCS, Cruise 13, 09/04/75 - 09/09/75	129
125	124STOB14	✓STOCS, Cruise 14, 09/11/75 - 09/13/75	51
126	124STOB16	✓STOCS, Cruise 16, 01/13/76 - 01/16/76	18
127	124STOB17	✓STOCS, Cruise 17, 01/30/76 - 02/04/76	209
128	124STOB23	✓STOCS, Cruise 23, 03/18/76 - 03/20/76	38
129	124STOB25	✓STOCS, Cruise 24, 04/02/76 - 04/04/76	41
130	124STOB27	✓STOCS, Cruise 27, 05/29/76 - 06/08/76	257
131	124STOB31	✓STOCS, Cruise 31, 07/10/76 - 07/12/76	57
132	124STOB34	✓STOCS, Cruise 34, 08/04/76 - 08/07/76	44
133	124STOB35	✓STOCS, Cruise 35, 08/09/76 - 08/11/76	21
134	124STOB38	✓STOCS, Cruise 38, 09/10/76 - 09/16/76	377
135	124STOB45	✓STOCS, Cruise 45, 11/08/76 - 11/10/76	49
136	124STOB47	✓STOCS, Cruise 47, 12/01/76 - 12/03/76	75
137	124STOB51	✓STOCS, Cruise 51, 01/11/77 - 01/12/77	38
138	124STOB53	✓STOCS, Cruise 53, 01/17/77 - 01/22/77	232
139	124STOB57	✓STOCS, Cruise 57, 02/21/77 - 02/22/77	63
140	124STOB67	✓STOCS, Cruise 67, 05/15/77 - 05/21/77	193
141	124STOB72	✓STOCS, Cruise 72, 07/06/77 - 07/07/77	51
142	124STOB75	✓STOCS, Cruise 75, 08/04/77 - 08/05/77	63
143	124STOB78	✓STOCS, Cruise 78, 09/06/77 - 09/12/77	319
144	124STOB85	✓STOCS, Cruise 85, 11/05/77 - 11/06/77	46
145	124STOB89	✓STOCS, Cruise 89, 12/02/77 - 12/03/77	47

Table 6. Zooplankton Biomass Data from the STOCS Program.

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
146	124STOC01	✓STOCS, Cruise 1, 12/03/74 - 12/06/74	37
147	124STOC02	✓STOCS, Cruise 2, 12/11/74 - 12/18/74	61
148	124STOC03	✓STOCS, Cruise 3, 01/09/75 - 01/09/75	7
149	124STOC05	✓STOCS, Cruise 5, 01/21/75 - 01/26/75	37
150	124STOC06	✓STOCS, Cruise 6, 02/25/75 - 02/27/75	7
151	124STOC08	✓STOCS, Cruise 8, 04/16/75 - 04/18/75	25
152	124STOC09	✓STOCS, Cruise 9, 04/29/75 - 05/02/75	37
153	124STOC10	✓STOCS, Cruise 10, 05/06/75 - 05/07/75	37
154	124STOC11	✓STOCS, Cruise 11, 05/13/75 - 05/17/75	49
155	124STOC12	✓STOCS, Cruise 12, 08/26/75 - 08/30/75	25
156	124STOC13	✓STOCS, Cruise 13, 09/04/75 - 09/09/75	73
157	124STOC14	✓STOCS, Cruise 14, 09/11/75 - 09/13/75	37
158	124STOC15	✓STOCS, Cruise 15, 09/11/75 - 09/13/75	13
159	124STOC16	✓STOCS, Cruise 16, 01/13/76 - 01/16/76	7
160	124STOC17	✓STOCS, Cruise 17, 01/30/76 - 02/04/76	67
161	124STOC23	✓STOCS, Cruise 23, 03/18/76 - 03/20/76	19
162	124STOC25	✓STOCS, Cruise 24, 04/02/76 - 04/04/76	19
163	124STOC27	✓STOCS, Cruise 27, 05/29/76 - 06/08/76	73
164	124STOC31	✓STOCS, Cruise 31, 07/10/76 - 07/12/76	19
165	124STOC37	✓STOCS, Cruise 37, 08/27/76 - 08/29/76	19
166	124STOC38	✓STOCS, Cruise 38, 09/10/76 - 09/16/76	73
167	124STOC45	✓STOCS, Cruise 45, 11/08/76 - 11/10/76	19
168	124STOC47	✓STOCS, Cruise 47, 12/01/76 - 12/03/76	19
169	124STOC51	✓STOCS, Cruise 51, 01/11/77 - 01/12/77	13
170	124STOC53	✓STOCS, Cruise 53, 01/17/77 - 01/22/77	49
171	124STOC57	✓STOCS, Cruise 57, 02/21/77 - 02/22/77	13
172	124STOC62	✓STOCS, Cruise 62, 03/14/77 - 03/15/77	19
173	124STOC65	✓STOCS, Cruise 65, 04/20/77 - 04/21/77	19
174	124STOC67	✓STOCS, Cruise 67, 05/15/77 - 05/21/77	73
175	124STOC72	✓STOCS, Cruise 72, 07/06/77 - 07/07/77	19
176	124STOC75	✓STOCS, Cruise 75, 08/04/77 - 08/05/77	19
177	124STOC78	✓STOCS, Cruise 78, 09/06/77 - 09/12/77	73

Table 6 (continued).

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
178	124STOC85	✓STOCS, Cruise 85, 11/05/77 - 11/06/77	19
179	124STOC89	✓STOCS, Cruise 89, 12/02/77 - 12/03/77	19

Table 7. Neuston Biomass Data from the STOCS Program.

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
180	124STOC18	✓STOCS, Cruise 18, 02/08/76 - 02/10/76	13
181	124STOC19	✓STOCS, Cruise 19, 02/12/76 - 02/17/76	16
182	124STOC21	✓STOCS, Cruise 21, 02/26/76 - 02/29/76	31
183	124STOC22	✓STOCS, Cruise 22, 03/09/76 - 03/12/76	16
184	124STOC24	✓STOCS, Cruise 24, 03/25/76 - 03/28/76	19
185	124STOC26	✓STOCS, Cruise 26, 04/08/76 - 04/11/76	19
186	124STOC28	✓STOCS, Cruise 28, 06/10/76 - 06/15/76	25
187	124STOC29	✓STOCS, Cruise 29, 06/18/76 - 06/22/76	25
188	124STOC30	✓STOCS, Cruise 30, 06/24/76 - 06/29/76	25
189	124STOC32	✓STOCS, Cruise 32, 07/16/76 - 07/19/76	19
190	124STOC37	✓STOCS, Cruise 37, 08/27/76 - 08/29/76	19
191	124STOC39	✓STOCS, Cruise 39, 09/19/76 - 09/23/76	37
192	124STOC42	✓STOCS, Cruise 42, 10/06/76 - 10/11/76	37
193	124STOC46	✓STOCS, Cruise 46, 11/15/76 - 11/18/76	19
194	124STOC49	✓STOCS, Cruise 49, 12/08/76 - 12/10/76	19
195	124STOC51	✓STOCS, Cruise 51, 01/11/77 - 01/12/77	13
196	124STOC53	✓STOCS, Cruise 53, 01/17/77 - 01/22/77	25
197	124STOC57	✓STOCS, Cruise 57, 02/21/77 - 02/22/77	10
198	124STOC62	✓STOCS, Cruise 62, 03/14/77 - 03/15/77	19
199	124STOC65	✓STOCS, Cruise 65, 04/20/77 - 04/21/77	19
200	124STOC67	✓STOCS, Cruise 67, 05/15/77 - 05/21/77	46
201	124STOC72	✓STOCS, Cruise 72, 07/06/77 - 07/07/77	19
202	124STOC77	✓STOCS, Cruise 77, 08/18/77 - 08/19/77	19
203	124STOC78	✓STOCS, Cruise 78, 09/06/77 - 09/12/77	46
204	124STOC85	✓STOCS, Cruise 85, 11/05/77 - 11/06/77	19
205	124STOC92	✓STOCS, Cruise 92, 12/18/77 - 12/19/77	19

Table 8. Zooplankton Abundance Data from the MAFLA Program.

<u>Tape File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record Count</u>
206	124MAF042	✓MAFLA, Cruise 42, 07/22/76 - 07/28/76	133
207	124MAFDM3	✓MAFLA, Cruise DM3, 01/31/78 - 02/20/78	124

Table 9. Neuston Abundance Data from the MAFLA Program.

<u>Tape</u> <u>File</u>	<u>Identifier</u>	<u>Description</u>	<u>Record</u> <u>Count</u>
208	124MAF038	✓MAFLA, Cruise 38, 06/10/76 - 06/17/76	469
209	124MAF041	✓MAFLA, Cruise 41, 07/07/76 - 07/16/76	370
210	124MAF042	✓MAFLA, Cruise 42, 07/22/76 - 07/28/76	792
211	124MAF043	✓MAFLA, Cruise 43, 08/01/76 - 08/08/76	491
212	124MAFDM3	✓MAFLA, Cruise DM3, 01/31/78 - 02/20/78.	2176



DATA ENTRY INFORMATION SYSTEM  
(SUBMISSIONS)

ENTRY: 01/21/86 ACCESSION NUMBER: 0600025  
RECEIPT: 01/21/86 FORMER ACCESSION NUMBER: \_\_\_\_\_ (RESUBS ONLY)

LETTER'S NAME: MR. CRAIG C. BRANDT (FIRST M.I. LAST)  
LETTER'S ADDRESS: QUANTUS, INC.  
ADDRESS: 800 OAK RIDGE TPK  
CITY: OAK RIDGE STATE: TN ZIP: 37830  
COUNTRY: \_\_\_\_\_

SENDER CODE: NONE SUBMISSION PRIORITY: NORMAL  
L.O. AREA: \_\_\_\_\_

CONTENTS OF SUBMISSION

STATION? ORIG MAGNETIC TAPE(S)? DIGI DISKETTE(S)? no  
HART(S)? no LOG SHEET(S)? no MAP(S)/CHART(S)? no  
TION(S)? no MICROFORM(S)? no CASSETTE(S) no Press  
PgDn to  
continue

TION: ONE TAPE (212 FILES) OF STDCS/MAFLA ZOOPLANKTON DATA (F124)  
(to be entered on Submitter acknowledgement letter)

SUBMISSION MANAGER (3 INITIALS): FJM

TRANSFERRED TO SUBMISSION MANAGER : 01/21/86

SUBMITTER ACKNOWLEDGEMENT DATE: / /

SUBMISSION ON "HOLD" STATUS

/ / WHY: \_\_\_\_\_ WHO'S RESPONSIBLE: \_\_\_\_\_ RESTART DATE: / /  
IN: \_\_\_\_\_  
/ / WHY: \_\_\_\_\_ WHO'S RESPONSIBLE: \_\_\_\_\_ RESTART DATE: / /  
IN: \_\_\_\_\_  
ER CONTACTED ON: / /

SUBMISSION CANCELLED

/ / DISPOSITION: \_\_\_\_\_

A00126

ACCESSION NO. 8600025FILETYPE F124TT5745-  
TRACK NO. TT5965PROJECT  
IDENTIFICATION 83A 70  
OCS - SOUTH TEXAS  
MAFLA

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	RECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	1/22/86	K	MAFLA1 - A00126	1	80	4800	57
DUPLICATE TAPE	4/7/86	K	W10883	1	80	4800	53
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
PD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
117 51021	22	75 10 21	0001	17	27 50 00 N	84 31 00 W
118 51021	22	75 10 21	0001	18	27 50 00 N	84 31 00 W
268 71028	DM2	77 10 28	0002	68	27 49 58 N	84 41 56 W
317 51020	22	75 10 20	0003	17	28 26 42 N	84 56 00 W
318 51020	22	75 10 20	0003	18	28 26 42 N	84 56 00 W
368 71029	DM2	77 10 29	0003	68	28 29 49 N	84 56 51 W
517 50725	15	75 07 25	0005	17	28 29 00 N	86 21 00 W
517 60226	33	76 02 26	0005	17	28 29 30 N	84 19 30 W
518 50725	15	75 07 25	0005	18	28 29 00 N	86 21 00 W
518 60226	33	76 02 26	0005	18	28 29 30 N	84 19 30 W
568 71028	DM2	77 10 28	0005	68	28 28 51 N	84 20 38 W
569 71028	DM2	77 10 28	0005	69	28 28 51 N	84 20 38 W
570 71028	DM2	77 10 28	0005	70	28 28 51 N	84 20 38 W
571 71028	DM2	77 10 28	0005	71	28 28 51 N	84 20 38 W
572 71028	DM2	77 10 28	0005	72	28 28 51 N	84 20 38 W
617 50725	15	75 07 26	0006	17	29 04 00 N	85 14 00 W
617 60226	33	76 02 26	0006	17	29 04 00 N	85 14 00 W
618 50725	15	75 07 26	0006	18	29 04 00 N	85 14 00 W
618 60226	33	76 02 26	0006	18	29 04 00 N	85 14 00 W
717 51019	22	75 10 19	0007	17	29 39 30 N	86 18 00 W
817 51018	22	75 10 18	0008	17	29 31 36 N	87 23 24 W
818 51018	22	75 10 18	0008	18	29 31 36 N	87 23 24 W
1017 50723	15	75 07 23	0010	17	27 50 00 N	83 31 00 W
1017 60228	33	76 02 27	0010	17	27 49 00 N	83 33 00 W
1018 50723	15	75 07 23	0010	18	27 50 00 N	83 31 00 W
1018 60228	33	76 02 27	0010	18	27 49 00 N	83 33 00 W
000100 50727	15	75 07 27	0001	00	27 50 00 N	84 31 00 W
000100 51021	22	75 10 21	0001	00	27 50 00 N	84 31 00 W
000100 60227	33	76 02 27	0001	00	27 51 30 N	84 31 00 W
000117 50601	15	75 07 27	0001	17	27 50 00 N	84 31 00 W
000117 50727	15	75 07 27	0001	17	27 50 00 N	84 31 00 W
000117 51001	22	75 10 21	0001	17	27 50 00 N	84 31 00 W
000117 51021	22	75 10 21	0001	17	27 50 00 N	84 31 00 W
000117 60201	33	76 02 27	0001	17	27 51 30 N	84 31 00 W
000117 60227	33	76 02 27	0001	17	27 51 30 N	84 31 00 W
000117 60718	46	76 07 18	0001	17	27 49 46 N	84 31 00 W
000117 70824	DM1	77 08 24	0001	17	27 36 50 N	84 31 57 W
000117 71027	DM2	77 10 27	0001	17	27 49 59 N	84 31 00 W
000117 71029	DM2	77 10 27	0001	17	27 49 59 N	84 31 00 W
000117 80205	DM4	78 02 05	0001	17	27 49 57 N	84 31 00 W
000118 51021	22	75 10 21	0001	18	27 50 00 N	84 31 00 W
000118 60227	33	76 02 27	0001	18	27 51 30 N	84 31 00 W
000118 60718	46	76 07 18	0001	18	27 49 46 N	84 31 00 W
000118 70823	DM1	77 08 24	0001	18	27 36 50 N	84 31 57 W
000118 70824	DM1	77 08 24	0001	18	27 36 50 N	84 31 57 W
000118 71023	DM2	77 10 27	0001	18	27 49 59 N	84 31 00 W
000118 71027	DM2	77 10 27	0001	18	27 49 59 N	84 31 00 W
000118 80205	DM4	78 02 05	0001	18	27 49 57 N	84 31 00 W
000119 60718	46	76 07 18	0001	19	27 49 46 N	84 31 00 W
000119 70824	DM1	77 08 24	0001	19	27 36 50 N	84 31 57 W
000119 71022	DM2	77 10 27	0001	19	27 49 59 N	84 31 00 W
000119 71023	DM2	77 10 27	0001	19	27 49 59 N	84 31 00 W
000119 71027	DM2	77 10 27	0001	19	27 49 59 N	84 31 00 W
000119 80205	DM4	78 02 05	0001	19	27 49 57 N	84 31 00 W
000130 70824	DM1	77 08 24	0001	30	27 36 50 N	84 31 57 W
000150 70824	DM1	77 08 24	0001	50	27 36 50 N	84 31 57 W
000150 71027	DM2	77 10 27	0001	50	27 49 59 N	84 31 00 W
000150 80205	DM4	78 02 05	0001	50	27 49 57 N	84 31 00 W
000200 51021	22	75 10 21	0002	00	27 49 36 N	84 42 00 W
000200 60227	33	76 02 27	0002	00	27 50 00 N	84 42 00 W
000217 50601	15	75 07 27	0002	17	27 50 00 N	84 42 00 W
000217 50727	15	75 07 27	0002	17	27 50 00 N	84 42 00 W
000217 51001	22	75 10 21	0002	17	27 49 36 N	84 42 00 W
000217 51021	22	75 10 21	0002	17	27 49 36 N	84 42 00 W
000217 60201	33	76 02 27	0002	17	27 50 00 N	84 42 00 W
000217 60227	33	76 02 27	0002	17	27 50 00 N	84 42 00 W
000217 60718	46	76 07 18	0002	17	27 49 34 N	84 42 03 W
000217 70824	DM1	77 08 25	0002	17	27 49 24 N	84 41 12 W
000217 70825	DM1	77 08 25	0002	17	27 49 24 N	84 41 12 W
000217 70830	DM1	77 08 25	0002	17	27 49 24 N	84 41 12 W
000217 71027	DM2	77 10 28	0002	17	27 49 58 N	84 41 56 W
000217 71028	DM2	77 10 28	0002	17	27 49 58 N	84 41 56 W
000217 80205	DM4	78 02 05	0002	17	27 49 57 N	84 41 56 W
000218 60227	33	76 02 27	0002	18	27 50 00 N	84 42 00 W
000218 60718	46	76 07 18	0002	18	27 49 34 N	84 42 03 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
000218	70821	DM1	77 08 24	0002	18	27 49 24 N	84 41 12 W
000218	70824	DM1	77 08 24	0002	18	27 49 24 N	84 41 12 W
000218	71027	DM2	77 10 28	0002	18	27 49 58 N	84 41 56 W
000218	71028	DM2	77 10 28	0002	18	27 49 58 N	84 41 56 W
000218	80205	DM4	78 02 05	0002	18	27 49 57 N	84 41 56 W
000219	60718	46	76 07 18	0002	19	27 49 34 N	84 42 03 W
000219	70824	DM1	77 08 24	0002	19	27 49 24 N	84 41 12 W
000219	70825	DM1	77 08 24	0002	19	27 49 24 N	84 41 12 W
000219	71028	DM2	77 10 28	0002	19	27 49 58 N	84 41 56 W
000230	60718	46	76 07 18	0002	30	27 49 34 N	84 42 03 W
000230	70824	DM1	77 08 24	0002	30	27 49 24 N	84 41 12 W
000230	80205	DM4	78 02 05	0002	30	27 49 57 N	84 41 56 W
000230	80207	DM4	78 02 05	0002	30	27 49 57 N	84 41 56 W
000231	60718	46	76 07 18	0002	31	27 49 34 N	84 42 03 W
000231	70823	DM1	77 08 24	0002	31	27 49 24 N	84 41 12 W
000231	70824	DM1	77 08 24	0002	31	27 49 24 N	84 41 12 W
000250	70824	DM1	77 08 24	0002	50	27 49 24 N	84 41 12 W
000250	71027	DM2	77 10 28	0002	50	27 49 58 N	84 41 56 W
000250	80205	DM4	78 02 05	0002	50	27 49 57 N	84 41 56 W
000300	51020	22	75 10 20	0003	00	28 26 42 N	84 56 00 W
000300	60227	33	76 02 27	0003	00	28 26 00 N	84 56 00 W
000317	50601	15	75 07 26	0003	17	28 26 00 N	84 56 00 W
000317	50726	15	75 07 26	0003	17	28 26 00 N	84 56 00 W
000317	51001	22	75 10 20	0003	17	28 26 42 N	84 56 00 W
000317	51020	22	75 10 20	0003	17	28 26 42 N	84 56 00 W
000317	60201	33	76 02 27	0003	17	28 26 00 N	84 56 00 W
000317	60227	33	76 02 27	0003	17	28 26 00 N	84 56 00 W
000317	60712	44	76 07 13	0003	17	28 26 13 N	84 55 03 W
000317	60713	44	76 07 13	0003	17	28 26 13 N	84 55 03 W
000317	70825	DM1	77 08 27	0003	17	28 26 15 N	84 55 29 W
000317	70827	DM1	77 08 27	0003	17	28 26 15 N	84 55 29 W
000317	71029	DM2	77 10 29	0003	17	28 29 49 N	84 56 51 W
000317	80206	DM4	78 02 06	0003	17	28 25 52 N	84 55 58 W
000318	50726	15	75 07 26	0003	18	28 26 00 N	84 56 00 W
000318	51020	22	75 10 20	0003	18	28 26 42 N	84 56 00 W
000318	60227	33	76 02 27	0003	18	28 26 00 N	84 56 00 W
000318	60712	44	76 07 13	0003	18	28 26 13 N	84 55 03 W
000318	60713	44	76 07 13	0003	18	28 26 13 N	84 55 03 W
000318	60716	44	76 07 13	0003	18	28 26 13 N	84 55 03 W
000318	70822	DM1	77 08 27	0003	18	28 26 15 N	84 55 29 W
000318	70824	DM1	77 08 27	0003	18	28 26 15 N	84 55 29 W
000318	70827	DM1	77 08 27	0003	18	28 26 15 N	84 55 29 W
000318	71027	DM2	77 10 29	0003	18	28 29 49 N	84 56 51 W
000318	71029	DM2	77 10 29	0003	18	28 29 49 N	84 56 51 W
000318	80204	DM4	78 02 06	0003	18	28 25 52 N	84 55 58 W
000318	80206	DM4	78 02 06	0003	18	28 25 52 N	84 55 58 W
000319	60712	44	76 07 13	0003	19	28 26 13 N	84 55 03 W
000319	60713	44	76 07 13	0003	19	28 26 13 N	84 55 03 W
000319	70822	DM1	77 08 27	0003	19	28 26 15 N	84 55 29 W
000319	70827	DM1	77 08 27	0003	19	28 26 15 N	84 55 29 W
000319	71029	DM2	77 10 29	0003	19	28 29 49 N	84 56 51 W
000319	80206	DM4	78 02 06	0003	19	28 25 52 N	84 55 58 W
000330	60712	44	76 07 13	0003	30	28 26 13 N	84 55 03 W
000331	80206	DM4	78 02 06	0003	31	28 25 52 N	84 55 58 W
000332	80206	DM4	78 02 06	0003	32	28 25 52 N	84 55 58 W
000333	80206	DM4	78 02 06	0003	33	28 25 52 N	84 55 58 W
000340	60713	44	76 07 13	0003	40	28 26 13 N	84 55 03 W
000350	70827	DM1	77 08 27	0003	50	28 26 15 N	84 55 29 W
000350	71029	DM2	77 10 29	0003	50	28 29 49 N	84 56 51 W
000350	80206	DM4	78 02 06	0003	50	28 25 52 N	84 55 58 W
000400	51022	22	75 10 22	0004	00	26 25 54 N	84 19 48 W
000400	60228	33	76 02 28	0004	00	26 25 00 N	84 20 00 W
000417	50601	15	75 07 27	0004	17	26 25 00 N	84 20 00 W
000417	50727	15	75 07 27	0004	17	26 25 00 N	84 20 00 W
000417	51001	22	75 10 22	0004	17	26 25 54 N	84 19 48 W
000417	51022	22	75 10 22	0004	17	26 25 54 N	84 19 48 W
000417	60201	33	76 02 28	2105	17	26 24 00 N	83 50 00 W
000417	60228	33	76 02 28	0004	17	26 25 00 N	84 20 00 W
000417	60716	46	76 07 16	0004	17	26 24 41 N	84 19 50 W
000417	71025	DM2	77 10 25	0004	17	26 24 54 N	84 19 57 W
000417	80203	DM4	78 02 03	0004	17	26 24 36 N	84 19 30 W
000417	80205	DM4	78 02 03	0004	17	26 24 36 N	84 19 30 W
000418	51022	22	75 10 22	0004	18	26 25 54 N	84 19 48 W
000418	60228	33	76 02 28	0004	18	26 25 00 N	84 20 00 W
000418	60706	46	76 07 16	0004	18	26 24 41 N	84 19 50 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
000418	60716	46	76 07 16	0004	18	26 24 41 N	84 19 50 W
000418	71025	DM2	77 10 25	0004	18	26 24 54 N	84 19 57 W
000418	80203	DM4	78 02 03	0004	18	26 24 36 N	84 19 30 W
000419	60716	46	76 07 16	0004	19	26 24 41 N	84 19 50 W
000419	71025	DM2	77 10 25	0004	19	26 24 54 N	84 19 57 W
000430	60716	46	76 07 16	0004	30	26 24 41 N	84 19 50 W
000430	80203	DM4	78 02 03	0004	30	26 24 36 N	84 19 30 W
000431	60716	46	76 07 16	0004	31	26 24 41 N	84 19 50 W
000450	71025	DM2	77 10 25	0004	50	26 24 54 N	84 19 57 W
000450	80203	DM4	78 02 03	0004	50	26 24 36 N	84 19 30 W
000500	50725	15	75 07 25	0005	00	28 29 00 N	86 21 00 W
000500	50731	17	75 07 31	0005	00	28 29 00 N	84 20 00 W
000500	50919	21	75 09 18	0005	00	28 29 00 N	84 21 00 W
000500	51021	22	75 10 21	0005	00	28 27 30 N	84 20 30 W
000500	60226	33	76 02 26	0005	00	28 29 30 N	84 19 30 W
000501	50731	17	75 07 31	0005	01	28 29 00 N	84 20 00 W
000501	50919	21	75 09 18	0005	01	28 29 00 N	84 21 00 W
000501	60203	29	76 02 03	0005	01	28 29 00 N	84 21 00 W
000502	50731	17	75 07 31	0005	02	28 29 00 N	84 20 00 W
000502	50919	21	75 09 18	0005	02	28 29 00 N	84 21 00 W
000502	60203	29	76 02 03	0005	02	28 29 00 N	84 21 00 W
000503	50731	17	75 07 31	0005	03	28 29 00 N	84 20 00 W
000503	50919	21	75 09 18	0005	03	28 29 00 N	84 21 00 W
000503	60203	29	76 02 03	0005	03	28 29 00 N	84 21 00 W
000504	50731	17	75 07 31	0005	04	28 29 00 N	84 20 00 W
000504	50919	21	75 09 18	0005	04	28 29 00 N	84 21 00 W
000504	60203	29	76 02 03	0005	04	28 29 00 N	84 21 00 W
000505	50731	17	75 07 31	0005	05	28 29 00 N	84 20 00 W
000505	50919	21	75 09 18	0005	05	28 29 00 N	84 21 00 W
000505	60203	29	76 02 03	0005	05	28 29 00 N	84 21 00 W
000506	50731	17	75 07 31	0005	06	28 29 00 N	84 20 00 W
000506	50919	21	75 09 18	0005	06	28 29 00 N	84 21 00 W
000506	60203	29	76 02 03	0005	06	28 29 00 N	84 21 00 W
000507	50731	17	75 07 31	0005	07	28 29 00 N	84 20 00 W
000507	50919	21	75 09 18	0005	07	28 29 00 N	84 21 00 W
000507	60203	29	76 02 03	0005	07	28 29 00 N	84 21 00 W
000508	50731	17	75 07 31	0005	08	28 29 00 N	84 20 00 W
000508	50919	21	75 09 18	0005	08	28 29 00 N	84 21 00 W
000508	60203	29	76 02 03	0005	08	28 29 00 N	84 21 00 W
000509	50731	17	75 07 31	0005	09	28 29 00 N	84 20 00 W
000509	50919	21	75 09 18	0005	09	28 29 00 N	84 21 00 W
000509	60203	29	76 02 03	0005	09	28 29 00 N	84 21 00 W
000511	50731	17	75 07 31	0005	11	28 29 00 N	84 20 00 W
000511	50919	21	75 09 18	0005	11	28 29 00 N	84 21 00 W
000511	60203	29	76 02 03	0005	11	28 29 00 N	84 21 00 W
000517	50601	15	75 07 25	0005	17	28 29 00 N	86 21 00 W
000517	50725	15	75 07 25	0005	17	28 29 00 N	86 21 00 W
000517	51001	22	75 10 21	0005	17	28 27 30 N	84 20 30 W
000517	51021	22	75 10 21	0005	17	28 27 30 N	84 20 30 W
000517	60201	33	76 02 26	0005	17	28 29 30 N	84 19 30 W
000517	60226	33	76 02 26	0005	17	28 29 30 N	84 19 30 W
000517	60713	44	76 07 13	0005	17	28 29 42 N	84 20 29 W
000517	71029	DM2	77 10 28	0005	17	28 28 51 N	84 20 38 W
000517	80205	DM4	78 02 05	0005	17	28 29 46 N	84 20 50 W
000518	50725	15	75 07 25	0005	18	28 29 00 N	86 21 00 W
000518	51021	22	75 10 21	0005	18	28 27 30 N	84 20 30 W
000518	60226	33	76 02 26	0005	18	28 29 30 N	84 19 30 W
000518	60713	44	76 07 13	0005	18	28 29 42 N	84 20 29 W
000518	71027	DM2	77 10 28	0005	18	28 28 51 N	84 20 38 W
000518	71029	DM2	77 10 28	0005	18	28 28 51 N	84 20 38 W
000518	80205	DM4	78 02 05	0005	18	28 29 46 N	84 20 50 W
000519	60713	44	76 07 13	0005	19	28 29 42 N	84 20 29 W
000519	71023	DM2	77 10 28	0005	19	28 28 51 N	84 20 38 W
000519	71029	DM2	77 10 28	0005	19	28 28 51 N	84 20 38 W
000519	80205	DM4	78 02 05	0005	19	28 29 46 N	84 20 50 W
000530	60713	44	76 07 13	0005	30	28 29 42 N	84 20 29 W
000540	60713	44	76 07 13	0005	40	28 29 42 N	84 20 29 W
000540	80201	DM4	78 02 05	0002	40	27 49 57 N	84 41 56 W
000541	60713	44	76 07 13	0005	41	28 29 42 N	84 20 29 W
000550	71028	DM2	77 10 28	0005	50	28 28 51 N	84 20 38 W
000550	80205	DM4	78 02 05	0005	50	28 29 46 N	84 20 50 W
000551	71028	DM2	77 10 28	0005	51	28 28 51 N	84 20 38 W
000552	71028	DM2	77 10 28	0005	52	28 28 51 N	84 20 38 W
000553	71028	DM2	77 10 28	0005	53	28 28 51 N	84 20 38 W
000554	71028	DM2	77 10 28	0005	54	28 28 51 N	84 20 38 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
000555	71028	DM2	77 10 28	0005 55	28 28 51 N	84 20 38 W
000556	71028	DM2	77 10 28	0005 56	28 28 51 N	84 20 38 W
000557	71028	DM2	77 10 28	0005 57	28 28 51 N	84 20 38 W
000558	71028	DM2	77 10 28	0005 58	28 28 51 N	84 20 38 W
000559	71028	DM2	77 10 28	0005 59	28 28 51 N	84 20 38 W
000559	71029	DM2	77 10 28	0005 59	28 28 51 N	84 20 38 W
000560	71029	DM2	77 10 28	0005 60	28 28 51 N	84 20 38 W
000573	71028	DM2	77 10 28	0005 73	28 28 51 N	84 20 38 W
000574	71028	DM2	77 10 28	0005 74	28 28 51 N	84 20 38 W
000575	71028	DM2	77 10 28	0005 75	28 28 51 N	84 20 38 W
000576	71028	DM2	77 10 28	0005 76	28 28 51 N	84 20 38 W
000577	71028	DM2	77 10 28	0005 77	28 28 51 N	84 20 38 W
000600	50725	15	75 07 26	0006 00	29 04 00 N	85 14 00 W
000600	51020	22	75 10 20	0006 00	29 04 00 N	85 14 00 W
000600	60226	33	76 02 26	0006 00	29 04 00 N	85 14 00 W
000617	50601	15	75 07 26	0006 17	29 04 00 N	85 14 00 W
000617	50725	15	75 07 26	0006 17	29 04 00 N	85 14 00 W
000617	51001	22	75 10 20	0006 17	29 04 00 N	85 14 00 W
000617	51020	22	75 10 20	0006 17	29 04 00 N	85 14 00 W
000617	60201	33	76 02 26	0006 17	29 04 00 N	85 14 00 W
000617	60226	33	76 02 26	0006 17	29 04 00 N	85 14 00 W
000617	60712	44	76 07 12	0006 17	29 08 47 N	85 13 23 W
000618	50725	15	75 07 26	0006 18	29 04 00 N	85 14 00 W
000618	51020	22	75 10 20	0006 18	29 04 00 N	85 14 00 W
000618	60226	33	76 02 26	0006 18	29 04 00 N	85 14 00 W
000618	60612	44	76 07 12	0006 18	29 08 47 N	85 13 23 W
000618	60624	44	76 07 12	0006 18	29 08 47 N	85 13 23 W
000618	60626	44	76 07 12	0006 18	29 08 47 N	85 13 23 W
000618	60712	44	76 07 12	0006 18	29 08 47 N	85 13 23 W
000618	60812	44	76 07 12	0006 18	29 08 47 N	85 13 23 W
000619	60712	44	76 07 12	0006 19	29 08 47 N	85 13 23 W
000630	60712	44	76 07 12	0006 30	29 08 47 N	85 13 23 W
000631	60712	44	76 07 12	0006 31	29 08 47 N	85 13 23 W
000640	60712	44	76 07 12	0006 40	29 08 47 N	85 13 23 W
000700	50720	13	75 07 20	0007 00	29 30 00 N	86 18 00 W
000700	51019	22	75 10 19	0007 00	29 39 30 N	86 18 00 W
000700	60208	30	76 02 08	0007 00	29 39 30 N	86 17 30 W
000701	50605	10	75 06 05	0007 01	29 39 58 N	86 17 00 W
000701	50926	21	75 09 26	0007 01	29 40 00 N	86 17 00 W
000701	60707	39	76 07 07	0007 01	29 39 57 N	86 16 57 W
000702	50605	10	75 06 05	0007 02	29 39 58 N	86 17 00 W
000702	50926	21	75 09 26	0007 02	29 40 00 N	86 17 00 W
000702	60707	39	76 07 07	0007 02	29 39 57 N	86 16 57 W
000703	50605	10	75 06 05	0007 03	29 39 58 N	86 17 00 W
000703	50926	21	75 09 26	0007 03	29 40 00 N	86 17 00 W
000703	60707	39	76 07 07	0007 03	29 39 57 N	86 16 57 W
000704	50605	10	75 06 05	0007 04	29 39 58 N	86 17 00 W
000704	50926	21	75 09 26	0007 04	29 40 00 N	86 17 00 W
000704	60707	39	76 07 07	0007 04	29 39 57 N	86 16 57 W
000705	50605	10	75 06 05	0007 05	29 39 58 N	86 17 00 W
000705	50926	21	75 09 26	0007 05	29 40 00 N	86 17 00 W
000705	60707	39	76 07 07	0007 05	29 39 57 N	86 16 57 W
000706	50605	10	75 06 05	0007 06	29 39 58 N	86 17 00 W
000706	50926	21	75 09 26	0007 06	29 40 00 N	86 17 00 W
000706	60707	39	76 07 07	0007 06	29 39 57 N	86 16 57 W
000707	50605	10	75 06 05	0007 07	29 39 58 N	86 17 00 W
000707	50926	21	75 09 26	0007 07	29 40 00 N	86 17 00 W
000707	60707	39	76 07 07	0007 07	29 39 57 N	86 16 57 W
000708	50605	10	75 06 05	0007 08	29 39 58 N	86 17 00 W
000708	50926	21	75 09 26	0007 08	29 40 00 N	86 17 00 W
000708	60707	39	76 07 07	0007 08	29 39 57 N	86 16 57 W
000709	50605	10	75 06 05	0007 09	29 39 58 N	86 17 00 W
000709	50926	21	75 09 26	0007 09	29 40 00 N	86 17 00 W
000709	60707	39	76 07 07	0007 09	29 39 57 N	86 16 57 W
000710	60707	39	76 07 07	0007 10	29 39 57 N	86 16 57 W
000711	50605	10	75 06 05	0007 11	29 39 58 N	86 17 00 W
000711	50926	21	75 09 26	0007 11	29 40 00 N	86 17 00 W
000717	50601	13	75 07 20	0007 17	29 30 00 N	86 18 00 W
000717	50720	13	75 07 20	0007 17	29 30 00 N	86 18 00 W
000717	51001	22	75 10 19	0007 17	29 39 30 N	86 18 00 W
000717	51019	22	75 10 19	0007 17	29 39 30 N	86 18 00 W
000717	602 8	30	76 02 08	0007 17	29 39 30 N	86 17 30 W
000717	60201	30	76 02 08	0007 17	29 39 30 N	86 17 30 W
000717	60628	40	76 06 28	0007 17	29 37 37 N	86 16 57 W
000717	71031	DM2	77 10 31	0007 17	29 40 06 N	86 15 49 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
000717	80204	DM4	78 02 07	0007	17	29 39 59 N	86 17 00 W
000717	80207	DM4	78 02 07	0007	17	29 39 59 N	86 17 00 W
000718	602 8	30	76 02 08	0007	18	29 39 30 N	86 17 30 W
000718	60628	40	76 06 28	0007	18	29 37 37 N	86 16 57 W
000718	60728	40	76 06 28	0007	18	29 37 37 N	86 16 57 W
000719	60628	40	76 06 28	0007	19	29 37 37 N	86 16 57 W
000730	60628	40	76 06 28	0007	30	29 37 37 N	86 16 57 W
000730	71031	DM2	77 10 31	0007	30	29 40 06 N	86 15 49 W
000730	80207	DM4	78 02 07	0007	30	29 39 59 N	86 17 00 W
000731	71031	DM2	77 10 31	0007	31	29 40 06 N	86 15 49 W
000731	80207	DM4	78 02 07	0007	31	29 39 59 N	86 17 00 W
000800	50719	13	75 07 19	0008	00	29 33 00 N	87 24 00 W
000800	51018	22	75 10 18	0008	00	29 31 36 N	87 23 24 W
000800	60209	30	76 02 09	0008	00	29 33 00 N	87 24 00 W
000817	50601	13	75 07 19	0008	17	29 33 00 N	87 24 00 W
000817	50719	13	75 07 19	0008	17	29 33 00 N	87 24 00 W
000817	51001	22	75 10 18	0008	17	29 31 36 N	87 23 24 W
000817	51018	22	75 10 18	0008	17	29 31 36 N	87 23 24 W
000817	602 9	30	76 02 09	0008	17	29 33 00 N	87 24 00 W
000817	60201	30	76 02 09	0008	17	29 33 00 N	87 24 00 W
000817	60627	40	76 06 27	0008	17	29 32 51 N	87 23 43 W
000817	60629	40	76 06 27	0008	17	29 32 51 N	87 23 43 W
000818	51018	22	75 10 18	0008	18	29 31 36 N	87 23 24 W
000818	602 9	30	76 02 09	0008	18	29 33 00 N	87 24 00 W
000818	60627	40	76 06 27	0008	18	29 32 51 N	87 23 43 W
000818	60726	40	76 06 27	0008	18	29 32 51 N	87 23 43 W
000819	60627	40	76 06 27	0008	19	29 32 51 N	87 23 43 W
000830	60627	40	76 06 27	0008	30	29 32 51 N	87 23 43 W
000900	50719	13	75 07 19	0009	00	29 31 00 N	87 22 00 W
000900	51019	22	75 10 19	0009	00	29 31 30 N	87 21 36 W
000900	60209	30	76 02 09	0009	00	29 32 00 N	87 22 00 W
000917	50719	13	75 07 19	0009	17	29 31 00 N	87 22 00 W
000917	51019	22	75 10 19	0009	17	29 31 30 N	87 21 36 W
000917	60209	30	76 02 09	0009	17	29 32 00 N	87 22 00 W
000917	60627	40	76 06 27	0009	17	29 30 50 N	87 22 07 W
000918	51019	22	75 10 19	0009	18	29 31 30 N	87 21 36 W
000918	60209	30	76 02 09	0009	18	29 32 00 N	87 22 00 W
001000	50617	11	75 06 17	0010	00	27 49 53 N	83 31 04 W
001000	50723	15	75 07 23	0010	00	27 50 00 N	83 31 00 W
001000	50918	19	75 09 18	0010	00	27 49 56 N	83 30 54 W
001000	51021	22	75 10 21	0010	00	27 48 42 N	83 31 54 W
001000	60210	32	76 02 10	0010	00	27 49 58 N	83 30 40 W
001000	60228	33	76 02 27	0010	00	27 49 00 N	83 33 00 W
001017	50723	15	75 07 23	0010	17	27 50 00 N	83 31 00 W
001017	51021	22	75 10 21	0010	17	27 48 42 N	83 31 54 W
001017	60228	33	76 02 27	0010	17	27 49 00 N	83 33 00 W
001017	60714	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
001017	60718	46	76 07 18	0010	17	27 49 45 N	83 29 29 W
001017	60719	46	76 07 18	0010	17	27 49 45 N	83 29 29 W
001017	70719	46	76 07 18	0010	17	27 49 45 N	83 29 29 W
001018	50723	15	75 07 23	0010	18	27 50 00 N	83 31 00 W
001018	51021	22	75 10 21	0010	18	27 48 42 N	83 31 54 W
001018	60228	33	76 02 27	0010	18	27 49 00 N	83 33 00 W
001030	60714	44	76 07 13	0010	30	27 50 12 N	83 30 38 W
001030	60719	46	76 07 18	0010	30	27 49 45 N	83 29 29 W
001031	60714	44	76 07 13	0010	31	27 50 12 N	83 30 38 W
001031	60719	46	76 07 18	0010	31	27 49 45 N	83 29 29 W
001032	60714	44	76 07 13	0010	32	27 50 12 N	83 30 38 W
001032	60719	46	76 07 18	0010	32	27 49 45 N	83 29 29 W
001033	60714	44	76 07 13	0010	33	27 50 12 N	83 30 38 W
001033	60719	46	76 07 18	0010	33	27 49 45 N	83 29 29 W
001034	60714	44	76 07 13	0010	34	27 50 12 N	83 30 38 W
001034	60719	46	76 07 18	0010	34	27 49 45 N	83 29 29 W
001035	60714	44	76 07 13	0010	35	27 50 12 N	83 30 38 W
001035	60719	46	76 07 18	0010	35	27 49 45 N	83 29 29 W
001101	60709	41	76 07 09	0011	01	29 28 00 N	87 52 00 W
001201	60709	41	76 07 09	0012	01	29 34 00 N	87 59 00 W
001301	60709	41	76 07 09	0013	01	29 40 00 N	88 05 00 W
001401	60709	41	76 07 09	0014	01	29 51 00 N	88 18 00 W
001719	60628	40	76 06 28	0007	19	29 37 37 N	86 16 57 W
001740	60628	40	76 06 28	0007	40	29 37 37 N	86 16 57 W
001741	60628	40	76 06 28	0007	41	29 37 37 N	86 16 57 W
001742	60628	40	76 06 28	0007	42	29 37 37 N	86 16 57 W
001743	60628	40	76 06 28	0007	43	29 37 37 N	86 16 57 W
006400	50615	11	75 06 15	0016	00	27 50 05 N	83 24 58 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
006400	50619	11	75 06 15	0016	00	27 50 05 N	83 24 58 W
006400	50916	19	75 09 16	0064	00	27 50 08 N	83 25 06 W
006400	60205	32	76 02 05	0064	00	27 50 09 N	83 25 05 W
010117	60715	46	76 07 15	2103	17	26 24 48 N	82 57 56 W
014600	50604	11	75 06 04	0017	00	28 40 55 N	84 23 14 W
014600	50605	11	75 06 05	0017	00	28 40 55 N	84 23 14 W
014600	50905	19	75 09 06	0146	00	28 41 05 N	84 23 11 W
014600	50906	19	75 09 06	0146	00	28 41 05 N	84 23 11 W
014600	50907	19	75 09 06	0146	00	28 41 05 N	84 23 11 W
014600	60308	34	76 03 08	0146	00	28 41 04 N	84 23 10 W
014619	60628	40	76 06 28	0146	19	28 41 05 N	84 23 06 W
014640	60628	40	76 06 28	0146	40	28 41 05 N	84 23 06 W
014641	60628	40	76 06 28	0146	41	28 41 05 N	84 23 06 W
014643	60628	40	76 06 28	0146	43	28 41 05 N	84 23 06 W
014699	60616	37	76 06 16	0146	99	28 41 05 N	84 23 06 W
014700	50607	11	75 06 07	0147	00	28 36 47 N	84 20 27 W
014700	50609	11	75 06 09	0147	00	28 36 47 N	84 20 27 W
014700	50908	19	75 09 08	0147	00	28 36 49 N	84 20 30 W
014700	60218	32	76 02 18	0147	00	28 36 48 N	84 20 29 W
014718	60629	37	76 06 28	0147	18	28 36 44 N	84 20 22 W
014742	60629	37	76 06 28	0147	42	28 36 44 N	84 20 22 W
014743	60629	37	76 06 28	0147	43	28 36 44 N	84 20 22 W
014744	60629	37	76 06 28	0147	44	28 36 44 N	84 20 22 W
015100	50624	11	75 06 24	0151	00	28 32 07 N	84 18 25 W
015100	50927	19	75 09 28	0151	00	28 32 15 N	84 18 45 W
015100	50928	19	75 09 28	0151	00	28 32 15 N	84 18 45 W
015100	60220	32	76 02 20	0151	00	28 32 21 N	84 16 04 W
015100	60221	32	76 02 20	0151	00	28 32 21 N	84 16 04 W
015118	60703	37	76 07 03	0151	18	28 32 16 N	84 18 38 W
015119	60703	37	76 07 03	0151	19	28 32 16 N	84 18 38 W
015140	60703	37	76 07 03	0151	40	28 32 16 N	84 18 38 W
015141	60703	37	76 07 03	0151	41	28 32 16 N	84 18 38 W
015144	60703	37	76 07 03	0151	44	28 32 16 N	84 18 38 W
015145	60704	37	76 07 04	0151	45	28 32 15 N	84 18 38 W
020417	60714	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
025100	50626	11	75 06 26	0251	00	28 32 41 N	84 16 03 W
025100	50627	11	75 06 27	0251	00	28 32 41 N	84 16 03 W
025100	50628	11	75 06 28	0251	00	28 32 41 N	84 16 03 W
025100	50930	19	75 09 30	0251	00	28 32 33 N	84 16 06 W
025100	60304	34	76 03 04	0251	00	28 32 33 N	84 16 06 W
025118	60629	40	76 06 29	0251	18	28 32 31 N	84 15 59 W
025119	60629	40	76 06 29	0251	19	28 32 31 N	84 15 59 W
025140	60629	40	76 06 29	0251	40	28 32 31 N	84 15 59 W
025141	60629	40	76 06 29	0251	41	28 32 31 N	84 15 59 W
025144	60629	40	76 06 29	0251	44	28 32 31 N	84 15 59 W
042017	60714	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
064009	70909	DM1	77 09 09	2640	09	29 43 29 N	87 54 42 W
071917	60717	46	76 07 17	2747	17	27 23 59 N	84 07 04 W
071918	60717	46	76 07 17	2747	18	27 23 59 N	84 07 04 W
110117	50713	12	75 07 13	1101	17	27 51 00 N	83 06 00 W
110117	51002	20	75 10 02	1101	17	27 51 00 N	83 06 00 W
110117	60207	28	76 02 07	1101	17	27 51 00 N	83 06 00 W
110150	50713	12	75 07 13	1101	50	27 51 00 N	83 06 00 W
110150	51001	20	75 10 02	1101	50	27 51 00 N	83 06 00 W
110150	51002	20	75 10 02	1101	50	27 51 00 N	83 06 00 W
110150	60207	28	76 02 07	1101	50	27 51 00 N	83 06 00 W
110168	50713	12	75 07 13	1101	68	27 51 00 N	83 06 00 W
110168	51002	20	75 10 02	1101	68	27 51 00 N	83 06 00 W
110168	60207	28	76 02 07	1101	68	27 51 00 N	83 06 00 W
110169	60207	28	76 02 07	1101	69	27 51 00 N	83 06 00 W
110317	50716	12	75 07 16	1103	17	27 55 00 N	84 45 00 W
110317	50930	20	75 09 30	1103	17	27 55 00 N	84 45 00 W
110317	60206	28	76 02 06	1103	17	27 55 00 N	84 45 00 W
110350	50716	12	75 07 16	1103	50	27 55 00 N	84 45 00 W
110350	50930	20	75 09 30	1103	50	27 55 00 N	84 45 00 W
110350	60206	28	76 02 06	1103	50	27 55 00 N	84 45 00 W
110368	50930	20	75 09 30	1103	68	27 55 00 N	84 45 00 W
110368	60206	28	76 02 06	1103	68	27 55 00 N	84 45 00 W
110369	50930	20	75 09 30	1103	69	27 55 00 N	84 45 00 W
120417	50708	12	75 07 08	1204	17	29 26 00 N	83 40 00 W
120417	50921	20	75 09 21	1204	17	29 26 00 N	83 40 00 W
120417	60130	28	76 01 30	1204	17	29 26 00 N	83 40 00 W
120450	50708	12	75 07 08	1204	50	29 26 00 N	83 40 00 W
120450	50921	20	75 09 21	1204	50	29 26 00 N	83 40 00 W
120450	60130	28	76 01 30	1204	50	29 26 00 N	83 40 00 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
120468	50708	12	75 07 08	1204	68	29 26 00 N 83 40 00 W
120468	50921	20	75 09 21	1204	68	29 26 00 N 83 40 00 W
120468	60130	28	76 01 30	1204	68	29 26 00 N 83 40 00 W
120469	50708	12	75 07 08	1204	69	29 26 00 N 83 40 00 W
120469	50921	20	75 09 21	1204	69	29 26 00 N 83 40 00 W
120469	60130	28	76 01 30	1204	69	29 26 00 N 83 40 00 W
120517	50708	12	75 07 08	1205	17	29 16 00 N 83 49 00 W
120517	50922	20	75 09 22	1205	17	29 16 00 N 83 49 00 W
120517	50927	20	75 09 27	1205	17	29 16 00 N 83 49 00 W
120517	60130	28	76 01 31	1205	17	29 16 00 N 83 49 00 W
120550	50708	12	75 07 08	1205	50	29 16 00 N 83 49 00 W
120550	50922	20	75 09 22	1205	50	29 16 00 N 83 49 00 W
120550	50927	20	75 09 27	1205	50	29 16 00 N 83 49 00 W
120550	60130	28	76 01 31	1205	50	29 16 00 N 83 49 00 W
120568	50708	12	75 07 08	1205	68	29 16 00 N 83 49 00 W
120568	50922	20	75 09 22	1205	68	29 16 00 N 83 49 00 W
120568	60130	28	76 01 31	1205	68	29 16 00 N 83 49 00 W
120569	50708	12	75 07 08	1205	69	29 16 00 N 83 49 00 W
120569	50922	20	75 09 22	1205	69	29 16 00 N 83 49 00 W
120569	60130	28	76 01 31	1205	69	29 16 00 N 83 49 00 W
120617	50709	12	75 07 09	1206	17	29 01 00 N 84 03 00 W
120617	50928	20	75 09 28	1206	17	29 01 00 N 84 03 00 W
120617	60204	28	76 02 04	1206	17	29 01 00 N 84 03 00 W
120650	50709	12	75 07 09	1206	50	29 01 00 N 84 03 00 W
120650	50928	20	75 09 28	1206	50	29 01 00 N 84 03 00 W
120650	60204	28	76 02 04	1206	50	29 01 00 N 84 03 00 W
120668	50928	20	75 09 28	1206	68	29 01 00 N 84 03 00 W
120668	60204	28	76 02 04	1206	68	29 01 00 N 84 03 00 W
120669	50928	20	75 09 28	1206	69	29 01 00 N 84 03 00 W
120669	60204	28	76 02 04	1206	69	29 01 00 N 84 03 00 W
120717	50711	12	75 07 11	1207	17	28 38 00 N 84 24 00 W
120717	50929	20	75 09 29	1207	17	28 38 00 N 84 24 00 W
120717	60204	28	76 02 05	1207	17	28 38 00 N 84 24 00 W
120750	50711	12	75 07 11	1207	50	28 38 00 N 84 24 00 W
120750	50929	20	75 09 29	1207	50	28 38 00 N 84 24 00 W
120750	60204	28	76 02 05	1207	50	28 38 00 N 84 24 00 W
120768	50929	20	75 09 29	1207	68	28 38 00 N 84 24 00 W
120768	60204	28	76 02 05	1207	68	28 38 00 N 84 24 00 W
120769	50929	20	75 09 29	1207	69	28 38 00 N 84 24 00 W
120769	60204	28	76 02 05	1207	69	28 38 00 N 84 24 00 W
120770	50929	20	75 09 29	1207	70	28 38 00 N 84 24 00 W
120770	60204	28	76 02 05	1207	70	28 38 00 N 84 24 00 W
120771	50929	20	75 09 29	1207	71	28 38 00 N 84 24 00 W
120771	60204	28	76 02 05	1207	71	28 38 00 N 84 24 00 W
120772	50929	20	75 09 29	1207	72	28 38 00 N 84 24 00 W
120772	60204	28	76 02 05	1207	72	28 38 00 N 84 24 00 W
120773	50929	20	75 09 29	1207	73	28 38 00 N 84 24 00 W
120773	60204	28	76 02 05	1207	73	28 38 00 N 84 24 00 W
130817	50629	12	75 06 29	1308	17	30 07 00 N 85 47 00 W
130817	50915	20	75 09 15	1308	17	30 07 00 N 85 47 00 W
130817	60115	28	76 01 15	1308	17	30 07 00 N 85 47 00 W
130850	50629	12	75 06 29	1308	50	30 07 00 N 85 47 00 W
130850	50915	20	75 09 15	1308	50	30 07 00 N 85 47 00 W
130850	50975	20	75 09 15	1308	50	30 07 00 N 85 47 00 W
130850	60115	28	76 01 15	1308	50	30 07 00 N 85 47 00 W
130868	60115	28	76 01 15	1308	68	30 07 00 N 85 47 00 W
130869	60115	28	76 01 15	1308	69	30 07 00 N 85 47 00 W
130917	50914	20	75 09 14	1309	17	29 44 00 N 86 12 00 W
130917	60116	28	76 01 16	1309	17	29 44 00 N 86 12 00 W
130950	50628	12	75 06 28	1309	50	29 44 00 N 86 12 00 W
130950	50914	20	75 09 14	1309	50	29 44 00 N 86 12 00 W
130950	60116	28	76 01 16	1309	50	29 44 00 N 86 12 00 W
130968	60116	28	76 01 16	1309	68	29 44 00 N 86 12 00 W
130969	60116	28	76 01 16	1309	69	29 44 00 N 86 12 00 W
130970	60116	28	76 01 16	1309	70	29 44 00 N 86 12 00 W
131017	50628	12	75 06 28	1310	17	29 31 00 N 86 27 00 W
131017	50913	20	75 09 13	1310	17	29 31 00 N 86 27 00 W
131017	60120	28	76 01 20	1310	17	29 31 00 N 86 27 00 W
131050	50628	12	75 06 28	1310	50	29 31 00 N 86 27 00 W
131050	50913	20	75 09 13	1310	50	29 31 00 N 86 27 00 W
131050	60120	28	76 01 20	1310	50	29 31 00 N 86 27 00 W
131068	50913	20	75 09 13	1310	68	29 31 00 N 86 27 00 W
131068	60120	28	76 01 20	1310	68	29 31 00 N 86 27 00 W
131069	50913	20	75 09 13	1310	69	29 31 00 N 86 27 00 W
131069	60120	28	76 01 20	1310	69	29 31 00 N 86 27 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
131117	50627	12	75 06 27	1311	17	29 21 00 N 86 38 00 W
131117	50912	20	75 09 12	1311	17	29 21 00 N 86 38 00 W
131117	60121	28	76 01 21	1311	17	29 21 00 N 86 38 00 W
131150	50627	12	75 06 27	1311	50	29 21 00 N 86 38 00 W
131150	50912	20	75 09 12	1311	50	29 21 00 N 86 38 00 W
131150	60121	28	76 01 21	1311	50	29 21 00 N 86 38 00 W
131168	50912	20	75 09 12	1311	68	29 21 00 N 86 38 00 W
131168	60121	28	76 01 21	1311	68	29 21 00 N 86 38 00 W
131169	50912	20	75 09 12	1311	69	29 21 00 N 86 38 00 W
131169	60121	28	76 01 21	1311	69	29 21 00 N 86 38 00 W
141217	50619	12	75 06 19	1412	17	30 04 00 N 88 33 00 W
141217	50907	20	75 09 07	1412	17	30 04 00 N 88 33 00 W
141217	60109	28	76 01 09	1412	17	30 04 00 N 88 33 00 W
141250	50619	12	75 06 19	1412	50	30 04 00 N 88 33 00 W
141250	50907	20	75 09 07	1412	50	30 04 00 N 88 33 00 W
141250	60109	28	76 01 09	1412	50	30 04 00 N 88 33 00 W
141268	60109	28	76 01 09	1412	68	30 04 00 N 88 33 00 W
141269	60109	28	76 01 09	1412	69	30 04 00 N 88 33 00 W
141270	60109	28	76 01 09	1412	70	30 04 00 N 88 33 00 W
141271	60109	28	76 01 09	1412	71	30 04 00 N 88 33 00 W
141272	60109	28	76 01 09	1412	72	30 04 00 N 88 33 00 W
141273	60109	28	76 01 09	1412	73	30 04 00 N 88 33 00 W
141317	50620	12	75 06 20	1413	17	29 47 00 N 88 13 00 W
141317	50909	20	75 09 09	1413	17	29 47 00 N 88 13 00 W
141317	60111	28	76 01 11	1413	17	29 47 00 N 88 13 00 W
141350	50620	12	75 06 20	1413	50	29 47 00 N 88 13 00 W
141350	50909	20	75 09 09	1413	50	29 47 00 N 88 13 00 W
141350	60111	28	76 01 11	1413	50	29 47 00 N 88 13 00 W
141368	60111	28	76 01 11	1413	68	29 47 00 N 88 13 00 W
141401	60708	41	76 07 08	1414	01	29 23 00 N 87 46 00 W
141417	50621	12	75 06 21	1414	17	29 22 00 N 87 46 00 W
141417	50910	20	75 09 10	1414	17	29 22 00 N 87 46 00 W
141417	60112	28	76 01 12	1414	17	29 22 00 N 87 46 00 W
141450	50621	12	75 06 21	1414	50	29 22 00 N 87 46 00 W
141450	50910	20	75 09 10	1414	50	29 22 00 N 87 46 00 W
141450	60112	28	76 01 12	1414	50	29 22 00 N 87 46 00 W
141468	50910	20	75 09 10	1414	68	29 22 00 N 87 46 00 W
141468	60112	28	76 01 12	1414	68	29 22 00 N 87 46 00 W
141469	60112	28	76 01 12	1414	69	29 22 00 N 87 46 00 W
141501	60708	41	76 07 08	1415	01	29 17 00 N 87 40 00 W
141517	50621	12	75 06 21	1415	17	29 22 00 N 87 40 00 W
141517	50911	20	75 09 11	1415	17	29 17 00 N 87 40 00 W
141517	60112	28	76 01 13	1415	17	29 17 00 N 87 40 00 W
141550	50621	12	75 06 21	1415	50	29 22 00 N 87 40 00 W
141550	50911	20	75 09 11	1415	50	29 17 00 N 87 40 00 W
141550	60112	28	76 01 13	1415	50	29 17 00 N 87 40 00 W
141568	60112	28	76 01 13	1415	68	29 17 00 N 87 40 00 W
141569	60112	28	76 01 13	1415	69	29 17 00 N 87 40 00 W
21010	70 1	DM1	77 08 18	2101	0	26 25 03 N 82 15 12 W
210101	50528	10	75 05 28	2101	01	26 25 01 N 82 15 01 W
210101	50915	21	75 09 15	2101	01	26 25 00 N 82 15 00 W
210101	60126	29	76 01 25	2101	01	26 25 00 N 82 14 55 W
210101	60624	39	76 06 24	2101	01	26 25 00 N 82 15 09 W
210101	70818	DM1	77 08 18	2101	01	26 25 03 N 82 15 12 W
210101	71117	DM2	77 11 17	2101	01	26 24 59 N 82 15 00 W
210101	80220	DM4	78 02 20	2101	01	26 24 59 N 82 15 09 W
210102	50528	10	75 05 28	2101	02	26 25 01 N 82 15 01 W
210102	50915	21	75 09 15	2101	02	26 25 00 N 82 15 00 W
210102	60126	29	76 01 25	2101	02	26 25 00 N 82 14 55 W
210102	60624	39	76 06 24	2101	02	26 25 00 N 82 15 09 W
210102	70818	DM1	77 08 18	2101	02	26 25 03 N 82 15 12 W
210102	71117	DM2	77 11 17	2101	02	26 24 59 N 82 15 00 W
210102	80220	DM4	78 02 20	2101	02	26 24 59 N 82 15 09 W
210103	50528	10	75 05 28	2101	03	26 25 01 N 82 15 01 W
210103	50915	21	75 09 15	2101	03	26 25 00 N 82 15 00 W
210103	60126	29	76 01 25	2101	03	26 25 00 N 82 14 55 W
210103	60624	39	76 06 24	2101	03	26 25 00 N 82 15 09 W
210103	70818	DM1	77 08 18	2101	03	26 25 03 N 82 15 12 W
210103	71117	DM2	77 11 17	2101	03	26 24 59 N 82 15 00 W
210103	80220	DM4	78 02 20	2101	03	26 24 59 N 82 15 09 W
210104	50528	10	75 05 28	2101	04	26 25 01 N 82 15 01 W
210104	50915	21	75 09 15	2101	04	26 25 00 N 82 15 00 W
210104	60126	29	76 01 25	2101	04	26 25 00 N 82 14 55 W
210104	60624	39	76 06 24	2101	04	26 25 00 N 82 15 09 W
210104	70818	DM1	77 08 18	2101	04	26 25 03 N 82 15 12 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
210104	71117	DM2	77 11 17	2101	04	26 24 59 N	82 15 00 W
210104	80220	DM4	78 02 20	2101	04	26 24 59 N	82 15 09 W
210105	50528	10	75 05 28	2101	05	26 25 01 N	82 15 01 W
210105	50915	21	75 09 15	2101	05	26 25 00 N	82 15 00 W
210105	60126	29	76 01 25	2101	05	26 25 00 N	82 14 55 W
210105	60624	39	76 06 24	2101	05	26 25 00 N	82 15 09 W
210105	70818	DM1	77 08 18	2101	05	26 25 03 N	82 15 12 W
210105	71117	DM2	77 11 17	2101	05	26 24 59 N	82 15 00 W
210105	80220	DM4	78 02 20	2101	05	26 24 59 N	82 15 09 W
210105	8220	DM4	78 02 20	2101	05	26 24 59 N	82 15 09 W
210106	50528	10	75 05 28	2101	06	26 25 01 N	82 15 01 W
210106	50915	21	75 09 15	2101	06	26 25 00 N	82 15 00 W
210106	60126	29	76 01 25	2101	06	26 25 00 N	82 14 55 W
210106	60624	39	76 06 24	2101	06	26 25 00 N	82 15 09 W
210106	70818	DM1	77 08 18	2101	06	26 25 03 N	82 15 12 W
210106	71117	DM2	77 11 17	2101	06	26 24 59 N	82 15 00 W
210106	80220	DM4	78 02 20	2101	06	26 24 59 N	82 15 09 W
210107	50528	10	75 05 28	2101	07	26 25 01 N	82 15 01 W
210107	50915	21	75 09 15	2101	07	26 25 00 N	82 15 00 W
210107	60126	29	76 01 25	2101	07	26 25 00 N	82 14 55 W
210107	60624	39	76 06 24	2101	07	26 25 00 N	82 15 09 W
210107	70818	DM1	77 08 18	2101	07	26 25 03 N	82 15 12 W
210107	71117	DM2	77 11 17	2101	07	26 24 59 N	82 15 00 W
210107	80220	DM4	78 02 20	2101	07	26 24 59 N	82 15 09 W
210108	50528	10	75 05 28	2101	08	26 25 01 N	82 15 01 W
210108	50915	21	75 09 15	2101	08	26 25 00 N	82 15 00 W
210108	60126	29	76 01 25	2101	08	26 25 00 N	82 14 55 W
210108	60624	39	76 06 24	2101	08	26 25 00 N	82 15 09 W
210108	70818	DM1	77 08 18	2101	08	26 25 03 N	82 15 12 W
210108	71117	DM2	77 11 17	2101	08	26 24 59 N	82 15 00 W
210108	80220	DM4	78 02 20	2101	08	26 24 59 N	82 15 09 W
210109	50528	10	75 05 28	2101	09	26 25 01 N	82 15 01 W
210109	50915	21	75 09 15	2101	09	26 25 00 N	82 15 00 W
210109	60126	29	76 01 25	2101	09	26 25 00 N	82 14 55 W
210109	60624	39	76 06 24	2101	09	26 25 00 N	82 15 09 W
210109	70818	DM1	77 08 18	2101	09	26 25 03 N	82 15 12 W
210109	71117	DM2	77 11 17	2101	09	26 24 59 N	82 15 00 W
210109	80220	DM4	78 02 20	2101	09	26 24 59 N	82 15 09 W
210110	60624	39	76 06 24	2101	10	26 25 00 N	82 15 09 W
210110	70818	DM1	77 08 18	2101	10	26 25 03 N	82 15 12 W
210110	71117	DM2	77 11 17	2101	10	26 24 59 N	82 15 00 W
210110	80220	DM4	78 02 20	2101	10	26 24 59 N	82 15 09 W
210111	50528	10	75 05 28	2101	11	26 25 01 N	82 15 01 W
210111	50915	21	75 09 15	2101	11	26 25 00 N	82 15 00 W
210111	60126	29	76 01 25	2101	11	26 25 00 N	82 14 55 W
210111	60624	39	76 06 24	2101	11	26 25 00 N	82 15 09 W
210111	70 1	DM1	77 08 18	2101	11	26 25 03 N	82 15 12 W
210111	70818	DM1	77 08 18	2101	11	26 25 03 N	82 15 12 W
210111	71117	DM2	77 11 17	2101	11	26 24 59 N	82 15 00 W
210111	80220	DM4	78 02 20	2101	11	26 24 59 N	82 15 09 W
210111	8220	DM4	78 02 20	2101	11	26 24 59 N	82 15 09 W
210112	60624	39	76 06 24	2101	12	26 25 00 N	82 15 09 W
210113	60624	39	76 06 24	2101	13	26 25 00 N	82 15 09 W
210114	60624	39	76 06 24	2101	14	26 25 00 N	82 15 09 W
210115	60624	39	76 06 24	2101	15	26 25 00 N	82 15 09 W
210116	60624	39	76 06 24	2101	16	26 25 00 N	82 15 09 W
210150	70813	DM1	77 08 13	2101	50	26 25 01 N	82 15 11 W
210150	70818	DM1	77 08 18	2101	50	26 25 03 N	82 15 12 W
210150	71117	DM2	77 11 17	2101	50	26 24 59 N	82 15 00 W
210150	80220	DM4	78 02 20	2101	50	26 24 59 N	82 15 09 W
210168	71117	DM2	77 11 17	2101	68	26 24 59 N	82 15 00 W
210173	71117	DM2	77 11 17	2101	73	26 24 59 N	82 15 00 W
210201	50528	10	75 05 28	2102	01	26 25 00 N	82 25 01 W
210201	50915	21	75 09 15	2102	01	26 25 00 N	82 25 00 W
210201	60126	29	76 01 25	2102	01	26 24 59 N	82 25 00 W
210201	60624	39	76 06 24	2102	01	26 25 00 N	82 25 01 W
210201	70818	DM1	77 08 18	2102	01	26 24 59 N	82 25 01 W
210201	71117	DM2	77 11 17	2102	01	26 24 55 N	82 24 57 W
210201	80210	DM4	78 02 20	2102	01	26 24 33 N	82 24 51 W
210201	80220	DM4	78 02 20	2102	01	26 24 33 N	82 24 51 W
210202	50528	10	75 05 28	2102	02	26 25 00 N	82 25 01 W
210202	50915	21	75 09 15	2102	02	26 25 00 N	82 25 00 W
210202	60126	29	76 01 25	2102	02	26 24 59 N	82 25 00 W
210202	60624	39	76 06 24	2102	02	26 25 00 N	82 25 01 W
210202	70818	DM1	77 08 18	2102	02	26 24 59 N	82 25 01 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
210202	71117	DM2	77 11 17	2102	02	26 24 55 N	82 24 57 W
210202	80220	DM4	78 02 20	2102	02	26 24 33 N	82 24 51 W
210203	50528	10	75 05 28	2102	03	26 25 00 N	82 25 01 W
210203	50915	21	75 09 15	2102	03	26 25 00 N	82 25 00 W
210203	60126	29	76 01 25	2102	03	26 24 59 N	82 25 00 W
210203	60624	39	76 06 24	2102	03	26 25 00 N	82 25 01 W
210203	70818	DM1	77 08 18	2102	03	26 24 59 N	82 25 01 W
210203	71117	DM2	77 11 17	2102	03	26 24 55 N	82 24 57 W
210203	80220	DM4	78 02 20	2102	03	26 24 33 N	82 24 51 W
210204	50528	10	75 05 28	2102	04	26 25 00 N	82 25 01 W
210204	50915	21	75 09 15	2102	04	26 25 00 N	82 25 00 W
210204	60126	29	76 01 25	2102	04	26 24 59 N	82 25 00 W
210204	60624	39	76 06 24	2102	04	26 25 00 N	82 25 01 W
210204	70818	DM1	77 08 18	2102	04	26 24 59 N	82 25 01 W
210204	71117	DM2	77 11 17	2102	04	26 24 55 N	82 24 57 W
210204	80220	DM4	78 02 20	2102	04	26 24 33 N	82 24 51 W
210205	50528	10	75 05 28	2102	05	26 25 00 N	82 25 01 W
210205	50915	21	75 09 15	2102	05	26 25 00 N	82 25 00 W
210205	60126	29	76 01 25	2102	05	26 24 59 N	82 25 00 W
210205	60624	39	76 06 24	2102	05	26 25 00 N	82 25 01 W
210205	70818	DM1	77 08 18	2102	05	26 24 59 N	82 25 01 W
210205	71117	DM2	77 11 17	2102	05	26 24 55 N	82 24 57 W
210205	80220	DM4	78 02 20	2102	05	26 24 33 N	82 24 51 W
210206	50528	10	75 05 28	2102	06	26 25 00 N	82 25 01 W
210206	50915	21	75 09 15	2102	06	26 25 00 N	82 25 00 W
210206	60126	29	76 01 25	2102	06	26 24 59 N	82 25 00 W
210206	60624	39	76 06 24	2102	06	26 25 00 N	82 25 01 W
210206	70818	DM1	77 08 18	2102	06	26 24 59 N	82 25 01 W
210206	71117	DM2	77 11 17	2102	06	26 24 55 N	82 24 57 W
210206	80220	DM4	78 02 20	2102	06	26 24 33 N	82 24 51 W
210207	50528	10	75 05 28	2102	07	26 25 00 N	82 25 01 W
210207	50915	21	75 09 15	2102	07	26 25 00 N	82 25 00 W
210207	60126	29	76 01 25	2102	07	26 24 59 N	82 25 00 W
210207	60624	39	76 06 24	2102	07	26 25 00 N	82 25 01 W
210207	70818	DM1	77 08 18	2102	07	26 24 59 N	82 25 01 W
210207	71117	DM2	77 11 17	2102	07	26 24 55 N	82 24 57 W
210207	80220	DM4	78 02 20	2102	07	26 24 33 N	82 24 51 W
210208	50528	10	75 05 28	2102	08	26 25 00 N	82 25 01 W
210208	50915	21	75 09 15	2102	08	26 25 00 N	82 25 00 W
210208	60126	29	76 01 25	2102	08	26 24 59 N	82 25 00 W
210208	60624	39	76 06 24	2102	08	26 25 00 N	82 25 01 W
210208	70818	DM1	77 08 18	2102	08	26 24 59 N	82 25 01 W
210208	71117	DM2	77 11 17	2102	08	26 24 55 N	82 24 57 W
210208	80220	DM4	78 02 20	2102	08	26 24 33 N	82 24 51 W
210209	50528	10	75 05 28	2102	09	26 25 00 N	82 25 01 W
210209	50915	21	75 09 15	2102	09	26 25 00 N	82 25 00 W
210209	60126	29	76 01 25	2102	09	26 24 59 N	82 25 00 W
210209	60624	39	76 06 24	2102	09	26 25 00 N	82 25 01 W
210209	70818	DM1	77 08 18	2102	09	26 24 59 N	82 25 01 W
210209	71117	DM2	77 11 17	2102	09	26 24 55 N	82 24 57 W
210209	80220	DM4	78 02 20	2102	09	26 24 33 N	82 24 51 W
210210	60624	39	76 06 24	2102	10	26 25 00 N	82 25 01 W
210210	70818	DM1	77 08 18	2102	10	26 24 59 N	82 25 01 W
210210	71117	DM2	77 11 17	2102	10	26 24 55 N	82 24 57 W
210210	80220	DM4	78 02 20	2102	10	26 24 33 N	82 24 51 W
210211	50528	10	75 05 28	2102	11	26 25 00 N	82 25 01 W
210211	50915	21	75 09 15	2102	11	26 25 00 N	82 25 00 W
210211	60126	29	76 01 25	2102	11	26 24 59 N	82 25 00 W
210211	60624	39	76 06 24	2102	11	26 25 00 N	82 25 01 W
210211	70818	DM1	77 08 18	2102	11	26 24 59 N	82 25 01 W
210211	71117	DM2	77 11 17	2102	11	26 24 55 N	82 24 57 W
210211	80220	DM4	78 02 20	2102	11	26 24 33 N	82 24 51 W
210212	60624	39	76 06 24	2102	12	26 25 00 N	82 25 01 W
210213	60624	39	76 06 24	2102	13	26 25 00 N	82 25 01 W
210214	60624	39	76 06 24	2102	14	26 25 00 N	82 25 01 W
210215	60624	39	76 06 24	2102	15	26 25 00 N	82 25 01 W
210216	60624	39	76 06 24	2102	16	26 25 00 N	82 25 01 W
210250	70818	DM1	77 08 18	2102	50	26 24 59 N	82 25 01 W
210250	71117	DM2	77 11 17	2102	50	26 24 55 N	82 24 57 W
210250	80220	DM4	78 02 20	2102	50	26 24 33 N	82 24 51 W
210268	71117	DM2	77 11 17	2102	68	26 24 55 N	82 24 57 W
210273	71117	DM2	77 11 17	2102	73	26 24 55 N	82 24 57 W
210300	50728	15	75 07 28	2103	00	26 25 00 N	82 58 00 W
210300	51022	22	75 10 22	2103	00	26 25 30 N	82 59 30 W
210300	60229	33	76 02 29	2103	00	26 25 30 N	82 58 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
210301	50528	10	75 05 28	2103	01	26 24 59 N	82 58 02 W
210301	50915	21	75 09 15	2103	01	26 25 00 N	82 58 00 W
210301	60126	29	76 01 26	2103	01	26 25 01 N	82 58 00 W
210301	60626	39	76 06 26	2103	01	26 25 00 N	82 57 59 W
210301	70822	DM1	77 08 22	2103	01	26 24 55 N	82 57 57 W
210301	71116	DM2	77 11 16	2103	01	26 25 01 N	82 57 59 W
210301	80218	DM4	78 02 18	2103	01	26 25 02 N	82 58 00 W
210301	80219	DM4	78 02 18	2103	01	26 25 02 N	82 58 00 W
210302	50528	10	75 05 28	2103	02	26 24 59 N	82 58 02 W
210302	50915	21	75 09 15	2103	02	26 25 00 N	82 58 00 W
210302	60126	29	76 01 26	2103	02	26 25 01 N	82 58 00 W
210302	60624	39	76 06 26	2103	02	26 25 00 N	82 57 59 W
210302	60626	39	76 06 26	2103	02	26 25 00 N	82 57 59 W
210303	50528	10	75 05 28	2103	03	26 24 59 N	82 58 02 W
210303	50915	21	75 09 15	2103	03	26 25 00 N	82 58 00 W
210303	60126	29	76 01 26	2103	03	26 25 01 N	82 58 00 W
210303	60624	39	76 06 26	2103	03	26 25 00 N	82 57 59 W
210303	60626	39	76 06 26	2103	03	26 25 00 N	82 57 59 W
210304	50528	10	75 05 28	2103	04	26 24 59 N	82 58 02 W
210304	50915	21	75 09 15	2103	04	26 25 00 N	82 58 00 W
210304	60126	29	76 01 26	2103	04	26 25 01 N	82 58 00 W
210304	60624	39	76 06 26	2103	04	26 25 00 N	82 57 59 W
210304	60626	39	76 06 26	2103	04	26 25 00 N	82 57 59 W
210305	50528	10	75 05 28	2103	05	26 24 59 N	82 58 02 W
210305	50915	21	75 09 15	2103	05	26 25 00 N	82 58 00 W
210305	60126	29	76 01 26	2103	05	26 25 01 N	82 58 00 W
210305	60624	39	76 06 26	2103	05	26 25 00 N	82 57 59 W
210305	60626	39	76 06 26	2103	05	26 25 00 N	82 57 59 W
210306	50528	10	75 05 28	2103	06	26 24 59 N	82 58 02 W
210306	50915	21	75 09 15	2103	06	26 25 00 N	82 58 00 W
210306	60126	29	76 01 26	2103	06	26 25 01 N	82 58 00 W
210306	60624	39	76 06 26	2103	06	26 25 00 N	82 57 59 W
210306	60626	39	76 06 26	2103	06	26 25 00 N	82 57 59 W
210307	50528	10	75 05 28	2103	07	26 24 59 N	82 58 02 W
210307	50915	21	75 09 15	2103	07	26 25 00 N	82 58 00 W
210307	60126	29	76 01 26	2103	07	26 25 01 N	82 58 00 W
210307	60624	39	76 06 26	2103	07	26 25 00 N	82 57 59 W
210307	60626	39	76 06 26	2103	07	26 25 00 N	82 57 59 W
210308	50528	10	75 05 28	2103	08	26 24 59 N	82 58 02 W
210308	50915	21	75 09 15	2103	08	26 25 00 N	82 58 00 W
210308	60126	29	76 01 26	2103	08	26 25 01 N	82 58 00 W
210308	60624	39	76 06 26	2103	08	26 25 00 N	82 57 59 W
210308	60626	39	76 06 26	2103	08	26 25 00 N	82 57 59 W
210309	50528	10	75 05 28	2103	09	26 24 59 N	82 58 02 W
210309	50915	21	75 09 15	2103	09	26 25 00 N	82 58 00 W
210309	60126	29	76 01 26	2103	09	26 25 01 N	82 58 00 W
210309	60624	39	76 06 26	2103	09	26 25 00 N	82 57 59 W
210309	60626	39	76 06 26	2103	09	26 25 00 N	82 57 59 W
210310	60624	39	76 06 26	2103	10	26 25 00 N	82 57 59 W
210310	60626	39	76 06 26	2103	10	26 25 00 N	82 57 59 W
210311	50528	10	75 05 28	2103	11	26 24 59 N	82 58 02 W
210311	50915	21	75 09 15	2103	11	26 25 00 N	82 58 00 W
210311	60126	29	76 01 26	2103	11	26 25 01 N	82 58 00 W
210311	60626	39	76 06 26	2103	11	26 25 00 N	82 57 59 W
210312	60626	39	76 06 26	2103	12	26 25 00 N	82 57 59 W
210313	60626	39	76 06 26	2103	13	26 25 00 N	82 57 59 W
210314	60626	39	76 06 26	2103	14	26 25 00 N	82 57 59 W
210315	60626	39	76 06 26	2103	15	26 25 00 N	82 57 59 W
210316	60626	39	76 06 26	2103	16	26 25 00 N	82 57 59 W
210317	50601	15	75 07 28	2103	17	26 25 00 N	82 58 00 W
210317	50728	15	75 07 28	2103	17	26 25 00 N	82 58 00 W
210317	510 2	22	75 10 22	2103	17	26 25 30 N	82 59 30 W
210317	51001	22	75 10 22	2103	17	26 25 30 N	82 59 30 W
210317	60201	33	76 02 29	2103	17	26 25 30 N	82 58 00 W
210317	60229	33	76 02 29	2103	17	26 25 30 N	82 58 00 W
210317	60713	46	76 07 15	2103	17	26 24 48 N	82 57 56 W
210317	60715	46	76 07 15	2103	17	26 24 48 N	82 57 56 W
210317	70822	DM1	77 08 22	2103	17	26 24 55 N	82 57 57 W
210317	71023	DM2	77 10 23	2103	17	26 24 59 N	82 58 01 W
210317	80201	DM4	78 02 01	2103	17	26 24 55 N	82 27 59 W
210317	80202	DM4	78 02 01	2103	17	26 24 55 N	82 27 59 W
210318	50728	15	75 07 28	2103	18	26 25 00 N	82 58 00 W
210318	51022	22	75 10 22	2103	18	26 25 30 N	82 59 30 W
210318	60229	33	76 02 29	2103	18	26 25 30 N	82 58 00 W
210318	60713	46	76 07 15	2103	18	26 24 48 N	82 57 56 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
210318	60715	46	76 07 15	2103	18	26 24 48 N	82 57 56 W
210318	70822	DM1	77 08 22	2103	18	26 24 55 N	82 57 57 W
210318	70823	DM1	77 08 22	2103	18	26 24 55 N	82 57 57 W
210318	71023	DM2	77 10 23	2103	18	26 24 59 N	82 58 01 W
210318	80201	DM4	78 02 01	2103	18	26 24 55 N	82 27 59 W
210318	80202	DM4	78 02 01	2103	18	26 24 55 N	82 27 59 W
210319	60715	46	76 07 15	2103	19	26 24 48 N	82 57 56 W
210319	70822	DM1	77 08 22	2103	19	26 24 55 N	82 57 57 W
210319	70823	DM1	77 08 22	2103	19	26 24 55 N	82 57 57 W
210319	70826	DM1	77 08 22	2103	19	26 24 55 N	82 57 57 W
210319	70830	DM1	77 08 22	2103	19	26 24 55 N	82 57 57 W
210319	71022	DM2	77 10 23	2103	19	26 24 59 N	82 58 01 W
210319	71023	DM2	77 10 23	2103	19	26 24 59 N	82 58 01 W
210319	71025	DM2	77 10 23	2103	19	26 24 59 N	82 58 01 W
210319	71031	DM2	77 10 23	2103	19	26 24 59 N	82 58 01 W
210319	80201	DM4	78 02 01	2103	19	26 24 55 N	82 27 59 W
210319	80202	DM4	78 02 01	2103	19	26 24 55 N	82 27 59 W
210330	60715	46	76 07 15	2103	30	26 24 48 N	82 57 56 W
210330	71023	DM2	77 10 23	2103	30	26 24 59 N	82 58 01 W
210330	71024	DM2	77 10 23	2103	30	26 24 59 N	82 58 01 W
210330	80201	DM4	78 02 01	2103	30	26 24 55 N	82 27 59 W
210330	80211	DM4	78 02 01	2103	30	26 24 55 N	82 27 59 W
210330	82001	DM4	78 02 01	2103	30	26 24 55 N	82 27 59 W
210331	60715	46	76 07 15	2103	31	26 24 48 N	82 57 56 W
210331	70822	DM1	77 08 22	2103	31	26 24 55 N	82 57 57 W
210331	71023	DM2	77 10 23	2103	31	26 24 59 N	82 58 01 W
210331	80201	DM4	78 02 01	2103	31	26 24 55 N	82 27 59 W
210331	80202	DM4	78 02 01	2103	31	26 24 55 N	82 27 59 W
210332	70823	DM1	77 08 22	2103	32	26 24 55 N	82 57 57 W
210332	71023	DM2	77 10 23	2103	32	26 24 59 N	82 58 01 W
210340	80201	DM4	78 02 01	2103	40	26 24 55 N	82 27 59 W
210340	80206	DM4	78 02 01	2103	40	26 24 55 N	82 27 59 W
210350	70822	DM1	77 08 22	2103	50	26 24 55 N	82 57 57 W
210350	71023	DM2	77 10 23	2103	50	26 24 59 N	82 58 01 W
210350	71116	DM2	77 11 16	2103	50	26 25 01 N	82 57 59 W
210350	80201	DM4	78 02 01	2103	50	26 24 55 N	82 27 59 W
210350	80218	DM4	78 02 18	2103	50	26 25 02 N	82 58 00 W
210368	71023	DM2	77 10 23	2103	68	26 24 59 N	82 58 01 W
210368	71116	DM2	77 11 16	2103	68	26 25 01 N	82 57 59 W
210401	50529	10	75 05 29	2104	01	26 24 59 N	83 23 00 W
210401	50915	21	75 09 15	2104	01	26 25 00 N	83 23 00 W
210401	60126	29	76 01 26	2104	01	26 25 01 N	83 23 01 W
210401	60626	39	76 06 26	2104	01	26 25 00 N	83 23 01 W
210401	70822	DM1	77 08 22	2104	01	26 24 57 N	83 22 55 W
210401	71116	DM2	77 11 16	2104	01	26 24 56 N	83 23 01 W
210401	80218	DM4	78 02 18	2104	01	26 25 05 N	83 22 59 W
210402	50529	10	75 05 29	2104	02	26 24 59 N	83 23 00 W
210402	50915	21	75 09 15	2104	02	26 25 00 N	83 23 00 W
210402	60126	29	76 01 26	2104	02	26 25 01 N	83 23 01 W
210402	60626	39	76 06 26	2104	02	26 25 00 N	83 23 01 W
210402	70822	DM1	77 08 22	2104	02	26 24 57 N	83 22 55 W
210402	71116	DM2	77 11 16	2104	02	26 24 56 N	83 23 01 W
210402	80218	DM4	78 02 18	2104	02	26 25 05 N	83 22 59 W
210403	50529	10	75 05 29	2104	03	26 24 59 N	83 23 00 W
210403	50915	21	75 09 15	2104	03	26 25 00 N	83 23 00 W
210403	60126	29	76 01 26	2104	03	26 25 01 N	83 23 01 W
210403	60626	39	76 06 26	2104	03	26 25 00 N	83 23 01 W
210403	70822	DM1	77 08 22	2104	03	26 24 57 N	83 22 55 W
210403	71115	DM2	77 11 16	2104	03	26 24 56 N	83 23 01 W
210403	71116	DM2	77 11 16	2104	03	26 24 56 N	83 23 01 W
210403	80218	DM4	78 02 18	2104	03	26 25 05 N	83 22 59 W
210404	50529	10	75 05 29	2104	04	26 24 59 N	83 23 00 W
210404	50915	21	75 09 15	2104	04	26 25 00 N	83 23 00 W
210404	60126	29	76 01 26	2104	04	26 25 01 N	83 23 01 W
210404	60626	39	76 06 26	2104	04	26 25 00 N	83 23 01 W
210404	70822	DM1	77 08 22	2104	04	26 24 57 N	83 22 55 W
210404	71115	DM2	77 11 16	2104	04	26 24 56 N	83 23 01 W
210404	71116	DM2	77 11 16	2104	04	26 24 56 N	83 23 01 W
210404	80218	DM4	78 02 18	2104	04	26 25 05 N	83 22 59 W
210405	50529	10	75 05 29	2104	05	26 24 59 N	83 23 00 W
210405	50915	21	75 09 15	2104	05	26 25 00 N	83 23 00 W
210405	60126	29	76 01 26	2104	05	26 25 01 N	83 23 01 W
210405	60626	39	76 06 26	2104	05	26 25 00 N	83 23 01 W
210405	70822	DM1	77 08 22	2104	05	26 24 57 N	83 22 55 W
210405	71115	DM2	77 11 16	2104	05	26 24 56 N	83 23 01 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
210405 71116	DM2	77 11 16	2104	05	26 24 56 N	83 23 01 W
210405 80218	DM4	78 02 18	2104	05	26 25 05 N	83 22 59 W
210406 50529	10	75 05 29	2104	06	26 24 59 N	83 23 00 W
210406 50915	21	75 09 15	2104	06	26 25 00 N	83 23 00 W
210406 60126	29	76 01 26	2104	06	26 25 01 N	83 23 01 W
210406 60626	39	76 06 26	2104	06	26 25 00 N	83 23 01 W
210406 70822	DM1	77 08 22	2104	06	26 24 57 N	83 22 55 W
210406 71115	DM2	77 11 16	2104	06	26 24 56 N	83 23 01 W
210406 71116	DM2	77 11 16	2104	06	26 24 56 N	83 23 01 W
210406 80218	DM4	78 02 18	2104	06	26 25 05 N	83 22 59 W
210407 50529	10	75 05 29	2104	07	26 24 59 N	83 23 00 W
210407 50915	21	75 09 15	2104	07	26 25 00 N	83 23 00 W
210407 60126	29	76 01 26	2104	07	26 25 01 N	83 23 01 W
210407 60626	39	76 06 26	2104	07	26 25 00 N	83 23 01 W
210407 7082	DM1	77 08 22	2104	07	26 24 57 N	83 22 55 W
210407 70822	DM1	77 08 22	2104	07	26 24 57 N	83 22 55 W
210407 71116	DM2	77 11 16	2104	07	26 24 56 N	83 23 01 W
210407 80218	DM4	78 02 18	2104	07	26 25 05 N	83 22 59 W
210408 50529	10	75 05 29	2104	08	26 24 59 N	83 23 00 W
210408 50915	21	75 09 15	2104	08	26 25 00 N	83 23 00 W
210408 60126	29	76 01 26	2104	08	26 25 01 N	83 23 01 W
210408 60626	39	76 06 26	2104	08	26 25 00 N	83 23 01 W
210408 70822	DM1	77 08 22	2104	08	26 24 57 N	83 22 55 W
210408 71116	DM2	77 11 16	2104	08	26 24 56 N	83 23 01 W
210408 80218	DM4	78 02 18	2104	08	26 25 05 N	83 22 59 W
210409 50529	10	75 05 29	2104	09	26 24 59 N	83 23 00 W
210409 50915	21	75 09 15	2104	09	26 25 00 N	83 23 00 W
210409 60126	29	76 01 26	2104	09	26 25 01 N	83 23 01 W
210409 60626	39	76 06 26	2104	09	26 25 00 N	83 23 01 W
210409 70822	DM1	77 08 22	2104	09	26 24 57 N	83 22 55 W
210409 71116	DM2	77 11 16	2104	09	26 24 56 N	83 23 01 W
210409 80218	DM4	78 02 18	2104	09	26 25 05 N	83 22 59 W
210410 60626	39	76 06 26	2104	10	26 25 00 N	83 23 01 W
210410 70822	DM1	77 08 22	2104	10	26 24 57 N	83 22 55 W
210410 71116	DM2	77 11 16	2104	10	26 24 56 N	83 23 01 W
210410 80218	DM4	78 02 18	2104	10	26 25 05 N	83 22 59 W
210411 50529	10	75 05 29	2104	11	26 24 59 N	83 23 00 W
210411 50915	21	75 09 15	2104	11	26 25 00 N	83 23 00 W
210411 60126	29	76 01 26	2104	11	26 25 01 N	83 23 01 W
210411 60626	39	76 06 26	2104	11	26 25 00 N	83 23 01 W
210411 70822	DM1	77 08 22	2104	11	26 24 57 N	83 22 55 W
210411 71116	DM2	77 11 16	2104	11	26 24 56 N	83 23 01 W
210411 80218	DM4	78 02 18	2104	11	26 25 05 N	83 22 59 W
210412 60626	39	76 06 26	2104	12	26 25 00 N	83 23 01 W
210413 60626	39	76 06 26	2104	13	26 25 00 N	83 23 01 W
210414 60626	39	76 06 26	2104	14	26 25 00 N	83 23 01 W
210415 60626	39	76 06 26	2104	15	26 25 00 N	83 23 01 W
210416 60626	39	76 06 26	2104	16	26 25 00 N	83 23 01 W
210450 70822	DM1	77 08 22	2104	50	26 24 57 N	83 22 55 W
210450 71116	DM2	77 11 16	2104	50	26 24 56 N	83 23 01 W
210450 80218	DM4	78 02 18	2104	50	26 25 05 N	83 22 59 W
210468 71116	DM2	77 11 16	2104	68	26 24 56 N	83 23 01 W
210473 71116	DM2	77 11 16	2104	73	26 24 56 N	83 23 01 W
210500 50727	15	75 07 28	2105	00	26 25 00 N	83 50 00 W
210500 50728	15	75 07 28	2105	00	26 25 00 N	83 50 00 W
210500 51022	22	75 10 22	2105	00	26 23 54 N	83 51 00 W
210500 60228	33	76 02 28	2105	00	26 24 00 N	83 50 00 W
210501 50529	10	75 05 29	2105	01	26 24 59 N	83 49 59 W
210501 50916	21	75 09 15	2105	01	26 25 00 N	83 50 00 W
210501 60126	29	76 01 26	2105	01	26 25 01 N	83 49 59 W
210501 60627	39	76 06 27	2105	01	26 25 00 N	83 49 59 W
210501 70821	DM1	77 08 21	2105	01	26 25 00 N	83 49 58 W
210501 70822	DM1	77 08 21	2105	01	26 25 00 N	83 49 58 W
210501 71115	DM2	77 11 16	2105	01	26 24 58 N	83 49 58 W
210501 71116	DM2	77 11 16	2105	01	26 24 58 N	83 49 58 W
210501 80218	DM4	78 02 18	2105	01	26 25 03 N	83 50 01 W
210502 50529	10	75 05 29	2105	02	26 24 59 N	83 49 59 W
210502 50916	21	75 09 15	2105	02	26 25 00 N	83 50 00 W
210502 60126	29	76 01 26	2105	02	26 25 01 N	83 49 59 W
210502 60627	39	76 06 27	2105	02	26 25 00 N	83 49 59 W
210503 50529	10	75 05 29	2105	03	26 24 59 N	83 49 59 W
210503 50916	21	75 09 15	2105	03	26 25 00 N	83 50 00 W
210503 60126	29	76 01 26	2105	03	26 25 01 N	83 49 59 W
210503 60627	39	76 06 27	2105	03	26 25 00 N	83 49 59 W
210503 71116	DM2	77 11 16	2105	01	26 24 58 N	83 49 58 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
210504	50529	10	75 05 29	2105	04	26 24 59 N	83 49 59 W
210504	50916	21	75 09 15	2105	04	26 25 00 N	83 50 00 W
210504	60126	29	76 01 26	2105	04	26 25 01 N	83 49 59 W
210504	60627	39	76 06 27	2105	04	26 25 00 N	83 49 59 W
210505	50529	10	75 05 29	2105	05	26 24 59 N	83 49 59 W
210505	50916	21	75 09 15	2105	05	26 25 00 N	83 50 00 W
210505	60126	29	76 01 26	2105	05	26 25 01 N	83 49 59 W
210505	60627	39	76 06 27	2105	05	26 25 00 N	83 49 59 W
210506	50529	10	75 05 29	2105	06	26 24 59 N	83 49 59 W
210506	50916	21	75 09 15	2105	06	26 25 00 N	83 50 00 W
210506	60126	29	76 01 26	2105	06	26 25 01 N	83 49 59 W
210506	60627	39	76 06 27	2105	06	26 25 00 N	83 49 59 W
210507	50529	10	75 05 29	2105	07	26 24 59 N	83 49 59 W
210507	50916	21	75 09 15	2105	07	26 25 00 N	83 50 00 W
210507	60126	29	76 01 26	2105	07	26 25 01 N	83 49 59 W
210507	60627	39	76 06 27	2105	07	26 25 00 N	83 49 59 W
210508	50529	10	75 05 29	2105	08	26 24 59 N	83 49 59 W
210508	50916	21	75 09 15	2105	08	26 25 00 N	83 50 00 W
210508	60126	29	76 01 26	2105	08	26 25 01 N	83 49 59 W
210508	60627	39	76 06 27	2105	08	26 25 00 N	83 49 59 W
210509	50529	10	75 05 29	2105	09	26 24 59 N	83 49 59 W
210509	50916	21	75 09 15	2105	09	26 25 00 N	83 50 00 W
210509	60126	29	76 01 26	2105	09	26 25 01 N	83 49 59 W
210509	60627	39	76 06 27	2105	09	26 25 00 N	83 49 59 W
210510	60627	39	76 06 27	2105	10	26 25 00 N	83 49 59 W
210511	50529	10	75 05 29	2105	11	26 24 59 N	83 49 59 W
210511	50916	21	75 09 15	2105	11	26 25 00 N	83 50 00 W
210511	60126	29	76 01 26	2105	11	26 25 01 N	83 49 59 W
210511	60627	39	76 06 27	2105	11	26 25 00 N	83 49 59 W
210512	60627	39	76 06 27	2105	12	26 25 00 N	83 49 59 W
210513	60627	39	76 06 27	2105	13	26 25 00 N	83 49 59 W
210514	60627	39	76 06 27	2105	14	26 25 00 N	83 49 59 W
210515	60627	39	76 06 27	2105	15	26 25 00 N	83 49 59 W
210516	60627	39	76 06 27	2105	16	26 25 00 N	83 49 59 W
210517	10821	DM1	77 08 21	2105	17	26 25 00 N	83 49 56 W
210517	50601	15	75 07 28	2105	17	26 25 00 N	83 50 00 W
210517	50728	15	75 07 28	2105	17	26 25 00 N	83 50 00 W
210517	51001	22	75 10 22	2105	17	26 23 54 N	83 51 00 W
210517	51022	22	75 10 22	2105	17	26 23 54 N	83 51 00 W
210517	60201	33	76 02 28	2105	17	26 24 00 N	83 50 00 W
210517	60228	33	76 02 28	2105	17	26 24 00 N	83 50 00 W
210517	60715	46	76 07 16	2105	17	26 24 34 N	83 49 32 W
210517	60716	46	76 07 16	2105	17	26 24 34 N	83 49 32 W
210517	70821	DM1	77 08 21	2105	17	26 25 00 N	83 49 56 W
210517	71025	DM2	77 10 25	2105	17	26 24 57 N	83 49 59 W
210517	71029	DM2	77 10 25	2105	17	26 24 57 N	83 49 59 W
210517	80202	DM4	78 02 02	2105	17	26 24 58 N	83 49 57 W
210518	50727	15	75 07 28	2105	18	26 25 00 N	83 50 00 W
210518	51022	22	75 10 22	2105	18	26 23 54 N	83 51 00 W
210518	60228	33	76 02 28	2105	18	26 24 00 N	83 50 00 W
210518	60630	46	76 07 15	2105	18	26 24 34 N	83 49 32 W
210518	60713	46	76 07 16	2105	18	26 24 34 N	83 49 32 W
210518	60715	46	76 07 16	2105	18	26 24 34 N	83 49 32 W
210518	60716	46	76 07 16	2105	18	26 24 34 N	83 49 32 W
210518	70715	46	76 07 15	2105	18	26 24 34 N	83 49 32 W
210518	70821	DM1	77 08 21	2105	18	26 25 00 N	83 49 56 W
210518	70822	DM1	77 08 21	2105	18	26 25 00 N	83 49 56 W
210518	70823	DM1	77 08 21	2105	18	26 25 00 N	83 49 56 W
210518	71025	DM2	77 10 25	2105	18	26 24 57 N	83 49 59 W
210518	80202	DM4	78 02 02	2105	18	26 24 58 N	83 49 57 W
210518	80205	DM4	78 02 02	2105	18	26 24 58 N	83 49 57 W
210519	60715	46	76 07 16	2105	19	26 24 34 N	83 49 32 W
210519	60716	46	76 07 16	2105	19	26 24 34 N	83 49 32 W
210519	70821	DM1	77 08 21	2105	19	26 25 00 N	83 49 56 W
210519	70822	DM1	77 08 21	2105	19	26 25 00 N	83 49 56 W
210519	71025	DM2	77 10 25	2105	19	26 24 57 N	83 49 59 W
210519	80202	DM4	78 02 02	2105	19	26 24 58 N	83 49 57 W
210519	80205	DM4	78 02 02	2105	19	26 24 58 N	83 49 57 W
210519	80208	DM4	78 02 02	2105	19	26 24 58 N	83 49 57 W
210530	60615	46	76 07 15	2105	30	26 24 34 N	83 49 32 W
210530	60715	46	76 07 16	2105	30	26 24 34 N	83 49 32 W
210530	60716	46	76 07 16	2105	30	26 24 34 N	83 49 32 W
210530	71025	DM2	77 10 25	2105	30	26 24 57 N	83 49 59 W
210540	60716	46	76 07 16	2105	40	26 24 34 N	83 49 32 W
210540	71025	DM2	77 10 25	2105	40	26 24 57 N	83 49 59 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
210550	70821	DM1	77 08 21	2105	50	26 25 00 N	83 49 58 W
210550	71025	DM2	77 10 25	2105	50	26 24 57 N	83 49 59 W
210550	71116	DM2	77 11 16	2105	50	26 24 58 N	83 49 58 W
210550	80202	DM4	78 02 02	2105	50	26 24 58 N	83 49 57 W
210550	80218	DM4	78 02 18	2105	50	26 25 03 N	83 50 01 W
210568	71116	DM2	77 11 16	2105	68	26 24 58 N	83 49 58 W
210601	50529	10	75 05 29	2106	01	26 24 58 N	84 15 04 W
210601	50916	21	75 09 16	2106	01	26 25 00 N	84 15 00 W
210601	60127	29	76 01 26	2106	01	26 24 57 N	84 14 59 W
210601	60627	39	76 06 27	2106	01	26 24 55 N	84 15 02 W
210601	70820	DM1	77 08 21	2106	01	26 25 03 N	84 14 55 W
210601	70821	DM1	77 08 21	2106	01	26 25 03 N	84 14 55 W
210601	71115	DM2	77 11 15	2106	01	26 25 00 N	84 15 01 W
210601	80217	DM4	78 02 17	2106	01	26 24 57 N	84 15 04 W
210602	50529	10	75 05 29	2106	02	26 24 58 N	84 15 04 W
210602	50916	21	75 09 16	2106	02	26 25 00 N	84 15 00 W
210602	60127	29	76 01 26	2106	02	26 24 57 N	84 14 59 W
210602	60627	39	76 06 27	2106	02	26 24 55 N	84 15 02 W
210602	70821	DM1	77 08 21	2106	02	26 25 03 N	84 14 55 W
210602	71115	DM2	77 11 15	2106	02	26 25 00 N	84 15 01 W
210602	80217	DM4	78 02 17	2106	02	26 24 57 N	84 15 04 W
210603	50529	10	75 05 29	2106	03	26 24 58 N	84 15 04 W
210603	50916	21	75 09 16	2106	03	26 25 00 N	84 15 00 W
210603	60127	29	76 01 26	2106	03	26 24 57 N	84 14 59 W
210603	60627	39	76 06 27	2106	03	26 24 55 N	84 15 02 W
210603	70821	DM1	77 08 21	2106	03	26 25 03 N	84 14 55 W
210603	71115	DM2	77 11 15	2106	03	26 25 00 N	84 15 01 W
210603	80217	DM4	78 02 17	2106	03	26 24 57 N	84 15 04 W
210604	50529	10	75 05 29	2106	04	26 24 58 N	84 15 04 W
210604	50916	21	75 09 16	2106	04	26 25 00 N	84 15 00 W
210604	60127	29	76 01 26	2106	04	26 24 57 N	84 14 59 W
210604	60627	39	76 06 27	2106	04	26 24 55 N	84 15 02 W
210604	70821	DM1	77 08 21	2106	04	26 25 03 N	84 14 55 W
210604	71115	DM2	77 11 15	2106	04	26 25 00 N	84 15 01 W
210604	80217	DM4	78 02 17	2106	04	26 24 57 N	84 15 04 W
210605	50529	10	75 05 29	2106	05	26 24 58 N	84 15 04 W
210605	50916	21	75 09 16	2106	05	26 25 00 N	84 15 00 W
210605	60127	29	76 01 26	2106	05	26 24 57 N	84 14 59 W
210605	60627	39	76 06 27	2106	05	26 24 55 N	84 15 02 W
210605	70821	DM1	77 08 21	2106	05	26 25 03 N	84 14 55 W
210605	71115	DM2	77 11 15	2106	05	26 25 00 N	84 15 01 W
210605	80217	DM4	78 02 17	2106	05	26 24 57 N	84 15 04 W
210606	50529	10	75 05 29	2106	06	26 24 58 N	84 15 04 W
210606	50916	21	75 09 16	2106	06	26 25 00 N	84 15 00 W
210606	60127	29	76 01 26	2106	06	26 24 57 N	84 14 59 W
210606	60627	39	76 06 27	2106	06	26 24 55 N	84 15 02 W
210606	70821	DM1	77 08 21	2106	06	26 25 03 N	84 14 55 W
210606	71115	DM2	77 11 15	2106	06	26 25 00 N	84 15 01 W
210606	80217	DM4	78 02 17	2106	06	26 24 57 N	84 15 04 W
210607	50529	10	75 05 29	2106	07	26 24 58 N	84 15 04 W
210607	50916	21	75 09 16	2106	07	26 25 00 N	84 15 00 W
210607	60127	29	76 01 26	2106	07	26 24 57 N	84 14 59 W
210607	60627	39	76 06 27	2106	07	26 24 55 N	84 15 02 W
210607	70821	DM1	77 08 21	2106	07	26 25 03 N	84 14 55 W
210607	71115	DM2	77 11 15	2106	07	26 25 00 N	84 15 01 W
210607	80217	DM4	78 02 17	2106	07	26 24 57 N	84 15 04 W
210608	50529	10	75 05 29	2106	08	26 24 58 N	84 15 04 W
210608	50916	21	75 09 16	2106	08	26 25 00 N	84 15 00 W
210608	60127	29	76 01 26	2106	08	26 24 57 N	84 14 59 W
210608	60627	39	76 06 27	2106	08	26 24 55 N	84 15 02 W
210608	70821	DM1	77 08 21	2106	08	26 25 03 N	84 14 55 W
210608	71115	DM2	77 11 15	2106	08	26 25 00 N	84 15 01 W
210608	80217	DM4	78 02 17	2106	08	26 24 57 N	84 15 04 W
210609	50529	10	75 05 29	2106	09	26 24 58 N	84 15 04 W
210609	50916	21	75 09 16	2106	09	26 25 00 N	84 15 00 W
210609	60127	29	76 01 26	2106	09	26 24 57 N	84 14 59 W
210609	60627	39	76 06 27	2106	09	26 24 55 N	84 15 02 W
210609	70821	DM1	77 08 21	2106	09	26 25 03 N	84 14 55 W
210609	71115	DM2	77 11 15	2106	09	26 25 00 N	84 15 01 W
210609	80217	DM4	78 02 17	2106	09	26 24 57 N	84 15 04 W
210610	60627	39	76 06 27	2106	10	26 24 55 N	84 15 02 W
210610	70821	DM1	77 08 21	2106	10	26 25 03 N	84 14 55 W
210610	71115	DM2	77 11 15	2106	10	26 25 00 N	84 15 01 W
210610	80217	DM4	78 02 17	2106	10	26 24 57 N	84 15 04 W
210611	50529	10	75 05 29	2106	11	26 24 58 N	84 15 04 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
210611	50916	21	75 09 16	2106	11	26 25 00 N	84 15 00 W
210611	60127	29	76 01 26	2106	11	26 24 57 N	84 14 59 W
210611	60627	39	76 06 27	2106	11	26 24 55 N	84 15 02 W
210611	70821	DM1	77 08 21	2106	11	26 25 03 N	84 14 55 W
210611	71115	DM2	77 11 15	2106	11	26 25 00 N	84 15 01 W
210611	80217	DM4	78 02 17	2106	11	26 24 57 N	84 15 04 W
210612	60627	39	76 06 27	2106	12	26 24 55 N	84 15 02 W
210613	60626	39	76 06 27	2106	13	26 24 55 N	84 15 02 W
210613	60627	39	76 06 27	2106	13	26 24 55 N	84 15 02 W
210614	60627	39	76 06 27	2106	14	26 24 55 N	84 15 02 W
210615	60627	39	76 06 27	2106	15	26 24 55 N	84 15 02 W
210616	60627	39	76 06 27	2106	16	26 24 55 N	84 15 02 W
210617	70820	DM1	77 08 21	2106	17	26 25 03 N	84 14 55 W
210617	70821	DM1	77 08 21	2106	17	26 25 03 N	84 14 55 W
210617	70908	DM1	77 08 21	2106	17	26 25 03 N	84 14 55 W
210618	70821	DM1	77 08 21	2106	18	26 25 03 N	84 14 55 W
210618	70826	DM1	77 08 21	2106	18	26 25 03 N	84 14 55 W
210619	70802	DM1	77 08 21	2106	19	26 25 03 N	84 14 55 W
210619	70821	DM1	77 08 21	2106	19	26 25 03 N	84 14 55 W
210619	70822	DM1	77 08 21	2106	19	26 25 03 N	84 14 55 W
210619	70826	DM1	77 08 21	2106	19	26 25 03 N	84 14 55 W
210650	70820	DM1	77 08 20	2106	50	26 25 03 N	84 14 55 W
210650	71115	DM2	77 11 15	2106	50	26 25 00 N	84 15 01 W
210650	80217	DM4	78 02 17	2106	50	26 24 57 N	84 15 04 W
210668	71115	DM2	77 11 15	2106	68	26 25 00 N	84 15 01 W
210673	71115	DM2	77 11 15	2106	73	26 25 00 N	84 15 01 W
220701	50722	14	75 07 22	2207	01	27 56 59 N	83 09 00 W
220701	50916	21	75 09 16	2207	01	27 57 00 N	83 09 00 W
220701	60129	29	76 01 29	2207	01	27 57 00 N	83 08 58 W
220701	60629	39	76 06 29	2207	01	27 56 59 N	83 08 59 W
220701	70826	DM1	77 08 26	2207	01	27 56 54 N	83 09 01 W
220701	71112	DM2	77 11 12	2207	01	27 57 00 N	83 08 59 W
220701	80216	DM4	78 02 16	2207	01	27 57 04 N	83 09 09 W
220702	50722	14	75 07 22	2207	02	27 56 59 N	83 09 00 W
220702	50916	21	75 09 16	2207	02	27 57 00 N	83 09 00 W
220702	60129	29	76 01 29	2207	02	27 57 00 N	83 08 58 W
220702	60629	39	76 06 29	2207	02	27 56 59 N	83 08 59 W
220702	70826	DM1	77 08 26	2207	02	27 56 54 N	83 09 01 W
220702	71112	DM2	77 11 12	2207	02	27 57 00 N	83 08 59 W
220702	80216	DM4	78 02 16	2207	02	27 57 04 N	83 09 09 W
220703	50722	14	75 07 22	2207	03	27 56 59 N	83 09 00 W
220703	50916	21	75 09 16	2207	03	27 57 00 N	83 09 00 W
220703	60129	29	76 01 29	2207	03	27 57 00 N	83 08 58 W
220703	60629	39	76 06 29	2207	03	27 56 59 N	83 08 59 W
220703	70826	DM1	77 08 26	2207	03	27 56 54 N	83 09 01 W
220703	71112	DM2	77 11 12	2207	03	27 57 00 N	83 08 59 W
220703	80216	DM4	78 02 16	2207	03	27 57 04 N	83 09 09 W
220704	50722	14	75 07 22	2207	04	27 56 59 N	83 09 00 W
220704	50916	21	75 09 16	2207	04	27 57 00 N	83 09 00 W
220704	60129	29	76 01 29	2207	04	27 57 00 N	83 08 58 W
220704	60629	39	76 06 29	2207	04	27 56 59 N	83 08 59 W
220704	70826	DM1	77 08 26	2207	04	27 56 54 N	83 09 01 W
220704	71112	DM2	77 11 12	2207	04	27 57 00 N	83 08 59 W
220704	80216	DM4	78 02 16	2207	04	27 57 04 N	83 09 09 W
220705	50722	14	75 07 22	2207	05	27 56 59 N	83 09 00 W
220705	50916	21	75 09 16	2207	05	27 57 00 N	83 09 00 W
220705	60129	29	76 01 29	2207	05	27 57 00 N	83 08 58 W
220705	60629	39	76 06 29	2207	05	27 56 59 N	83 08 59 W
220705	70826	DM1	77 08 26	2207	05	27 56 54 N	83 09 01 W
220705	71112	DM2	77 11 12	2207	05	27 57 00 N	83 08 59 W
220705	80216	DM4	78 02 16	2207	05	27 57 04 N	83 09 09 W
220706	50722	14	75 07 22	2207	06	27 56 59 N	83 09 00 W
220706	50916	21	75 09 16	2207	06	27 57 00 N	83 09 00 W
220706	60129	29	76 01 29	2207	06	27 57 00 N	83 08 58 W
220706	60629	39	76 06 29	2207	06	27 56 59 N	83 08 59 W
220706	70826	DM1	77 08 26	2207	06	27 56 54 N	83 09 01 W
220706	71112	DM2	77 11 12	2207	06	27 57 00 N	83 08 59 W
220706	80216	DM4	78 02 16	2207	06	27 57 04 N	83 09 09 W
220707	50722	14	75 07 22	2207	07	27 56 59 N	83 09 00 W
220707	50916	21	75 09 16	2207	07	27 57 00 N	83 09 00 W
220707	60129	29	76 01 29	2207	07	27 57 00 N	83 08 58 W
220707	60629	39	76 06 29	2207	07	27 56 59 N	83 08 59 W
220707	70826	DM1	77 08 26	2207	07	27 56 54 N	83 09 01 W
220707	71112	DM2	77 11 12	2207	07	27 57 00 N	83 08 59 W
220707	80216	DM4	78 02 16	2207	07	27 57 04 N	83 09 09 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
220708 50722	14	75 07 22	2207	08	27 56 59 N	83 09 00 W
220708 50916	21	75 09 16	2207	08	27 57 00 N	83 09 00 W
220708 60129	29	76 01 29	2207	08	27 57 00 N	83 08 58 W
220708 60629	39	76 06 29	2207	08	27 56 59 N	83 08 59 W
220708 70826	DM1	77 08 26	2207	08	27 56 54 N	83 09 01 W
220708 71112	DM2	77 11 12	2207	08	27 57 00 N	83 08 59 W
220708 80216	DM4	78 02 16	2207	08	27 57 04 N	83 09 09 W
220709 50722	14	75 07 22	2207	09	27 56 59 N	83 09 00 W
220709 50916	21	75 09 16	2207	09	27 57 00 N	83 09 00 W
220709 60129	29	76 01 29	2207	09	27 57 00 N	83 08 58 W
220709 60629	39	76 06 29	2207	09	27 56 59 N	83 08 59 W
220709 70826	DM1	77 08 26	2207	09	27 56 54 N	83 09 01 W
220709 71112	DM2	77 11 12	2207	09	27 57 00 N	83 08 59 W
220709 80216	DM4	78 02 16	2207	09	27 57 04 N	83 09 09 W
220710 60629	39	76 06 29	2207	10	27 56 59 N	83 08 59 W
220710 70826	DM1	77 08 26	2207	10	27 56 54 N	83 09 01 W
220710 71112	DM2	77 11 12	2207	10	27 57 00 N	83 08 59 W
220710 80216	DM4	78 02 16	2207	10	27 57 04 N	83 09 09 W
220711 50722	14	75 07 22	2207	11	27 56 59 N	83 09 00 W
220711 50916	21	75 09 16	2207	11	27 57 00 N	83 09 00 W
220711 60129	29	76 01 29	2207	11	27 57 00 N	83 08 58 W
220711 60629	39	76 06 29	2207	11	27 56 59 N	83 08 59 W
220711 70826	DM1	77 08 26	2207	11	27 56 54 N	83 09 01 W
220711 71112	DM2	77 11 12	2207	11	27 57 00 N	83 08 59 W
220711 80216	DM4	78 02 16	2207	11	27 57 04 N	83 09 09 W
220712 60629	39	76 06 29	2207	12	27 56 59 N	83 08 59 W
220713 60629	39	76 06 29	2207	13	27 56 59 N	83 08 59 W
220714 60629	39	76 06 29	2207	14	27 56 59 N	83 08 59 W
220715 60629	39	76 06 29	2207	15	27 56 59 N	83 08 59 W
220716 60629	39	76 06 29	2207	16	27 56 59 N	83 08 59 W
220750 70826	DM1	77 08 26	2207	50	27 56 54 N	83 09 01 W
220750 71112	DM2	77 11 12	2207	50	27 57 00 N	83 08 59 W
220750 80216	DM4	78 02 16	2207	50	27 57 04 N	83 09 09 W
220768 71112	DM2	77 11 12	2207	68	27 57 00 N	83 08 59 W
220773 71112	DM2	77 11 12	2207	73	27 57 00 N	83 08 59 W
220801 40628	2	74 06 17	2208	01	27 56 00 N	83 27 29 W
220801 50722	14	75 07 22	2208	01	27 55 57 N	83 27 32 W
220801 50916	21	75 09 16	2208	01	27 56 00 N	83 27 30 W
220801 60129	29	76 01 29	2208	01	27 56 00 N	83 27 31 W
220801 60629	39	76 06 29	2208	01	27 56 00 N	83 27 29 W
220801 70826	DM1	77 08 26	2208	01	27 55 58 N	83 27 34 W
220801 71112	DM2	77 11 12	2208	01	27 55 55 N	83 27 28 W
220801 80216	DM4	78 02 16	2208	01	27 56 00 N	83 27 33 W
220802 40628	2	74 06 17	2208	02	27 56 00 N	83 27 29 W
220802 50722	14	75 07 22	2208	02	27 55 57 N	83 27 32 W
220802 50916	21	75 09 16	2208	02	27 56 00 N	83 27 30 W
220802 60129	29	76 01 29	2208	02	27 56 00 N	83 27 31 W
220802 60629	39	76 06 29	2208	02	27 56 00 N	83 27 29 W
220802 70826	DM1	77 08 26	2208	02	27 55 58 N	83 27 34 W
220802 71112	DM2	77 11 12	2208	02	27 55 55 N	83 27 28 W
220802 80216	DM4	78 02 16	2208	02	27 56 00 N	83 27 33 W
220803 50722	14	75 07 22	2208	03	27 55 57 N	83 27 32 W
220803 50916	21	75 09 16	2208	03	27 56 00 N	83 27 30 W
220803 60129	29	76 01 29	2208	03	27 56 00 N	83 27 31 W
220803 60629	39	76 06 29	2208	03	27 56 00 N	83 27 29 W
220803 70826	DM1	77 08 26	2208	03	27 55 58 N	83 27 34 W
220803 71112	DM2	77 11 12	2208	03	27 55 55 N	83 27 28 W
220803 80216	DM4	78 02 16	2208	03	27 56 00 N	83 27 33 W
220803 80217	DM4	78 02 16	2208	03	27 56 00 N	83 27 33 W
220804 50722	14	75 07 22	2208	04	27 55 57 N	83 27 32 W
220804 50916	21	75 09 16	2208	04	27 56 00 N	83 27 30 W
220804 60129	29	76 01 29	2208	04	27 56 00 N	83 27 31 W
220804 60629	39	76 06 29	2208	04	27 56 00 N	83 27 29 W
220804 70826	DM1	77 08 26	2208	04	27 55 58 N	83 27 34 W
220804 80216	DM4	78 02 16	2208	04	27 56 00 N	83 27 33 W
220804 80217	DM4	78 02 16	2208	04	27 56 00 N	83 27 33 W
220805 50722	14	75 07 22	2208	05	27 55 57 N	83 27 32 W
220805 50916	21	75 09 16	2208	05	27 56 00 N	83 27 30 W
220805 60129	29	76 01 29	2208	05	27 56 00 N	83 27 31 W
220805 60629	39	76 06 29	2208	05	27 56 00 N	83 27 29 W
220805 70826	DM1	77 08 26	2208	05	27 55 58 N	83 27 34 W
220805 80216	DM4	78 02 16	2208	05	27 56 00 N	83 27 33 W
220805 80217	DM4	78 02 16	2208	05	27 56 00 N	83 27 33 W
220806 50722	14	75 07 22	2208	06	27 55 57 N	83 27 32 W
220806 50916	21	75 09 16	2208	06	27 56 00 N	83 27 30 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
220806 60129	29	76 01 29	2208	06	27 56 00 N	83 27 31 W
220806 60629	39	76 06 29	2208	06	27 56 00 N	83 27 29 W
220806 70826	DM1	77 08 26	2208	06	27 55 58 N	83 27 34 W
220806 80216	DM4	78 02 16	2208	06	27 56 00 N	83 27 33 W
220806 80217	DM4	78 02 16	2208	06	27 56 00 N	83 27 33 W
220807 50722	14	75 07 22	2208	07	27 55 57 N	83 27 32 W
220807 50916	21	75 09 16	2208	07	27 56 00 N	83 27 30 W
220807 60129	29	76 01 29	2208	07	27 56 00 N	83 27 31 W
220807 60629	39	76 06 29	2208	07	27 56 00 N	83 27 29 W
220807 70826	DM1	77 08 26	2208	07	27 55 58 N	83 27 34 W
220807 80216	DM4	78 02 16	2208	07	27 56 00 N	83 27 33 W
220808 40616	2	74 06 17	2208	08	27 56 00 N	83 27 29 W
220808 50722	14	75 07 22	2208	08	27 55 57 N	83 27 32 W
220808 50916	21	75 09 16	2208	08	27 56 00 N	83 27 30 W
220808 60129	29	76 01 29	2208	08	27 56 00 N	83 27 31 W
220808 60629	39	76 06 29	2208	08	27 56 00 N	83 27 29 W
220808 70826	DM1	77 08 26	2208	08	27 55 58 N	83 27 34 W
220808 80216	DM4	78 02 16	2208	08	27 56 00 N	83 27 33 W
220809 50722	14	75 07 22	2208	09	27 55 57 N	83 27 32 W
220809 50916	21	75 09 16	2208	09	27 56 00 N	83 27 30 W
220809 60129	29	76 01 29	2208	09	27 56 00 N	83 27 31 W
220809 60629	39	76 06 29	2208	09	27 56 00 N	83 27 29 W
220809 70826	DM1	77 08 26	2208	09	27 55 58 N	83 27 34 W
220809 80216	DM4	78 02 16	2208	09	27 56 00 N	83 27 33 W
220810 60629	39	76 06 29	2208	10	27 56 00 N	83 27 29 W
220810 70826	DM1	77 08 26	2208	10	27 55 58 N	83 27 34 W
220810 80216	DM4	78 02 16	2208	10	27 56 00 N	83 27 33 W
220811 50722	14	75 07 22	2208	11	27 55 57 N	83 27 32 W
220811 50916	21	75 09 16	2208	11	27 56 00 N	83 27 30 W
220811 60129	29	76 01 29	2208	11	27 56 00 N	83 27 31 W
220811 60629	39	76 06 29	2208	11	27 56 00 N	83 27 29 W
220811 70826	DM1	77 08 26	2208	11	27 55 58 N	83 27 34 W
220811 80216	DM4	78 02 16	2208	11	27 56 00 N	83 27 33 W
220812 60629	39	76 06 29	2208	12	27 56 00 N	83 27 29 W
220813 60629	39	76 06 29	2208	13	27 56 00 N	83 27 29 W
220814 60629	39	76 06 29	2208	14	27 56 00 N	83 27 29 W
220815 60629	39	76 06 29	2208	15	27 56 00 N	83 27 29 W
220816 60629	39	76 06 29	2208	16	27 56 00 N	83 27 29 W
220850 70826	DM1	77 08 26	2208	50	27 55 58 N	83 27 34 W
220850 71112	DM2	77 11 12	2208	50	27 55 55 N	83 27 28 W
220850 80216	DM4	78 02 16	2208	50	27 56 00 N	83 27 33 W
220868 71112	DM2	77 11 12	2208	68	27 55 55 N	83 27 28 W
220873 71112	DM2	77 11 12	2208	73	27 55 55 N	83 27 28 W
220901 40628	2	74 06 17	2209	01	27 52 31 N	83 33 56 W
220901 50722	14	75 07 22	2209	01	27 52 30 N	83 34 00 W
220901 50917	21	75 09 16	2209	01	27 52 30 N	83 34 00 W
220901 60129	29	76 01 29	2209	01	27 52 30 N	83 33 59 W
220901 60629	39	76 06 29	2209	01	27 52 30 N	83 33 57 W
220901 70825	DM1	77 08 26	2209	01	27 52 35 N	83 34 07 W
220901 70826	DM1	77 08 26	2209	01	27 52 35 N	83 34 07 W
220901 71113	DM2	77 11 13	2209	01	27 52 26 N	83 34 00 W
220901 80216	DM4	78 02 16	2209	01	27 52 30 N	83 34 02 W
220902 40628	2	74 06 17	2209	02	27 52 31 N	83 33 56 W
220902 50722	14	75 07 22	2209	02	27 52 30 N	83 34 00 W
220902 50917	21	75 09 16	2209	02	27 52 30 N	83 34 00 W
220902 60129	29	76 01 29	2209	02	27 52 30 N	83 33 59 W
220902 60629	39	76 06 29	2209	02	27 52 30 N	83 33 57 W
220902 70825	DM1	77 08 26	2209	02	27 52 35 N	83 34 07 W
220902 70826	DM1	77 08 26	2209	02	27 52 35 N	83 34 07 W
220902 71113	DM2	77 11 13	2209	02	27 52 26 N	83 34 00 W
220902 80216	DM4	78 02 16	2209	02	27 52 30 N	83 34 02 W
220903 50722	14	75 07 22	2209	03	27 52 30 N	83 34 00 W
220903 50917	21	75 09 16	2209	03	27 52 30 N	83 34 00 W
220903 60129	29	76 01 29	2209	03	27 52 30 N	83 33 59 W
220903 60629	39	76 06 29	2209	03	27 52 30 N	83 33 57 W
220903 70826	DM1	77 08 26	2209	03	27 52 35 N	83 34 07 W
220903 71113	DM2	77 11 13	2209	03	27 52 26 N	83 34 00 W
220903 80216	DM4	78 02 16	2209	03	27 52 30 N	83 34 02 W
220904 50722	14	75 07 22	2209	04	27 52 30 N	83 34 00 W
220904 50917	21	75 09 16	2209	04	27 52 30 N	83 34 00 W
220904 60129	29	76 01 29	2209	04	27 52 30 N	83 33 59 W
220904 60629	39	76 06 29	2209	04	27 52 30 N	83 33 57 W
220904 70826	DM1	77 08 26	2209	04	27 52 35 N	83 34 07 W
220904 71113	DM2	77 11 13	2209	04	27 52 26 N	83 34 00 W
220904 80216	DM4	78 02 16	2209	04	27 52 30 N	83 34 02 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
220905 50722	14	75 07 22	2209	05	27 52 30 N	83 34 00 W
220905 50917	21	75 09 16	2209	05	27 52 30 N	83 34 00 W
220905 60129	29	76 01 29	2209	05	27 52 30 N	83 33 59 W
220905 60629	39	76 06 29	2209	05	27 52 30 N	83 33 57 W
220905 70826	DM1	77 08 26	2209	05	27 52 35 N	83 34 07 W
220905 71113	DM2	77 11 13	2209	05	27 52 26 N	83 34 00 W
220905 80216	DM4	78 02 16	2209	05	27 52 30 N	83 34 02 W
220906 50722	14	75 07 22	2209	06	27 52 30 N	83 34 00 W
220906 50917	21	75 09 16	2209	06	27 52 30 N	83 34 00 W
220906 60129	29	76 01 29	2209	06	27 52 30 N	83 33 59 W
220906 60629	39	76 06 29	2209	06	27 52 30 N	83 33 57 W
220906 70826	DM1	77 08 26	2209	06	27 52 35 N	83 34 07 W
220906 71113	DM2	77 11 13	2209	06	27 52 26 N	83 34 00 W
220906 80216	DM4	78 02 16	2209	06	27 52 30 N	83 34 02 W
220907 50722	14	75 07 22	2209	07	27 52 30 N	83 34 00 W
220907 50917	21	75 09 16	2209	07	27 52 30 N	83 34 00 W
220907 60129	29	76 01 29	2209	07	27 52 30 N	83 33 59 W
220907 60629	39	76 06 29	2209	07	27 52 30 N	83 33 57 W
220907 70826	DM1	77 08 26	2209	07	27 52 35 N	83 34 07 W
220907 71113	DM2	77 11 13	2209	07	27 52 26 N	83 34 00 W
220907 80216	DM4	78 02 16	2209	07	27 52 30 N	83 34 02 W
220908 40616	2	74 06 17	2209	08	27 52 31 N	83 33 56 W
220908 50722	14	75 07 22	2209	08	27 52 30 N	83 34 00 W
220908 50917	21	75 09 16	2209	08	27 52 30 N	83 34 00 W
220908 60129	29	76 01 29	2209	08	27 52 30 N	83 33 59 W
220908 60629	39	76 06 29	2209	08	27 52 30 N	83 33 57 W
220908 70826	DM1	77 08 26	2209	08	27 52 35 N	83 34 07 W
220908 71113	DM2	77 11 13	2209	08	27 52 26 N	83 34 00 W
220908 80216	DM4	78 02 16	2209	08	27 52 30 N	83 34 02 W
220909 50722	14	75 07 22	2209	09	27 52 30 N	83 34 00 W
220909 50917	21	75 09 16	2209	09	27 52 30 N	83 34 00 W
220909 60129	29	76 01 29	2209	09	27 52 30 N	83 33 59 W
220909 60629	39	76 06 29	2209	09	27 52 30 N	83 33 57 W
220909 70826	DM1	77 08 26	2209	09	27 52 35 N	83 34 07 W
220909 71113	DM2	77 11 13	2209	09	27 52 26 N	83 34 00 W
220909 80216	DM4	78 02 16	2209	09	27 52 30 N	83 34 02 W
220910 60629	39	76 06 29	2209	10	27 52 30 N	83 33 57 W
220910 70816	DM1	77 08 26	2209	10	27 52 35 N	83 34 07 W
220910 70826	DM1	77 08 26	2209	10	27 52 35 N	83 34 07 W
220910 71113	DM2	77 11 13	2209	10	27 52 26 N	83 34 00 W
220910 80216	DM4	78 02 16	2209	10	27 52 30 N	83 34 02 W
220911 50722	14	75 07 22	2209	11	27 52 30 N	83 34 00 W
220911 50917	21	75 09 16	2209	11	27 52 30 N	83 34 00 W
220911 60129	29	76 01 29	2209	11	27 52 30 N	83 33 59 W
220911 60629	39	76 06 29	2209	11	27 52 30 N	83 33 57 W
220911 70826	DM1	77 08 26	2209	11	27 52 35 N	83 34 07 W
220911 71113	DM2	77 11 13	2209	11	27 52 26 N	83 34 00 W
220911 80216	DM4	78 02 16	2209	11	27 52 30 N	83 34 02 W
220912 60629	39	76 06 29	2209	12	27 52 30 N	83 33 57 W
220913 60629	39	76 06 29	2209	13	27 52 30 N	83 33 57 W
220914 60629	39	76 06 29	2209	14	27 52 30 N	83 33 57 W
220915 60629	39	76 06 29	2209	15	27 52 30 N	83 33 57 W
220916 60629	39	76 06 29	2209	16	27 52 30 N	83 33 57 W
220917 50714	12	75 07 14	2209	17	27 52 00 N	83 35 00 W
220917 51001	20	75 10 01	2209	17	27 52 00 N	83 35 00 W
220917 60207	29	76 01 29	2209	17	27 52 00 N	83 33 59 W
220917 60613	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
220917 60618	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
220917 60712	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
220917 60713	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
220917 60718	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
220917 70826	DM1	77 08 26	2209	17	27 52 35 N	83 34 07 W
220917 71027	DM2	77 10 27	2209	17	27 52 33 N	83 34 05 W
220917 71029	DM2	77 10 27	2209	17	27 52 33 N	83 34 05 W
220917 80204	DM4	78 02 04	2209	17	27 52 34 N	83 33 55 W
220917 80205	DM4	78 02 04	2209	17	27 52 34 N	83 33 55 W
220918 60613	44	76 07 13	0010	18	27 50 12 N	83 30 38 W
220918 60713	44	76 07 13	0010	18	27 50 12 N	83 30 38 W
220918 71022	DM2	77 10 27	2209	18	27 52 33 N	83 34 05 W
220918 71027	DM2	77 10 27	2209	18	27 52 33 N	83 34 05 W
220918 71029	DM2	77 10 27	2209	18	27 52 33 N	83 34 05 W
220918 80205	DM4	78 02 05	2209	18	27 52 34 N	83 33 55 W
220919 60713	44	76 07 13	0010	19	27 50 12 N	83 30 38 W
220919 70821	DM1	77 08 26	2209	19	27 52 35 N	83 34 07 W
220919 70826	DM1	77 08 26	2209	19	27 52 35 N	83 34 07 W

## MAFLA SAMPLE LIST

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220919 71027	DM2	77 10 27	2209	19	27 52 33 N	83 34 05 W
220919 71029	DM2	77 10 27	2209	19	27 52 33 N	83 34 05 W
220919 80205	DM4	78 02 05	2209	19	27 52 34 N	83 33 55 W
220930 60713	44	76 07 13	0010	30	27 50 12 N	83 30 38 W
220930 71027	DM2	77 10 27	2209	30	27 52 33 N	83 34 05 W
220950 50714	12	75 07 14	2209	50	27 52 00 N	83 35 00 W
220950 51001	20	75 10 01	2209	50	27 52 00 N	83 35 00 W
220950 60207	29	76 01 29	2209	50	27 52 00 N	83 33 59 W
220950 70825	DM1	77 08 25	2209	50	27 52 35 N	83 34 07 W
220950 71027	DM2	77 10 27	2209	50	27 52 33 N	83 34 05 W
220950 71113	DM2	77 11 13	2209	50	27 52 28 N	83 34 00 W
220950 80204	DM4	78 02 04	2209	50	27 52 34 N	83 33 55 W
220950 80216	DM4	78 02 16	2209	50	27 52 30 N	83 34 02 W
220968 51001	20	75 10 01	2209	68	27 52 00 N	83 35 00 W
220968 60207	29	76 01 29	2209	68	27 52 00 N	83 33 59 W
220968 71113	DM2	77 11 13	2209	68	27 52 28 N	83 34 00 W
220969 51001	20	75 10 01	2209	69	27 52 00 N	83 35 00 W
220969 60207	29	76 01 29	2209	69	27 52 00 N	83 33 59 W
220973 71113	DM2	77 11 13	2209	73	27 52 28 N	83 34 00 W
221000 50723	14	75 07 23	2210	00	27 57 35 N	83 42 57 W
221001 50723	14	75 07 23	2210	01	27 57 35 N	83 42 57 W
221001 50917	21	75 09 17	2210	01	27 57 30 N	83 42 30 W
221001 60129	29	76 01 29	2210	01	27 57 30 N	83 42 29 W
221001 60630	39	76 06 30	2210	01	27 57 30 N	83 42 27 W
221001 70825	DM1	77 08 25	2210	01	27 58 48 N	83 42 27 W
221001 71113	DM2	77 11 13	2210	01	27 57 30 N	83 42 29 W
221001 80216	DM4	78 02 16	2210	01	27 57 29 N	83 42 32 W
221002 50723	14	75 07 23	2210	02	27 57 35 N	83 42 57 W
221002 50917	21	75 09 17	2210	02	27 57 30 N	83 42 30 W
221002 60129	29	76 01 29	2210	02	27 57 30 N	83 42 29 W
221002 60630	39	76 06 30	2210	02	27 57 30 N	83 42 27 W
221003 50723	14	75 07 23	2210	03	27 57 35 N	83 42 57 W
221003 50917	21	75 09 17	2210	03	27 57 30 N	83 42 30 W
221003 60129	29	76 01 29	2210	03	27 57 30 N	83 42 29 W
221003 60630	39	76 06 30	2210	03	27 57 30 N	83 42 27 W
221003 70825	DM1	77 08 25	2210	01	27 58 48 N	83 42 27 W
221004 50723	14	75 07 23	2210	04	27 57 35 N	83 42 57 W
221004 50917	21	75 09 17	2210	04	27 57 30 N	83 42 30 W
221004 60129	29	76 01 29	2210	04	27 57 30 N	83 42 29 W
221004 60630	39	76 06 30	2210	04	27 57 30 N	83 42 27 W
221005 50723	14	75 07 23	2210	05	27 57 35 N	83 42 57 W
221005 50917	21	75 09 17	2210	05	27 57 30 N	83 42 30 W
221005 60129	29	76 01 29	2210	05	27 57 30 N	83 42 29 W
221005 60630	39	76 06 30	2210	05	27 57 30 N	83 42 27 W
221006 50723	14	75 07 23	2210	06	27 57 35 N	83 42 57 W
221006 50917	21	75 09 17	2210	06	27 57 30 N	83 42 30 W
221006 60129	29	76 01 29	2210	06	27 57 30 N	83 42 29 W
221006 60630	39	76 06 30	2210	06	27 57 30 N	83 42 27 W
221007 50723	14	75 07 23	2210	07	27 57 35 N	83 42 57 W
221007 50917	21	75 09 17	2210	07	27 57 30 N	83 42 30 W
221007 60129	29	76 01 29	2210	07	27 57 30 N	83 42 29 W
221007 60630	39	76 06 30	2210	07	27 57 30 N	83 42 27 W
221008 50723	14	75 07 23	2210	08	27 57 35 N	83 42 57 W
221008 50917	21	75 09 17	2210	08	27 57 30 N	83 42 30 W
221008 60129	29	76 01 29	2210	08	27 57 30 N	83 42 29 W
221008 60630	39	76 06 30	2210	08	27 57 30 N	83 42 27 W
221009 50723	14	75 07 23	2210	09	27 57 35 N	83 42 57 W
221009 50917	21	75 09 17	2210	09	27 57 30 N	83 42 30 W
221009 60129	29	76 01 29	2210	09	27 57 30 N	83 42 29 W
221009 60630	39	76 06 30	2210	09	27 57 30 N	83 42 27 W
221010 60630	39	76 06 30	2210	10	27 57 30 N	83 42 27 W
221011 50723	14	75 07 23	2210	11	27 57 35 N	83 42 57 W
221011 50917	21	75 09 17	2210	11	27 57 30 N	83 42 30 W
221011 60129	29	76 01 29	2210	11	27 57 30 N	83 42 29 W
221011 60630	39	76 06 30	2210	11	27 57 30 N	83 42 27 W
221012 60630	39	76 06 30	2210	12	27 57 30 N	83 42 27 W
221013 60630	39	76 06 30	2210	13	27 57 30 N	83 42 27 W
221014 60630	39	76 06 30	2210	14	27 57 30 N	83 42 27 W
221015 60630	39	76 06 30	2210	15	27 57 30 N	83 42 27 W
221016 60630	39	76 06 30	2210	16	27 57 30 N	83 42 27 W
221050 70825	DM1	77 08 25	2210	50	27 58 48 N	83 42 27 W
221050 71113	DM2	77 11 13	2210	50	27 57 30 N	83 42 29 W
221050 80216	DM4	78 02 16	2210	50	27 57 29 N	83 42 32 W
221068 71113	DM2	77 11 13	2210	68	27 57 30 N	83 42 29 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
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221101	50723	14	75 07 23	2211	01	27 56 29 N	83 53 02 W
221101	50917	21	75 09 17	2211	01	27 56 30 N	83 53 00 W
221101	60129	29	76 01 29	2211	01	27 56 29 N	83 53 00 W
221101	60630	39	76 06 30	2211	01	27 56 27 N	83 52 57 W
221101	70825	DM1	77 08 25	2211	01	27 56 31 N	83 53 02 W
221101	71113	DM2	77 11 13	2211	01	27 56 22 N	83 53 01 W
221101	80215	DM4	78 02 15	2211	01	27 56 29 N	83 53 03 W
221102	40628	2	74 06 14	2211	02	27 56 33 N	83 52 56 W
221102	50723	14	75 07 23	2211	02	27 56 29 N	83 53 02 W
221102	50917	21	75 09 17	2211	02	27 56 30 N	83 53 00 W
221102	60129	29	76 01 29	2211	02	27 56 29 N	83 53 00 W
221102	60630	39	76 06 30	2211	02	27 56 27 N	83 52 57 W
221102	70825	DM1	77 08 25	2211	02	27 56 31 N	83 53 02 W
221102	71113	DM2	77 11 13	2211	02	27 56 22 N	83 53 01 W
221102	80215	DM4	78 02 15	2211	02	27 56 29 N	83 53 03 W
221103	50723	14	75 07 23	2211	03	27 56 29 N	83 53 02 W
221103	50917	21	75 09 17	2211	03	27 56 30 N	83 53 00 W
221103	60129	29	76 01 29	2211	03	27 56 29 N	83 53 00 W
221103	60630	39	76 06 30	2211	03	27 56 27 N	83 52 57 W
221103	70825	DM1	77 08 25	2211	03	27 56 31 N	83 53 02 W
221103	71113	DM2	77 11 13	2211	03	27 56 22 N	83 53 01 W
221103	80215	DM4	78 02 15	2211	03	27 56 29 N	83 53 03 W
221104	50723	14	75 07 23	2211	04	27 56 29 N	83 53 02 W
221104	50917	21	75 09 17	2211	04	27 56 30 N	83 53 00 W
221104	60129	29	76 01 29	2211	04	27 56 29 N	83 53 00 W
221104	60630	39	76 06 30	2211	04	27 56 27 N	83 52 57 W
221104	70825	DM1	77 08 25	2211	04	27 56 31 N	83 53 02 W
221104	71113	DM2	77 11 13	2211	04	27 56 22 N	83 53 01 W
221104	80215	DM4	78 02 15	2211	04	27 56 29 N	83 53 03 W
221105	50723	14	75 07 23	2211	05	27 56 29 N	83 53 02 W
221105	50917	21	75 09 17	2211	05	27 56 30 N	83 53 00 W
221105	60129	29	76 01 29	2211	05	27 56 29 N	83 53 00 W
221105	60630	39	76 06 30	2211	05	27 56 27 N	83 52 57 W
221105	70825	DM1	77 08 25	2211	05	27 56 31 N	83 53 02 W
221105	71113	DM2	77 11 13	2211	05	27 56 22 N	83 53 01 W
221105	80215	DM4	78 02 15	2211	05	27 56 29 N	83 53 03 W
221106	50723	14	75 07 23	2211	06	27 56 29 N	83 53 02 W
221106	50917	21	75 09 17	2211	06	27 56 30 N	83 53 00 W
221106	60129	29	76 01 29	2211	06	27 56 29 N	83 53 00 W
221106	60630	39	76 06 30	2211	06	27 56 27 N	83 52 57 W
221106	70825	DM1	77 08 25	2211	06	27 56 31 N	83 53 02 W
221106	71113	DM2	77 11 13	2211	06	27 56 22 N	83 53 01 W
221106	80215	DM4	78 02 15	2211	06	27 56 29 N	83 53 03 W
221107	50723	14	75 07 23	2211	07	27 56 29 N	83 53 02 W
221107	50917	21	75 09 17	2211	07	27 56 30 N	83 53 00 W
221107	60129	29	76 01 29	2211	07	27 56 29 N	83 53 00 W
221107	60630	39	76 06 30	2211	07	27 56 27 N	83 52 57 W
221107	70825	DM1	77 08 25	2211	07	27 56 31 N	83 53 02 W
221107	71113	DM2	77 11 13	2211	07	27 56 22 N	83 53 01 W
221107	80215	DM4	78 02 15	2211	07	27 56 29 N	83 53 03 W
221108	40618	2	74 06 14	2211	08	27 56 33 N	83 52 56 W
221108	50723	14	75 07 23	2211	08	27 56 29 N	83 53 02 W
221108	50917	21	75 09 17	2211	08	27 56 30 N	83 53 00 W
221108	60129	29	76 01 29	2211	08	27 56 29 N	83 53 00 W
221108	60630	39	76 06 30	2211	08	27 56 27 N	83 52 57 W
221108	70825	DM1	77 08 25	2211	08	27 56 31 N	83 53 02 W
221108	71113	DM2	77 11 13	2211	08	27 56 22 N	83 53 01 W
221108	80215	DM4	78 02 15	2211	08	27 56 29 N	83 53 03 W
221109	50723	14	75 07 23	2211	09	27 56 29 N	83 53 02 W
221109	50917	21	75 09 17	2211	09	27 56 30 N	83 53 00 W
221109	60129	29	76 01 29	2211	09	27 56 29 N	83 53 00 W
221109	60630	39	76 06 30	2211	09	27 56 27 N	83 52 57 W
221109	70825	DM1	77 08 25	2211	09	27 56 31 N	83 53 02 W
221109	71113	DM2	77 11 13	2211	09	27 56 22 N	83 53 01 W
221109	80215	DM4	78 02 15	2211	09	27 56 29 N	83 53 03 W
221110	60630	39	76 06 30	2211	10	27 56 27 N	83 52 57 W
221110	70825	DM1	77 08 25	2211	10	27 56 31 N	83 53 02 W
221110	71113	DM2	77 11 13	2211	10	27 56 22 N	83 53 01 W
221110	80215	DM4	78 02 15	2211	10	27 56 29 N	83 53 03 W
221111	50723	14	75 07 23	2211	11	27 56 29 N	83 53 02 W
221111	50917	21	75 09 17	2211	11	27 56 30 N	83 53 00 W
221111	60129	29	76 01 29	2211	11	27 56 29 N	83 53 00 W
221111	60630	39	76 06 30	2211	11	27 56 27 N	83 52 57 W
221111	70825	DM1	77 08 25	2211	11	27 56 31 N	83 53 02 W

## MAFLA SAMPLE LIST

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221111	80215	DM4	78 02 15	2211	11	27 56 29 N	83 53 03 W
221112	60630	39	76 06 30	2211	12	27 56 27 N	83 52 57 W
221113	60630	39	76 06 30	2211	13	27 56 27 N	83 52 57 W
221114	60630	39	76 06 30	2211	14	27 56 27 N	83 52 57 W
221115	60630	39	76 06 30	2211	15	27 56 27 N	83 52 57 W
221116	60630	39	76 06 30	2211	16	27 56 27 N	83 52 57 W
221150	70825	DM1	77 08 25	2211	50	27 56 31 N	83 53 02 W
221150	71113	DM2	77 11 13	2211	50	27 56 22 N	83 53 01 W
221150	80215	DM4	78 02 15	2211	50	27 56 29 N	83 53 03 W
221168	71113	DM2	77 11 13	2211	68	27 56 22 N	83 53 01 W
221173	71113	DM2	77 11 13	2211	73	27 56 22 N	83 53 01 W
221201	50723	14	75 07 23	2212	01	27 57 03 N	84 48 02 W
221201	50917	21	75 09 17	2212	01	27 57 00 N	84 48 00 W
221201	60129	29	76 01 29	2212	01	27 56 59 N	84 48 00 W
221201	60630	39	76 06 30	2212	01	27 56 57 N	84 47 57 W
221201	70825	DM1	77 08 25	2212	01	27 56 56 N	84 48 02 W
221201	71113	DM2	77 11 13	2212	01	27 56 53 N	84 48 00 W
221201	80215	DM4	78 02 15	2212	01	27 56 58 N	84 48 00 W
221202	50723	14	75 07 23	2212	02	27 57 03 N	84 48 02 W
221202	50917	21	75 09 17	2212	02	27 57 00 N	84 48 00 W
221202	60129	29	76 01 29	2212	02	27 56 59 N	84 48 00 W
221202	60630	39	76 06 30	2212	02	27 56 57 N	84 47 57 W
221202	70825	DM1	77 08 25	2212	02	27 56 56 N	84 48 02 W
221202	71113	DM2	77 11 13	2212	02	27 56 53 N	84 48 00 W
221202	80215	DM4	78 02 15	2212	02	27 56 58 N	84 48 00 W
221203	50723	14	75 07 23	2212	03	27 57 03 N	84 48 02 W
221203	50917	21	75 09 17	2212	03	27 57 00 N	84 48 00 W
221203	60129	29	76 01 29	2212	03	27 56 59 N	84 48 00 W
221203	60630	39	76 06 30	2212	03	27 56 57 N	84 47 57 W
221203	70825	DM1	77 08 25	2212	03	27 56 56 N	84 48 02 W
221203	71113	DM2	77 11 13	2212	03	27 56 53 N	84 48 00 W
221203	80215	DM4	78 02 15	2212	03	27 56 58 N	84 48 00 W
221204	50723	14	75 07 23	2212	04	27 57 03 N	84 48 02 W
221204	50917	21	75 09 17	2212	04	27 57 00 N	84 48 00 W
221204	60129	29	76 01 29	2212	04	27 56 59 N	84 48 00 W
221204	60630	39	76 06 30	2212	04	27 56 57 N	84 47 57 W
221204	70825	DM1	77 08 25	2212	04	27 56 56 N	84 48 02 W
221204	71113	DM2	77 11 13	2212	04	27 56 53 N	84 48 00 W
221204	80215	DM4	78 02 15	2212	04	27 56 58 N	84 48 00 W
221205	50723	14	75 07 23	2212	05	27 57 03 N	84 48 02 W
221205	50917	21	75 09 17	2212	05	27 57 00 N	84 48 00 W
221205	60129	29	76 01 29	2212	05	27 56 59 N	84 48 00 W
221205	60630	39	76 06 30	2212	05	27 56 57 N	84 47 57 W
221205	70825	DM1	77 08 25	2212	05	27 56 56 N	84 48 02 W
221205	71113	DM2	77 11 13	2212	05	27 56 53 N	84 48 00 W
221205	80215	DM4	78 02 15	2212	05	27 56 58 N	84 48 00 W
221206	50723	14	75 07 23	2212	06	27 57 03 N	84 48 02 W
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221206	60129	29	76 01 29	2212	06	27 56 59 N	84 48 00 W
221206	60630	39	76 06 30	2212	06	27 56 57 N	84 47 57 W
221206	70825	DM1	77 08 25	2212	06	27 56 56 N	84 48 02 W
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221207	50917	21	75 09 17	2212	07	27 57 00 N	84 48 00 W
221207	60129	29	76 01 29	2212	07	27 56 59 N	84 48 00 W
221207	60630	39	76 06 30	2212	07	27 56 57 N	84 47 57 W
221207	70825	DM1	77 08 25	2212	07	27 56 56 N	84 48 02 W
221207	71113	DM2	77 11 13	2212	07	27 56 53 N	84 48 00 W
221207	80215	DM4	78 02 15	2212	07	27 56 58 N	84 48 00 W
221208	50723	14	75 07 23	2212	08	27 57 03 N	84 48 02 W
221208	50917	21	75 09 17	2212	08	27 57 00 N	84 48 00 W
221208	60129	29	76 01 29	2212	08	27 56 59 N	84 48 00 W
221208	60630	39	76 06 30	2212	08	27 56 57 N	84 47 57 W
221208	70825	DM1	77 08 25	2212	08	27 56 56 N	84 48 02 W
221208	71113	DM2	77 11 13	2212	08	27 56 53 N	84 48 00 W
221208	80215	DM4	78 02 15	2212	08	27 56 58 N	84 48 00 W
221209	50723	14	75 07 23	2212	09	27 57 03 N	84 48 02 W
221209	50917	21	75 09 17	2212	09	27 57 00 N	84 48 00 W
221209	60129	29	76 01 29	2212	09	27 56 59 N	84 48 00 W
221209	60630	39	76 06 30	2212	09	27 56 57 N	84 47 57 W
221209	70825	DM1	77 08 25	2212	09	27 56 56 N	84 48 02 W
221209	71113	DM2	77 11 13	2212	09	27 56 53 N	84 48 00 W
221209	80215	DM4	78 02 15	2212	09	27 56 58 N	84 48 00 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
221210	60630	39	76 06 30	2212	10	27 56 57 N	84 47 57 W
221210	70825	DM1	77 08 25	2212	10	27 56 56 N	84 48 02 W
221210	71113	DM2	77 11 13	2212	10	27 56 53 N	84 48 00 W
221210	80215	DM4	78 02 15	2212	10	27 56 58 N	84 48 00 W
221211	50723	14	75 07 23	2212	11	27 57 03 N	84 48 02 W
221211	50917	21	75 09 17	2212	11	27 57 00 N	84 48 00 W
221211	60129	29	76 01 29	2212	11	27 56 59 N	84 48 00 W
221211	60630	39	76 06 30	2212	11	27 56 57 N	84 47 57 W
221211	70825	DM1	77 08 25	2212	11	27 56 56 N	84 48 02 W
221211	71113	DM2	77 11 13	2212	11	27 56 53 N	84 48 00 W
221211	80215	DM4	78 02 15	2212	11	27 56 58 N	84 48 00 W
221212	60630	39	76 06 30	2212	12	27 56 57 N	84 47 57 W
221213	60630	39	76 06 30	2212	13	27 56 57 N	84 47 57 W
221214	60630	39	76 06 30	2212	14	27 56 57 N	84 47 57 W
221215	60630	39	76 06 30	2212	15	27 56 57 N	84 47 57 W
221216	60630	39	76 06 30	2212	16	27 56 57 N	84 47 57 W
221250	70825	DM1	77 08 25	2212	50	27 56 56 N	84 48 02 W
221250	71113	DM2	77 11 13	2212	50	27 56 53 N	84 48 00 W
221250	80215	DM4	78 02 15	2212	50	27 56 58 N	84 48 00 W
221268	71113	DM2	77 11 13	2212	68	27 56 53 N	84 48 00 W
221273	71113	DM2	77 11 13	2212	73	27 56 53 N	84 48 00 W
221301	71110	DM2	77 11 10	2313	01	28 24 03 N	85 15 08 W
223971	80222	DM4	78 02 10	2639	71	29 53 43 N	88 12 31 W
22Y810	60629	39	76 06 29	2208	10	27 56 00 N	83 27 29 W
231300	51020	22	75 10 20	2313	00	28 23 30 N	85 13 36 W
231300	60227	33	76 02 26	2313	00	28 23 30 N	85 15 00 W
231301	50724	14	75 07 24	2313	01	28 24 05 N	85 14 53 W
231301	50918	21	75 09 18	2313	01	28 24 00 N	85 15 06 W
231301	60131	29	76 01 31	2313	01	28 24 03 N	85 15 07 W
231301	60705	39	76 07 05	2313	01	29 24 00 N	85 14 58 W
231301	70829	DM1	77 08 29	2313	01	28 24 15 N	85 15 12 W
231301	71110	DM2	77 11 10	2313	01	28 24 03 N	85 15 08 W
231301	80215	DM4	78 02 15	2313	01	28 23 49 N	85 14 58 W
231302	50724	14	75 07 24	2313	02	28 24 05 N	85 14 53 W
231302	50918	21	75 09 18	2313	02	28 24 00 N	85 15 06 W
231302	60131	29	76 01 31	2313	02	28 24 03 N	85 15 07 W
231302	60705	39	76 07 05	2313	02	29 24 00 N	85 14 58 W
231302	70829	DM1	77 08 29	2313	02	28 24 15 N	85 15 12 W
231302	71110	DM2	77 11 10	2313	02	28 24 03 N	85 15 08 W
231302	80215	DM4	78 02 15	2313	02	28 23 49 N	85 14 58 W
231303	50724	14	75 07 24	2313	03	28 24 05 N	85 14 53 W
231303	50918	21	75 09 18	2313	03	28 24 00 N	85 15 06 W
231303	60131	29	76 01 31	2313	03	28 24 03 N	85 15 07 W
231303	60705	39	76 07 05	2313	03	29 24 00 N	85 14 58 W
231303	70829	DM1	77 08 29	2313	03	28 24 15 N	85 15 12 W
231303	71110	DM2	77 11 10	2313	03	28 24 03 N	85 15 08 W
231303	80214	DM4	78 02 15	2313	03	28 23 49 N	85 14 58 W
231303	80215	DM4	78 02 15	2313	03	28 23 49 N	85 14 58 W
231304	50724	14	75 07 24	2313	04	28 24 05 N	85 14 53 W
231304	50918	21	75 09 18	2313	04	28 24 00 N	85 15 06 W
231304	60131	29	76 01 31	2313	04	28 24 03 N	85 15 07 W
231304	60705	39	76 07 05	2313	04	29 24 00 N	85 14 58 W
231304	70829	DM1	77 08 29	2313	04	28 24 15 N	85 15 12 W
231304	71110	DM2	77 11 10	2313	04	28 24 03 N	85 15 08 W
231304	80215	DM4	78 02 15	2313	04	28 23 49 N	85 14 58 W
231305	50724	14	75 07 24	2313	05	28 24 05 N	85 14 53 W
231305	50918	21	75 09 18	2313	05	28 24 00 N	85 15 06 W
231305	60131	29	76 01 31	2313	05	28 24 03 N	85 15 07 W
231305	60705	39	76 07 05	2313	05	29 24 00 N	85 14 58 W
231305	70829	DM1	77 08 29	2313	05	28 24 15 N	85 15 12 W
231305	71110	DM2	77 11 10	2313	05	28 24 03 N	85 15 08 W
231305	80215	DM4	78 02 15	2313	05	28 23 49 N	85 14 58 W
231306	50724	14	75 07 24	2313	06	28 24 05 N	85 14 53 W
231306	50918	21	75 09 18	2313	06	28 24 00 N	85 15 06 W
231306	60131	29	76 01 31	2313	06	28 24 03 N	85 15 07 W
231306	60705	39	76 07 05	2313	06	29 24 00 N	85 14 58 W
231306	70829	DM1	77 08 29	2313	06	28 24 15 N	85 15 12 W
231306	71110	DM2	77 11 10	2313	06	28 24 03 N	85 15 08 W
231306	80215	DM4	78 02 15	2313	06	28 23 49 N	85 14 58 W
231307	50724	14	75 07 24	2313	07	28 24 05 N	85 14 53 W
231307	50918	21	75 09 18	2313	07	28 24 00 N	85 15 06 W
231307	60131	29	76 01 31	2313	07	28 24 03 N	85 15 07 W
231307	60705	39	76 07 05	2313	07	29 24 00 N	85 14 58 W
231307	70829	DM1	77 08 29	2313	07	28 24 15 N	85 15 12 W
231307	71110	DM2	77 11 10	2313	07	28 24 03 N	85 15 08 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
231307	80215	DM4	78 02 15	2313	07	28 23 49 N	85 14 58 W
231308	0218	DM4	78 02 15	2313	08	28 23 49 N	85 14 58 W
231308	50724	14	75 07 24	2313	08	28 24 05 N	85 14 53 W
231308	50918	21	75 09 18	2313	08	28 24 00 N	85 15 06 W
231308	60131	29	76 01 31	2313	08	28 24 03 N	85 15 07 W
231308	60705	39	76 07 05	2313	08	29 24 00 N	85 14 58 W
231308	70829	DM1	77 08 29	2313	08	28 24 15 N	85 15 12 W
231308	71110	DM2	77 11 10	2313	08	28 24 03 N	85 15 08 W
231308	80215	DM4	78 02 15	2313	08	28 23 49 N	85 14 58 W
231309	50724	14	75 07 24	2313	09	28 24 05 N	85 14 53 W
231309	50918	21	75 09 18	2313	09	28 24 00 N	85 15 06 W
231309	60131	29	76 01 31	2313	09	28 24 03 N	85 15 07 W
231309	60705	39	76 07 05	2313	09	29 24 00 N	85 14 58 W
231309	70829	DM1	77 08 29	2313	09	28 24 15 N	85 15 12 W
231309	71110	DM2	77 11 10	2313	09	28 24 03 N	85 15 08 W
231309	80215	DM4	78 02 15	2313	09	28 23 49 N	85 14 58 W
231310	60705	39	76 07 05	2313	10	29 24 00 N	85 14 58 W
231310	70829	DM1	77 08 29	2313	10	28 24 15 N	85 15 12 W
231310	71110	DM2	77 11 10	2313	10	28 24 03 N	85 15 08 W
231310	80215	DM4	78 02 15	2313	10	28 23 49 N	85 14 58 W
231311	0218	DM4	78 02 15	2313	11	28 23 49 N	85 14 58 W
231311	50724	14	75 07 24	2313	11	28 24 05 N	85 14 53 W
231311	50918	21	75 09 18	2313	11	28 24 00 N	85 15 06 W
231311	60131	29	76 01 31	2313	11	28 24 03 N	85 15 07 W
231311	70829	DM1	77 08 29	2313	11	28 24 15 N	85 15 12 W
231311	71110	DM2	77 11 10	2313	11	28 24 03 N	85 15 08 W
231311	80215	DM4	78 02 15	2313	11	28 23 49 N	85 14 58 W
231312	70829	DM1	77 08 29	2313	12	28 24 15 N	85 15 12 W
231313	70829	DM1	77 08 29	2313	13	28 24 15 N	85 15 12 W
231314	70829	DM1	77 08 29	2313	14	28 24 15 N	85 15 12 W
231315	70829	DM1	77 08 29	2313	15	28 24 15 N	85 15 12 W
231316	70829	DM1	77 08 29	2313	16	28 24 15 N	85 15 12 W
231317	50601	15	75 07 26	2313	17	28 24 00 N	85 15 00 W
231317	50726	15	75 07 26	2313	17	28 24 00 N	85 15 00 W
231317	51001	22	75 10 20	2313	17	28 23 30 N	85 13 36 W
231317	51020	22	75 10 20	2313	17	28 23 30 N	85 13 36 W
231317	60201	33	76 02 26	2313	17	28 23 30 N	85 15 00 W
231317	60227	33	76 02 26	2313	17	28 23 30 N	85 15 00 W
231317	60712	44	76 07 12	2313	17	28 23 42 N	85 14 05 W
231317	70829	DM1	77 08 29	2313	17	28 24 15 N	85 15 12 W
231317	71029	DM2	77 10 29	2313	17	28 24 06 N	85 14 16 W
231317	80206	DM4	78 02 06	2313	17	28 24 05 N	85 14 16 W
231318	60712	44	76 07 12	2313	18	28 23 42 N	85 14 05 W
231318	70829	DM1	77 08 29	2313	18	28 24 15 N	85 15 12 W
231318	70830	DM1	77 08 29	2313	18	28 24 15 N	85 15 12 W
231318	71029	DM2	77 10 29	2313	18	28 24 06 N	85 14 16 W
231318	80206	DM4	78 02 06	2313	18	28 24 05 N	85 14 16 W
231319	60712	44	76 07 12	2313	19	28 23 42 N	85 14 05 W
231319	70829	DM1	77 08 29	2313	19	28 24 15 N	85 15 12 W
231330	71029	DM2	77 10 29	2313	30	28 24 06 N	85 14 16 W
231330	80206	DM4	78 02 06	2313	30	28 24 05 N	85 14 16 W
231340	60712	44	76 07 12	2313	40	28 23 42 N	85 14 05 W
231340	70829	DM1	77 08 29	2313	40	28 24 15 N	85 15 12 W
231350	70829	DM1	77 08 29	2313	50	28 24 15 N	85 15 12 W
231350	71029	DM2	77 10 29	2313	50	28 24 06 N	85 14 16 W
231350	71110	DM2	77 11 10	2313	50	28 24 03 N	85 15 08 W
231350	80206	DM4	78 02 06	2313	50	28 24 05 N	85 14 16 W
231350	80215	DM4	78 02 15	2313	50	28 23 49 N	85 14 58 W
231368	71029	DM2	77 10 29	2313	68	28 24 06 N	85 14 16 W
231368	71110	DM2	77 11 10	2313	68	28 24 03 N	85 15 08 W
231373	71110	DM2	77 11 10	2313	73	28 24 03 N	85 15 08 W
231401	50731	17	75 07 31	0005	01	28 29 00 N	84 20 00 W
231401	50919	21	75 09 18	0005	01	28 29 00 N	84 21 00 W
231401	602 3	29	76 02 03	0005	01	28 29 00 N	84 21 00 W
231402	50731	17	75 07 31	0005	02	28 29 00 N	84 20 00 W
231402	50919	21	75 09 18	0005	02	28 29 00 N	84 21 00 W
231402	602 3	29	76 02 03	0005	02	28 29 00 N	84 21 00 W
231403	50731	17	75 07 31	0005	03	28 29 00 N	84 20 00 W
231403	50919	21	75 09 18	0005	03	28 29 00 N	84 21 00 W
231403	602 3	29	76 02 03	0005	03	28 29 00 N	84 21 00 W
231404	50731	17	75 07 31	0005	04	28 29 00 N	84 20 00 W
231404	50919	21	75 09 18	0005	04	28 29 00 N	84 21 00 W
231404	602 3	29	76 02 03	0005	04	28 29 00 N	84 21 00 W
231405	50731	17	75 07 31	0005	05	28 29 00 N	84 20 00 W
231405	50919	21	75 09 18	0005	05	28 29 00 N	84 21 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
231405	602 3	29	76 02 03	0005	05	28 29 00 N	84 21 00 W
231406	50731	17	75 07 31	0005	06	28 29 00 N	84 20 00 W
231406	50919	21	75 09 18	0005	06	28 29 00 N	84 21 00 W
231406	602 3	29	76 02 03	0005	06	28 29 00 N	84 21 00 W
231407	50731	17	75 07 31	0005	07	28 29 00 N	84 20 00 W
231407	50919	21	75 09 18	0005	07	28 29 00 N	84 21 00 W
231407	602 3	29	76 02 03	0005	07	28 29 00 N	84 21 00 W
231408	50731	17	75 07 31	0005	08	28 29 00 N	84 20 00 W
231408	50919	21	75 09 18	0005	08	28 29 00 N	84 21 00 W
231408	602 3	29	76 02 03	0005	08	28 29 00 N	84 21 00 W
231409	50731	17	75 07 31	0005	09	28 29 00 N	84 20 00 W
231409	50919	21	75 09 18	0005	09	28 29 00 N	84 21 00 W
231409	602 3	29	76 02 03	0005	09	28 29 00 N	84 21 00 W
231500	50610	11	75 06 10	2315	00	28 34 00 N	84 20 25 W
231500	50731	17	75 07 31	2315	00	28 34 00 N	84 19 00 W
231500	50911	19	75 09 11	2315	00	28 33 53 N	84 20 11 W
231500	60306	34	76 03 06	2315	00	28 33 53 N	84 20 11 W
231501	40628	11	75 06 10	2315	01	28 34 00 N	84 20 25 W
231501	50731	17	75 07 31	2315	01	28 34 00 N	84 19 00 W
231501	50919	21	75 09 19	2315	01	28 34 00 N	84 20 06 W
231501	602 3	29	76 02 03	2315	01	28 34 01 N	84 20 06 W
231501	60203	29	76 02 03	2315	01	28 34 01 N	84 20 06 W
231501	70830	DM1	77 08 30	2315	01	28 34 05 N	83 15 12 W
231501	71109	DM2	77 11 09	2315	01	28 24 03 N	85 15 08 W
231501	80214	DM4	78 02 14	2315	01	28 33 57 N	84 20 09 W
231502	40628	11	75 06 10	2315	02	28 34 00 N	84 20 25 W
231502	50731	17	75 07 31	2315	02	28 34 00 N	84 19 00 W
231502	50919	21	75 09 19	2315	02	28 34 00 N	84 20 06 W
231502	602 3	29	76 02 03	2315	02	28 34 01 N	84 20 06 W
231502	60203	29	76 02 03	2315	02	28 34 01 N	84 20 06 W
231502	80214	DM4	78 02 14	2315	02	28 33 57 N	84 20 09 W
231503	50731	17	75 07 31	2315	03	28 34 00 N	84 19 00 W
231503	50919	21	75 09 19	2315	03	28 34 00 N	84 20 06 W
231503	602 3	29	76 02 03	2315	03	28 34 01 N	84 20 06 W
231503	60203	29	76 02 03	2315	03	28 34 01 N	84 20 06 W
231503	80214	DM4	78 02 14	2315	03	28 33 57 N	84 20 09 W
231504	50731	17	75 07 31	2315	04	28 34 00 N	84 19 00 W
231504	50919	21	75 09 19	2315	04	28 34 00 N	84 20 06 W
231504	602 3	29	76 02 03	2315	04	28 34 01 N	84 20 06 W
231504	60203	29	76 02 03	2315	04	28 34 01 N	84 20 06 W
231504	80214	DM4	78 02 14	2315	04	28 33 57 N	84 20 09 W
231505	50731	17	75 07 31	2315	05	28 34 00 N	84 19 00 W
231505	50919	21	75 09 19	2315	05	28 34 00 N	84 20 06 W
231505	602 3	29	76 02 03	2315	05	28 34 01 N	84 20 06 W
231505	60203	29	76 02 03	2315	05	28 34 01 N	84 20 06 W
231505	80214	DM4	78 02 14	2315	05	28 33 57 N	84 20 09 W
231506	50731	17	75 07 31	2315	06	28 34 00 N	84 19 00 W
231506	50919	21	75 09 19	2315	06	28 34 00 N	84 20 06 W
231506	602 3	29	76 02 03	2315	06	28 34 01 N	84 20 06 W
231506	60203	29	76 02 03	2315	06	28 34 01 N	84 20 06 W
231506	80214	DM4	78 02 14	2315	06	28 33 57 N	84 20 09 W
231507	50731	17	75 07 31	2315	07	28 34 00 N	84 19 00 W
231507	50919	21	75 09 19	2315	07	28 34 00 N	84 20 06 W
231507	602 3	29	76 02 03	2315	07	28 34 01 N	84 20 06 W
231507	60203	29	76 02 03	2315	07	28 34 01 N	84 20 06 W
231508	40616	11	75 06 10	2315	08	28 34 00 N	84 20 25 W
231508	50731	17	75 07 31	2315	08	28 34 00 N	84 19 00 W
231508	50919	21	75 09 19	2315	08	28 34 00 N	84 20 06 W
231508	602 3	29	76 02 03	2315	08	28 34 01 N	84 20 06 W
231508	60203	29	76 02 03	2315	08	28 34 01 N	84 20 06 W
231509	50731	17	75 07 31	2315	09	28 34 00 N	84 19 00 W
231509	50919	21	75 09 19	2315	09	28 34 00 N	84 20 06 W
231509	602 3	29	76 02 03	2315	09	28 34 01 N	84 20 06 W
231509	60203	29	76 02 03	2315	09	28 34 01 N	84 20 06 W
231511	50731	17	75 07 31	2315	11	28 34 00 N	84 19 00 W
231511	50919	21	75 09 19	2315	11	28 34 00 N	84 20 06 W
231511	60203	29	76 02 03	2315	11	28 34 01 N	84 20 06 W
231518	60629	44	76 07 13	0005	18	28 29 42 N	84 20 29 W
231518	70830	DM1	77 08 30	2315	18	28 34 05 N	83 15 12 W
231519	60629	44	76 07 13	0005	19	28 29 42 N	84 20 29 W
231519	70820	DM1	77 08 30	2315	19	28 34 05 N	83 15 12 W
231519	70823	DM1	77 08 30	2315	19	28 34 05 N	83 15 12 W
231519	70830	DM1	77 08 30	2315	19	28 34 05 N	83 15 12 W
231519	70831	DM1	77 08 30	2315	19	28 34 05 N	83 15 12 W
231519	71030	DM2	77 10 29	2313	19	28 24 06 N	85 14 16 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
231540	70803	DM1	77 08 30	2315	40	28 34 05 N	83 15 12 W
231540	70823	DM1	77 08 30	2315	40	28 34 05 N	83 15 12 W
231540	70830	DM1	77 08 30	2315	40	28 34 05 N	83 15 12 W
231540	70831	DM1	77 08 30	2315	40	28 34 05 N	83 15 12 W
231540	70833	DM1	77 08 30	2315	40	28 34 05 N	83 15 12 W
231543	80629	44	78 07 13	0005	43	28 29 42 N	84 20 29 W
231544	80629	44	78 07 13	0005	44	28 29 42 N	84 20 29 W
231550	70830	DM1	77 08 30	2315	50	28 34 05 N	83 15 12 W
231550	71109	DM2	77 11 09	2315	50	28 24 03 N	85 15 08 W
231550	80208	DM3	78 02 08	2315	50	28 34 00 N	84 20 12 W
231550	80209	DM3	78 02 09	2315	50	28 34 00 N	84 20 12 W
231550	80210	DM3	78 02 10	2315	50	28 34 00 N	84 20 12 W
231550	80211	DM3	78 02 11	2315	50	28 34 00 N	84 20 12 W
231550	80212	DM3	78 02 12	2315	50	28 34 00 N	84 20 12 W
231550	80214	DM4	78 02 14	2315	50	28 33 57 N	84 20 09 W
231551	80208	DM3	78 02 08	2315	51	28 34 00 N	84 20 12 W
231551	80209	DM3	78 02 09	2315	51	28 34 00 N	84 20 12 W
231551	80210	DM3	78 02 10	2315	51	28 34 00 N	84 20 12 W
231551	80211	DM3	78 02 11	2315	51	28 34 00 N	84 20 12 W
231551	80212	DM3	78 02 12	2315	51	28 34 00 N	84 20 12 W
231552	80208	DM3	78 02 08	2315	52	28 34 00 N	84 20 12 W
231552	80209	DM3	78 02 09	2315	52	28 34 00 N	84 20 12 W
231552	80210	DM3	78 02 10	2315	52	28 34 00 N	84 20 12 W
231552	80211	DM3	78 02 11	2315	52	28 34 00 N	84 20 12 W
231552	80212	DM3	78 02 12	2315	52	28 34 00 N	84 20 12 W
231553	80208	DM3	78 02 08	2315	53	28 34 00 N	84 20 12 W
231553	80209	DM3	78 02 09	2315	53	28 34 00 N	84 20 12 W
231553	80210	DM3	78 02 10	2315	53	28 34 00 N	84 20 12 W
231553	80211	DM3	78 02 11	2315	53	28 34 00 N	84 20 12 W
231553	80212	DM3	78 02 12	2315	53	28 34 00 N	84 20 12 W
231554	80208	DM3	78 02 08	2315	54	28 34 00 N	84 20 12 W
231554	80210	DM3	78 02 10	2315	54	28 34 00 N	84 20 12 W
231554	80211	DM3	78 02 11	2315	54	28 34 00 N	84 20 12 W
231554	80212	DM3	78 02 12	2315	54	28 34 00 N	84 20 12 W
231555	80208	DM3	78 02 08	2315	55	28 34 00 N	84 20 12 W
231555	80210	DM3	78 02 10	2315	55	28 34 00 N	84 20 12 W
231555	80211	DM3	78 02 11	2315	55	28 34 00 N	84 20 12 W
231555	80212	DM3	78 02 12	2315	55	28 34 00 N	84 20 12 W
231556	80211	DM3	78 02 11	2315	56	28 34 00 N	84 20 12 W
231556	80212	DM3	78 02 12	2315	56	28 34 00 N	84 20 12 W
231556	80213	DM3	78 02 13	2315	56	28 34 00 N	84 20 12 W
231557	80211	DM3	78 02 11	2315	57	28 34 00 N	84 20 12 W
231557	80212	DM3	78 02 12	2315	57	28 34 00 N	84 20 12 W
231557	80213	DM3	78 02 13	2315	57	28 34 00 N	84 20 12 W
231560	80208	DM3	78 02 08	2315	60	28 34 00 N	84 20 12 W
231560	80209	DM3	78 02 09	2315	60	28 34 00 N	84 20 12 W
231560	80210	DM3	78 02 10	2315	60	28 34 00 N	84 20 12 W
231560	80211	DM3	78 02 11	2315	60	28 34 00 N	84 20 12 W
231560	80212	DM3	78 02 12	2315	60	28 34 00 N	84 20 12 W
231561	80208	DM3	78 02 08	2315	61	28 34 00 N	84 20 12 W
231561	80209	DM3	78 02 09	2315	61	28 34 00 N	84 20 12 W
231561	80210	DM3	78 02 10	2315	61	28 34 00 N	84 20 12 W
231561	80211	DM3	78 02 11	2315	61	28 34 00 N	84 20 12 W
231561	80212	DM3	78 02 12	2315	61	28 34 00 N	84 20 12 W
231562	80208	DM3	78 02 08	2315	62	28 34 00 N	84 20 12 W
231562	80209	DM3	78 02 09	2315	62	28 34 00 N	84 20 12 W
231562	80210	DM3	78 02 10	2315	62	28 34 00 N	84 20 12 W
231562	80211	DM3	78 02 11	2315	62	28 34 00 N	84 20 12 W
231562	80212	DM3	78 02 12	2315	62	28 34 00 N	84 20 12 W
231563	80208	DM3	78 02 08	2315	63	28 34 00 N	84 20 12 W
231563	80209	DM3	78 02 09	2315	63	28 34 00 N	84 20 12 W
231563	80210	DM3	78 02 10	2315	63	28 34 00 N	84 20 12 W
231563	80211	DM3	78 02 11	2315	63	28 34 00 N	84 20 12 W
231563	80212	DM3	78 02 12	2315	63	28 34 00 N	84 20 12 W
231564	80208	DM3	78 02 08	2315	64	28 34 00 N	84 20 12 W
231564	80209	DM3	78 02 09	2315	64	28 34 00 N	84 20 12 W
231564	80210	DM3	78 02 10	2315	64	28 34 00 N	84 20 12 W
231564	80211	DM3	78 02 11	2315	64	28 34 00 N	84 20 12 W
231564	80212	DM3	78 02 12	2315	64	28 34 00 N	84 20 12 W
231565	80208	DM3	78 02 08	2315	65	28 34 00 N	84 20 12 W
231565	80209	DM3	78 02 09	2315	65	28 34 00 N	84 20 12 W
231565	80210	DM3	78 02 10	2315	65	28 34 00 N	84 20 12 W
231565	80211	DM3	78 02 11	2315	65	28 34 00 N	84 20 12 W
231565	80212	DM3	78 02 12	2315	65	28 34 00 N	84 20 12 W
231566	80210	DM3	78 02 10	2315	66	28 34 00 N	84 20 12 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
231566	80211	DM3	78 02 11	2315 66	28 34 00 N	84 20 12 W
231566	80212	DM3	78 02 12	2315 66	28 34 00 N	84 20 12 W
231566	80213	DM3	78 02 13	2315 66	28 34 00 N	84 20 12 W
231566	80216	DM3	78 02 15	2528 66	29 55 00 N	86 05 00 W
231566	80218	DM3	78 02 15	2528 66	29 55 00 N	86 05 00 W
231567	80210	DM3	78 02 10	2315 67	28 34 00 N	84 20 12 W
231567	80211	DM3	78 02 11	2315 67	28 34 00 N	84 20 12 W
231567	80212	DM3	78 02 12	2315 67	28 34 00 N	84 20 12 W
231567	80213	DM3	78 02 13	2315 67	28 34 00 N	84 20 12 W
231568	71109	DM2	77 11 09	2315 68	28 24 03 N	85 15 08 W
231568	80208	DM3	78 02 08	2315 68	28 34 00 N	84 20 12 W
231568	80209	DM3	78 02 09	2315 68	28 34 00 N	84 20 12 W
231568	80210	DM3	78 02 10	2315 68	28 34 00 N	84 20 12 W
231568	80211	DM3	78 02 11	2315 68	28 34 00 N	84 20 12 W
231568	80212	DM3	78 02 12	2315 68	28 34 00 N	84 20 12 W
231568	80213	DM3	78 02 13	2315 68	28 34 00 N	84 20 12 W
231568	80215	DM3	78 02 15	2528 68	29 55 00 N	86 05 00 W
231568	80217	DM3	78 02 15	2528 68	29 55 00 N	86 05 00 W
231568	80219	DM3	78 02 15	2528 68	29 55 00 N	86 05 00 W
231569	80208	DM3	78 02 08	2315 69	28 34 00 N	84 20 12 W
231569	80209	DM3	78 02 09	2315 69	28 34 00 N	84 20 12 W
231569	80210	DM3	78 02 10	2315 69	28 34 00 N	84 20 12 W
231569	80211	DM3	78 02 11	2315 69	28 34 00 N	84 20 12 W
231569	80212	DM3	78 02 12	2315 69	28 34 00 N	84 20 12 W
231569	80213	DM3	78 02 13	2315 69	28 34 00 N	84 20 12 W
231569	80215	DM3	78 02 15	2528 69	29 55 00 N	86 05 00 W
231569	80216	DM3	78 02 15	2528 69	29 55 00 N	86 05 00 W
231569	80217	DM3	78 02 15	2528 69	29 55 00 N	86 05 00 W
231569	80218	DM3	78 02 15	2528 69	29 55 00 N	86 05 00 W
231569	80219	DM3	78 02 15	2528 69	29 55 00 N	86 05 00 W
231570	80208	DM3	78 02 08	2315 70	28 34 00 N	84 20 12 W
231570	80209	DM3	78 02 09	2315 70	28 34 00 N	84 20 12 W
231570	80210	DM3	78 02 10	2315 70	28 34 00 N	84 20 12 W
231570	80211	DM3	78 02 11	2315 70	28 34 00 N	84 20 12 W
231570	80212	DM3	78 02 12	2315 70	28 34 00 N	84 20 12 W
231570	80213	DM3	78 02 13	2315 70	28 34 00 N	84 20 12 W
231570	80215	DM3	78 02 15	2528 70	29 55 00 N	86 05 00 W
231570	80216	DM3	78 02 15	2528 70	29 55 00 N	86 05 00 W
231570	80217	DM3	78 02 15	2528 70	29 55 00 N	86 05 00 W
231570	80218	DM3	78 02 15	2528 70	29 55 00 N	86 05 00 W
231570	80219	DM3	78 02 15	2528 70	29 55 00 N	86 05 00 W
231571	80208	DM3	78 02 08	2315 71	28 34 00 N	84 20 12 W
231571	80209	DM3	78 02 09	2315 71	28 34 00 N	84 20 12 W
231571	80210	DM3	78 02 10	2315 71	28 34 00 N	84 20 12 W
231571	80211	DM3	78 02 11	2315 71	28 34 00 N	84 20 12 W
231571	80212	DM3	78 02 12	2315 71	28 34 00 N	84 20 12 W
231571	80215	DM3	78 02 15	2528 71	29 55 00 N	86 05 00 W
231571	80216	DM3	78 02 15	2528 71	29 55 00 N	86 05 00 W
231571	80217	DM3	78 02 15	2528 71	29 55 00 N	86 05 00 W
231571	80218	DM3	78 02 15	2528 71	29 55 00 N	86 05 00 W
231571	80219	DM3	78 02 15	2528 71	29 55 00 N	86 05 00 W
231572	80208	DM3	78 02 08	2315 72	28 34 00 N	84 20 12 W
231572	80209	DM3	78 02 09	2315 72	28 34 00 N	84 20 12 W
231572	80210	DM3	78 02 10	2315 72	28 34 00 N	84 20 12 W
231572	80211	DM3	78 02 11	2315 72	28 34 00 N	84 20 12 W
231572	80212	DM3	78 02 12	2315 72	28 34 00 N	84 20 12 W
231572	80215	DM3	78 02 15	2528 72	29 55 00 N	86 05 00 W
231572	80216	DM3	78 02 15	2528 72	29 55 00 N	86 05 00 W
231572	80217	DM3	78 02 15	2528 72	29 55 00 N	86 05 00 W
231572	80218	DM3	78 02 15	2528 72	29 55 00 N	86 05 00 W
231572	80219	DM3	78 02 15	2528 72	29 55 00 N	86 05 00 W
231573	80208	DM3	78 02 08	2315 73	28 34 00 N	84 20 12 W
231573	80209	DM3	78 02 09	2315 73	28 34 00 N	84 20 12 W
231573	80210	DM3	78 02 10	2315 73	28 34 00 N	84 20 12 W
231573	80211	DM3	78 02 11	2315 73	28 34 00 N	84 20 12 W
231573	80212	DM3	78 02 12	2315 73	28 34 00 N	84 20 12 W
231573	80215	DM3	78 02 15	2528 73	29 55 00 N	86 05 00 W
231573	80216	DM3	78 02 15	2528 73	29 55 00 N	86 05 00 W
231573	80217	DM3	78 02 15	2528 73	29 55 00 N	86 05 00 W
231573	80218	DM3	78 02 15	2528 73	29 55 00 N	86 05 00 W
231573	80219	DM3	78 02 15	2528 73	29 55 00 N	86 05 00 W
231574	80208	DM3	78 02 08	2315 74	28 34 00 N	84 20 12 W
231574	80209	DM3	78 02 09	2315 74	28 34 00 N	84 20 12 W
231574	80210	DM3	78 02 10	2315 74	28 34 00 N	84 20 12 W
231574	80211	DM3	78 02 11	2315 74	28 34 00 N	84 20 12 W

### MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
231574	80212	DM3	78 02 12	2315	74	28 34 00 N	84 20 12 W
231574	80215	DM3	78 02 15	2528	74	29 55 00 N	86 05 00 W
231574	80216	DM3	78 02 15	2528	74	29 55 00 N	86 05 00 W
231574	80217	DM3	78 02 15	2528	74	29 55 00 N	86 05 00 W
231574	80218	DM3	78 02 15	2528	74	29 55 00 N	86 05 00 W
231574	80219	DM3	78 02 15	2528	74	29 55 00 N	86 05 00 W
231575	80208	DM3	78 02 08	2315	75	28 34 00 N	84 20 12 W
231575	80209	DM3	78 02 09	2315	75	28 34 00 N	84 20 12 W
231575	80210	DM3	78 02 10	2315	75	28 34 00 N	84 20 12 W
231575	80211	DM3	78 02 11	2315	75	28 34 00 N	84 20 12 W
231575	80212	DM3	78 02 12	2315	75	28 34 00 N	84 20 12 W
231575	80215	DM3	78 02 15	2528	75	29 55 00 N	86 05 00 W
231575	80216	DM3	78 02 15	2528	75	29 55 00 N	86 05 00 W
231575	80217	DM3	78 02 15	2528	75	29 55 00 N	86 05 00 W
231575	80218	DM3	78 02 15	2528	75	29 55 00 N	86 05 00 W
231575	80219	DM3	78 02 15	2528	75	29 55 00 N	86 05 00 W
231576	80208	DM3	78 02 08	2315	76	28 34 00 N	84 20 12 W
231576	80209	DM3	78 02 09	2315	76	28 34 00 N	84 20 12 W
231576	80210	DM3	78 02 10	2315	76	28 34 00 N	84 20 12 W
231576	80211	DM3	78 02 11	2315	76	28 34 00 N	84 20 12 W
231576	80212	DM3	78 02 12	2315	76	28 34 00 N	84 20 12 W
231576	80215	DM3	78 02 15	2528	76	29 55 00 N	86 05 00 W
231576	80216	DM3	78 02 15	2528	76	29 55 00 N	86 05 00 W
231576	80217	DM3	78 02 15	2528	76	29 55 00 N	86 05 00 W
231576	80218	DM3	78 02 15	2528	76	29 55 00 N	86 05 00 W
231576	80219	DM3	78 02 15	2528	76	29 55 00 N	86 05 00 W
231577	80209	DM3	78 02 09	2315	77	28 34 00 N	84 20 12 W
231577	80210	DM3	78 02 10	2315	77	28 34 00 N	84 20 12 W
231577	80211	DM3	78 02 11	2315	77	28 34 00 N	84 20 12 W
231577	80212	DM3	78 02 12	2315	77	28 34 00 N	84 20 12 W
231577	80215	DM3	78 02 15	2528	77	29 55 00 N	86 05 00 W
231577	80216	DM3	78 02 15	2528	77	29 55 00 N	86 05 00 W
231577	80217	DM3	78 02 15	2528	77	29 55 00 N	86 05 00 W
231577	80218	DM3	78 02 15	2528	77	29 55 00 N	86 05 00 W
231577	80219	DM3	78 02 15	2528	77	29 55 00 N	86 05 00 W
231578	80209	DM3	78 02 09	2315	78	28 34 00 N	84 20 12 W
231578	80210	DM3	78 02 10	2315	78	28 34 00 N	84 20 12 W
231578	80211	DM3	78 02 11	2315	78	28 34 00 N	84 20 12 W
231578	80212	DM3	78 02 12	2315	78	28 34 00 N	84 20 12 W
231578	80215	DM3	78 02 15	2528	78	29 55 00 N	86 05 00 W
231578	80216	DM3	78 02 15	2528	78	29 55 00 N	86 05 00 W
231578	80217	DM3	78 02 15	2528	78	29 55 00 N	86 05 00 W
231578	80218	DM3	78 02 15	2528	78	29 55 00 N	86 05 00 W
231578	80219	DM3	78 02 15	2528	78	29 55 00 N	86 05 00 W
231579	80209	DM3	78 02 09	2315	79	28 34 00 N	84 20 12 W
231579	80210	DM3	78 02 10	2315	79	28 34 00 N	84 20 12 W
231579	80211	DM3	78 02 11	2315	79	28 34 00 N	84 20 12 W
231579	80212	DM3	78 02 12	2315	79	28 34 00 N	84 20 12 W
231579	80216	DM3	78 02 15	2528	79	29 55 00 N	86 05 00 W
231579	80217	DM3	78 02 15	2528	79	29 55 00 N	86 05 00 W
231579	80218	DM3	78 02 15	2528	79	29 55 00 N	86 05 00 W
231579	80219	DM3	78 02 15	2528	79	29 55 00 N	86 05 00 W
231585	80208	DM3	78 02 08	2315	85	28 34 00 N	84 20 12 W
231585	80209	DM3	78 02 09	2315	85	28 34 00 N	84 20 12 W
231585	80210	DM3	78 02 10	2315	85	28 34 00 N	84 20 12 W
231585	80211	DM3	78 02 11	2315	85	28 34 00 N	84 20 12 W
231585	80212	DM3	78 02 12	2315	85	28 34 00 N	84 20 12 W
231585	80213	DM3	78 02 13	2315	85	28 34 00 N	84 20 12 W
231586	48209	DM3	78 02 09	2315	86	28 34 00 N	84 20 12 W
231586	80208	DM3	78 02 08	2315	86	28 34 00 N	84 20 12 W
231586	80209	DM3	78 02 09	2315	86	28 34 00 N	84 20 12 W
231586	80210	DM3	78 02 10	2315	86	28 34 00 N	84 20 12 W
231586	80211	DM3	78 02 11	2315	86	28 34 00 N	84 20 12 W
231586	80212	DM3	78 02 12	2315	86	28 34 00 N	84 20 12 W
231586	80213	DM3	78 02 13	2315	86	28 34 00 N	84 20 12 W
231587	80208	DM3	78 02 08	2315	87	28 34 00 N	84 20 12 W
231587	80209	DM3	78 02 09	2315	87	28 34 00 N	84 20 12 W
231587	80210	DM3	78 02 10	2315	87	28 34 00 N	84 20 12 W
231587	80211	DM3	78 02 11	2315	87	28 34 00 N	84 20 12 W
231587	80212	DM3	78 02 12	2315	87	28 34 00 N	84 20 12 W
231588	80208	DM3	78 02 08	2315	88	28 34 00 N	84 20 12 W
231588	80209	DM3	78 02 09	2315	88	28 34 00 N	84 20 12 W
231588	80210	DM3	78 02 10	2315	88	28 34 00 N	84 20 12 W
231588	80211	DM3	78 02 11	2315	88	28 34 00 N	84 20 12 W
231588	80212	DM3	78 02 12	2315	88	28 34 00 N	84 20 12 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
231589	80208	DM3	78 02 08	2315	89	28 34 00 N	84 20 12 W
231589	80209	DM3	78 02 09	2315	89	28 34 00 N	84 20 12 W
231589	80210	DM3	78 02 10	2315	89	28 34 00 N	84 20 12 W
231589	80211	DM3	78 02 11	2315	89	28 34 00 N	84 20 12 W
231589	80212	DM3	78 02 12	2315	89	28 34 00 N	84 20 12 W
231590	80208	DM3	78 02 08	2315	90	28 34 00 N	84 20 12 W
231590	80210	DM3	78 02 10	2315	90	28 34 00 N	84 20 12 W
231590	80211	DM3	78 02 11	2315	90	28 34 00 N	84 20 12 W
231590	80212	DM3	78 02 12	2315	90	28 34 00 N	84 20 12 W
231591	80210	DM3	78 02 10	2315	91	28 34 00 N	84 20 12 W
231591	80211	DM3	78 02 11	2315	91	28 34 00 N	84 20 12 W
231591	80212	DM3	78 02 12	2315	91	28 34 00 N	84 20 12 W
231592	80210	DM3	78 02 10	2315	92	28 34 00 N	84 20 12 W
231592	80211	DM3	78 02 11	2315	92	28 34 00 N	84 20 12 W
231592	80212	DM3	78 02 12	2315	92	28 34 00 N	84 20 12 W
231601	40628	2	74 06 09	2316	01	28 41 59 N	84 20 01 W
231601	50725	14	75 07 24	2316	01	28 42 01 N	84 20 01 W
231601	50919	21	75 09 19	2316	01	28 42 00 N	84 20 00 W
231601	602 3	29	76 02 03	2316	01	28 42 01 N	84 19 59 W
231601	60203	29	76 02 03	2316	01	28 42 01 N	84 19 59 W
231601	60702	39	76 07 02	2316	01	28 42 00 N	84 19 58 W
231601	70830	DM1	77 08 30	2316	01	28 42 03 N	84 20 08 W
231601	71109	DM2	77 11 09	2316	01	28 24 06 N	85 14 16 W
231601	80214	DM4	78 02 14	2316	01	28 42 02 N	84 20 00 W
231602	40628	2	74 06 09	2316	02	28 41 59 N	84 20 01 W
231602	50725	14	75 07 24	2316	02	28 42 01 N	84 20 01 W
231602	50919	21	75 09 19	2316	02	28 42 00 N	84 20 00 W
231602	602 3	29	76 02 03	2316	02	28 42 01 N	84 19 59 W
231602	60203	29	76 02 03	2316	02	28 42 01 N	84 19 59 W
231602	60702	39	76 07 02	2316	02	28 42 00 N	84 19 58 W
231602	70830	DM1	77 08 30	2316	02	28 42 03 N	84 20 08 W
231602	71109	DM2	77 11 09	2316	02	28 24 06 N	85 14 16 W
231602	80214	DM4	78 02 14	2316	02	28 42 02 N	84 20 00 W
231602	80216	DM4	78 02 14	2316	02	28 42 02 N	84 20 00 W
231603	50725	14	75 07 24	2316	03	28 42 01 N	84 20 01 W
231603	50919	21	75 09 19	2316	03	28 42 00 N	84 20 00 W
231603	602 3	29	76 02 03	2316	03	28 42 01 N	84 19 59 W
231603	60203	29	76 02 03	2316	03	28 42 01 N	84 19 59 W
231603	60702	39	76 07 02	2316	03	28 42 00 N	84 19 58 W
231603	70803	DM1	77 08 30	2316	03	28 42 03 N	84 20 08 W
231603	70830	DM1	77 08 30	2316	03	28 42 03 N	84 20 08 W
231603	71109	DM2	77 11 09	2316	03	28 24 06 N	85 14 16 W
231603	80214	DM4	78 02 14	2316	03	28 42 02 N	84 20 00 W
231604	50725	14	75 07 24	2316	04	28 42 01 N	84 20 01 W
231604	50919	21	75 09 19	2316	04	28 42 00 N	84 20 00 W
231604	602 3	29	76 02 03	2316	04	28 42 01 N	84 19 59 W
231604	60203	29	76 02 03	2316	04	28 42 01 N	84 19 59 W
231604	60702	39	76 07 02	2316	04	28 42 00 N	84 19 58 W
231604	70803	DM1	77 08 30	2316	04	28 42 03 N	84 20 08 W
231604	70830	DM1	77 08 30	2316	04	28 42 03 N	84 20 08 W
231604	71109	DM2	77 11 09	2316	04	28 24 06 N	85 14 16 W
231604	80214	DM4	78 02 14	2316	04	28 42 02 N	84 20 00 W
231605	50725	14	75 07 24	2316	05	28 42 01 N	84 20 01 W
231605	50919	21	75 09 19	2316	05	28 42 00 N	84 20 00 W
231605	602 3	29	76 02 03	2316	05	28 42 01 N	84 19 59 W
231605	60203	29	76 02 03	2316	05	28 42 01 N	84 19 59 W
231605	60702	39	76 07 02	2316	05	28 42 00 N	84 19 58 W
231605	70803	DM1	77 08 30	2316	05	28 42 03 N	84 20 08 W
231605	70830	DM1	77 08 30	2316	05	28 42 03 N	84 20 08 W
231605	71109	DM2	77 11 09	2316	05	28 24 06 N	85 14 16 W
231605	80214	DM4	78 02 14	2316	05	28 42 02 N	84 20 00 W
231606	50725	14	75 07 24	2316	06	28 42 01 N	84 20 01 W
231606	50919	21	75 09 19	2316	06	28 42 00 N	84 20 00 W
231606	602 3	29	76 02 03	2316	06	28 42 01 N	84 19 59 W
231606	60203	29	76 02 03	2316	06	28 42 01 N	84 19 59 W
231606	60702	39	76 07 02	2316	06	28 42 00 N	84 19 58 W
231606	70803	DM1	77 08 30	2316	06	28 42 03 N	84 20 08 W
231606	70830	DM1	77 08 30	2316	06	28 42 03 N	84 20 08 W
231606	71109	DM2	77 11 09	2316	06	28 24 06 N	85 14 16 W
231606	80214	DM4	78 02 14	2316	06	28 42 02 N	84 20 00 W
231607	50725	14	75 07 24	2316	07	28 42 01 N	84 20 01 W
231607	50919	21	75 09 19	2316	07	28 42 00 N	84 20 00 W
231607	602 3	29	76 02 03	2316	07	28 42 01 N	84 19 59 W
231607	60203	29	76 02 03	2316	07	28 42 01 N	84 19 59 W
231607	60702	39	76 07 02	2316	07	28 42 00 N	84 19 58 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
231607	70803	DM1	77 08 30	2316	07	28 42 03 N	84 20 08 W
231607	70830	DM1	77 08 30	2316	07	28 42 03 N	84 20 08 W
231607	71109	DM2	77 11 09	2316	07	28 24 06 N	85 14 16 W
231607	80214	DM4	78 02 14	2316	07	28 42 02 N	84 20 00 W
231608	40616	2	74 06 09	2316	08	28 41 59 N	84 20 01 W
231608	50725	14	75 07 24	2316	08	28 42 01 N	84 20 01 W
231608	50919	21	75 09 19	2316	08	28 42 00 N	84 20 00 W
231608	602 3	29	76 02 03	2316	08	28 42 01 N	84 19 59 W
231608	60203	29	76 02 03	2316	08	28 42 01 N	84 19 59 W
231608	60702	39	76 07 02	2316	08	28 42 00 N	84 19 58 W
231608	70803	DM1	77 08 30	2316	08	28 42 03 N	84 20 08 W
231608	70830	DM1	77 08 30	2316	08	28 42 03 N	84 20 08 W
231608	71109	DM2	77 11 09	2316	08	28 24 06 N	85 14 16 W
231608	80214	DM4	78 02 14	2316	08	28 42 02 N	84 20 00 W
231609	50725	14	75 07 24	2316	09	28 42 01 N	84 20 01 W
231609	50919	21	75 09 19	2316	09	28 42 00 N	84 20 00 W
231609	602 3	29	76 02 03	2316	09	28 42 01 N	84 19 59 W
231609	60203	29	76 02 03	2316	09	28 42 01 N	84 19 59 W
231609	60702	39	76 07 02	2316	09	28 42 00 N	84 19 58 W
231609	70803	DM1	77 08 30	2316	09	28 42 03 N	84 20 08 W
231609	70830	DM1	77 08 30	2316	09	28 42 03 N	84 20 08 W
231609	71109	DM2	77 11 09	2316	09	28 24 06 N	85 14 16 W
231609	80214	DM4	78 02 14	2316	09	28 42 02 N	84 20 00 W
231610	60702	39	76 07 02	2316	10	28 42 00 N	84 19 58 W
231610	70803	DM1	77 08 30	2316	10	28 42 03 N	84 20 08 W
231610	70830	DM1	77 08 30	2316	10	28 42 03 N	84 20 08 W
231610	71109	DM2	77 11 09	2316	10	28 24 06 N	85 14 16 W
231610	80214	DM4	78 02 14	2316	10	28 42 02 N	84 20 00 W
231611	50725	14	75 07 24	2316	11	28 42 01 N	84 20 01 W
231611	50919	21	75 09 19	2316	11	28 42 00 N	84 20 00 W
231611	60203	29	76 02 03	2316	11	28 42 01 N	84 19 59 W
231611	70803	DM1	77 08 30	2316	11	28 42 03 N	84 20 08 W
231611	70830	DM1	77 08 30	2316	11	28 42 03 N	84 20 08 W
231611	71109	DM2	77 11 09	2316	11	28 24 06 N	85 14 16 W
231611	80214	DM4	78 02 14	2316	11	28 42 02 N	84 20 00 W
231612	80214	DM4	78 02 14	2316	12	28 42 02 N	84 20 00 W
231613	80213	DM4	78 02 14	2316	13	28 42 02 N	84 20 00 W
231613	80214	DM4	78 02 14	2316	13	28 42 02 N	84 20 00 W
231614	80214	DM4	78 02 14	2316	14	28 42 02 N	84 20 00 W
231615	80214	DM4	78 02 14	2316	15	28 42 02 N	84 20 00 W
231616	80214	DM4	78 02 14	2316	16	28 42 02 N	84 20 00 W
231650	70830	DM1	77 08 30	2316	50	28 42 03 N	84 20 08 W
231650	71109	DM2	77 11 09	2316	50	28 24 06 N	85 14 16 W
231650	80214	DM4	78 02 14	2316	50	28 42 02 N	84 20 00 W
231668	71109	DM2	77 11 09	2316	68	28 24 06 N	85 14 16 W
231673	71109	DM2	77 11 09	2316	73	28 24 06 N	85 14 16 W
231701	50609	10	75 06 09	2317	01	28 56 00 N	84 06 01 W
231701	50725	14	75 07 25	2317	01	28 56 02 N	84 06 04 W
231701	50919	21	75 09 19	2317	01	28 56 00 N	84 06 00 W
231701	602 3	29	76 02 03	2317	01	28 55 59 N	84 06 00 W
231701	60203	29	76 02 03	2317	01	28 55 59 N	84 06 00 W
231701	60702	39	76 07 02	2317	01	28 56 03 N	84 05 57 W
231701	70830	DM1	77 08 31	2317	01	28 56 14 N	84 06 16 W
231701	70831	DM1	77 08 31	2317	01	28 56 14 N	84 06 16 W
231701	71109	DM2	77 11 09	2317	01	29 56 00 N	84 06 01 W
231701	80213	DM4	78 02 13	2317	01	28 55 56 N	84 06 01 W
231702	50609	10	75 06 09	2317	02	28 56 00 N	84 06 01 W
231702	50725	14	75 07 25	2317	02	28 56 02 N	84 06 04 W
231702	50919	21	75 09 19	2317	02	28 56 00 N	84 06 00 W
231702	602 3	29	76 02 03	2317	02	28 55 59 N	84 06 00 W
231702	60203	29	76 02 03	2317	02	28 55 59 N	84 06 00 W
231702	60702	39	76 07 02	2317	02	28 56 03 N	84 05 57 W
231702	70831	DM1	77 08 31	2317	02	28 56 14 N	84 06 16 W
231703	50609	10	75 06 09	2317	03	28 56 00 N	84 06 01 W
231703	50725	14	75 07 25	2317	03	28 56 02 N	84 06 04 W
231703	50919	21	75 09 19	2317	03	28 56 00 N	84 06 00 W
231703	602 3	29	76 02 03	2317	03	28 55 59 N	84 06 00 W
231703	60203	29	76 02 03	2317	03	28 55 59 N	84 06 00 W
231703	60702	39	76 07 02	2317	03	28 56 03 N	84 05 57 W
231703	70831	DM1	77 08 31	2317	03	28 56 14 N	84 06 16 W
231704	50609	10	75 06 09	2317	04	28 56 00 N	84 06 01 W
231704	50725	14	75 07 25	2317	04	28 56 02 N	84 06 04 W
231704	50919	21	75 09 19	2317	04	28 56 00 N	84 06 00 W
231704	602 3	29	76 02 03	2317	04	28 55 59 N	84 06 00 W
231704	60203	29	76 02 03	2317	04	28 55 59 N	84 06 00 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
231704 60702	39	76 07 02	2317	04	28 56 03 N	84 05 57 W
231704 70831	DM1	77 08 31	2317	04	28 56 14 N	84 06 16 W
231705 50609	10	75 06 09	2317	05	28 56 00 N	84 06 01 W
231705 50725	14	75 07 25	2317	05	28 56 02 N	84 06 04 W
231705 50919	21	75 09 19	2317	05	28 56 00 N	84 06 00 W
231705 602 3	29	76 02 03	2317	05	28 55 59 N	84 06 00 W
231705 60203	29	76 02 03	2317	05	28 55 59 N	84 06 00 W
231705 60702	39	76 07 02	2317	05	28 56 03 N	84 05 57 W
231705 70831	DM1	77 08 31	2317	05	28 56 14 N	84 06 16 W
231706 50609	10	75 06 09	2317	06	28 56 00 N	84 06 01 W
231706 50725	14	75 07 25	2317	06	28 56 02 N	84 06 04 W
231706 50919	21	75 09 19	2317	06	28 56 00 N	84 06 00 W
231706 602 3	29	76 02 03	2317	06	28 55 59 N	84 06 00 W
231706 60203	29	76 02 03	2317	06	28 55 59 N	84 06 00 W
231706 60702	39	76 07 02	2317	06	28 56 03 N	84 05 57 W
231706 70831	DM1	77 08 31	2317	06	28 56 14 N	84 06 16 W
231707 50609	10	75 06 09	2317	07	28 56 00 N	84 06 01 W
231707 50725	14	75 07 25	2317	07	28 56 02 N	84 06 04 W
231707 50919	21	75 09 19	2317	07	28 56 00 N	84 06 00 W
231707 602 3	29	76 02 03	2317	07	28 55 59 N	84 06 00 W
231707 60203	29	76 02 03	2317	07	28 55 59 N	84 06 00 W
231707 60702	39	76 07 02	2317	07	28 56 03 N	84 05 57 W
231708 50609	10	75 06 09	2317	08	28 56 00 N	84 06 01 W
231708 50725	14	75 07 25	2317	08	28 56 02 N	84 06 04 W
231708 50919	21	75 09 19	2317	08	28 56 00 N	84 06 00 W
231708 602 3	29	76 02 03	2317	08	28 55 59 N	84 06 00 W
231708 60203	29	76 02 03	2317	08	28 55 59 N	84 06 00 W
231708 60702	39	76 07 02	2317	08	28 56 03 N	84 05 57 W
231709 50609	10	75 06 09	2317	09	28 56 00 N	84 06 01 W
231709 50725	14	75 07 25	2317	09	28 56 02 N	84 06 04 W
231709 50919	21	75 09 19	2317	09	28 56 00 N	84 06 00 W
231709 602 3	29	76 02 03	2317	09	28 55 59 N	84 06 00 W
231709 60203	29	76 02 03	2317	09	28 55 59 N	84 06 00 W
231709 60702	39	76 07 02	2317	09	28 56 03 N	84 05 57 W
231709 80216	DM4	78 02 13	2317	09	28 55 56 N	84 06 01 W
231710 60702	39	76 07 02	2317	10	28 56 03 N	84 05 57 W
231711 50725	14	75 07 25	2317	11	28 56 02 N	84 06 04 W
231711 50919	21	75 09 19	2317	11	28 56 00 N	84 06 00 W
231711 60203	29	76 02 03	2317	11	28 55 59 N	84 06 00 W
231750 70831	DM1	77 08 31	2317	50	28 56 14 N	84 06 16 W
231750 71109	DM2	77 11 09	2317	50	29 56 00 N	84 06 01 W
231750 80213	DM4	78 02 13	2317	50	28 55 56 N	84 06 01 W
231768 71109	DM2	77 11 09	2317	68	29 56 00 N	84 06 01 W
231801 506 9	10	75 06 09	2318	01	29 04 59 N	83 45 01 W
231801 50609	10	75 06 09	2318	01	29 04 59 N	83 45 01 W
231801 50919	21	75 09 19	2318	01	29 05 06 N	84 45 36 W
231801 602 4	29	76 02 03	2318	01	29 05 00 N	83 44 59 W
231801 60204	29	76 02 03	2318	01	29 05 00 N	83 44 59 W
231801 60702	39	76 07 03	2318	01	29 05 01 N	83 44 59 W
231801 60703	39	76 07 03	2318	01	29 05 01 N	83 44 59 W
231801 70831	DM1	77 08 31	2318	01	29 05 01 N	83 45 08 W
231801 71109	DM2	77 11 09	2318	01	29 05 04 N	83 45 06 W
231801 80213	DM4	78 02 13	2318	01	29 08 07 N	83 43 45 W
231802 506 9	10	75 06 09	2318	02	29 04 59 N	83 45 01 W
231802 50609	10	75 06 09	2318	02	29 04 59 N	83 45 01 W
231802 50919	21	75 09 19	2318	02	29 05 06 N	84 45 36 W
231802 602 4	29	76 02 03	2318	02	29 05 00 N	83 44 59 W
231802 60204	29	76 02 03	2318	02	29 05 00 N	83 44 59 W
231802 60703	39	76 07 03	2318	02	29 05 01 N	83 44 59 W
231802 70831	DM1	77 08 31	2318	02	29 05 01 N	83 45 08 W
231802 71109	DM2	77 11 09	2318	02	29 05 04 N	83 45 06 W
231802 80213	DM4	78 02 13	2318	02	29 08 07 N	83 43 45 W
231803 506 9	10	75 06 09	2318	03	29 04 59 N	83 45 01 W
231803 50609	10	75 06 09	2318	03	29 04 59 N	83 45 01 W
231803 50919	21	75 09 19	2318	03	29 05 06 N	84 45 36 W
231803 602 4	29	76 02 03	2318	03	29 05 00 N	83 44 59 W
231803 60204	29	76 02 03	2318	03	29 05 00 N	83 44 59 W
231803 60703	39	76 07 03	2318	03	29 05 01 N	83 44 59 W
231803 70831	DM1	77 08 31	2318	03	29 05 01 N	83 45 08 W
231803 71109	DM2	77 11 09	2318	03	29 05 04 N	83 45 06 W
231803 80213	DM4	78 02 13	2318	03	29 08 07 N	83 43 45 W
231804 506 9	10	75 06 09	2318	04	29 04 59 N	83 45 01 W
231804 50609	10	75 06 09	2318	04	29 04 59 N	83 45 01 W
231804 50919	21	75 09 19	2318	04	29 05 06 N	84 45 36 W
231804 602 4	29	76 02 03	2318	04	29 05 00 N	83 44 59 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
231804	60204	29	76 02 03	2318	04	29 05 00 N	83 44 59 W
231804	60703	39	76 07 03	2318	04	29 05 01 N	83 44 59 W
231804	70831	DM1	77 08 31	2318	04	29 05 01 N	83 45 08 W
231804	71109	DM2	77 11 09	2318	04	29 05 04 N	83 45 08 W
231804	80213	DM4	78 02 13	2318	04	29 08 07 N	83 43 45 W
231805	506 9	10	75 06 09	2318	05	29 04 59 N	83 45 01 W
231805	50609	10	75 06 09	2318	05	29 04 59 N	83 45 01 W
231805	50919	21	75 09 19	2318	05	29 05 06 N	84 45 36 W
231805	602 4	29	76 02 03	2318	05	29 05 00 N	83 44 59 W
231805	60204	29	76 02 03	2318	05	29 05 00 N	83 44 59 W
231805	60703	39	76 07 03	2318	05	29 05 01 N	83 44 59 W
231805	70831	DM1	77 08 31	2318	05	29 05 01 N	83 45 08 W
231805	71109	DM2	77 11 09	2318	05	29 05 04 N	83 45 08 W
231805	80213	DM4	78 02 13	2318	05	29 08 07 N	83 43 45 W
231806	506 9	10	75 06 09	2318	06	29 04 59 N	83 45 01 W
231806	50609	10	75 06 09	2318	06	29 04 59 N	83 45 01 W
231806	50919	21	75 09 19	2318	06	29 05 06 N	84 45 36 W
231806	602 4	29	76 02 03	2318	06	29 05 00 N	83 44 59 W
231806	60204	29	76 02 03	2318	06	29 05 00 N	83 44 59 W
231806	60703	39	76 07 03	2318	06	29 05 01 N	83 44 59 W
231806	70831	DM1	77 08 31	2318	06	29 05 01 N	83 45 08 W
231806	71109	DM2	77 11 09	2318	06	29 05 04 N	83 45 08 W
231806	80213	DM4	78 02 13	2318	06	29 08 07 N	83 43 45 W
231807	506 9	10	75 06 09	2318	07	29 04 59 N	83 45 01 W
231807	50609	10	75 06 09	2318	07	29 04 59 N	83 45 01 W
231807	50919	21	75 09 19	2318	07	29 05 06 N	84 45 36 W
231807	602 4	29	76 02 03	2318	07	29 05 00 N	83 44 59 W
231807	60204	29	76 02 03	2318	07	29 05 00 N	83 44 59 W
231807	60703	39	76 07 03	2318	07	29 05 01 N	83 44 59 W
231807	70831	DM1	77 08 31	2318	07	29 05 01 N	83 45 08 W
231807	71109	DM2	77 11 09	2318	07	29 05 04 N	83 45 08 W
231807	80213	DM4	78 02 13	2318	07	29 08 07 N	83 43 45 W
231808	506 9	10	75 06 09	2318	08	29 04 59 N	83 45 01 W
231808	50609	10	75 06 09	2318	08	29 04 59 N	83 45 01 W
231808	50919	21	75 09 19	2318	08	29 05 06 N	84 45 36 W
231808	602 4	29	76 02 03	2318	08	29 05 00 N	83 44 59 W
231808	60204	29	76 02 03	2318	08	29 05 00 N	83 44 59 W
231808	60703	39	76 07 03	2318	08	29 05 01 N	83 44 59 W
231808	70831	DM1	77 08 31	2318	08	29 05 01 N	83 45 08 W
231808	71109	DM2	77 11 09	2318	08	29 05 04 N	83 45 08 W
231808	80213	DM4	78 02 13	2318	08	29 08 07 N	83 43 45 W
231809	506 9	10	75 06 09	2318	09	29 04 59 N	83 45 01 W
231809	50609	10	75 06 09	2318	09	29 04 59 N	83 45 01 W
231809	50919	21	75 09 19	2318	09	29 05 06 N	84 45 36 W
231809	602 4	29	76 02 03	2318	09	29 05 00 N	83 44 59 W
231809	60204	29	76 02 03	2318	09	29 05 00 N	83 44 59 W
231809	60703	39	76 07 03	2318	09	29 05 01 N	83 44 59 W
231809	70831	DM1	77 08 31	2318	09	29 05 01 N	83 45 08 W
231809	71109	DM2	77 11 09	2318	09	29 05 04 N	83 45 08 W
231809	80213	DM4	78 02 13	2318	09	29 08 07 N	83 43 45 W
231810	60702	39	76 07 03	2318	10	29 05 01 N	83 44 59 W
231810	60703	39	76 07 03	2318	10	29 05 01 N	83 44 59 W
231810	70831	DM1	77 08 31	2318	10	29 05 01 N	83 45 08 W
231810	71109	DM2	77 11 09	2318	10	29 05 04 N	83 45 08 W
231810	80213	DM4	78 02 13	2318	10	29 08 07 N	83 43 45 W
231811	50609	10	75 06 09	2318	11	29 04 59 N	83 45 01 W
231811	50919	21	75 09 19	2318	11	29 05 06 N	84 45 36 W
231811	60204	29	76 02 03	2318	11	29 05 00 N	83 44 59 W
231811	70831	DM1	77 08 31	2318	11	29 05 01 N	83 45 08 W
231811	71109	DM2	77 11 09	2318	11	29 05 04 N	83 45 08 W
231811	80213	DM4	78 02 13	2318	11	29 08 07 N	83 43 45 W
231812	70831	DM1	77 08 31	2318	12	29 05 01 N	83 45 08 W
231813	70831	DM1	77 08 31	2318	13	29 05 01 N	83 45 08 W
231814	70831	DM1	77 08 31	2318	14	29 05 01 N	83 45 08 W
231815	70831	DM1	77 08 31	2318	15	29 05 01 N	83 45 08 W
231816	70831	DM1	77 08 31	2318	16	29 05 01 N	83 45 08 W
231850	70831	DM1	77 08 31	2318	50	29 05 01 N	83 45 08 W
231850	71109	DM2	77 11 09	2318	50	29 05 04 N	83 45 06 W
231850	80213	DM4	78 02 13	2318	50	29 08 07 N	83 43 45 W
231868	71109	DM2	77 11 09	2318	68	29 05 04 N	83 45 06 W
231873	71109	DM2	77 11 09	2318	73	29 05 04 N	83 45 06 W
236101	70920	DM1	77 08 30	2318	01	28 42 03 N	84 20 08 W
236102	70920	DM1	77 08 30	2318	02	28 42 03 N	84 20 08 W
241901	506 8	10	75 06 06	2419	01	29 48 58 N	84 05 01 W
241901	50606	10	75 06 06	2419	01	29 48 58 N	84 05 01 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
241901	50919	21	75 09 19	2419	01	29 47 00 N 84 05 00 W
241901	602 4	29	76 02 04	2419	01	29 47 01 N 84 05 00 W
241901	60204	29	76 02 04	2419	01	29 47 01 N 84 05 00 W
241901	60703	39	76 07 03	2419	01	29 47 01 N 84 04 58 W
241901	70831	DM1	77 08 31	2419	01	29 47 02 N 84 05 01 W
241901	71109	DM2	77 11 09	2419	01	29 47 01 N 85 05 02 W
241901	80213	DM4	78 02 13	2419	01	29 47 01 N 84 04 52 W
241902	506 6	10	75 06 06	2419	02	29 46 58 N 84 05 01 W
241902	50606	10	75 06 06	2419	02	29 46 58 N 84 05 01 W
241902	50919	21	75 09 19	2419	02	29 47 00 N 84 05 00 W
241902	602 4	29	76 02 04	2419	02	29 47 01 N 84 05 00 W
241902	60204	29	76 02 04	2419	02	29 47 01 N 84 05 00 W
241902	70831	DM1	77 08 31	2419	02	29 47 02 N 84 05 01 W
241902	71109	DM2	77 11 09	2419	02	29 47 01 N 85 05 02 W
241902	80213	DM4	78 02 13	2419	02	29 47 01 N 84 04 52 W
241903	506 6	10	75 06 06	2419	03	29 46 58 N 84 05 01 W
241903	50606	10	75 06 06	2419	03	29 46 58 N 84 05 01 W
241903	50919	21	75 09 19	2419	03	29 47 00 N 84 05 00 W
241903	602 4	29	76 02 04	2419	03	29 47 01 N 84 05 00 W
241903	60204	29	76 02 04	2419	03	29 47 01 N 84 05 00 W
241903	70831	DM1	77 08 31	2419	03	29 47 02 N 84 05 01 W
241903	71109	DM2	77 11 09	2419	03	29 47 01 N 85 05 02 W
241903	80213	DM4	78 02 13	2419	03	29 47 01 N 84 04 52 W
241904	506 6	10	75 06 06	2419	04	29 46 58 N 84 05 01 W
241904	50606	10	75 06 06	2419	04	29 46 58 N 84 05 01 W
241904	50919	21	75 09 19	2419	04	29 47 00 N 84 05 00 W
241904	602 4	29	76 02 04	2419	04	29 47 01 N 84 05 00 W
241904	60204	29	76 02 04	2419	04	29 47 01 N 84 05 00 W
241904	70831	DM1	77 08 31	2419	04	29 47 02 N 84 05 01 W
241904	71109	DM2	77 11 09	2419	04	29 47 01 N 85 05 02 W
241904	80213	DM4	78 02 13	2419	04	29 47 01 N 84 04 52 W
241905	506 6	10	75 06 06	2419	05	29 46 58 N 84 05 01 W
241905	50606	10	75 06 06	2419	05	29 46 58 N 84 05 01 W
241905	50919	21	75 09 19	2419	05	29 47 00 N 84 05 00 W
241905	602 4	29	76 02 04	2419	05	29 47 01 N 84 05 00 W
241905	60204	29	76 02 04	2419	05	29 47 01 N 84 05 00 W
241905	70831	DM1	77 08 31	2419	05	29 47 02 N 84 05 01 W
241905	71109	DM2	77 11 09	2419	05	29 47 01 N 85 05 02 W
241905	80213	DM4	78 02 13	2419	05	29 47 01 N 84 04 52 W
241906	506 6	10	75 06 06	2419	06	29 46 58 N 84 05 01 W
241906	50606	10	75 06 06	2419	06	29 46 58 N 84 05 01 W
241906	50919	21	75 09 19	2419	06	29 47 00 N 84 05 00 W
241906	602 4	29	76 02 04	2419	06	29 47 01 N 84 05 00 W
241906	60204	29	76 02 04	2419	06	29 47 01 N 84 05 00 W
241906	70831	DM1	77 08 31	2419	06	29 47 02 N 84 05 01 W
241906	71109	DM2	77 11 09	2419	06	29 47 01 N 85 05 02 W
241906	80213	DM4	78 02 13	2419	06	29 47 01 N 84 04 52 W
241907	0213	DM4	78 02 13	2419	07	29 47 01 N 84 04 52 W
241907	0831	DM1	77 08 31	2419	07	29 47 02 N 84 05 01 W
241907	506 6	10	75 06 06	2419	07	29 46 58 N 84 05 01 W
241907	50606	10	75 06 06	2419	07	29 46 58 N 84 05 01 W
241907	50919	21	75 09 19	2419	07	29 47 00 N 84 05 00 W
241907	602 4	29	76 02 04	2419	07	29 47 01 N 84 05 00 W
241907	60204	29	76 02 04	2419	07	29 47 01 N 84 05 00 W
241907	70831	DM1	77 08 31	2419	07	29 47 02 N 84 05 01 W
241907	71109	DM2	77 11 09	2419	07	29 47 01 N 85 05 02 W
241907	80213	DM4	78 02 13	2419	07	29 47 01 N 84 04 52 W
241908	0213	DM4	78 02 13	2419	08	29 47 01 N 84 04 52 W
241908	213	DM4	78 02 13	2318	08	29 08 07 N 83 43 45 W
241908	506 6	10	75 06 06	2419	08	29 46 58 N 84 05 01 W
241908	50606	10	75 06 06	2419	08	29 46 58 N 84 05 01 W
241908	50919	21	75 09 19	2419	08	29 47 00 N 84 05 00 W
241908	602 4	29	76 02 04	2419	08	29 47 01 N 84 05 00 W
241908	60204	29	76 02 04	2419	08	29 47 01 N 84 05 00 W
241908	70831	DM1	77 08 31	2419	08	29 47 02 N 84 05 01 W
241908	71109	DM2	77 11 09	2419	08	29 47 01 N 85 05 02 W
241908	80213	DM4	78 02 13	2419	08	29 47 01 N 84 04 52 W
241909	506 6	10	75 06 06	2419	09	29 46 58 N 84 05 01 W
241909	50606	10	75 06 06	2419	09	29 46 58 N 84 05 01 W
241909	50919	21	75 09 19	2419	09	29 47 00 N 84 05 00 W
241909	602 4	29	76 02 04	2419	09	29 47 01 N 84 05 00 W
241909	60204	29	76 02 04	2419	09	29 47 01 N 84 05 00 W
241909	70831	DM1	77 08 31	2419	09	29 47 02 N 84 05 01 W
241909	71109	DM2	77 11 09	2419	09	29 47 01 N 85 05 02 W
241909	80213	DM4	78 02 13	2419	09	29 47 01 N 84 04 52 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
241910	70831	DM1	77 08 31	2419	10	29 47 02 N	84 05 01 W
241910	71109	DM2	77 11 09	2419	10	29 47 01 N	85 05 02 W
241910	80213	DM4	78 02 13	2419	10	29 47 01 N	84 04 52 W
241911	50606	10	75 06 06	2419	11	29 46 58 N	84 05 01 W
241911	50919	21	75 09 19	2419	11	29 47 00 N	84 05 00 W
241911	60204	29	76 02 04	2419	11	29 47 01 N	84 05 00 W
241911	70831	DM1	77 08 31	2419	11	29 47 02 N	84 05 01 W
241911	71109	DM2	77 11 09	2419	11	29 47 01 N	85 05 02 W
241911	80213	DM4	78 02 13	2419	11	29 47 01 N	84 04 52 W
241912	80213	DM4	78 02 13	2419	12	29 47 01 N	84 04 52 W
241913	80213	DM4	78 02 13	2419	13	29 47 01 N	84 04 52 W
241914	80213	DM4	78 02 13	2419	14	29 47 01 N	84 04 52 W
241915	80213	DM4	78 02 13	2419	15	29 47 01 N	84 04 52 W
241916	80213	DM4	78 02 13	2419	16	29 47 01 N	84 04 52 W
241950	70831	DM1	77 08 31	2419	50	29 47 02 N	84 05 01 W
241950	71109	DM2	77 11 09	2419	50	29 47 01 N	85 05 02 W
241950	80213	DM4	78 02 13	2419	50	29 47 01 N	84 04 52 W
241968	71109	DM2	77 11 09	2419	68	29 47 01 N	85 05 02 W
241973	71109	DM2	77 11 09	2419	73	29 47 01 N	85 05 02 W
242001	506 6	10	75 06 06	2420	01	29 41 58 N	84 11 01 W
242001	50606	10	75 06 06	2420	01	29 41 58 N	84 11 01 W
242001	50919	21	75 09 19	2420	01	29 42 00 N	84 11 00 W
242001	602 5	29	76 02 05	2420	01	29 42 00 N	84 11 00 W
242001	60205	29	76 02 05	2420	01	29 42 00 N	84 11 00 W
242001	60703	39	76 07 04	2420	01	29 42 01 N	84 10 58 W
242001	60704	39	76 07 04	2420	01	29 42 01 N	84 10 58 W
242002	506 6	10	75 06 06	2420	02	29 41 58 N	84 11 01 W
242002	50606	10	75 06 06	2420	02	29 41 58 N	84 11 01 W
242002	50919	21	75 09 19	2420	02	29 42 00 N	84 11 00 W
242002	602 5	29	76 02 05	2420	02	29 42 00 N	84 11 00 W
242002	60205	29	76 02 05	2420	02	29 42 00 N	84 11 00 W
242002	60703	39	76 07 04	2420	02	29 42 01 N	84 10 58 W
242002	60704	39	76 07 04	2420	02	29 42 01 N	84 10 58 W
242003	506 6	10	75 06 06	2420	03	29 41 58 N	84 11 01 W
242003	50606	10	75 06 06	2420	03	29 41 58 N	84 11 01 W
242003	50919	21	75 09 19	2420	03	29 42 00 N	84 11 00 W
242003	602 5	29	76 02 05	2420	03	29 42 00 N	84 11 00 W
242003	60205	29	76 02 05	2420	03	29 42 00 N	84 11 00 W
242003	60703	39	76 07 04	2420	03	29 42 01 N	84 10 58 W
242003	60704	39	76 07 04	2420	03	29 42 01 N	84 10 58 W
242004	506 6	10	75 06 06	2420	04	29 41 58 N	84 11 01 W
242004	50606	10	75 06 06	2420	04	29 41 58 N	84 11 01 W
242004	50919	21	75 09 19	2420	04	29 42 00 N	84 11 00 W
242004	602 5	29	76 02 05	2420	04	29 42 00 N	84 11 00 W
242004	60205	29	76 02 05	2420	04	29 42 00 N	84 11 00 W
242004	60703	39	76 07 04	2420	04	29 42 01 N	84 10 58 W
242004	60704	39	76 07 04	2420	04	29 42 01 N	84 10 58 W
242005	506 6	10	75 06 06	2420	05	29 41 58 N	84 11 01 W
242005	50606	10	75 06 06	2420	05	29 41 58 N	84 11 01 W
242005	50919	21	75 09 19	2420	05	29 42 00 N	84 11 00 W
242005	602 5	29	76 02 05	2420	05	29 42 00 N	84 11 00 W
242005	60205	29	76 02 05	2420	05	29 42 00 N	84 11 00 W
242005	60703	39	76 07 04	2420	05	29 42 01 N	84 10 58 W
242005	60704	39	76 07 04	2420	05	29 42 01 N	84 10 58 W
242006	506 6	10	75 06 06	2420	06	29 41 58 N	84 11 01 W
242006	50606	10	75 06 06	2420	06	29 41 58 N	84 11 01 W
242006	50919	21	75 09 19	2420	06	29 42 00 N	84 11 00 W
242006	602 5	29	76 02 05	2420	06	29 42 00 N	84 11 00 W
242006	60205	29	76 02 05	2420	06	29 42 00 N	84 11 00 W
242006	60703	39	76 07 04	2420	06	29 42 01 N	84 10 58 W
242006	60704	39	76 07 04	2420	06	29 42 01 N	84 10 58 W
242007	506 6	10	75 06 06	2420	07	29 41 58 N	84 11 01 W
242007	50606	10	75 06 06	2420	07	29 41 58 N	84 11 01 W
242007	50919	21	75 09 19	2420	07	29 42 00 N	84 11 00 W
242007	602 5	29	76 02 05	2420	07	29 42 00 N	84 11 00 W
242007	60205	29	76 02 05	2420	07	29 42 00 N	84 11 00 W
242007	60703	39	76 07 04	2420	07	29 42 01 N	84 10 58 W
242007	60704	39	76 07 04	2420	07	29 42 01 N	84 10 58 W
242008	506 6	10	75 06 06	2420	08	29 41 58 N	84 11 01 W
242008	50606	10	75 06 06	2420	08	29 41 58 N	84 11 01 W
242008	50919	21	75 09 19	2420	08	29 42 00 N	84 11 00 W
242008	602 5	29	76 02 05	2420	08	29 42 00 N	84 11 00 W
242008	60205	29	76 02 05	2420	08	29 42 00 N	84 11 00 W
242008	60703	39	76 07 04	2420	08	29 42 01 N	84 10 58 W
242008	60704	39	76 07 04	2420	08	29 42 01 N	84 10 58 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
242009	506 6	10	75 06 06	2420	09	29 41 58 N	84 11 01 W
242009	50606	10	75 06 06	2420	09	29 41 58 N	84 11 01 W
242009	50919	21	75 09 19	2420	09	29 42 00 N	84 11 00 W
242009	602 5	29	76 02 05	2420	09	29 42 00 N	84 11 00 W
242009	60205	29	76 02 05	2420	09	29 42 00 N	84 11 00 W
242009	60703	39	76 07 04	2420	09	29 42 01 N	84 10 58 W
242009	60704	39	76 07 04	2420	09	29 42 01 N	84 10 58 W
242010	60703	39	76 07 04	2420	10	29 42 01 N	84 10 58 W
242010	60704	39	76 07 04	2420	10	29 42 01 N	84 10 58 W
242011	50606	10	75 06 06	2420	11	29 41 58 N	84 11 01 W
242011	50919	21	75 09 19	2420	11	29 42 00 N	84 11 00 W
242011	60205	29	76 02 05	2420	11	29 42 00 N	84 11 00 W
242101	506 6	10	75 06 06	2421	01	29 36 58 N	84 17 01 W
242101	50606	10	75 06 06	2421	01	29 36 58 N	84 17 01 W
242101	50920	21	75 09 20	2421	01	29 37 00 N	84 17 00 W
242101	602 5	29	76 02 05	2421	01	29 37 00 N	84 17 01 W
242101	60205	29	76 02 05	2421	01	29 37 00 N	84 17 01 W
242101	60704	39	76 07 04	2421	01	29 37 02 N	84 16 58 W
242101	70831	DM1	77 08 31	2421	01	29 37 01 N	84 17 07 W
242101	71109	DM2	77 11 09	2421	01	29 37 03 N	84 17 12 W
242101	80213	DM4	78 02 13	2421	01	29 37 08 N	84 17 01 W
242102	506 6	10	75 06 06	2421	02	29 36 58 N	84 17 01 W
242102	50606	10	75 06 06	2421	02	29 36 58 N	84 17 01 W
242102	50920	21	75 09 20	2421	02	29 37 00 N	84 17 00 W
242102	602 5	29	76 02 05	2421	02	29 37 00 N	84 17 01 W
242102	60205	29	76 02 05	2421	02	29 37 00 N	84 17 01 W
242102	60704	39	76 07 04	2421	02	29 37 02 N	84 16 58 W
242102	80213	DM4	78 02 13	2421	02	29 37 08 N	84 17 01 W
242103	506 6	10	75 06 06	2421	03	29 36 58 N	84 17 01 W
242103	50606	10	75 06 06	2421	03	29 36 58 N	84 17 01 W
242103	50920	21	75 09 20	2421	03	29 37 00 N	84 17 00 W
242103	602 5	29	76 02 05	2421	03	29 37 00 N	84 17 01 W
242103	60205	29	76 02 05	2421	03	29 37 00 N	84 17 01 W
242103	60704	39	76 07 04	2421	03	29 37 02 N	84 16 58 W
242103	80213	DM4	78 02 13	2421	03	29 37 08 N	84 17 01 W
242104	506 6	10	75 06 06	2421	04	29 36 58 N	84 17 01 W
242104	50606	10	75 06 06	2421	04	29 36 58 N	84 17 01 W
242104	50920	21	75 09 20	2421	04	29 37 00 N	84 17 00 W
242104	602 5	29	76 02 05	2421	04	29 37 00 N	84 17 01 W
242104	60205	29	76 02 05	2421	04	29 37 00 N	84 17 01 W
242104	60704	39	76 07 04	2421	04	29 37 02 N	84 16 58 W
242104	60705	39	76 07 04	2426	04	28 57 58 N	85 22 54 W
242104	80213	DM4	78 02 13	2421	04	29 37 08 N	84 17 01 W
242105	506 6	10	75 06 06	2421	05	29 36 58 N	84 17 01 W
242105	50606	10	75 06 06	2421	05	29 36 58 N	84 17 01 W
242105	50920	21	75 09 20	2421	05	29 37 00 N	84 17 00 W
242105	602 5	29	76 02 05	2421	05	29 37 00 N	84 17 01 W
242105	60205	29	76 02 05	2421	05	29 37 00 N	84 17 01 W
242105	60704	39	76 07 04	2421	05	29 37 02 N	84 16 58 W
242105	80213	DM4	78 02 13	2421	05	29 37 08 N	84 17 01 W
242106	506 6	10	75 06 06	2421	06	29 36 58 N	84 17 01 W
242106	50606	10	75 06 06	2421	06	29 36 58 N	84 17 01 W
242106	50920	21	75 09 20	2421	06	29 37 00 N	84 17 00 W
242106	602 5	29	76 02 05	2421	06	29 37 00 N	84 17 01 W
242106	60205	29	76 02 05	2421	06	29 37 00 N	84 17 01 W
242106	60704	39	76 07 04	2421	06	29 37 02 N	84 16 58 W
242106	80213	DM4	78 02 13	2421	06	29 37 08 N	84 17 01 W
242107	506 6	10	75 06 06	2421	07	29 36 58 N	84 17 01 W
242107	50606	10	75 06 06	2421	07	29 36 58 N	84 17 01 W
242107	50920	21	75 09 20	2421	07	29 37 00 N	84 17 00 W
242107	602 5	29	76 02 05	2421	07	29 37 00 N	84 17 01 W
242107	60205	29	76 02 05	2421	07	29 37 00 N	84 17 01 W
242107	60704	39	76 07 04	2421	07	29 37 02 N	84 16 58 W
242108	506 6	10	75 06 06	2421	08	29 36 58 N	84 17 01 W
242108	50606	10	75 06 06	2421	08	29 36 58 N	84 17 01 W
242108	50920	21	75 09 20	2421	08	29 37 00 N	84 17 00 W
242108	602 5	29	76 02 05	2421	08	29 37 00 N	84 17 01 W
242108	60205	29	76 02 05	2421	08	29 37 00 N	84 17 01 W
242108	60704	39	76 07 04	2421	08	29 37 02 N	84 16 58 W
242109	506 6	10	75 06 06	2421	09	29 36 58 N	84 17 01 W
242109	50606	10	75 06 06	2421	09	29 36 58 N	84 17 01 W
242109	50920	21	75 09 20	2421	09	29 37 00 N	84 17 00 W
242109	602 5	29	76 02 05	2421	09	29 37 00 N	84 17 01 W
242109	60205	29	76 02 05	2421	09	29 37 00 N	84 17 01 W
242109	60704	39	76 07 04	2421	09	29 37 02 N	84 16 58 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
242110	60704	39	76 07 04	2421	10	29 37 02 N	84 16 58 W
242111	50606	10	75 06 06	2421	11	29 36 58 N	84 17 01 W
242111	50920	21	75 09 20	2421	11	29 37 00 N	84 17 00 W
242111	60205	29	76 02 05	2421	11	29 37 00 N	84 17 01 W
242150	70831	DM1	77 08 31	2421	50	29 37 01 N	84 17 07 W
242150	71109	DM2	77 11 09	2421	50	29 37 03 N	84 17 12 W
242150	80213	DM4	78 02 13	2421	50	29 37 08 N	84 17 01 W
242168	71109	DM2	77 11 09	2421	68	29 37 03 N	84 17 12 W
242200	60205	29	76 02 05	2422	00	29 29 59 N	84 27 00 W
242201	506 7	10	75 06 07	2422	01	29 30 00 N	84 27 01 W
242201	50607	10	75 06 07	2422	01	29 30 00 N	84 27 01 W
242201	50920	21	75 09 20	2422	01	29 30 00 N	84 27 00 W
242201	602 5	29	76 02 05	2422	01	29 29 59 N	84 27 00 W
242201	60205	29	76 02 05	2422	01	29 29 59 N	84 27 00 W
242201	60704	39	76 07 04	2422	01	29 29 53 N	84 26 59 W
242202	506 7	10	75 06 07	2422	02	29 30 00 N	84 27 01 W
242202	50607	10	75 06 07	2422	02	29 30 00 N	84 27 01 W
242202	50920	21	75 09 20	2422	02	29 30 00 N	84 27 00 W
242202	602 5	29	76 02 05	2422	02	29 29 59 N	84 27 00 W
242202	60205	29	76 02 05	2422	02	29 29 59 N	84 27 00 W
242202	60704	39	76 07 04	2422	02	29 29 53 N	84 26 59 W
242203	506 7	10	75 06 07	2422	03	29 30 00 N	84 27 01 W
242203	50607	10	75 06 07	2422	03	29 30 00 N	84 27 01 W
242203	50920	21	75 09 20	2422	03	29 30 00 N	84 27 00 W
242203	602 5	29	76 02 05	2422	03	29 29 59 N	84 27 00 W
242203	60205	29	76 02 05	2422	03	29 29 59 N	84 27 00 W
242203	60704	39	76 07 04	2422	03	29 29 53 N	84 26 59 W
242204	506 7	10	75 06 07	2422	04	29 30 00 N	84 27 01 W
242204	50607	10	75 06 07	2422	04	29 30 00 N	84 27 01 W
242204	50920	21	75 09 20	2422	04	29 30 00 N	84 27 00 W
242204	602 5	29	76 02 05	2422	04	29 29 59 N	84 27 00 W
242204	60205	29	76 02 05	2422	04	29 29 59 N	84 27 00 W
242204	60704	39	76 07 04	2422	04	29 29 53 N	84 26 59 W
242205	506 7	10	75 06 07	2422	05	29 30 00 N	84 27 01 W
242205	50607	10	75 06 07	2422	05	29 30 00 N	84 27 01 W
242205	50920	21	75 09 20	2422	05	29 30 00 N	84 27 00 W
242205	602 5	29	76 02 05	2422	05	29 29 59 N	84 27 00 W
242205	60205	29	76 02 05	2422	05	29 29 59 N	84 27 00 W
242205	60704	39	76 07 04	2422	05	29 29 53 N	84 26 59 W
242206	506 7	10	75 06 07	2422	06	29 30 00 N	84 27 01 W
242206	50607	10	75 06 07	2422	06	29 30 00 N	84 27 01 W
242206	50920	21	75 09 20	2422	06	29 30 00 N	84 27 00 W
242206	602 5	29	76 02 05	2422	06	29 29 59 N	84 27 00 W
242206	60205	29	76 02 05	2422	06	29 29 59 N	84 27 00 W
242206	60704	39	76 07 04	2422	06	29 29 53 N	84 26 59 W
242207	506 7	10	75 06 07	2422	07	29 30 00 N	84 27 01 W
242207	50607	10	75 06 07	2422	07	29 30 00 N	84 27 01 W
242207	50920	21	75 09 20	2422	07	29 30 00 N	84 27 00 W
242207	602 5	29	76 02 05	2422	07	29 29 59 N	84 27 00 W
242207	60205	29	76 02 05	2422	07	29 29 59 N	84 27 00 W
242207	60704	39	76 07 04	2422	07	29 29 53 N	84 26 59 W
242208	506 7	10	75 06 07	2422	08	29 30 00 N	84 27 01 W
242208	50607	10	75 06 07	2422	08	29 30 00 N	84 27 01 W
242208	50920	21	75 09 20	2422	08	29 30 00 N	84 27 00 W
242208	602 5	29	76 02 05	2422	08	29 29 59 N	84 27 00 W
242208	60205	29	76 02 05	2422	08	29 29 59 N	84 27 00 W
242208	60704	39	76 07 04	2422	08	29 29 53 N	84 26 59 W
242209	506 7	10	75 06 07	2422	09	29 30 00 N	84 27 01 W
242209	50607	10	75 06 07	2422	09	29 30 00 N	84 27 01 W
242209	50920	21	75 09 20	2422	09	29 30 00 N	84 27 00 W
242209	602 5	29	76 02 05	2422	09	29 29 59 N	84 27 00 W
242209	60205	29	76 02 05	2422	09	29 29 59 N	84 27 00 W
242209	60704	39	76 07 04	2422	09	29 29 53 N	84 26 59 W
242210	60704	39	76 07 04	2422	10	29 29 53 N	84 26 59 W
242211	50607	10	75 06 07	2422	11	29 30 00 N	84 27 01 W
242211	50920	21	75 09 20	2422	11	29 30 00 N	84 27 00 W
242211	60205	29	76 02 05	2422	11	29 29 59 N	84 27 00 W
242301	506 8	10	75 06 07	2423	01	29 20 00 N	84 44 02 W
242301	50608	10	75 06 07	2423	01	29 20 00 N	84 44 02 W
242301	50920	21	75 09 20	2423	01	29 20 00 N	84 44 00 W
242301	602 6	29	76 02 05	2423	01	29 19 59 N	84 44 00 W
242301	60206	29	76 02 05	2423	01	29 19 59 N	84 44 00 W
242301	60704	39	76 07 04	2423	01	29 19 57 N	84 44 00 W
242301	70901	DM1	77 09 01	2423	01	29 20 01 N	84 44 08 W
242301	71108	DM2	77 11 08	2423	01	29 20 02 N	84 44 03 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
242301 80213	DM4	78 02 13	2423	01	29 20 17 N	84 43 51 W
242302 506 8	10	75 06 07	2423	02	29 20 00 N	84 44 02 W
242302 50608	10	75 06 07	2423	02	29 20 00 N	84 44 02 W
242302 50920	21	75 09 20	2423	02	29 20 00 N	84 44 00 W
242302 602 6	29	76 02 05	2423	02	29 19 59 N	84 44 00 W
242302 60206	29	76 02 05	2423	02	29 19 59 N	84 44 00 W
242302 60704	39	76 07 04	2423	02	29 19 57 N	84 44 00 W
242302 70901	DM1	77 09 01	2423	02	29 20 01 N	84 44 08 W
242302 71108	DM2	77 11 08	2423	02	29 20 02 N	84 44 03 W
242302 80213	DM4	78 02 13	2423	02	29 20 17 N	84 43 51 W
242303 506 8	10	75 06 07	2423	03	29 20 00 N	84 44 02 W
242303 50608	10	75 06 07	2423	03	29 20 00 N	84 44 02 W
242303 50920	21	75 09 20	2423	03	29 20 00 N	84 44 00 W
242303 602 6	29	76 02 05	2423	03	29 19 59 N	84 44 00 W
242303 60206	29	76 02 05	2423	03	29 19 59 N	84 44 00 W
242303 60704	39	76 07 04	2423	03	29 19 57 N	84 44 00 W
242303 70901	DM1	77 09 01	2423	03	29 20 01 N	84 44 08 W
242303 71108	DM2	77 11 08	2423	03	29 20 02 N	84 44 03 W
242303 80213	DM4	78 02 13	2423	03	29 20 17 N	84 43 51 W
242304 506 8	10	75 06 07	2423	04	29 20 00 N	84 44 02 W
242304 50608	10	75 06 07	2423	04	29 20 00 N	84 44 02 W
242304 50920	21	75 09 20	2423	04	29 20 00 N	84 44 00 W
242304 602 6	29	76 02 05	2423	04	29 19 59 N	84 44 00 W
242304 60206	29	76 02 05	2423	04	29 19 59 N	84 44 00 W
242304 60704	39	76 07 04	2423	04	29 19 57 N	84 44 00 W
242304 70901	DM1	77 09 01	2423	04	29 20 01 N	84 44 08 W
242304 71108	DM2	77 11 08	2423	04	29 20 02 N	84 44 03 W
242304 80213	DM4	78 02 13	2423	04	29 20 17 N	84 43 51 W
242305 506 8	10	75 06 07	2423	05	29 20 00 N	84 44 02 W
242305 50608	10	75 06 07	2423	05	29 20 00 N	84 44 02 W
242305 50920	21	75 09 20	2423	05	29 20 00 N	84 44 00 W
242305 602 6	29	76 02 05	2423	05	29 19 59 N	84 44 00 W
242305 60206	29	76 02 05	2423	05	29 19 59 N	84 44 00 W
242305 60704	39	76 07 04	2423	05	29 19 57 N	84 44 00 W
242305 70901	DM1	77 09 01	2423	05	29 20 01 N	84 44 08 W
242305 71108	DM2	77 11 08	2423	05	29 20 02 N	84 44 03 W
242305 71109	DM2	77 11 08	2423	05	29 20 02 N	84 44 03 W
242305 80213	DM4	78 02 13	2423	05	29 20 17 N	84 43 51 W
242306 506 8	10	75 06 07	2423	06	29 20 00 N	84 44 02 W
242306 50608	10	75 06 07	2423	06	29 20 00 N	84 44 02 W
242306 50920	21	75 09 20	2423	06	29 20 00 N	84 44 00 W
242306 602 6	29	76 02 05	2423	06	29 19 59 N	84 44 00 W
242306 60206	29	76 02 05	2423	06	29 19 59 N	84 44 00 W
242306 60704	39	76 07 04	2423	06	29 19 57 N	84 44 00 W
242306 70901	DM1	77 09 01	2423	06	29 20 01 N	84 44 08 W
242306 71108	DM2	77 11 08	2423	06	29 20 02 N	84 44 03 W
242306 80213	DM4	78 02 13	2423	06	29 20 17 N	84 43 51 W
242307 506 8	10	75 06 07	2423	07	29 20 00 N	84 44 02 W
242307 50608	10	75 06 07	2423	07	29 20 00 N	84 44 02 W
242307 50920	21	75 09 20	2423	07	29 20 00 N	84 44 00 W
242307 602 6	29	76 02 05	2423	07	29 19 59 N	84 44 00 W
242307 60206	29	76 02 05	2423	07	29 19 59 N	84 44 00 W
242307 60704	39	76 07 04	2423	07	29 19 57 N	84 44 00 W
242307 70901	DM1	77 09 01	2423	07	29 20 01 N	84 44 08 W
242307 71108	DM2	77 11 08	2423	07	29 20 02 N	84 44 03 W
242307 80213	DM4	78 02 13	2423	07	29 20 17 N	84 43 51 W
242308 506 8	10	75 06 07	2423	08	29 20 00 N	84 44 02 W
242308 50608	10	75 06 07	2423	08	29 20 00 N	84 44 02 W
242308 50920	21	75 09 20	2423	08	29 20 00 N	84 44 00 W
242308 602 6	29	76 02 05	2423	08	29 19 59 N	84 44 00 W
242308 60206	29	76 02 05	2423	08	29 19 59 N	84 44 00 W
242308 60704	39	76 07 04	2423	08	29 19 57 N	84 44 00 W
242308 70901	DM1	77 09 01	2423	08	29 20 01 N	84 44 08 W
242308 71108	DM2	77 11 08	2423	08	29 20 02 N	84 44 03 W
242308 71109	DM2	77 11 08	2423	08	29 20 02 N	84 44 03 W
242308 80213	DM4	78 02 13	2423	08	29 20 17 N	84 43 51 W
242309 506 8	10	75 06 07	2423	09	29 20 00 N	84 44 02 W
242309 50608	10	75 06 07	2423	09	29 20 00 N	84 44 02 W
242309 50920	21	75 09 20	2423	09	29 20 00 N	84 44 00 W
242309 602 6	29	76 02 05	2423	09	29 19 59 N	84 44 00 W
242309 60206	29	76 02 05	2423	09	29 19 59 N	84 44 00 W
242309 60704	39	76 07 04	2423	09	29 19 57 N	84 44 00 W
242309 70901	DM1	77 09 01	2423	09	29 20 01 N	84 44 08 W
242309 71108	DM2	77 11 08	2423	09	29 20 02 N	84 44 03 W
242309 80213	DM4	78 02 13	2423	09	29 20 17 N	84 43 51 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
242310	60704	39	76 07 04	2423	10	29 19 57 N	84 44 00 W
242310	70901	DM1	77 09 01	2423	10	29 20 01 N	84 44 08 W
242310	71108	DM2	77 11 08	2423	10	29 20 02 N	84 44 03 W
242310	71109	DM2	77 11 08	2423	10	29 20 02 N	84 44 03 W
242310	80213	DM4	78 02 13	2423	10	29 20 17 N	84 43 51 W
242311	50608	10	75 06 07	2423	11	29 20 00 N	84 44 02 W
242311	50920	21	75 09 20	2423	11	29 20 00 N	84 44 00 W
242311	60206	29	76 02 05	2423	11	29 19 59 N	84 44 00 W
242311	70901	DM1	77 09 01	2423	11	29 20 01 N	84 44 08 W
242311	71108	DM2	77 11 08	2423	11	29 20 02 N	84 44 03 W
242311	80213	DM4	78 02 13	2423	11	29 20 17 N	84 43 51 W
242312	70901	DM1	77 09 01	2423	12	29 20 01 N	84 44 08 W
242312	70909	DM1	77 09 01	2423	12	29 20 01 N	84 44 08 W
242313	70901	DM1	77 09 01	2423	13	29 20 01 N	84 44 08 W
242314	70901	DM1	77 09 01	2423	14	29 20 01 N	84 44 08 W
242315	70901	DM1	77 09 01	2423	15	29 20 01 N	84 44 08 W
242316	70901	DM1	77 09 01	2423	16	29 20 01 N	84 44 08 W
242350	70901	DM1	77 09 01	2423	50	29 20 01 N	84 44 08 W
242350	71108	DM2	77 11 08	2423	50	29 20 02 N	84 44 03 W
242350	80213	DM4	78 02 13	2423	50	29 20 17 N	84 43 51 W
242368	71108	DM2	77 11 08	2423	68	29 20 02 N	84 44 03 W
242373	71108	DM2	77 11 08	2423	73	29 20 02 N	84 44 03 W
242401	506 8	10	75 06 08	2424	01	29 13 00 N	84 59 59 W
242401	50608	10	75 06 08	2424	01	29 13 00 N	84 59 59 W
242401	50921	21	75 09 21	2424	01	29 13 00 N	85 00 00 W
242401	602 6	29	76 02 05	2424	01	29 12 59 N	85 00 01 W
242401	60206	29	76 02 05	2424	01	29 12 59 N	85 00 01 W
242401	60704	39	76 07 04	2424	01	29 13 01 N	84 59 58 W
242401	70901	DM1	77 09 01	2424	01	29 13 00 N	85 00 04 W
242401	71108	DM2	77 11 08	2424	01	29 13 01 N	85 00 01 W
242401	80212	DM4	78 02 12	2424	01	29 13 03 N	85 00 02 W
242402	506 8	10	75 06 08	2424	02	29 13 00 N	84 59 59 W
242402	50608	10	75 06 08	2424	02	29 13 00 N	84 59 59 W
242402	50921	21	75 09 21	2424	02	29 13 00 N	85 00 00 W
242402	602 6	29	76 02 05	2424	02	29 12 59 N	85 00 01 W
242402	60206	29	76 02 05	2424	02	29 12 59 N	85 00 01 W
242402	60704	39	76 07 04	2424	02	29 13 01 N	84 59 58 W
242402	70901	DM1	77 09 01	2424	02	29 13 00 N	85 00 04 W
242403	506 8	10	75 06 08	2424	03	29 13 00 N	84 59 59 W
242403	50608	10	75 06 08	2424	03	29 13 00 N	84 59 59 W
242403	50921	21	75 09 21	2424	03	29 13 00 N	85 00 00 W
242403	602 6	29	76 02 05	2424	03	29 12 59 N	85 00 01 W
242403	60206	29	76 02 05	2424	03	29 12 59 N	85 00 01 W
242403	60704	39	76 07 04	2424	03	29 13 01 N	84 59 58 W
242403	70901	DM1	77 09 01	2424	03	29 13 00 N	85 00 04 W
242404	506 8	10	75 06 08	2424	04	29 13 00 N	84 59 59 W
242404	50608	10	75 06 08	2424	04	29 13 00 N	84 59 59 W
242404	50921	21	75 09 21	2424	04	29 13 00 N	85 00 00 W
242404	602 6	29	76 02 05	2424	04	29 12 59 N	85 00 01 W
242404	60206	29	76 02 05	2424	04	29 12 59 N	85 00 01 W
242404	60704	39	76 07 04	2424	04	29 13 01 N	84 59 58 W
242404	70901	DM1	77 09 01	2424	04	29 13 00 N	85 00 04 W
242405	506 8	10	75 06 08	2424	05	29 13 00 N	84 59 59 W
242405	50608	10	75 06 08	2424	05	29 13 00 N	84 59 59 W
242405	50921	21	75 09 21	2424	05	29 13 00 N	85 00 00 W
242405	602 6	29	76 02 05	2424	05	29 12 59 N	85 00 01 W
242405	60206	29	76 02 05	2424	05	29 12 59 N	85 00 01 W
242405	60704	39	76 07 04	2424	05	29 13 01 N	84 59 58 W
242405	70901	DM1	77 09 01	2424	05	29 13 00 N	85 00 04 W
242406	506 8	10	75 06 08	2424	06	29 13 00 N	84 59 59 W
242406	50608	10	75 06 08	2424	06	29 13 00 N	84 59 59 W
242406	50921	21	75 09 21	2424	06	29 13 00 N	85 00 00 W
242406	602 6	29	76 02 05	2424	06	29 12 59 N	85 00 01 W
242406	60206	29	76 02 05	2424	06	29 12 59 N	85 00 01 W
242406	60704	39	76 07 04	2424	06	29 13 01 N	84 59 58 W
242406	70901	DM1	77 09 01	2424	06	29 13 00 N	85 00 04 W
242407	506 8	10	75 06 08	2424	07	29 13 00 N	84 59 59 W
242407	50608	10	75 06 08	2424	07	29 13 00 N	84 59 59 W
242407	50921	21	75 09 21	2424	07	29 13 00 N	85 00 00 W
242407	602 6	29	76 02 05	2424	07	29 12 59 N	85 00 01 W
242407	60206	29	76 02 05	2424	07	29 12 59 N	85 00 01 W
242407	60704	39	76 07 04	2424	07	29 13 01 N	84 59 58 W
242408	506 8	10	75 06 08	2424	08	29 13 00 N	84 59 59 W
242408	50608	10	75 06 08	2424	08	29 13 00 N	84 59 59 W
242408	50921	21	75 09 21	2424	08	29 13 00 N	85 00 00 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
242408	602 6	29	76 02 05	2424	08	29 12 59 N	85 00 01 W
242408	60206	29	76 02 05	2424	08	29 12 59 N	85 00 01 W
242408	60704	39	76 07 04	2424	08	29 13 01 N	84 59 58 W
242409	506 8	10	75 06 08	2424	09	29 13 00 N	84 59 59 W
242409	50608	10	75 06 08	2424	09	29 13 00 N	84 59 59 W
242409	50921	21	75 09 21	2424	09	29 13 00 N	85 00 00 W
242409	602 6	29	76 02 05	2424	09	29 12 59 N	85 00 01 W
242409	60206	29	76 02 05	2424	09	29 12 59 N	85 00 01 W
242409	60704	39	76 07 04	2424	09	29 13 01 N	84 59 58 W
242410	60704	39	76 07 04	2424	10	29 13 01 N	84 59 58 W
242411	50608	10	75 06 08	2424	11	29 13 00 N	84 59 59 W
242411	50921	21	75 09 21	2424	11	29 13 00 N	85 00 00 W
242411	60206	29	76 02 05	2424	11	29 12 59 N	85 00 01 W
242450	70901	DM1	77 09 01	2424	50	29 13 00 N	85 00 04 W
242450	71108	DM2	77 11 08	2424	50	29 13 01 N	85 00 01 W
242450	80212	DM4	78 02 12	2424	50	29 13 03 N	85 00 02 W
242501	506 8	10	75 06 08	2425	01	29 04 58 N	85 15 03 W
242501	50608	10	75 06 08	2425	01	29 04 58 N	85 15 03 W
242501	50921	21	75 09 21	2425	01	29 05 00 N	85 15 00 W
242501	602 6	29	76 02 06	2425	01	29 04 59 N	85 14 59 W
242501	60206	29	76 02 06	2425	01	29 04 59 N	85 14 59 W
242501	60704	39	76 07 04	2425	01	29 05 01 N	85 14 55 W
242502	506 8	10	75 06 08	2425	02	29 04 58 N	85 15 03 W
242502	50608	10	75 06 08	2425	02	29 04 58 N	85 15 03 W
242502	50921	21	75 09 21	2425	02	29 05 00 N	85 15 00 W
242502	602 6	29	76 02 06	2425	02	29 04 59 N	85 14 59 W
242502	60206	29	76 02 06	2425	02	29 04 59 N	85 14 59 W
242502	60704	39	76 07 04	2425	02	29 05 01 N	85 14 55 W
242503	506 8	10	75 06 08	2425	03	29 04 58 N	85 15 03 W
242503	50608	10	75 06 08	2425	03	29 04 58 N	85 15 03 W
242503	50921	21	75 09 21	2425	03	29 05 00 N	85 15 00 W
242503	602 6	29	76 02 06	2425	03	29 04 59 N	85 14 59 W
242503	60206	29	76 02 06	2425	03	29 04 59 N	85 14 59 W
242503	60704	39	76 07 04	2425	03	29 05 01 N	85 14 55 W
242504	506 8	10	75 06 08	2425	04	29 04 58 N	85 15 03 W
242504	50608	10	75 06 08	2425	04	29 04 58 N	85 15 03 W
242504	50921	21	75 09 21	2425	04	29 05 00 N	85 15 00 W
242504	602 6	29	76 02 06	2425	04	29 04 59 N	85 14 59 W
242504	60206	29	76 02 06	2425	04	29 04 59 N	85 14 59 W
242504	60704	39	76 07 04	2425	04	29 05 01 N	85 14 55 W
242505	506 8	10	75 06 08	2425	05	29 04 58 N	85 15 03 W
242505	50608	10	75 06 08	2425	05	29 04 58 N	85 15 03 W
242505	50921	21	75 09 21	2425	05	29 05 00 N	85 15 00 W
242505	602 6	29	76 02 06	2425	05	29 04 59 N	85 14 59 W
242505	60206	29	76 02 06	2425	05	29 04 59 N	85 14 59 W
242505	60704	39	76 07 04	2425	05	29 05 01 N	85 14 55 W
242506	506 8	10	75 06 08	2425	06	29 04 58 N	85 15 03 W
242506	50608	10	75 06 08	2425	06	29 04 58 N	85 15 03 W
242506	50921	21	75 09 21	2425	06	29 05 00 N	85 15 00 W
242506	602 6	29	76 02 06	2425	06	29 04 59 N	85 14 59 W
242506	60206	29	76 02 06	2425	06	29 04 59 N	85 14 59 W
242506	60704	39	76 07 04	2425	06	29 05 01 N	85 14 55 W
242507	506 8	10	75 06 08	2425	07	29 04 58 N	85 15 03 W
242507	50608	10	75 06 08	2425	07	29 04 58 N	85 15 03 W
242507	50921	21	75 09 21	2425	07	29 05 00 N	85 15 00 W
242507	602 6	29	76 02 06	2425	07	29 04 59 N	85 14 59 W
242507	60206	29	76 02 06	2425	07	29 04 59 N	85 14 59 W
242507	60704	39	76 07 04	2425	07	29 05 01 N	85 14 55 W
242508	506 8	10	75 06 08	2425	08	29 04 58 N	85 15 03 W
242508	50608	10	75 06 08	2425	08	29 04 58 N	85 15 03 W
242508	50921	21	75 09 21	2425	08	29 05 00 N	85 15 00 W
242508	602 6	29	76 02 06	2425	08	29 04 59 N	85 14 59 W
242508	60206	29	76 02 06	2425	08	29 04 59 N	85 14 59 W
242508	60704	39	76 07 04	2425	08	29 05 01 N	85 14 55 W
242509	506 8	10	75 06 08	2425	09	29 04 58 N	85 15 03 W
242509	50608	10	75 06 08	2425	09	29 04 58 N	85 15 03 W
242509	50921	21	75 09 21	2425	09	29 05 00 N	85 15 00 W
242509	602 6	29	76 02 06	2425	09	29 04 59 N	85 14 59 W
242509	60206	29	76 02 06	2425	09	29 04 59 N	85 14 59 W
242509	60704	39	76 07 04	2425	09	29 05 01 N	85 14 55 W
242510	60704	39	76 07 04	2425	10	29 05 01 N	85 14 55 W
242511	50608	10	75 06 08	2425	11	29 04 58 N	85 15 03 W
242511	50921	21	75 09 21	2425	11	29 05 00 N	85 15 00 W
242511	60206	29	76 02 06	2425	11	29 04 59 N	85 14 59 W
242600	50726	15	75 07 26	2426	00	28 58 00 N	85 24 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
242600	51020	22	75 10 20	2426	00	28 58 00 N	85 24 00 W
242600	60226	33	76 02 26	2426	00	28 58 00 N	85 24 00 W
242601	506 8	10	75 06 08	2426	01	28 57 57 N	85 23 01 W
242601	50608	10	75 06 08	2426	01	28 57 57 N	85 23 01 W
242601	50921	21	75 09 21	2426	01	28 58 00 N	85 23 00 W
242601	602 6	29	76 02 06	2426	01	29 57 59 N	85 22 58 W
242601	60206	29	76 02 06	2426	01	29 57 59 N	85 22 58 W
242601	60704	39	76 07 04	2426	01	28 57 58 N	85 22 54 W
242601	60705	39	76 07 04	2426	01	28 57 58 N	85 22 54 W
242601	70901	DM1	77 09 01	2426	01	28 57 58 N	85 23 01 W
242601	71108	DM2	77 11 08	2426	01	28 57 56 N	85 23 03 W
242601	80212	DM4	78 02 12	2426	01	28 58 00 N	85 23 01 W
242602	506 8	10	75 06 08	2426	02	28 57 57 N	85 23 01 W
242602	50608	10	75 06 08	2426	02	28 57 57 N	85 23 01 W
242602	50921	21	75 09 21	2426	02	28 58 00 N	85 23 00 W
242602	602 6	29	76 02 06	2426	02	29 57 59 N	85 22 58 W
242602	60206	29	76 02 06	2426	02	29 57 59 N	85 22 58 W
242602	60704	39	76 07 04	2426	02	28 57 58 N	85 22 54 W
242602	70901	DM1	77 09 01	2426	02	28 57 58 N	85 23 01 W
242602	71108	DM2	77 11 08	2426	02	28 57 56 N	85 23 03 W
242602	80212	DM4	78 02 12	2426	02	28 58 00 N	85 23 01 W
242603	506 8	10	75 06 08	2426	03	28 57 57 N	85 23 01 W
242603	50608	10	75 06 08	2426	03	28 57 57 N	85 23 01 W
242603	50921	21	75 09 21	2426	03	28 58 00 N	85 23 00 W
242603	602 6	29	76 02 06	2426	03	29 57 59 N	85 22 58 W
242603	60206	29	76 02 06	2426	03	29 57 59 N	85 22 58 W
242603	60704	39	76 07 04	2426	03	28 57 58 N	85 22 54 W
242603	70901	DM1	77 09 01	2426	03	28 57 58 N	85 23 01 W
242603	71108	DM2	77 11 08	2426	03	28 57 56 N	85 23 03 W
242603	80212	DM4	78 02 12	2426	03	28 58 00 N	85 23 01 W
242604	506 8	10	75 06 08	2426	04	28 57 57 N	85 23 01 W
242604	50608	10	75 06 08	2426	04	28 57 57 N	85 23 01 W
242604	50921	21	75 09 21	2426	04	28 58 00 N	85 23 00 W
242604	602 6	29	76 02 06	2426	04	29 57 59 N	85 22 58 W
242604	60206	29	76 02 06	2426	04	29 57 59 N	85 22 58 W
242604	60704	39	76 07 04	2426	04	28 57 58 N	85 22 54 W
242604	70901	DM1	77 09 01	2426	04	28 57 58 N	85 23 01 W
242604	71108	DM2	77 11 08	2426	04	28 57 56 N	85 23 03 W
242604	80212	DM4	78 02 12	2426	04	28 58 00 N	85 23 01 W
242605	506 8	10	75 06 08	2426	05	28 57 57 N	85 23 01 W
242605	50608	10	75 06 08	2426	05	28 57 57 N	85 23 01 W
242605	50921	21	75 09 21	2426	05	28 58 00 N	85 23 00 W
242605	602 6	29	76 02 06	2426	05	29 57 59 N	85 22 58 W
242605	60206	29	76 02 06	2426	05	29 57 59 N	85 22 58 W
242605	60704	39	76 07 04	2426	05	28 57 58 N	85 22 54 W
242605	70901	DM1	77 09 01	2426	05	28 57 58 N	85 23 01 W
242605	71108	DM2	77 11 08	2426	05	28 57 56 N	85 23 03 W
242605	80212	DM4	78 02 12	2426	05	28 58 00 N	85 23 01 W
242606	506 8	10	75 06 08	2426	06	28 57 57 N	85 23 01 W
242606	50608	10	75 06 08	2426	06	28 57 57 N	85 23 01 W
242606	50921	21	75 09 21	2426	06	28 58 00 N	85 23 00 W
242606	602 6	29	76 02 06	2426	06	29 57 59 N	85 22 58 W
242606	60206	29	76 02 06	2426	06	29 57 59 N	85 22 58 W
242606	60704	39	76 07 04	2426	06	28 57 58 N	85 22 54 W
242606	70901	DM1	77 09 01	2426	06	28 57 58 N	85 23 01 W
242606	71108	DM2	77 11 08	2426	06	28 57 56 N	85 23 03 W
242606	80212	DM4	78 02 12	2426	06	28 58 00 N	85 23 01 W
242607	506 8	10	75 06 08	2426	07	28 57 57 N	85 23 01 W
242607	50608	10	75 06 08	2426	07	28 57 57 N	85 23 01 W
242607	50921	21	75 09 21	2426	07	28 58 00 N	85 23 00 W
242607	602 6	29	76 02 06	2426	07	29 57 59 N	85 22 58 W
242607	60206	29	76 02 06	2426	07	29 57 59 N	85 22 58 W
242607	60704	39	76 07 04	2426	07	28 57 58 N	85 22 54 W
242607	70901	DM1	77 09 01	2426	07	28 57 58 N	85 23 01 W
242607	71108	DM2	77 11 08	2426	07	28 57 56 N	85 23 03 W
242607	80212	DM4	78 02 12	2426	07	28 58 00 N	85 23 01 W
242608	506 8	10	75 06 08	2426	08	28 57 57 N	85 23 01 W
242608	50608	10	75 06 08	2426	08	28 57 57 N	85 23 01 W
242608	50921	21	75 09 21	2426	08	28 58 00 N	85 23 00 W
242608	602 6	29	76 02 06	2426	08	29 57 59 N	85 22 58 W
242608	60206	29	76 02 06	2426	08	29 57 59 N	85 22 58 W
242608	60704	39	76 07 04	2426	08	28 57 58 N	85 22 54 W
242608	70901	DM1	77 09 01	2426	08	28 57 58 N	85 23 01 W
242608	71108	DM2	77 11 08	2426	08	28 57 56 N	85 23 03 W
242608	80212	DM4	78 02 12	2426	08	28 58 00 N	85 23 01 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
242609	506 8	10	75 06 08	2426	09	28 57 57 N	85 23 01 W
242609	50608	10	75 06 08	2426	09	28 57 57 N	85 23 01 W
242609	50921	21	75 09 21	2426	09	28 58 00 N	85 23 00 W
242609	602 6	29	76 02 06	2426	09	29 57 59 N	85 22 58 W
242609	60206	29	76 02 06	2426	09	29 57 59 N	85 22 58 W
242609	60704	39	76 07 04	2426	09	28 57 58 N	85 22 54 W
242609	70901	DM1	77 09 01	2426	09	28 57 58 N	85 23 01 W
242609	71108	DM2	77 11 08	2426	09	28 57 56 N	85 23 03 W
242609	80212	DM4	78 02 12	2426	09	28 58 00 N	85 23 01 W
242610	60704	39	76 07 04	2426	10	28 57 58 N	85 22 54 W
242610	60705	39	76 07 04	2426	10	28 57 58 N	85 22 54 W
242610	70901	DM1	77 09 01	2426	10	28 57 58 N	85 23 01 W
242610	71108	DM2	77 11 08	2426	10	28 57 56 N	85 23 03 W
242610	80212	DM4	78 02 12	2426	10	28 58 00 N	85 23 01 W
242611	50608	10	75 06 08	2426	11	28 57 57 N	85 23 01 W
242611	50921	21	75 09 21	2426	11	28 58 00 N	85 23 00 W
242611	60206	29	76 02 06	2426	11	29 57 59 N	85 22 58 W
242611	70901	DM1	77 09 01	2426	11	28 57 58 N	85 23 01 W
242611	71108	DM2	77 11 08	2426	11	28 57 56 N	85 23 03 W
242611	80212	DM4	78 02 12	2426	11	28 58 00 N	85 23 01 W
242612	80212	DM4	78 02 12	2426	12	28 58 00 N	85 23 01 W
242613	80212	DM4	78 02 12	2426	13	28 58 00 N	85 23 01 W
242614	80212	DM4	78 02 12	2426	14	28 58 00 N	85 23 01 W
242615	80212	DM4	78 02 12	2426	15	28 58 00 N	85 23 01 W
242616	80212	DM4	78 02 12	2426	16	28 58 00 N	85 23 01 W
242617	50601	15	75 07 26	2426	17	28 58 00 N	85 24 00 W
242617	50726	15	75 07 26	2426	17	28 58 00 N	85 24 00 W
242617	51001	22	75 10 20	2426	17	28 58 00 N	85 24 00 W
242617	51020	22	75 10 20	2426	17	28 58 00 N	85 24 00 W
242617	60201	33	76 02 26	2426	17	28 58 00 N	85 24 00 W
242617	60226	33	76 02 26	2426	17	28 58 00 N	85 24 00 W
242617	60627	44	76 07 11	2426	17	28 57 54 N	85 22 16 W
242617	60711	44	76 07 11	2426	17	28 57 54 N	85 22 16 W
242617	70901	DM1	77 09 01	2426	17	28 57 58 N	85 23 01 W
242617	71030	DM2	77 10 30	2426	17	28 57 55 N	85 23 04 W
242617	80207	DM4	78 02 07	2426	17	28 57 54 N	85 22 56 W
242618	51020	22	75 10 20	2426	18	28 58 00 N	85 24 00 W
242618	60226	33	76 02 26	2426	18	28 58 00 N	85 24 00 W
242618	60627	44	76 07 11	2426	18	28 57 54 N	85 22 16 W
242618	60711	44	76 07 11	2426	18	28 57 54 N	85 22 16 W
242618	60712	44	76 07 11	2426	18	28 57 54 N	85 22 16 W
242618	70901	DM1	77 09 01	2426	18	28 57 58 N	85 23 01 W
242618	71030	DM2	77 10 30	2426	18	28 57 55 N	85 23 04 W
242618	71031	DM2	77 10 30	2426	18	28 57 55 N	85 23 04 W
242618	80207	DM4	78 02 07	2426	18	28 57 54 N	85 22 56 W
242618	80208	DM4	78 02 07	2426	18	28 57 54 N	85 22 56 W
242619	60711	44	76 07 11	2426	19	28 57 54 N	85 22 16 W
242619	60712	44	76 07 11	2426	19	28 57 54 N	85 22 16 W
242619	70901	DM1	77 09 01	2426	19	28 57 58 N	85 23 01 W
242619	71030	DM2	77 10 30	2426	19	28 57 55 N	85 23 04 W
242619	71031	DM2	77 10 30	2426	19	28 57 55 N	85 23 04 W
242619	80207	DM4	78 02 07	2426	19	28 57 54 N	85 22 56 W
242630	60711	44	76 07 11	2426	30	28 57 54 N	85 22 16 W
242630	71030	DM2	77 10 30	2426	30	28 57 55 N	85 23 04 W
242640	60711	44	76 07 11	2426	40	28 57 54 N	85 22 16 W
242650	70901	DM1	77 09 01	2426	50	28 57 58 N	85 23 01 W
242650	71030	DM2	77 10 30	2426	50	28 57 55 N	85 23 04 W
242650	71108	DM2	77 11 08	2426	50	28 57 56 N	85 23 03 W
242650	80207	DM4	78 02 07	2426	50	28 57 54 N	85 22 56 W
242650	80212	DM4	78 02 12	2426	50	28 58 00 N	85 23 01 W
242668	71030	DM2	77 10 30	2426	68	28 57 55 N	85 23 04 W
242668	71108	DM2	77 11 08	2426	68	28 57 56 N	85 23 03 W
242673	71108	DM2	77 11 08	2426	73	28 57 56 N	85 23 03 W
242700	50720	13	75 07 21	2427	00	28 50 00 N	85 37 00 W
242700	51020	22	75 10 20	2427	00	28 49 00 N	85 36 18 W
242701	506 8	10	75 06 08	2427	01	28 49 59 N	85 37 06 W
242701	50608	10	75 06 08	2427	01	28 49 59 N	85 37 06 W
242701	50922	21	75 09 21	2427	01	28 50 00 N	85 37 06 W
242701	602 6	29	76 02 06	2427	01	29 49 59 N	85 37 06 W
242701	60206	29	76 02 06	2427	01	29 49 59 N	85 37 06 W
242701	60705	39	76 07 05	2427	01	28 49 57 N	85 36 59 W
242701	70902	DM1	77 09 02	2427	01	28 50 00 N	85 37 04 W
242701	71108	DM2	77 11 07	2427	01	28 50 01 N	85 36 57 W
242701	80212	DM4	78 02 12	2427	01	28 49 58 N	85 37 03 W
242702	506 8	10	75 06 08	2427	02	28 49 59 N	85 37 06 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
242702	50608	10	75 06 08	2427	02	28 49 59 N	85 37 06 W
242702	50922	21	75 09 21	2427	02	28 50 00 N	85 37 06 W
242702	602 6	29	76 02 06	2427	02	29 49 59 N	85 37 06 W
242702	60206	29	76 02 06	2427	02	29 49 59 N	85 37 06 W
242702	60705	39	76 07 05	2427	02	28 49 57 N	85 36 59 W
242702	70902	DM1	77 09 02	2427	02	28 50 00 N	85 37 04 W
242702	71108	DM2	77 11 07	2427	02	28 50 01 N	85 36 57 W
242702	80212	DM4	78 02 12	2427	02	28 49 58 N	85 37 03 W
242703	506 8	10	75 06 08	2427	03	28 49 59 N	85 37 06 W
242703	50608	10	75 06 08	2427	03	28 49 59 N	85 37 06 W
242703	50922	21	75 09 21	2427	03	28 50 00 N	85 37 06 W
242703	602 6	29	76 02 06	2427	03	29 49 59 N	85 37 06 W
242703	60206	29	76 02 06	2427	03	29 49 59 N	85 37 06 W
242703	60705	39	76 07 05	2427	03	28 49 57 N	85 36 59 W
242703	70902	DM1	77 09 02	2427	03	28 50 00 N	85 37 04 W
242703	71108	DM2	77 11 07	2427	03	28 50 01 N	85 36 57 W
242703	80212	DM4	78 02 12	2427	03	28 49 58 N	85 37 03 W
242704	506 8	10	75 06 08	2427	04	28 49 59 N	85 37 06 W
242704	50608	10	75 06 08	2427	04	28 49 59 N	85 37 06 W
242704	50922	21	75 09 21	2427	04	28 50 00 N	85 37 06 W
242704	602 6	29	76 02 06	2427	04	29 49 59 N	85 37 06 W
242704	60206	29	76 02 06	2427	04	29 49 59 N	85 37 06 W
242704	60705	39	76 07 05	2427	04	28 49 57 N	85 36 59 W
242704	70902	DM1	77 09 02	2427	04	28 50 00 N	85 37 04 W
242704	71108	DM2	77 11 07	2427	04	28 50 01 N	85 36 57 W
242704	80212	DM4	78 02 12	2427	04	28 49 58 N	85 37 03 W
242705	506 8	10	75 06 08	2427	05	28 49 59 N	85 37 06 W
242705	50608	10	75 06 08	2427	05	28 49 59 N	85 37 06 W
242705	50922	21	75 09 21	2427	05	28 50 00 N	85 37 06 W
242705	602 6	29	76 02 06	2427	05	29 49 59 N	85 37 06 W
242705	60206	29	76 02 06	2427	05	29 49 59 N	85 37 06 W
242705	60705	39	76 07 05	2427	05	28 49 57 N	85 36 59 W
242705	70902	DM1	77 09 02	2427	05	28 50 00 N	85 37 04 W
242705	71108	DM2	77 11 07	2427	05	28 50 01 N	85 36 57 W
242705	80212	DM4	78 02 12	2427	05	28 49 58 N	85 37 03 W
242706	506 8	10	75 06 08	2427	06	28 49 59 N	85 37 06 W
242706	50608	10	75 06 08	2427	06	28 49 59 N	85 37 06 W
242706	50922	21	75 09 21	2427	06	28 50 00 N	85 37 06 W
242706	602 6	29	76 02 06	2427	06	29 49 59 N	85 37 06 W
242706	60206	29	76 02 06	2427	06	29 49 59 N	85 37 06 W
242706	60705	39	76 07 05	2427	06	28 49 57 N	85 36 59 W
242706	70902	DM1	77 09 02	2427	06	28 50 00 N	85 37 04 W
242706	71108	DM2	77 11 07	2427	06	28 50 01 N	85 36 57 W
242706	80212	DM4	78 02 12	2427	06	28 49 58 N	85 37 03 W
242707	506 8	10	75 06 08	2427	07	28 49 59 N	85 37 06 W
242707	50608	10	75 06 08	2427	07	28 49 59 N	85 37 06 W
242707	50922	21	75 09 21	2427	07	28 50 00 N	85 37 06 W
242707	602 6	29	76 02 06	2427	07	29 49 59 N	85 37 06 W
242707	60206	29	76 02 06	2427	07	29 49 59 N	85 37 06 W
242707	60705	39	76 07 05	2427	07	28 49 57 N	85 36 59 W
242707	70902	DM1	77 09 02	2427	07	28 50 00 N	85 37 04 W
242707	71108	DM2	77 11 07	2427	07	28 50 01 N	85 36 57 W
242707	80212	DM4	78 02 12	2427	07	28 49 58 N	85 37 03 W
242708	506 8	10	75 06 08	2427	08	28 49 59 N	85 37 06 W
242708	50608	10	75 06 08	2427	08	28 49 59 N	85 37 06 W
242708	50922	21	75 09 21	2427	08	28 50 00 N	85 37 06 W
242708	602 6	29	76 02 06	2427	08	29 49 59 N	85 37 06 W
242708	60206	29	76 02 06	2427	08	29 49 59 N	85 37 06 W
242708	60705	39	76 07 05	2427	08	28 49 57 N	85 36 59 W
242708	70902	DM1	77 09 02	2427	08	28 50 00 N	85 37 04 W
242708	71108	DM2	77 11 07	2427	08	28 50 01 N	85 36 57 W
242708	80212	DM4	78 02 12	2427	08	28 49 58 N	85 37 03 W
242709	506 8	10	75 06 08	2427	09	28 49 59 N	85 37 06 W
242709	50608	10	75 06 08	2427	09	28 49 59 N	85 37 06 W
242709	50922	21	75 09 21	2427	09	28 50 00 N	85 37 06 W
242709	602 6	29	76 02 06	2427	09	29 49 59 N	85 37 06 W
242709	60206	29	76 02 06	2427	09	29 49 59 N	85 37 06 W
242709	60705	39	76 07 05	2427	09	28 49 57 N	85 36 59 W
242709	70902	DM1	77 09 02	2427	09	28 50 00 N	85 37 04 W
242709	71108	DM2	77 11 07	2427	09	28 50 01 N	85 36 57 W
242709	80212	DM4	78 02 12	2427	09	28 49 58 N	85 37 03 W
242710	60607	39	76 07 05	2427	10	28 49 57 N	85 36 59 W
242710	60705	39	76 07 05	2427	10	28 49 57 N	85 36 59 W
242710	70902	DM1	77 09 02	2427	10	28 50 00 N	85 37 04 W
242710	71108	DM2	77 11 07	2427	10	28 50 01 N	85 36 57 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
242710	80212	DM4	78 02 12	2427	10	28 49 58 N	85 37 03 W
242711	50608	10	75 06 08	2427	11	28 49 59 N	85 37 06 W
242711	50922	21	75 09 21	2427	11	28 50 00 N	85 37 06 W
242711	60206	29	76 02 06	2427	11	29 49 59 N	85 37 06 W
242711	70902	DM1	77 09 02	2427	11	28 50 00 N	85 37 04 W
242711	71108	DM2	77 11 07	2427	11	28 50 01 N	85 36 57 W
242711	80212	DM4	78 02 12	2427	11	28 49 58 N	85 37 03 W
242712	70902	DM1	77 09 02	2427	12	28 50 00 N	85 37 04 W
242713	70902	DM1	77 09 02	2427	13	28 50 00 N	85 37 04 W
242714	70902	DM1	77 09 02	2427	14	28 50 00 N	85 37 04 W
242715	70902	DM1	77 09 02	2427	15	28 50 00 N	85 37 04 W
242716	70902	DM1	77 09 02	2427	16	28 50 00 N	85 37 04 W
242717	50601	13	75 07 21	2427	17	28 50 00 N	85 37 00 W
242717	50720	13	75 07 21	2427	17	28 50 00 N	85 37 00 W
242717	51001	22	75 10 20	2427	17	28 49 00 N	85 36 18 W
242717	51020	22	75 10 20	2427	17	28 49 00 N	85 36 18 W
242717	60201	33	76 02 26	2427	17	28 51 00 N	85 37 00 W
242717	60226	33	76 02 26	2427	17	28 51 00 N	85 37 00 W
242717	60611	44	76 07 11	2427	17	28 50 59 N	85 36 56 W
242717	60628	44	76 07 11	2427	17	28 50 59 N	85 36 56 W
242717	60629	44	76 07 11	2427	17	28 50 59 N	85 36 56 W
242717	60710	44	76 07 11	2427	17	28 50 59 N	85 36 56 W
242717	60711	44	76 07 11	2427	17	28 50 59 N	85 36 56 W
242717	70902	DM1	77 09 02	2427	17	28 50 00 N	85 37 04 W
242717	71030	DM2	77 11 07	2427	17	28 50 00 N	85 37 04 W
242717	80207	DM4	78 02 07	2427	17	28 49 52 N	85 36 54 W
242718	60226	33	76 02 26	2427	18	28 51 00 N	85 37 00 W
242718	60611	44	76 07 11	2427	18	28 50 59 N	85 36 56 W
242718	60711	44	76 07 11	2427	18	28 50 59 N	85 36 56 W
242718	70902	DM1	77 09 02	2427	18	28 50 00 N	85 37 04 W
242719	60711	44	76 07 11	2427	19	28 50 59 N	85 36 56 W
242730	60711	44	76 07 11	2427	30	28 50 59 N	85 36 56 W
242730	70902	DM1	77 09 02	2427	30	28 50 00 N	85 37 04 W
242730	71030	DM2	77 11 07	2427	30	28 50 00 N	85 37 04 W
242730	80207	DM4	78 02 07	2427	30	28 49 52 N	85 36 54 W
242731	80207	DM4	78 02 07	2427	31	28 49 52 N	85 36 54 W
242750	70901	DM1	77 09 01	2427	50	28 50 00 N	85 37 04 W
242750	71030	DM2	77 11 07	2427	50	28 50 00 N	85 37 04 W
242750	71108	DM2	77 11 07	2427	50	28 50 00 N	85 37 04 W
242750	80207	DM4	78 02 07	2427	50	28 49 52 N	85 36 54 W
242750	80212	DM4	78 02 12	2427	50	28 49 58 N	85 37 03 W
242768	71030	DM2	77 11 07	2427	68	28 50 00 N	85 37 04 W
242768	71108	DM2	77 11 07	2427	68	28 50 00 N	85 37 04 W
242773	71108	DM2	77 11 07	2427	73	28 50 00 N	85 37 04 W
242813	80212	DM4	78 02 12	2528	13	29 54 55 N	86 04 58 W
242901	70906	DM1	77 09 06	2529	01	29 56 00 N	86 06 30 W
244002	80210	DM4	78 02 10	2640	02	29 43 29 N	87 54 29 W
244630	80208	DM4	78 02 08	2645	30	29 34 59 N	87 20 07 W
252617	80207	DM4	78 02 08	2529	17	29 55 56 N	86 06 29 W
252618	80208	DM4	78 02 07	2426	18	28 57 54 N	85 22 56 W
252801	506 4	10	75 06 03	2528	01	29 54 59 N	86 05 00 W
252801	50604	10	75 06 03	2528	01	29 54 59 N	86 05 00 W
252801	50925	21	75 09 25	2528	01	29 54 54 N	86 05 00 W
252801	602 7	29	76 02 07	2528	01	29 54 54 N	86 05 00 W
252801	60207	29	76 02 07	2528	01	29 54 54 N	86 05 00 W
252801	60706	39	76 07 06	2528	01	29 54 58 N	86 05 01 W
252801	70906	DM1	77 09 06	2528	01	29 54 59 N	86 04 58 W
252801	71107	DM2	77 11 07	2528	01	29 55 01 N	86 04 53 W
252801	80212	DM4	78 02 12	2528	01	29 54 55 N	86 04 58 W
252802	506 4	10	75 06 03	2528	02	29 54 59 N	86 05 00 W
252802	50604	10	75 06 03	2528	02	29 54 59 N	86 05 00 W
252802	50925	21	75 09 25	2528	02	29 54 54 N	86 05 00 W
252802	602 7	29	76 02 07	2528	02	29 54 54 N	86 05 00 W
252802	60207	29	76 02 07	2528	02	29 54 54 N	86 05 00 W
252802	60706	39	76 07 06	2528	02	29 54 58 N	86 05 01 W
252802	70906	DM1	77 09 06	2528	02	29 54 59 N	86 04 58 W
252802	71107	DM2	77 11 07	2528	02	29 55 01 N	86 04 53 W
252802	80212	DM4	78 02 12	2528	02	29 54 55 N	86 04 58 W
252803	506 4	10	75 06 03	2528	03	29 54 59 N	86 05 00 W
252803	50604	10	75 06 03	2528	03	29 54 59 N	86 05 00 W
252803	50925	21	75 09 25	2528	03	29 54 54 N	86 05 00 W
252803	602 7	29	76 02 07	2528	03	29 54 54 N	86 05 00 W
252803	60207	29	76 02 07	2528	03	29 54 54 N	86 05 00 W
252803	60706	39	76 07 06	2528	03	29 54 58 N	86 05 01 W
252803	70907	DM1	77 09 07	2528	03	29 54 59 N	86 04 58 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
252803	71107	DM2	77 11 07	2528	03	29 55 01 N	86 04 53 W
252803	80212	DM4	78 02 12	2528	03	29 54 55 N	86 04 58 W
252804	506 4	10	75 06 03	2528	04	29 54 59 N	86 05 00 W
252804	50604	10	75 06 03	2528	04	29 54 59 N	86 05 00 W
252804	50925	21	75 09 25	2528	04	29 54 54 N	86 05 00 W
252804	602 7	29	76 02 07	2528	04	29 54 54 N	86 05 00 W
252804	60207	29	76 02 07	2528	04	29 54 54 N	86 05 00 W
252804	60706	39	76 07 06	2528	04	29 54 58 N	86 05 01 W
252804	70907	DM1	77 09 07	2528	04	29 54 59 N	86 04 58 W
252804	71107	DM2	77 11 07	2528	04	29 55 01 N	86 04 53 W
252804	80212	DM4	78 02 12	2528	04	29 54 55 N	86 04 58 W
252805	506 4	10	75 06 03	2528	05	29 54 59 N	86 05 00 W
252805	50604	10	75 06 03	2528	05	29 54 59 N	86 05 00 W
252805	50925	21	75 09 25	2528	05	29 54 54 N	86 05 00 W
252805	602 7	29	76 02 07	2528	05	29 54 54 N	86 05 00 W
252805	60207	29	76 02 07	2528	05	29 54 54 N	86 05 00 W
252805	60706	39	76 07 06	2528	05	29 54 58 N	86 05 01 W
252805	70901	DM1	77 09 07	2528	05	29 54 59 N	86 04 58 W
252805	70907	DM1	77 09 07	2528	05	29 54 59 N	86 04 58 W
252805	71107	DM2	77 11 07	2528	05	29 55 01 N	86 04 53 W
252805	80212	DM4	78 02 12	2528	05	29 54 55 N	86 04 58 W
252806	506 4	10	75 06 03	2528	06	29 54 59 N	86 05 00 W
252806	50604	10	75 06 03	2528	06	29 54 59 N	86 05 00 W
252806	50925	21	75 09 25	2528	06	29 54 54 N	86 05 00 W
252806	602 7	29	76 02 07	2528	06	29 54 54 N	86 05 00 W
252806	60207	29	76 02 07	2528	06	29 54 54 N	86 05 00 W
252806	60706	39	76 07 06	2528	06	29 54 58 N	86 05 01 W
252806	70907	DM1	77 09 07	2528	06	29 54 59 N	86 04 58 W
252806	71107	DM2	77 11 07	2528	06	29 55 01 N	86 04 53 W
252806	80212	DM4	78 02 12	2528	06	29 54 55 N	86 04 58 W
252807	506 4	10	75 06 03	2528	07	29 54 59 N	86 05 00 W
252807	50604	10	75 06 03	2528	07	29 54 59 N	86 05 00 W
252807	50925	21	75 09 25	2528	07	29 54 54 N	86 05 00 W
252807	602 7	29	76 02 07	2528	07	29 54 54 N	86 05 00 W
252807	60207	29	76 02 07	2528	07	29 54 54 N	86 05 00 W
252807	60706	39	76 07 06	2528	07	29 54 58 N	86 05 01 W
252807	70901	DM1	77 09 07	2528	07	29 54 59 N	86 04 58 W
252807	70907	DM1	77 09 07	2528	07	29 54 59 N	86 04 58 W
252807	71107	DM2	77 11 07	2528	07	29 55 01 N	86 04 53 W
252807	80212	DM4	78 02 12	2528	07	29 54 55 N	86 04 58 W
252808	506 4	10	75 06 03	2528	08	29 54 59 N	86 05 00 W
252808	50604	10	75 06 03	2528	08	29 54 59 N	86 05 00 W
252808	50925	21	75 09 25	2528	08	29 54 54 N	86 05 00 W
252808	602 7	29	76 02 07	2528	08	29 54 54 N	86 05 00 W
252808	60207	29	76 02 07	2528	08	29 54 54 N	86 05 00 W
252808	60706	39	76 07 06	2528	08	29 54 58 N	86 05 01 W
252808	70901	DM1	77 09 07	2528	08	29 54 59 N	86 04 58 W
252808	70907	DM1	77 09 07	2528	08	29 54 59 N	86 04 58 W
252808	71107	DM2	77 11 07	2528	08	29 55 01 N	86 04 53 W
252808	80212	DM4	78 02 12	2528	08	29 54 55 N	86 04 58 W
252809	506 4	10	75 06 03	2528	09	29 54 59 N	86 05 00 W
252809	50604	10	75 06 03	2528	09	29 54 59 N	86 05 00 W
252809	50925	21	75 09 25	2528	09	29 54 54 N	86 05 00 W
252809	602 7	29	76 02 07	2528	09	29 54 54 N	86 05 00 W
252809	60207	29	76 02 07	2528	09	29 54 54 N	86 05 00 W
252809	60706	39	76 07 06	2528	09	29 54 58 N	86 05 01 W
252809	70907	DM1	77 09 07	2528	09	29 54 59 N	86 04 58 W
252809	71107	DM2	77 11 07	2528	09	29 55 01 N	86 04 53 W
252809	80212	DM4	78 02 12	2528	09	29 54 55 N	86 04 58 W
252810	60706	39	76 07 06	2528	10	29 54 58 N	86 05 01 W
252810	70901	DM1	77 09 07	2528	10	29 54 59 N	86 04 58 W
252810	70907	DM1	77 09 07	2528	10	29 54 59 N	86 04 58 W
252810	71107	DM2	77 11 07	2528	10	29 55 01 N	86 04 53 W
252810	80212	DM4	78 02 12	2528	10	29 54 55 N	86 04 58 W
252811	50604	10	75 06 03	2528	11	29 54 59 N	86 05 00 W
252811	50925	21	75 09 25	2528	11	29 54 54 N	86 05 00 W
252811	60207	29	76 02 07	2528	11	29 54 54 N	86 05 00 W
252811	70901	DM1	77 09 07	2528	11	29 54 59 N	86 04 58 W
252811	70907	DM1	77 09 07	2528	11	29 54 59 N	86 04 58 W
252811	71107	DM2	77 11 07	2528	11	29 55 01 N	86 04 53 W
252811	80212	DM4	78 02 12	2528	11	29 54 55 N	86 04 58 W
252812	80212	DM4	78 02 12	2528	12	29 54 55 N	86 04 58 W
252813	80212	DM4	78 02 12	2528	13	29 54 55 N	86 04 58 W
252814	80212	DM4	78 02 12	2528	14	29 54 55 N	86 04 58 W
252815	80212	DM4	78 02 12	2528	15	29 54 55 N	86 04 58 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
252816	80212	DM4	78 02 12	2528	16	29 54 55 N	86 04 58 W
252817	71107	DM2	77 11 07	2528	17	29 55 01 N	86 04 53 W
252850	70906	DM1	77 09 06	2528	50	29 54 59 N	86 04 58 W
252850	71030	DM2	77 10 30	2529	50	29 55 59 N	86 06 30 W
252850	71107	DM2	77 11 07	2528	50	29 55 01 N	86 04 53 W
252850	80212	DM4	78 02 12	2528	50	29 54 55 N	86 04 58 W
252850	80215	DM3	78 02 15	2528	50	29 55 00 N	86 05 00 W
252850	80216	DM3	78 02 16	2528	50	29 55 00 N	86 05 00 W
252850	80217	DM3	78 02 17	2528	50	29 55 00 N	86 05 00 W
252850	80218	DM3	78 02 18	2528	50	29 55 00 N	86 05 00 W
252850	80219	DM3	78 02 19	2528	50	29 55 00 N	86 05 00 W
252851	71030	DM2	77 10 30	2529	51	29 55 59 N	86 06 30 W
252851	80215	DM3	78 02 15	2528	51	29 55 00 N	86 05 00 W
252851	80216	DM3	78 02 16	2528	51	29 55 00 N	86 05 00 W
252851	80217	DM3	78 02 17	2528	51	29 55 00 N	86 05 00 W
252851	80218	DM3	78 02 18	2528	51	29 55 00 N	86 05 00 W
252851	80219	DM3	78 02 19	2528	51	29 55 00 N	86 05 00 W
252852	71030	DM2	77 10 30	2529	52	29 56 00 N	86 06 28 W
252852	80215	DM3	78 02 15	2528	52	29 55 00 N	86 05 00 W
252852	80216	DM3	78 02 16	2528	52	29 55 00 N	86 05 00 W
252852	80217	DM3	78 02 17	2528	52	29 55 00 N	86 05 00 W
252852	80218	DM3	78 02 18	2528	52	29 55 00 N	86 05 00 W
252852	80219	DM3	78 02 19	2528	52	29 55 00 N	86 05 00 W
252853	71030	DM2	77 10 30	2529	53	29 56 00 N	86 06 28 W
252853	80215	DM3	78 02 15	2528	53	29 55 00 N	86 05 00 W
252853	80216	DM3	78 02 16	2528	53	29 55 00 N	86 05 00 W
252853	80217	DM3	78 02 17	2528	53	29 55 00 N	86 05 00 W
252853	80218	DM3	78 02 18	2528	53	29 55 00 N	86 05 00 W
252853	80219	DM3	78 02 19	2528	53	29 55 00 N	86 05 00 W
252854	71030	DM2	77 10 30	2529	54	29 56 00 N	86 06 28 W
252854	80215	DM3	78 02 15	2528	54	29 55 00 N	86 05 00 W
252854	80216	DM3	78 02 16	2528	54	29 55 00 N	86 05 00 W
252854	80217	DM3	78 02 17	2528	54	29 55 00 N	86 05 00 W
252854	80218	DM3	78 02 18	2528	54	29 55 00 N	86 05 00 W
252854	80219	DM3	78 02 19	2528	54	29 55 00 N	86 05 00 W
252855	71030	DM2	77 10 30	2529	55	29 55 59 N	86 06 30 W
252855	80215	DM3	78 02 15	2528	55	29 55 00 N	86 05 00 W
252855	80216	DM3	78 02 16	2528	55	29 55 00 N	86 05 00 W
252855	80217	DM3	78 02 17	2528	55	29 55 00 N	86 05 00 W
252855	80218	DM3	78 02 18	2528	55	29 55 00 N	86 05 00 W
252855	80219	DM3	78 02 19	2528	55	29 55 00 N	86 05 00 W
252856	71030	DM2	77 10 30	2529	56	29 56 00 N	86 06 28 W
252856	80215	DM3	78 02 15	2528	56	29 55 00 N	86 05 00 W
252856	80216	DM3	78 02 16	2528	56	29 55 00 N	86 05 00 W
252856	80217	DM3	78 02 17	2528	56	29 55 00 N	86 05 00 W
252856	80218	DM3	78 02 18	2528	56	29 55 00 N	86 05 00 W
252856	80219	DM3	78 02 19	2528	56	29 55 00 N	86 05 00 W
252857	71030	DM2	77 10 30	2529	57	29 55 59 N	86 06 30 W
252857	80215	DM3	78 02 15	2528	57	29 55 00 N	86 05 00 W
252857	80216	DM3	78 02 16	2528	57	29 55 00 N	86 05 00 W
252857	80217	DM3	78 02 17	2528	57	29 55 00 N	86 05 00 W
252857	80218	DM3	78 02 18	2528	57	29 55 00 N	86 05 00 W
252857	80219	DM3	78 02 19	2528	57	29 55 00 N	86 05 00 W
252858	71030	DM2	77 10 30	2529	58	29 55 59 N	86 06 30 W
252858	80219	DM3	78 02 19	2528	58	29 55 00 N	86 05 00 W
252859	80219	DM3	78 02 19	2528	59	29 55 00 N	86 05 00 W
252861	80215	DM3	78 02 15	2528	61	29 55 00 N	86 05 00 W
252861	80216	DM3	78 02 16	2528	61	29 55 00 N	86 05 00 W
252861	80217	DM3	78 02 17	2528	61	29 55 00 N	86 05 00 W
252861	80218	DM3	78 02 18	2528	61	29 55 00 N	86 05 00 W
252861	80219	DM3	78 02 19	2528	61	29 55 00 N	86 05 00 W
252862	80215	DM3	78 02 15	2528	62	29 55 00 N	86 05 00 W
252862	80216	DM3	78 02 16	2528	62	29 55 00 N	86 05 00 W
252862	80217	DM3	78 02 17	2528	62	29 55 00 N	86 05 00 W
252862	80218	DM3	78 02 18	2528	62	29 55 00 N	86 05 00 W
252862	80219	DM3	78 02 19	2528	62	29 55 00 N	86 05 00 W
252868	71107	DM2	77 11 07	2528	68	29 55 01 N	86 04 53 W
252868	80215	DM3	78 02 15	2528	68	29 55 00 N	86 05 00 W
252868	80216	DM3	78 02 16	2528	68	29 55 00 N	86 05 00 W
252868	80217	DM3	78 02 17	2528	68	29 55 00 N	86 05 00 W
252868	80218	DM3	78 02 18	2528	68	29 55 00 N	86 05 00 W
252868	80219	DM3	78 02 19	2528	68	29 55 00 N	86 05 00 W
252869	80215	DM3	78 02 15	2528	69	29 55 00 N	86 05 00 W
252869	80216	DM3	78 02 16	2528	69	29 55 00 N	86 05 00 W
252869	80217	DM3	78 02 17	2528	69	29 55 00 N	86 05 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
252869	80218	DM3	78 02 18	2528	69	29 55 00 N	86 05 00 W
252869	80219	DM3	78 02 19	2528	69	29 55 00 N	86 05 00 W
252870	80215	DM3	78 02 15	2528	70	29 55 00 N	86 05 00 W
252870	80216	DM3	78 02 16	2528	70	29 55 00 N	86 05 00 W
252870	80217	DM3	78 02 17	2528	70	29 55 00 N	86 05 00 W
252870	80218	DM3	78 02 18	2528	70	29 55 00 N	86 05 00 W
252870	80219	DM3	78 02 19	2528	70	29 55 00 N	86 05 00 W
252871	80215	DM3	78 02 15	2528	71	29 55 00 N	86 05 00 W
252871	80216	DM3	78 02 16	2528	71	29 55 00 N	86 05 00 W
252871	80217	DM3	78 02 17	2528	71	29 55 00 N	86 05 00 W
252871	80218	DM3	78 02 18	2528	71	29 55 00 N	86 05 00 W
252871	80219	DM3	78 02 19	2528	71	29 55 00 N	86 05 00 W
252872	80215	DM3	78 02 15	2528	72	29 55 00 N	86 05 00 W
252872	80216	DM3	78 02 16	2528	72	29 55 00 N	86 05 00 W
252872	80217	DM3	78 02 17	2528	72	29 55 00 N	86 05 00 W
252872	80218	DM3	78 02 18	2528	72	29 55 00 N	86 05 00 W
252872	80219	DM3	78 02 19	2528	72	29 55 00 N	86 05 00 W
252873	71107	DM2	77 11 07	2528	73	29 55 01 N	86 04 53 W
252873	80215	DM3	78 02 15	2528	73	29 55 00 N	86 05 00 W
252873	80216	DM3	78 02 16	2528	73	29 55 00 N	86 05 00 W
252873	80217	DM3	78 02 17	2528	73	29 55 00 N	86 05 00 W
252873	80218	DM3	78 02 18	2528	73	29 55 00 N	86 05 00 W
252873	80219	DM3	78 02 19	2528	73	29 55 00 N	86 05 00 W
252874	80215	DM3	78 02 15	2528	74	29 55 00 N	86 05 00 W
252874	80216	DM3	78 02 16	2528	74	29 55 00 N	86 05 00 W
252874	80217	DM3	78 02 17	2528	74	29 55 00 N	86 05 00 W
252874	80218	DM3	78 02 18	2528	74	29 55 00 N	86 05 00 W
252874	80219	DM3	78 02 19	2528	74	29 55 00 N	86 05 00 W
252875	80215	DM3	78 02 15	2528	75	29 55 00 N	86 05 00 W
252875	80216	DM3	78 02 16	2528	75	29 55 00 N	86 05 00 W
252875	80217	DM3	78 02 17	2528	75	29 55 00 N	86 05 00 W
252875	80218	DM3	78 02 18	2528	75	29 55 00 N	86 05 00 W
252875	80219	DM3	78 02 19	2528	75	29 55 00 N	86 05 00 W
252876	80215	DM3	78 02 15	2528	76	29 55 00 N	86 05 00 W
252876	80216	DM3	78 02 16	2528	76	29 55 00 N	86 05 00 W
252876	80217	DM3	78 02 17	2528	76	29 55 00 N	86 05 00 W
252876	80218	DM3	78 02 18	2528	76	29 55 00 N	86 05 00 W
252876	80219	DM3	78 02 19	2528	76	29 55 00 N	86 05 00 W
252877	80215	DM3	78 02 15	2528	77	29 55 00 N	86 05 00 W
252877	80216	DM3	78 02 16	2528	77	29 55 00 N	86 05 00 W
252877	80217	DM3	78 02 17	2528	77	29 55 00 N	86 05 00 W
252877	80218	DM3	78 02 18	2528	77	29 55 00 N	86 05 00 W
252877	80219	DM3	78 02 19	2528	77	29 55 00 N	86 05 00 W
252878	80215	DM3	78 02 15	2528	78	29 55 00 N	86 05 00 W
252878	80216	DM3	78 02 16	2528	78	29 55 00 N	86 05 00 W
252878	80217	DM3	78 02 17	2528	78	29 55 00 N	86 05 00 W
252878	80218	DM3	78 02 18	2528	78	29 55 00 N	86 05 00 W
252878	80219	DM3	78 02 19	2528	78	29 55 00 N	86 05 00 W
252879	80216	DM3	78 02 16	2528	79	29 55 00 N	86 05 00 W
252879	80217	DM3	78 02 17	2528	79	29 55 00 N	86 05 00 W
252879	80218	DM3	78 02 18	2528	79	29 55 00 N	86 05 00 W
252879	80219	DM3	78 02 19	2528	79	29 55 00 N	86 05 00 W
252885	80215	DM3	78 02 15	2528	85	29 55 00 N	86 05 00 W
252885	80216	DM3	78 02 16	2528	85	29 55 00 N	86 05 00 W
252885	80217	DM3	78 02 17	2528	85	29 55 00 N	86 05 00 W
252885	80218	DM3	78 02 18	2528	85	29 55 00 N	86 05 00 W
252885	80219	DM3	78 02 19	2528	85	29 55 00 N	86 05 00 W
252886	80215	DM3	78 02 15	2528	86	29 55 00 N	86 05 00 W
252886	80216	DM3	78 02 16	2528	86	29 55 00 N	86 05 00 W
252886	80217	DM3	78 02 17	2528	86	29 55 00 N	86 05 00 W
252886	80218	DM3	78 02 18	2528	86	29 55 00 N	86 05 00 W
252886	80219	DM3	78 02 19	2528	86	29 55 00 N	86 05 00 W
252887	80215	DM3	78 02 15	2528	87	29 55 00 N	86 05 00 W
252887	80216	DM3	78 02 16	2528	87	29 55 00 N	86 05 00 W
252887	80217	DM3	78 02 17	2528	87	29 55 00 N	86 05 00 W
252887	80218	DM3	78 02 18	2528	87	29 55 00 N	86 05 00 W
252887	80219	DM3	78 02 19	2528	87	29 55 00 N	86 05 00 W
252888	80215	DM3	78 02 15	2528	88	29 55 00 N	86 05 00 W
252888	80216	DM3	78 02 16	2528	88	29 55 00 N	86 05 00 W
252888	80217	DM3	78 02 17	2528	88	29 55 00 N	86 05 00 W
252888	80218	DM3	78 02 18	2528	88	29 55 00 N	86 05 00 W
252888	80219	DM3	78 02 19	2528	88	29 55 00 N	86 05 00 W
252889	80215	DM3	78 02 15	2528	89	29 55 00 N	86 05 00 W
252889	80216	DM3	78 02 16	2528	89	29 55 00 N	86 05 00 W
252889	80217	DM3	78 02 17	2528	89	29 55 00 N	86 05 00 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
252889	80218	DM3	78 02 18	2528	89	29 55 00 N	86 05 00 W
252889	80219	DM3	78 02 19	2528	89	29 55 00 N	86 05 00 W
252890	80215	DM3	78 02 15	2528	90	29 55 00 N	86 05 00 W
252890	80216	DM3	78 02 16	2528	90	29 55 00 N	86 05 00 W
252890	80217	DM3	78 02 17	2528	90	29 55 00 N	86 05 00 W
252890	80218	DM3	78 02 18	2528	90	29 55 00 N	86 05 00 W
252890	80219	DM3	78 02 19	2528	90	29 55 00 N	86 05 00 W
252891	80215	DM3	78 02 15	2528	91	29 55 00 N	86 05 00 W
252891	80216	DM3	78 02 16	2528	91	29 55 00 N	86 05 00 W
252891	80217	DM3	78 02 17	2528	91	29 55 00 N	86 05 00 W
252891	80218	DM3	78 02 18	2528	91	29 55 00 N	86 05 00 W
252891	80219	DM3	78 02 19	2528	91	29 55 00 N	86 05 00 W
252892	80215	DM3	78 02 15	2528	92	29 55 00 N	86 05 00 W
252892	80216	DM3	78 02 16	2528	92	29 55 00 N	86 05 00 W
252892	80217	DM3	78 02 17	2528	92	29 55 00 N	86 05 00 W
252892	80218	DM3	78 02 18	2528	92	29 55 00 N	86 05 00 W
252892	80219	DM3	78 02 19	2528	92	29 55 00 N	86 05 00 W
252893	80216	DM3	78 02 16	2528	93	29 55 00 N	86 05 00 W
252900	50720	13	75 07 20	2529	00	29 50 00 N	86 06 30 W
252900	51019	22	75 10 19	2529	00	29 49 54 N	86 05 06 W
252900	60208	30	76 02 07	2529	00	29 50 00 N	86 05 30 W
252901	40628	2	74 06 02	2529	01	29 55 59 N	86 06 30 W
252901	506 4	10	75 06 04	2529	01	29 55 59 N	86 06 28 W
252901	50604	10	75 06 04	2529	01	29 55 59 N	86 06 28 W
252901	50925	21	75 09 25	2529	01	29 56 00 N	86 06 30 W
252901	602 7	29	76 02 07	2529	01	29 56 00 N	86 06 30 W
252901	60207	29	76 02 07	2529	01	29 56 00 N	86 06 30 W
252901	60706	39	76 07 06	2529	01	29 55 58 N	86 06 31 W
252901	70906	DM1	77 09 06	2529	01	29 56 00 N	86 06 30 W
252901	71107	DM2	77 11 07	2529	01	29 56 00 N	86 06 28 W
252901	80212	DM4	78 02 12	2529	01	29 55 59 N	86 06 25 W
252902	40628	2	74 06 02	2529	02	29 55 59 N	86 06 30 W
252902	506 4	10	75 06 04	2529	02	29 55 59 N	86 06 28 W
252902	50604	10	75 06 04	2529	02	29 55 59 N	86 06 28 W
252902	50925	21	75 09 25	2529	02	29 56 00 N	86 06 30 W
252902	602 7	29	76 02 07	2529	02	29 56 00 N	86 06 30 W
252902	60207	29	76 02 07	2529	02	29 56 00 N	86 06 30 W
252902	60706	39	76 07 06	2529	02	29 55 58 N	86 06 31 W
252902	80212	DM4	78 02 12	2529	02	29 55 59 N	86 06 25 W
252903	506 4	10	75 06 04	2529	03	29 55 59 N	86 06 28 W
252903	50604	10	75 06 04	2529	03	29 55 59 N	86 06 28 W
252903	50925	21	75 09 25	2529	03	29 56 00 N	86 06 30 W
252903	602 7	29	76 02 07	2529	03	29 56 00 N	86 06 30 W
252903	60207	29	76 02 07	2529	03	29 56 00 N	86 06 30 W
252903	60706	39	76 07 06	2529	03	29 55 58 N	86 06 31 W
252903	80212	DM4	78 02 12	2529	03	29 55 59 N	86 06 25 W
252904	506 4	10	75 06 04	2529	04	29 55 59 N	86 06 28 W
252904	50604	10	75 06 04	2529	04	29 55 59 N	86 06 28 W
252904	50925	21	75 09 25	2529	04	29 56 00 N	86 06 30 W
252904	602 7	29	76 02 07	2529	04	29 56 00 N	86 06 30 W
252904	60207	29	76 02 07	2529	04	29 56 00 N	86 06 30 W
252904	60706	39	76 07 06	2529	04	29 55 58 N	86 06 31 W
252904	80212	DM4	78 02 12	2529	04	29 55 59 N	86 06 25 W
252905	506 4	10	75 06 04	2529	05	29 55 59 N	86 06 28 W
252905	50604	10	75 06 04	2529	05	29 55 59 N	86 06 28 W
252905	50925	21	75 09 25	2529	05	29 56 00 N	86 06 30 W
252905	602 7	29	76 02 07	2529	05	29 56 00 N	86 06 30 W
252905	60207	29	76 02 07	2529	05	29 56 00 N	86 06 30 W
252905	60706	39	76 07 06	2529	05	29 55 58 N	86 06 31 W
252905	80212	DM4	78 02 12	2529	05	29 55 59 N	86 06 25 W
252906	506 4	10	75 06 04	2529	06	29 55 59 N	86 06 28 W
252906	50604	10	75 06 04	2529	06	29 55 59 N	86 06 28 W
252906	50925	21	75 09 25	2529	06	29 56 00 N	86 06 30 W
252906	602 7	29	76 02 07	2529	06	29 56 00 N	86 06 30 W
252906	60207	29	76 02 07	2529	06	29 56 00 N	86 06 30 W
252906	60706	39	76 07 06	2529	06	29 55 58 N	86 06 31 W
252906	80212	DM4	78 02 12	2529	06	29 55 59 N	86 06 25 W
252907	506 4	10	75 06 04	2529	07	29 55 59 N	86 06 28 W
252907	50604	10	75 06 04	2529	07	29 55 59 N	86 06 28 W
252907	50925	21	75 09 25	2529	07	29 56 00 N	86 06 30 W
252907	602 7	29	76 02 07	2529	07	29 56 00 N	86 06 30 W
252907	60207	29	76 02 07	2529	07	29 56 00 N	86 06 30 W
252907	60706	39	76 07 06	2529	07	29 55 58 N	86 06 31 W
252908	40616	2	74 06 02	2529	08	29 55 59 N	86 06 30 W
252908	506 4	10	75 06 04	2529	08	29 55 59 N	86 06 28 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
252908	50604	10	75 06 04	2529	08	29 55 59 N	86 06 28 W
252908	50925	21	75 09 25	2529	08	29 56 00 N	86 06 30 W
252908	602 7	29	76 02 07	2529	08	29 56 00 N	86 06 30 W
252908	60207	29	76 02 07	2529	08	29 56 00 N	86 06 30 W
252908	60706	39	76 07 06	2529	08	29 55 58 N	86 06 31 W
252909	506 4	10	75 06 04	2529	09	29 55 59 N	86 06 28 W
252909	50604	10	75 06 04	2529	09	29 55 59 N	86 06 28 W
252909	50925	21	75 09 25	2529	09	29 56 00 N	86 06 30 W
252909	602 7	29	76 02 07	2529	09	29 56 00 N	86 06 30 W
252909	60207	29	76 02 07	2529	09	29 56 00 N	86 06 30 W
252909	60706	39	76 07 06	2529	09	29 55 58 N	86 06 31 W
252910	60706	39	76 07 06	2529	10	29 55 58 N	86 06 31 W
252911	50604	10	75 06 04	2529	11	29 55 59 N	86 06 28 W
252911	50925	21	75 09 25	2529	11	29 56 00 N	86 06 30 W
252911	60207	29	76 02 07	2529	11	29 56 00 N	86 06 30 W
252917	50601	13	75 07 20	2529	17	29 50 00 N	86 06 30 W
252917	50720	13	75 07 20	2529	17	29 50 00 N	86 06 30 W
252917	51001	22	75 10 19	2529	17	29 49 54 N	86 05 06 W
252917	51019	22	75 10 19	2529	17	29 49 54 N	86 05 06 W
252917	60201	30	76 02 07	2529	17	29 50 00 N	86 05 30 W
252917	60208	30	76 02 07	2529	17	29 50 00 N	86 05 30 W
252917	60628	40	76 06 28	2529	17	29 55 42 N	86 06 19 W
252917	60728	40	76 06 28	2529	17	29 55 42 N	86 06 19 W
252917	70906	DM1	77 09 06	2529	17	29 56 00 N	86 06 30 W
252917	71026	DM2	77 10 30	2529	17	29 55 59 N	86 06 30 W
252917	71031	DM2	77 10 30	2529	17	29 55 59 N	86 06 30 W
252917	80208	DM4	78 02 08	2529	17	29 55 56 N	86 06 29 W
252918	50720	13	75 07 20	2529	18	29 50 00 N	86 06 30 W
252918	51019	22	75 10 19	2529	18	29 49 54 N	86 05 06 W
252918	60208	30	76 02 07	2529	18	29 50 00 N	86 05 30 W
252918	60628	40	76 06 28	2529	18	29 55 42 N	86 06 19 W
252918	60728	40	76 06 28	2529	18	29 55 42 N	86 06 19 W
252918	70823	DM1	77 09 06	2529	18	29 56 00 N	86 06 30 W
252918	70901	DM1	77 09 06	2529	18	29 56 00 N	86 06 30 W
252918	70906	DM1	77 09 06	2529	18	29 56 00 N	86 06 30 W
252918	71031	DM2	77 10 30	2529	18	29 55 59 N	86 06 30 W
252918	80208	DM4	78 02 08	2529	18	29 55 56 N	86 06 29 W
252919	60628	40	76 06 28	2529	19	29 55 42 N	86 06 19 W
252919	60728	40	76 06 28	2529	19	29 55 42 N	86 06 19 W
252919	70823	DM1	77 09 06	2529	19	29 56 00 N	86 06 30 W
252919	70906	DM1	77 09 06	2529	19	29 56 00 N	86 06 30 W
252919	71031	DM2	77 10 30	2529	19	29 55 59 N	86 06 30 W
252919	80208	DM4	78 02 08	2529	19	29 55 56 N	86 06 29 W
252930	60628	40	76 06 28	2529	30	29 55 42 N	86 06 19 W
252930	71031	DM2	77 10 30	2529	30	29 55 59 N	86 06 30 W
252950	70903	DM1	77 09 06	2529	50	29 56 00 N	86 06 30 W
252950	71030	DM2	77 10 30	2529	50	29 55 59 N	86 06 30 W
252950	71031	DM2	77 10 30	2529	50	29 55 59 N	86 06 30 W
252950	71107	DM2	77 11 07	2529	50	29 56 00 N	86 06 28 W
252950	80208	DM4	78 02 08	2529	50	29 55 56 N	86 06 29 W
252950	80212	DM4	78 02 12	2529	50	29 55 59 N	86 06 25 W
252951	71030	DM2	77 10 30	2529	51	29 55 59 N	86 06 30 W
252952	71030	DM2	77 10 30	2529	52	29 56 00 N	86 06 28 W
252953	71030	DM2	77 10 30	2529	53	29 56 00 N	86 06 28 W
252954	71030	DM2	77 10 30	2529	54	29 56 00 N	86 06 28 W
252955	71030	DM2	77 10 30	2529	55	29 55 59 N	86 06 30 W
252955	71031	DM2	77 10 30	2529	55	29 55 59 N	86 06 30 W
252956	71030	DM2	77 10 30	2529	56	29 56 00 N	86 06 28 W
252956	71031	DM2	77 10 30	2529	56	29 56 00 N	86 06 28 W
252957	71030	DM2	77 10 30	2529	57	29 55 59 N	86 06 30 W
252957	71031	DM2	77 10 30	2529	57	29 55 59 N	86 06 30 W
252958	71030	DM2	77 10 30	2529	58	29 55 59 N	86 06 30 W
252958	71031	DM2	77 10 30	2529	58	29 55 59 N	86 06 30 W
252959	71030	DM2	77 10 30	2529	59	29 55 59 N	86 06 30 W
252959	71031	DM2	77 10 30	2529	59	29 55 59 N	86 06 30 W
252960	71031	DM2	77 10 30	2529	60	29 55 59 N	86 06 30 W
252968	71030	DM2	77 10 30	2529	68	29 55 59 N	86 06 30 W
252968	71107	DM2	77 11 07	2529	68	29 56 00 N	86 06 28 W
252969	71030	DM2	77 10 30	2529	69	29 55 59 N	86 06 30 W
252970	71031	DM2	77 10 30	2529	70	29 55 59 N	86 06 30 W
252971	71031	DM2	77 10 30	2529	71	29 55 59 N	86 06 30 W
252972	71031	DM2	77 10 30	2529	72	29 55 59 N	86 06 30 W
252973	71030	DM2	77 10 30	2529	73	29 55 59 N	86 06 30 W
252974	71030	DM2	77 10 30	2529	74	29 55 59 N	86 06 30 W
252975	71030	DM2	77 10 30	2529	75	29 55 59 N	86 06 30 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
252976	71031	DM2	77 10 30	2529	76	29 55 59 N	86 06 30 W
252977	71031	DM2	77 10 30	2529	77	29 55 59 N	86 06 30 W
253001	40628	2	74 06 06	2530	01	29 51 00 N	86 06 29 W
253001	506 4	10	75 06 04	2530	01	29 50 59 N	86 06 31 W
253001	50604	10	75 06 04	2530	01	29 50 59 N	86 06 31 W
253001	50925	21	75 09 25	2530	01	29 50 54 N	86 06 24 W
253001	602 7	29	76 02 07	2530	01	29 50 53 N	86 06 24 W
253001	60207	29	76 02 07	2530	01	29 50 53 N	86 06 24 W
253001	60707	39	76 07 07	2530	01	29 51 00 N	86 06 27 W
253002	40628	2	74 06 06	2530	02	29 51 00 N	86 06 29 W
253002	506 4	10	75 06 04	2530	02	29 50 59 N	86 06 31 W
253002	50604	10	75 06 04	2530	02	29 50 59 N	86 06 31 W
253002	50925	21	75 09 25	2530	02	29 50 54 N	86 06 24 W
253002	602 7	29	76 02 07	2530	02	29 50 53 N	86 06 24 W
253002	60207	29	76 02 07	2530	02	29 50 53 N	86 06 24 W
253002	60703	39	76 07 07	2530	02	29 51 00 N	86 06 27 W
253002	60707	39	76 07 07	2530	02	29 51 00 N	86 06 27 W
253003	506 4	10	75 06 04	2530	03	29 50 59 N	86 06 31 W
253003	50604	10	75 06 04	2530	03	29 50 59 N	86 06 31 W
253003	50925	21	75 09 25	2530	03	29 50 54 N	86 06 24 W
253003	602 7	29	76 02 07	2530	03	29 50 53 N	86 06 24 W
253003	60207	29	76 02 07	2530	03	29 50 53 N	86 06 24 W
253003	60707	39	76 07 07	2530	03	29 51 00 N	86 06 27 W
253004	506 4	10	75 06 04	2530	04	29 50 59 N	86 06 31 W
253004	50604	10	75 06 04	2530	04	29 50 59 N	86 06 31 W
253004	50925	21	75 09 25	2530	04	29 50 54 N	86 06 24 W
253004	602 7	29	76 02 07	2530	04	29 50 53 N	86 06 24 W
253004	60207	29	76 02 07	2530	04	29 50 53 N	86 06 24 W
253004	60707	39	76 07 07	2530	04	29 51 00 N	86 06 27 W
253005	506 4	10	75 06 04	2530	05	29 50 59 N	86 06 31 W
253005	50604	10	75 06 04	2530	05	29 50 59 N	86 06 31 W
253005	50925	21	75 09 25	2530	05	29 50 54 N	86 06 24 W
253005	602 7	29	76 02 07	2530	05	29 50 53 N	86 06 24 W
253005	60207	29	76 02 07	2530	05	29 50 53 N	86 06 24 W
253005	60703	39	76 07 07	2530	05	29 51 00 N	86 06 27 W
253005	60707	39	76 07 07	2530	05	29 51 00 N	86 06 27 W
253006	506 4	10	75 06 04	2530	06	29 50 59 N	86 06 31 W
253006	50604	10	75 06 04	2530	06	29 50 59 N	86 06 31 W
253006	50925	21	75 09 25	2530	06	29 50 54 N	86 06 24 W
253006	602 7	29	76 02 07	2530	06	29 50 53 N	86 06 24 W
253006	60207	29	76 02 07	2530	06	29 50 53 N	86 06 24 W
253006	60707	39	76 07 07	2530	06	29 51 00 N	86 06 27 W
253007	506 4	10	75 06 04	2530	07	29 50 59 N	86 06 31 W
253007	50604	10	75 06 04	2530	07	29 50 59 N	86 06 31 W
253007	50925	21	75 09 25	2530	07	29 50 54 N	86 06 24 W
253007	602 7	29	76 02 07	2530	07	29 50 53 N	86 06 24 W
253007	60207	29	76 02 07	2530	07	29 50 53 N	86 06 24 W
253007	60703	39	76 07 07	2530	07	29 51 00 N	86 06 27 W
253007	60707	39	76 07 07	2530	07	29 51 00 N	86 06 27 W
253008	40618	2	74 06 06	2530	08	29 51 00 N	86 06 29 W
253008	506 4	10	75 06 04	2530	08	29 50 59 N	86 06 31 W
253008	50604	10	75 06 04	2530	08	29 50 59 N	86 06 31 W
253008	50925	21	75 09 25	2530	08	29 50 54 N	86 06 24 W
253008	602 7	29	76 02 07	2530	08	29 50 53 N	86 06 24 W
253008	60207	29	76 02 07	2530	08	29 50 53 N	86 06 24 W
253008	60703	39	76 07 07	2530	08	29 51 00 N	86 06 27 W
253008	60707	39	76 07 07	2530	08	29 51 00 N	86 06 27 W
253009	506 4	10	75 06 04	2530	09	29 50 59 N	86 06 31 W
253009	50604	10	75 06 04	2530	09	29 50 59 N	86 06 31 W
253009	50925	21	75 09 25	2530	09	29 50 54 N	86 06 24 W
253009	602 7	29	76 02 07	2530	09	29 50 53 N	86 06 24 W
253009	60207	29	76 02 07	2530	09	29 50 53 N	86 06 24 W
253009	60707	39	76 07 07	2530	09	29 51 00 N	86 06 27 W
253010	60707	39	76 07 07	2530	10	29 51 00 N	86 06 27 W
253011	50604	10	75 06 04	2530	11	29 50 59 N	86 06 31 W
253011	50925	21	75 09 25	2530	11	29 50 54 N	86 06 24 W
253011	60207	29	76 02 07	2530	11	29 50 53 N	86 06 24 W
253101	506 4	10	75 06 04	2531	01	29 47 59 N	86 09 30 W
253101	50604	10	75 06 04	2531	01	29 47 59 N	86 09 30 W
253101	50925	21	75 09 25	2531	01	29 48 00 N	86 09 30 W
253101	602 7	29	76 02 07	2531	01	29 48 00 N	86 09 30 W
253101	60207	29	76 02 07	2531	01	29 48 00 N	86 09 30 W
253101	60707	39	76 07 07	2531	01	29 48 00 N	86 09 27 W
253101	70907	DM1	77 09 07	2531	01	29 47 58 N	86 09 30 W
253101	71107	DM2	77 11 07	2531	01	29 48 02 N	86 09 23 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
253101	80212	DM4	78 02 12	2531	01	29 47 59 N	86 09 29 W
253102	40616	2	74 06 06	2531	02	29 47 58 N	86 09 30 W
253102	506 4	10	75 06 04	2531	02	29 47 59 N	86 09 30 W
253102	50604	10	75 06 04	2531	02	29 47 59 N	86 09 30 W
253102	50925	21	75 09 25	2531	02	29 48 00 N	86 09 30 W
253102	602 7	29	76 02 07	2531	02	29 48 00 N	86 09 30 W
253102	60207	29	76 02 07	2531	02	29 48 00 N	86 09 30 W
253102	60707	39	76 07 07	2531	02	29 48 00 N	86 09 27 W
253102	70907	DM1	77 09 07	2531	02	29 47 58 N	86 09 30 W
253102	71107	DM2	77 11 07	2531	02	29 48 02 N	86 09 23 W
253102	80212	DM4	78 02 12	2531	02	29 47 59 N	86 09 29 W
253103	506 4	10	75 06 04	2531	03	29 47 59 N	86 09 30 W
253103	50604	10	75 06 04	2531	03	29 47 59 N	86 09 30 W
253103	50925	21	75 09 25	2531	03	29 48 00 N	86 09 30 W
253103	602 7	29	76 02 07	2531	03	29 48 00 N	86 09 30 W
253103	60207	29	76 02 07	2531	03	29 48 00 N	86 09 30 W
253103	60707	39	76 07 07	2531	03	29 48 00 N	86 09 27 W
253103	70907	DM1	77 09 07	2531	03	29 47 58 N	86 09 30 W
253103	71107	DM2	77 11 07	2531	03	29 48 02 N	86 09 23 W
253103	80212	DM4	78 02 12	2531	03	29 47 59 N	86 09 29 W
253104	506 4	10	75 06 04	2531	04	29 47 59 N	86 09 30 W
253104	50604	10	75 06 04	2531	04	29 47 59 N	86 09 30 W
253104	50925	21	75 09 25	2531	04	29 48 00 N	86 09 30 W
253104	602 7	29	76 02 07	2531	04	29 48 00 N	86 09 30 W
253104	60207	29	76 02 07	2531	04	29 48 00 N	86 09 30 W
253104	60707	39	76 07 07	2531	04	29 48 00 N	86 09 27 W
253104	70907	DM1	77 09 07	2531	04	29 47 58 N	86 09 30 W
253104	71107	DM2	77 11 07	2531	04	29 48 02 N	86 09 23 W
253104	80212	DM4	78 02 12	2531	04	29 47 59 N	86 09 29 W
253105	506 4	10	75 06 04	2531	05	29 47 59 N	86 09 30 W
253105	50604	10	75 06 04	2531	05	29 47 59 N	86 09 30 W
253105	50925	21	75 09 25	2531	05	29 48 00 N	86 09 30 W
253105	602 7	29	76 02 07	2531	05	29 48 00 N	86 09 30 W
253105	60207	29	76 02 07	2531	05	29 48 00 N	86 09 30 W
253105	60707	39	76 07 07	2531	05	29 48 00 N	86 09 27 W
253105	70907	DM1	77 09 07	2531	05	29 47 58 N	86 09 30 W
253105	71107	DM2	77 11 07	2531	05	29 48 02 N	86 09 23 W
253105	71109	DM2	77 11 07	2531	05	29 48 02 N	86 09 23 W
253105	80212	DM4	78 02 12	2531	05	29 47 59 N	86 09 29 W
253106	506 4	10	75 06 04	2531	06	29 47 59 N	86 09 30 W
253106	50604	10	75 06 04	2531	06	29 47 59 N	86 09 30 W
253106	50925	21	75 09 25	2531	06	29 48 00 N	86 09 30 W
253106	602 7	29	76 02 07	2531	06	29 48 00 N	86 09 30 W
253106	60207	29	76 02 07	2531	06	29 48 00 N	86 09 30 W
253106	60707	39	76 07 07	2531	06	29 48 00 N	86 09 27 W
253106	70907	DM1	77 09 07	2531	06	29 47 58 N	86 09 30 W
253106	71107	DM2	77 11 07	2531	06	29 48 02 N	86 09 23 W
253106	80212	DM4	78 02 12	2531	06	29 47 59 N	86 09 29 W
253107	506 4	10	75 06 04	2531	07	29 47 59 N	86 09 30 W
253107	50604	10	75 06 04	2531	07	29 47 59 N	86 09 30 W
253107	50925	21	75 09 25	2531	07	29 48 00 N	86 09 30 W
253107	602 7	29	76 02 07	2531	07	29 48 00 N	86 09 30 W
253107	60207	29	76 02 07	2531	07	29 48 00 N	86 09 30 W
253107	60707	39	76 07 07	2531	07	29 48 00 N	86 09 27 W
253107	70907	DM1	77 09 07	2531	07	29 47 58 N	86 09 30 W
253107	71107	DM2	77 11 07	2531	07	29 48 02 N	86 09 23 W
253107	80212	DM4	78 02 12	2531	07	29 47 59 N	86 09 29 W
253108	506 4	10	75 06 04	2531	08	29 47 59 N	86 09 30 W
253108	50604	10	75 06 04	2531	08	29 47 59 N	86 09 30 W
253108	50925	21	75 09 25	2531	08	29 48 00 N	86 09 30 W
253108	602 7	29	76 02 07	2531	08	29 48 00 N	86 09 30 W
253108	60207	29	76 02 07	2531	08	29 48 00 N	86 09 30 W
253108	60707	39	76 07 07	2531	08	29 48 00 N	86 09 27 W
253108	70907	DM1	77 09 07	2531	08	29 47 58 N	86 09 30 W
253108	71107	DM2	77 11 07	2531	08	29 48 02 N	86 09 23 W
253108	71109	DM2	77 11 07	2531	08	29 48 02 N	86 09 23 W
253108	80212	DM4	78 02 12	2531	08	29 47 59 N	86 09 29 W
253109	506 4	10	75 06 04	2531	09	29 47 59 N	86 09 30 W
253109	50604	10	75 06 04	2531	09	29 47 59 N	86 09 30 W
253109	50925	21	75 09 25	2531	09	29 48 00 N	86 09 30 W
253109	602 7	29	76 02 07	2531	09	29 48 00 N	86 09 30 W
253109	60207	29	76 02 07	2531	09	29 48 00 N	86 09 30 W
253109	60707	39	76 07 07	2531	09	29 48 00 N	86 09 27 W
253109	70907	DM1	77 09 07	2531	09	29 47 58 N	86 09 30 W
253109	71107	DM2	77 11 07	2531	09	29 48 02 N	86 09 23 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
253109	71109	DM2	77 11 07	2531	09	29 48 02 N	86 09 23 W
253109	80212	DM4	78 02 12	2531	09	29 47 59 N	86 09 29 W
253110	60707	39	76 07 07	2531	10	29 48 00 N	86 09 27 W
253110	70907	DM1	77 09 07	2531	10	29 47 58 N	86 09 30 W
253110	71107	DM2	77 11 07	2531	10	29 48 02 N	86 09 23 W
253110	80212	DM4	78 02 12	2531	10	29 47 59 N	86 09 29 W
253111	50604	10	75 06 04	2531	11	29 47 59 N	86 09 30 W
253111	50925	21	75 09 25	2531	11	29 48 00 N	86 09 30 W
253111	60207	29	76 02 07	2531	11	29 48 00 N	86 09 30 W
253111	70907	DM1	77 09 07	2531	11	29 47 58 N	86 09 30 W
253111	71107	DM2	77 11 07	2531	11	29 48 02 N	86 09 23 W
253111	71109	DM2	77 11 07	2531	11	29 48 02 N	86 09 23 W
253111	80212	DM4	78 02 12	2531	11	29 47 59 N	86 09 29 W
253112	70907	DM1	77 09 07	2531	12	29 47 58 N	86 09 30 W
253113	70907	DM1	77 09 07	2531	13	29 47 58 N	86 09 30 W
253114	70907	DM1	77 09 07	2531	14	29 47 58 N	86 09 30 W
253115	70907	DM1	77 09 07	2531	15	29 47 58 N	86 09 30 W
253116	70907	DM1	77 09 07	2531	16	29 47 58 N	86 09 30 W
253150	70907	DM1	77 09 07	2531	50	29 47 58 N	86 09 30 W
253150	71107	DM2	77 11 07	2531	50	29 48 02 N	86 09 23 W
253150	80212	DM4	78 02 12	2531	50	29 47 59 N	86 09 29 W
253168	71107	DM2	77 11 07	2531	68	29 48 02 N	86 09 23 W
253173	71107	DM2	77 11 07	2531	73	29 48 02 N	86 09 23 W
253201	40628	2	74 06 06	2532	01	29 45 59 N	86 12 30 W
253201	506 4	10	75 06 04	2532	01	29 45 58 N	86 12 29 W
253201	50604	10	75 06 04	2532	01	29 45 58 N	86 12 29 W
253201	50925	21	75 09 25	2532	01	29 45 54 N	86 12 18 W
253201	602 7	29	76 02 07	2532	01	29 45 53 N	86 12 18 W
253201	60207	29	76 02 07	2532	01	29 45 53 N	86 12 18 W
253201	60707	39	76 07 07	2532	01	29 45 56 N	86 12 17 W
253202	40628	2	74 06 06	2532	02	29 45 59 N	86 12 30 W
253202	506 4	10	75 06 04	2532	02	29 45 58 N	86 12 29 W
253202	50604	10	75 06 04	2532	02	29 45 58 N	86 12 29 W
253202	50925	21	75 09 25	2532	02	29 45 54 N	86 12 18 W
253202	602 7	29	76 02 07	2532	02	29 45 53 N	86 12 18 W
253202	60207	29	76 02 07	2532	02	29 45 53 N	86 12 18 W
253202	60707	39	76 07 07	2532	02	29 45 56 N	86 12 17 W
253203	506 4	10	75 06 04	2532	03	29 45 58 N	86 12 29 W
253203	50604	10	75 06 04	2532	03	29 45 58 N	86 12 29 W
253203	50925	21	75 09 25	2532	03	29 45 54 N	86 12 18 W
253203	602 7	29	76 02 07	2532	03	29 45 53 N	86 12 18 W
253203	60207	29	76 02 07	2532	03	29 45 53 N	86 12 18 W
253203	60707	39	76 07 07	2532	03	29 45 56 N	86 12 17 W
253204	506 4	10	75 06 04	2532	04	29 45 58 N	86 12 29 W
253204	50604	10	75 06 04	2532	04	29 45 58 N	86 12 29 W
253204	50925	21	75 09 25	2532	04	29 45 54 N	86 12 18 W
253204	602 7	29	76 02 07	2532	04	29 45 53 N	86 12 18 W
253204	60207	29	76 02 07	2532	04	29 45 53 N	86 12 18 W
253204	60707	39	76 07 07	2532	04	29 45 56 N	86 12 17 W
253205	506 4	10	75 06 04	2532	05	29 45 58 N	86 12 29 W
253205	50604	10	75 06 04	2532	05	29 45 58 N	86 12 29 W
253205	50925	21	75 09 25	2532	05	29 45 54 N	86 12 18 W
253205	602 7	29	76 02 07	2532	05	29 45 53 N	86 12 18 W
253205	60207	29	76 02 07	2532	05	29 45 53 N	86 12 18 W
253205	60707	39	76 07 07	2532	05	29 45 56 N	86 12 17 W
253206	506 4	10	75 06 04	2532	06	29 45 58 N	86 12 29 W
253206	50604	10	75 06 04	2532	06	29 45 58 N	86 12 29 W
253206	50925	21	75 09 25	2532	06	29 45 54 N	86 12 18 W
253206	602 7	29	76 02 07	2532	06	29 45 53 N	86 12 18 W
253206	60207	29	76 02 07	2532	06	29 45 53 N	86 12 18 W
253206	60707	39	76 07 07	2532	06	29 45 56 N	86 12 17 W
253207	0707	39	76 07 07	2532	07	29 45 56 N	86 12 17 W
253207	506 4	10	75 06 04	2532	07	29 45 58 N	86 12 29 W
253207	50604	10	75 06 04	2532	07	29 45 58 N	86 12 29 W
253207	50925	21	75 09 25	2532	07	29 45 54 N	86 12 18 W
253207	602 7	29	76 02 07	2532	07	29 45 53 N	86 12 18 W
253207	60207	29	76 02 07	2532	07	29 45 53 N	86 12 18 W
253207	60707	39	76 07 07	2532	07	29 45 56 N	86 12 17 W
253208	0707	39	76 07 07	2532	08	29 45 56 N	86 12 17 W
253208	40616	2	74 06 06	2532	08	29 45 59 N	86 12 30 W
253208	506 4	10	75 06 04	2532	08	29 45 58 N	86 12 29 W
253208	50604	10	75 06 04	2532	08	29 45 58 N	86 12 29 W
253208	50925	21	75 09 25	2532	08	29 45 54 N	86 12 18 W
253208	602 7	29	76 02 07	2532	08	29 45 53 N	86 12 18 W
253208	60207	29	76 02 07	2532	08	29 45 53 N	86 12 18 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
253208	60707	39	76 07 07	2532	08	29 45 56 N	86 12 17 W
253209	506 4	10	75 06 04	2532	09	29 45 58 N	86 12 29 W
253209	50604	10	75 06 04	2532	09	29 45 58 N	86 12 29 W
253209	50925	21	75 09 25	2532	09	29 45 54 N	86 12 18 W
253209	602 7	29	76 02 07	2532	09	29 45 53 N	86 12 18 W
253209	60207	29	76 02 07	2532	09	29 45 53 N	86 12 18 W
253209	60707	39	76 07 07	2532	09	29 45 56 N	86 12 17 W
253210	60707	39	76 07 07	2532	10	29 45 56 N	86 12 17 W
253211	50604	10	75 06 04	2532	11	29 45 58 N	86 12 29 W
253211	50925	21	75 09 25	2532	11	29 45 54 N	86 12 18 W
253211	60207	29	76 02 07	2532	11	29 45 53 N	86 12 18 W
253301	40628	2	74 06 06	2533	01	29 42 59 N	86 15 30 W
253301	506 5	10	75 06 04	2533	01	29 42 59 N	86 15 30 W
253301	50605	10	75 06 04	2533	01	29 42 59 N	86 15 30 W
253301	50926	21	75 09 25	2533	01	29 42 54 N	86 15 30 W
253301	602 7	29	76 02 07	2533	01	29 42 53 N	86 15 30 W
253301	602 8	29	76 02 07	2533	01	29 42 53 N	86 15 30 W
253301	60207	29	76 02 07	2533	01	29 42 53 N	86 15 30 W
253301	60208	29	76 02 07	2533	01	29 42 53 N	86 15 30 W
253301	60707	39	76 07 07	2533	01	29 43 00 N	86 15 28 W
253301	70907	DM1	77 09 07	2533	01	29 43 00 N	86 15 26 W
253301	71107	DM2	77 11 07	2533	01	29 43 00 N	86 15 28 W
253301	80211	DM4	78 02 11	2533	01	29 42 59 N	86 15 27 W
253302	40628	2	74 06 06	2533	02	29 42 59 N	86 15 30 W
253302	506 5	10	75 06 04	2533	02	29 42 59 N	86 15 30 W
253302	50605	10	75 06 04	2533	02	29 42 59 N	86 15 30 W
253302	50926	21	75 09 25	2533	02	29 42 54 N	86 15 30 W
253302	602 7	29	76 02 07	2533	02	29 42 53 N	86 15 30 W
253302	602 8	29	76 02 07	2533	02	29 42 53 N	86 15 30 W
253302	60207	29	76 02 07	2533	02	29 42 53 N	86 15 30 W
253302	60208	29	76 02 07	2533	02	29 42 53 N	86 15 30 W
253302	60707	39	76 07 07	2533	02	29 43 00 N	86 15 28 W
253302	70907	DM1	77 09 07	2533	02	29 43 00 N	86 15 26 W
253303	506 5	10	75 06 04	2533	03	29 42 59 N	86 15 30 W
253303	50605	10	75 06 04	2533	03	29 42 59 N	86 15 30 W
253303	50926	21	75 09 25	2533	03	29 42 54 N	86 15 30 W
253303	602 7	29	76 02 07	2533	03	29 42 53 N	86 15 30 W
253303	602 8	29	76 02 07	2533	03	29 42 53 N	86 15 30 W
253303	60207	29	76 02 07	2533	03	29 42 53 N	86 15 30 W
253303	60208	29	76 02 07	2533	03	29 42 53 N	86 15 30 W
253303	60707	39	76 07 07	2533	03	29 43 00 N	86 15 28 W
253303	70907	DM1	77 09 07	2533	03	29 43 00 N	86 15 26 W
253304	506 5	10	75 06 04	2533	04	29 42 59 N	86 15 30 W
253304	50605	10	75 06 04	2533	04	29 42 59 N	86 15 30 W
253304	50926	21	75 09 25	2533	04	29 42 54 N	86 15 30 W
253304	602 7	29	76 02 07	2533	04	29 42 53 N	86 15 30 W
253304	602 8	29	76 02 07	2533	04	29 42 53 N	86 15 30 W
253304	60207	29	76 02 07	2533	04	29 42 53 N	86 15 30 W
253304	60208	29	76 02 07	2533	04	29 42 53 N	86 15 30 W
253304	60707	39	76 07 07	2533	04	29 43 00 N	86 15 28 W
253304	70907	DM1	77 09 07	2533	04	29 43 00 N	86 15 26 W
253305	506 5	10	75 06 04	2533	05	29 42 59 N	86 15 30 W
253305	50605	10	75 06 04	2533	05	29 42 59 N	86 15 30 W
253305	50926	21	75 09 25	2533	05	29 42 54 N	86 15 30 W
253305	602 7	29	76 02 07	2533	05	29 42 53 N	86 15 30 W
253305	602 8	29	76 02 07	2533	05	29 42 53 N	86 15 30 W
253305	60207	29	76 02 07	2533	05	29 42 53 N	86 15 30 W
253305	60208	29	76 02 07	2533	05	29 42 53 N	86 15 30 W
253305	60707	39	76 07 07	2533	05	29 43 00 N	86 15 28 W
253305	70907	DM1	77 09 07	2533	05	29 43 00 N	86 15 26 W
253306	506 5	10	75 06 04	2533	06	29 42 59 N	86 15 30 W
253306	50605	10	75 06 04	2533	06	29 42 59 N	86 15 30 W
253306	50926	21	75 09 25	2533	06	29 42 54 N	86 15 30 W
253306	602 7	29	76 02 07	2533	06	29 42 53 N	86 15 30 W
253306	602 8	29	76 02 07	2533	06	29 42 53 N	86 15 30 W
253306	60207	29	76 02 07	2533	06	29 42 53 N	86 15 30 W
253306	60208	29	76 02 07	2533	06	29 42 53 N	86 15 30 W
253306	60707	39	76 07 07	2533	06	29 43 00 N	86 15 28 W
253306	70907	DM1	77 09 07	2533	06	29 43 00 N	86 15 26 W
253307	506 5	10	75 06 04	2533	07	29 42 59 N	86 15 30 W
253307	50605	10	75 06 04	2533	07	29 42 59 N	86 15 30 W
253307	50926	21	75 09 25	2533	07	29 42 54 N	86 15 30 W
253307	602 7	29	76 02 07	2533	07	29 42 53 N	86 15 30 W
253307	602 8	29	76 02 07	2533	07	29 42 53 N	86 15 30 W
253307	60207	29	76 02 07	2533	07	29 42 53 N	86 15 30 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
253307	60208	29	76 02 07	2533	07	29 42 53 N	86 15 30 W
253307	60707	39	76 07 07	2533	07	29 43 00 N	86 15 28 W
253308	40616	2	74 06 06	2533	08	29 42 59 N	86 15 30 W
253308	506 5	10	75 06 04	2533	08	29 42 59 N	86 15 30 W
253308	50605	10	75 06 04	2533	08	29 42 59 N	86 15 30 W
253308	50926	21	75 09 25	2533	08	29 42 54 N	86 15 30 W
253308	602 7	29	76 02 07	2533	08	29 42 53 N	86 15 30 W
253308	602 8	29	76 02 07	2533	08	29 42 53 N	86 15 30 W
253308	60207	29	76 02 07	2533	08	29 42 53 N	86 15 30 W
253308	60208	29	76 02 07	2533	08	29 42 53 N	86 15 30 W
253308	60707	39	76 07 07	2533	08	29 43 00 N	86 15 28 W
253309	506 5	10	75 06 04	2533	09	29 42 59 N	86 15 30 W
253309	50605	10	75 06 04	2533	09	29 42 59 N	86 15 30 W
253309	50926	21	75 09 25	2533	09	29 42 54 N	86 15 30 W
253309	602 7	29	76 02 07	2533	09	29 42 53 N	86 15 30 W
253309	602 8	29	76 02 07	2533	09	29 42 53 N	86 15 30 W
253309	60207	29	76 02 07	2533	09	29 42 53 N	86 15 30 W
253309	60208	29	76 02 07	2533	09	29 42 53 N	86 15 30 W
253309	60707	39	76 07 07	2533	09	29 43 00 N	86 15 28 W
253310	60707	39	76 07 07	2533	10	29 43 00 N	86 15 28 W
253311	50605	10	75 06 04	2533	11	29 42 59 N	86 15 30 W
253311	50926	21	75 09 25	2533	11	29 42 54 N	86 15 30 W
253311	60207	29	76 02 07	2533	11	29 42 53 N	86 15 30 W
253311	60208	29	76 02 07	2533	11	29 42 53 N	86 15 30 W
253350	70907	DM1	77 09 07	2533	50	29 43 00 N	86 15 26 W
253350	71107	DM2	77 11 07	2533	50	29 43 00 N	86 15 28 W
253350	80211	DM4	78 02 11	2533	50	29 42 59 N	86 15 27 W
253368	71107	DM2	77 11 07	2533	68	29 43 00 N	86 15 28 W
253401	506 5	10	75 06 05	0007	01	29 39 58 N	86 17 00 W
253401	50605	10	75 06 05	0007	01	29 39 58 N	86 17 00 W
253401	50926	21	75 09 26	0007	01	29 40 00 N	86 17 00 W
253401	60707	39	76 07 07	0007	01	29 39 57 N	86 16 57 W
253402	506 5	10	75 06 05	0007	02	29 39 58 N	86 17 00 W
253402	50926	21	75 09 26	0007	02	29 40 00 N	86 17 00 W
253402	60707	39	76 07 07	0007	02	29 39 57 N	86 16 57 W
253403	506 5	10	75 06 05	0007	03	29 39 58 N	86 17 00 W
253403	50926	21	75 09 26	0007	03	29 40 00 N	86 17 00 W
253403	60707	39	76 07 07	0007	03	29 39 57 N	86 16 57 W
253404	506 5	10	75 06 05	0007	04	29 39 58 N	86 17 00 W
253404	50926	21	75 09 26	0007	04	29 40 00 N	86 17 00 W
253404	60707	39	76 07 07	0007	04	29 39 57 N	86 16 57 W
253405	506 5	10	75 06 05	0007	05	29 39 58 N	86 17 00 W
253405	50926	21	75 09 26	0007	05	29 40 00 N	86 17 00 W
253405	60707	39	76 07 07	0007	05	29 39 57 N	86 16 57 W
253406	506 5	10	75 06 05	0007	06	29 39 58 N	86 17 00 W
253406	50926	21	75 09 26	0007	06	29 40 00 N	86 17 00 W
253406	60707	39	76 07 07	0007	06	29 39 57 N	86 16 57 W
253407	506 5	10	75 06 05	0007	07	29 39 58 N	86 17 00 W
253407	50926	21	75 09 26	0007	07	29 40 00 N	86 17 00 W
253407	60707	39	76 07 07	0007	07	29 39 57 N	86 16 57 W
253408	506 5	10	75 06 05	0007	08	29 39 58 N	86 17 00 W
253408	50926	21	75 09 26	0007	08	29 40 00 N	86 17 00 W
253408	60707	39	76 07 07	0007	08	29 39 57 N	86 16 57 W
253409	506 5	10	75 06 05	0007	09	29 39 58 N	86 17 00 W
253409	50926	21	75 09 26	0007	09	29 40 00 N	86 17 00 W
253409	60707	39	76 07 07	0007	09	29 39 57 N	86 16 57 W
253410	60707	39	76 07 07	0007	10	29 39 57 N	86 16 57 W
253411	50605	10	75 06 05	0007	11	29 39 58 N	86 17 00 W
253411	50926	21	75 09 26	0007	11	29 40 00 N	86 17 00 W
253417	71031	DM2	77 10 31	2534	17	29 40 06 N	86 15 49 W
253430	71031	DM2	77 10 31	2534	30	29 40 06 N	86 15 49 W
253431	71031	DM2	77 10 31	2534	31	29 40 06 N	86 15 49 W
253431	71077	DM2	77 10 31	2534	31	29 40 06 N	86 15 49 W
253450	71031	DM2	77 10 31	2534	50	29 40 06 N	86 15 49 W
253468	71031	DM2	77 10 31	2534	68	29 40 06 N	86 15 49 W
253501	506 5	10	75 06 05	2535	01	29 36 58 N	86 20 01 W
253501	50605	10	75 06 05	2535	01	29 36 58 N	86 20 01 W
253501	50926	21	75 09 26	2535	01	29 37 00 N	86 20 00 W
253501	602 8	29	76 02 08	2535	01	29 36 59 N	86 19 57 W
253501	60208	29	76 02 08	2535	01	29 36 59 N	86 19 57 W
253501	60708	39	76 07 08	2535	01	29 37 04 N	86 20 03 W
253501	70907	DM1	77 09 07	2535	01	29 37 02 N	86 20 02 W
253501	71107	DM2	77 11 07	2535	01	29 37 00 N	86 20 00 W
253501	80211	DM4	78 02 11	2535	01	29 36 55 N	86 19 56 W
253502	506 5	10	75 06 05	2535	02	29 36 58 N	86 20 01 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
253502	50605	10	75 06 05	2535	02	29 36 58 N	86 20 01 W
253502	50926	21	75 09 26	2535	02	29 37 00 N	86 20 00 W
253502	602 8	29	76 02 08	2535	02	29 36 59 N	86 19 57 W
253502	60208	29	76 02 08	2535	02	29 36 59 N	86 19 57 W
253502	60707	39	76 07 08	2535	02	29 37 04 N	86 20 03 W
253502	60708	39	76 07 08	2535	02	29 37 04 N	86 20 03 W
253502	80211	DM4	78 02 11	2535	02	29 36 55 N	86 19 56 W
253503	506 5	10	75 06 05	2535	03	29 36 58 N	86 20 01 W
253503	50605	10	75 06 05	2535	03	29 36 58 N	86 20 01 W
253503	50926	21	75 09 26	2535	03	29 37 00 N	86 20 00 W
253503	602 8	29	76 02 08	2535	03	29 36 59 N	86 19 57 W
253503	60208	29	76 02 08	2535	03	29 36 59 N	86 19 57 W
253503	60707	39	76 07 08	2535	03	29 37 04 N	86 20 03 W
253503	60708	39	76 07 08	2535	03	29 37 04 N	86 20 03 W
253503	80211	DM4	78 02 11	2535	03	29 36 55 N	86 19 56 W
253504	506 5	10	75 06 05	2535	04	29 36 58 N	86 20 01 W
253504	50605	10	75 06 05	2535	04	29 36 58 N	86 20 01 W
253504	50926	21	75 09 26	2535	04	29 37 00 N	86 20 00 W
253504	602 8	29	76 02 08	2535	04	29 36 59 N	86 19 57 W
253504	60208	29	76 02 08	2535	04	29 36 59 N	86 19 57 W
253504	60707	39	76 07 08	2535	04	29 37 04 N	86 20 03 W
253504	60708	39	76 07 08	2535	04	29 37 04 N	86 20 03 W
253504	80211	DM4	78 02 11	2535	04	29 36 55 N	86 19 56 W
253505	506 5	10	75 06 05	2535	05	29 36 58 N	86 20 01 W
253505	50605	10	75 06 05	2535	05	29 36 58 N	86 20 01 W
253505	50926	21	75 09 26	2535	05	29 37 00 N	86 20 00 W
253505	602 8	29	76 02 08	2535	05	29 36 59 N	86 19 57 W
253505	60208	29	76 02 08	2535	05	29 36 59 N	86 19 57 W
253505	60707	39	76 07 08	2535	05	29 37 04 N	86 20 03 W
253505	60708	39	76 07 08	2535	05	29 37 04 N	86 20 03 W
253505	80211	DM4	78 02 11	2535	05	29 36 55 N	86 19 56 W
253506	506 5	10	75 06 05	2535	06	29 36 58 N	86 20 01 W
253506	50605	10	75 06 05	2535	06	29 36 58 N	86 20 01 W
253506	50926	21	75 09 26	2535	06	29 37 00 N	86 20 00 W
253506	602 8	29	76 02 08	2535	06	29 36 59 N	86 19 57 W
253506	60208	29	76 02 08	2535	06	29 36 59 N	86 19 57 W
253506	60707	39	76 07 08	2535	06	29 37 04 N	86 20 03 W
253506	60708	39	76 07 08	2535	06	29 37 04 N	86 20 03 W
253506	80211	DM4	78 02 11	2535	06	29 36 55 N	86 19 56 W
253507	506 5	10	75 06 05	2535	07	29 36 58 N	86 20 01 W
253507	50605	10	75 06 05	2535	07	29 36 58 N	86 20 01 W
253507	50926	21	75 09 26	2535	07	29 37 00 N	86 20 00 W
253507	602 8	29	76 02 08	2535	07	29 36 59 N	86 19 57 W
253507	60208	29	76 02 08	2535	07	29 36 59 N	86 19 57 W
253507	60707	39	76 07 08	2535	07	29 37 04 N	86 20 03 W
253507	60708	39	76 07 08	2535	07	29 37 04 N	86 20 03 W
253508	506 5	10	75 06 05	2535	08	29 36 58 N	86 20 01 W
253508	50605	10	75 06 05	2535	08	29 36 58 N	86 20 01 W
253508	50926	21	75 09 26	2535	08	29 37 00 N	86 20 00 W
253508	602 8	29	76 02 08	2535	08	29 36 59 N	86 19 57 W
253508	60208	29	76 02 08	2535	08	29 36 59 N	86 19 57 W
253508	60707	39	76 07 08	2535	08	29 37 04 N	86 20 03 W
253508	60708	39	76 07 08	2535	08	29 37 04 N	86 20 03 W
253509	506 5	10	75 06 05	2535	09	29 36 58 N	86 20 01 W
253509	50605	10	75 06 05	2535	09	29 36 58 N	86 20 01 W
253509	50926	21	75 09 26	2535	09	29 37 00 N	86 20 00 W
253509	602 8	29	76 02 08	2535	09	29 36 59 N	86 19 57 W
253509	60208	29	76 02 08	2535	09	29 36 59 N	86 19 57 W
253509	60707	39	76 07 08	2535	09	29 37 04 N	86 20 03 W
253509	60708	39	76 07 08	2535	09	29 37 04 N	86 20 03 W
253510	60707	39	76 07 08	2535	10	29 37 04 N	86 20 03 W
253510	60708	39	76 07 08	2535	10	29 37 04 N	86 20 03 W
253511	50605	10	75 06 05	2535	11	29 36 58 N	86 20 01 W
253511	50926	21	75 09 26	2535	11	29 37 00 N	86 20 00 W
253511	60208	29	76 02 08	2535	11	29 36 59 N	86 19 57 W
253550	70907	DM1	77 09 07	2535	50	29 37 02 N	86 20 02 W
253550	71107	DM2	77 11 07	2535	50	29 37 00 N	86 20 00 W
253550	80211	DM4	78 02 11	2535	50	29 36 55 N	86 19 56 W
253568	71107	DM2	77 11 07	2535	68	29 37 00 N	86 20 00 W
253600	50720	13	75 07 20	2536	00	29 30 00 N	86 24 00 W
253600	51019	22	75 10 19	2536	00	29 28 12 N	86 19 30 W
253601	506 5	10	75 06 05	2536	01	29 30 01 N	86 25 02 W
253601	50605	10	75 06 05	2536	01	29 30 01 N	86 25 02 W
253601	50926	21	75 09 26	2536	01	29 30 01 N	86 24 59 W
253601	602 8	29	76 02 08	2536	01	30 18 21 N	86 11 59 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
253601	60208	29	76 02 08	2536	01	30 18 21 N	86 11 59 W
253601	60708	39	76 07 08	2536	01	29 29 59 N	86 25 00 W
253601	70907	DM1	77 09 07	2536	01	29 30 04 N	86 25 04 W
253601	71107	DM2	77 11 07	2536	01	29 30 04 N	86 24 53 W
253601	80211	DM4	78 02 11	2536	01	29 30 00 N	86 24 53 W
253602	506 5	10	75 06 05	2536	02	29 30 01 N	86 25 02 W
253602	50605	10	75 06 05	2536	02	29 30 01 N	86 25 02 W
253602	50926	21	75 09 26	2536	02	29 30 01 N	86 24 59 W
253602	602 8	29	76 02 08	2536	02	30 18 21 N	86 11 59 W
253602	60208	29	76 02 08	2536	02	30 18 21 N	86 11 59 W
253602	60706	39	76 07 08	2536	02	29 29 59 N	86 25 00 W
253602	60708	39	76 07 08	2536	02	29 29 59 N	86 25 00 W
253602	70907	DM1	77 09 07	2536	02	29 30 04 N	86 25 04 W
253602	71106	DM2	77 11 07	2536	02	29 30 04 N	86 24 53 W
253602	71107	DM2	77 11 07	2536	02	29 30 04 N	86 24 53 W
253602	80211	DM4	78 02 11	2536	02	29 30 00 N	86 24 53 W
253603	506 5	10	75 06 05	2536	03	29 30 01 N	86 25 02 W
253603	50605	10	75 06 05	2536	03	29 30 01 N	86 25 02 W
253603	50926	21	75 09 26	2536	03	29 30 01 N	86 24 59 W
253603	602 8	29	76 02 08	2536	03	30 18 21 N	86 11 59 W
253603	60208	29	76 02 08	2536	03	30 18 21 N	86 11 59 W
253603	60706	39	76 07 08	2536	03	29 29 59 N	86 25 00 W
253603	60708	39	76 07 08	2536	03	29 29 59 N	86 25 00 W
253603	70907	DM1	77 09 07	2536	03	29 30 04 N	86 25 04 W
253603	71107	DM2	77 11 07	2536	03	29 30 04 N	86 24 53 W
253603	80211	DM4	78 02 11	2536	03	29 30 00 N	86 24 53 W
253604	506 5	10	75 06 05	2536	04	29 30 01 N	86 25 02 W
253604	50605	10	75 06 05	2536	04	29 30 01 N	86 25 02 W
253604	50926	21	75 09 26	2536	04	29 30 01 N	86 24 59 W
253604	602 8	29	76 02 08	2536	04	30 18 21 N	86 11 59 W
253604	60208	29	76 02 08	2536	04	30 18 21 N	86 11 59 W
253604	60706	39	76 07 08	2536	04	29 29 59 N	86 25 00 W
253604	60708	39	76 07 08	2536	04	29 29 59 N	86 25 00 W
253604	70907	DM1	77 09 07	2536	04	29 30 04 N	86 25 04 W
253604	71107	DM2	77 11 07	2536	04	29 30 04 N	86 24 53 W
253604	80211	DM4	78 02 11	2536	04	29 30 00 N	86 24 53 W
253605	506 5	10	75 06 05	2536	05	29 30 01 N	86 25 02 W
253605	50605	10	75 06 05	2536	05	29 30 01 N	86 25 02 W
253605	50926	21	75 09 26	2536	05	29 30 01 N	86 24 59 W
253605	602 8	29	76 02 08	2536	05	30 18 21 N	86 11 59 W
253605	60208	29	76 02 08	2536	05	30 18 21 N	86 11 59 W
253605	60706	39	76 07 08	2536	05	29 29 59 N	86 25 00 W
253605	60708	39	76 07 08	2536	05	29 29 59 N	86 25 00 W
253605	70907	DM1	77 09 07	2536	05	29 30 04 N	86 25 04 W
253605	71107	DM2	77 11 07	2536	05	29 30 04 N	86 24 53 W
253605	80211	DM4	78 02 11	2536	05	29 30 00 N	86 24 53 W
253606	506 5	10	75 06 05	2536	06	29 30 01 N	86 25 02 W
253606	50605	10	75 06 05	2536	06	29 30 01 N	86 25 02 W
253606	50926	21	75 09 26	2536	06	29 30 01 N	86 24 59 W
253606	602 8	29	76 02 08	2536	06	30 18 21 N	86 11 59 W
253606	60208	29	76 02 08	2536	06	30 18 21 N	86 11 59 W
253606	60706	39	76 07 08	2536	06	29 29 59 N	86 25 00 W
253606	60708	39	76 07 08	2536	06	29 29 59 N	86 25 00 W
253606	70907	DM1	77 09 07	2536	06	29 30 04 N	86 25 04 W
253606	71107	DM2	77 11 07	2536	06	29 30 04 N	86 24 53 W
253606	80211	DM4	78 02 11	2536	06	29 30 00 N	86 24 53 W
253607	506 5	10	75 06 05	2536	07	29 30 01 N	86 25 02 W
253607	50605	10	75 06 05	2536	07	29 30 01 N	86 25 02 W
253607	50926	21	75 09 26	2536	07	29 30 01 N	86 24 59 W
253607	602 8	29	76 02 08	2536	07	30 18 21 N	86 11 59 W
253607	60208	29	76 02 08	2536	07	30 18 21 N	86 11 59 W
253607	60706	39	76 07 08	2536	07	29 29 59 N	86 25 00 W
253607	60708	39	76 07 08	2536	07	29 29 59 N	86 25 00 W
253607	70907	DM1	77 09 07	2536	07	29 30 04 N	86 25 04 W
253607	71107	DM2	77 11 07	2536	07	29 30 04 N	86 24 53 W
253607	80211	DM4	78 02 11	2536	07	29 30 00 N	86 24 53 W
253608	506 5	10	75 06 05	2536	08	29 30 01 N	86 25 02 W
253608	50605	10	75 06 05	2536	08	29 30 01 N	86 25 02 W
253608	50926	21	75 09 26	2536	08	29 30 01 N	86 24 59 W
253608	602 8	29	76 02 08	2536	08	30 18 21 N	86 11 59 W
253608	60208	29	76 02 08	2536	08	30 18 21 N	86 11 59 W
253608	60706	39	76 07 08	2536	08	29 29 59 N	86 25 00 W
253608	60708	39	76 07 08	2536	08	29 29 59 N	86 25 00 W
253608	70907	DM1	77 09 07	2536	08	29 30 04 N	86 25 04 W
253608	71107	DM2	77 11 07	2536	08	29 30 04 N	86 24 53 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
253608	80211	DM4	78 02 11	2536 08	29 30 00 N	86 24 53 W
253609	506 5	10	75 06 05	2536 09	29 30 01 N	86 25 02 W
253609	50605	10	75 06 05	2536 09	29 30 01 N	86 25 02 W
253609	50926	21	75 09 26	2536 09	29 30 01 N	86 24 59 W
253609	602 8	29	76 02 08	2536 09	30 18 21 N	86 11 59 W
253609	60208	29	76 02 08	2536 09	30 18 21 N	86 11 59 W
253609	60706	39	76 07 08	2536 09	29 29 59 N	86 25 00 W
253609	60708	39	76 07 08	2536 09	29 29 59 N	86 25 00 W
253609	70907	DM1	77 09 07	2536 09	29 30 04 N	86 25 04 W
253609	71107	DM2	77 11 07	2536 09	29 30 04 N	86 24 53 W
253609	80211	DM4	78 02 11	2536 09	29 30 00 N	86 24 53 W
253610	60706	39	76 07 08	2536 10	29 29 59 N	86 25 00 W
253610	60708	39	76 07 08	2536 10	29 29 59 N	86 25 00 W
253610	70907	DM1	77 09 07	2536 10	29 30 04 N	86 25 04 W
253610	71107	DM2	77 11 07	2536 10	29 30 04 N	86 24 53 W
253610	80211	DM4	78 02 11	2536 10	29 30 00 N	86 24 53 W
253611	50605	10	75 06 05	2536 11	29 30 01 N	86 25 02 W
253611	50926	21	75 09 26	2536 11	29 30 01 N	86 24 59 W
253611	60208	29	76 02 08	2536 11	30 18 21 N	86 11 59 W
253611	70907	DM1	77 09 07	2536 11	29 30 04 N	86 25 04 W
253611	71107	DM2	77 11 07	2536 11	29 30 04 N	86 24 53 W
253611	80211	DM4	78 02 11	2536 11	29 30 00 N	86 24 53 W
253612	80211	DM4	78 02 11	2536 12	29 30 00 N	86 24 53 W
253613	80211	DM4	78 02 11	2536 13	29 30 00 N	86 24 53 W
253614	80211	DM4	78 02 11	2536 14	29 30 00 N	86 24 53 W
253615	80211	DM4	78 02 11	2536 15	29 30 00 N	86 24 53 W
253616	80211	DM4	78 02 11	2536 16	29 30 00 N	86 24 53 W
253617	50601	13	75 07 20	2536 17	29 30 00 N	86 24 00 W
253617	50720	13	75 07 20	2536 17	29 30 00 N	86 24 00 W
253617	51001	22	75 10 19	2536 17	29 28 12 N	86 19 30 W
253617	51019	22	75 10 19	2536 17	29 28 12 N	86 19 30 W
253617	60201	30	76 02 09	2536 17	29 28 48 N	86 24 00 W
253617	60209	30	76 02 09	2536 17	29 28 48 N	86 24 00 W
253617	60627	40	76 06 28	2536 17	29 29 42 N	86 25 03 W
253617	60628	40	76 06 28	2536 17	29 29 42 N	86 25 03 W
253617	60728	40	76 06 28	2536 17	29 29 42 N	86 25 03 W
253617	70907	DM1	77 09 07	2536 17	29 30 04 N	86 25 04 W
253617	70908	DM1	77 09 07	2536 17	29 30 04 N	86 25 04 W
253617	71001	DM2	77 10 31	2536 17	29 30 04 N	86 25 09 W
253617	71030	DM2	77 10 31	2536 17	29 30 04 N	86 25 09 W
253617	71031	DM2	77 10 31	2536 17	29 30 04 N	86 25 09 W
253617	71101	DM2	77 10 31	2536 17	29 30 04 N	86 25 09 W
253617	80207	DM4	78 02 07	2536 17	29 30 04 N	86 25 02 W
253618	60128	30	76 02 09	2536 18	29 28 48 N	86 24 00 W
253618	60628	40	76 06 28	2536 18	29 29 42 N	86 25 03 W
253618	70907	DM1	77 09 07	2536 18	29 30 04 N	86 25 04 W
253630	60628	40	76 06 28	2536 30	29 29 42 N	86 25 03 W
253630	71020	DM2	77 10 31	2536 30	29 30 04 N	86 25 09 W
253630	71101	DM2	77 10 31	2536 30	29 30 04 N	86 25 09 W
253631	80207	DM4	78 02 07	2536 31	29 30 04 N	86 25 02 W
253650	70907	DM1	77 09 07	2536 50	29 30 04 N	86 25 04 W
253650	71031	DM2	77 10 31	2536 50	29 30 04 N	86 25 09 W
253650	71107	DM2	77 11 07	2536 50	29 30 04 N	86 24 53 W
253650	80207	DM4	78 02 07	2536 50	29 30 04 N	86 25 02 W
253650	80211	DM4	78 02 11	2536 50	29 30 00 N	86 24 53 W
253668	71031	DM2	77 10 31	2536 68	29 30 04 N	86 25 09 W
253668	71107	DM2	77 11 07	2536 68	29 30 04 N	86 24 53 W
253673	71107	DM2	77 11 07	2536 73	29 30 04 N	86 24 53 W
253918	71031	DM2	77 10 30	2529 18	29 55 59 N	86 06 30 W
255210	60707	39	76 07 07	2532 10	29 45 56 N	86 12 17 W
263701	506 1	10	75 06 01	2637 01	30 02 02 N	88 37 03 W
263701	50601	10	75 06 01	2637 01	30 02 02 N	88 37 03 W
263701	50928	21	75 09 28	2637 01	30 02 00 N	88 37 00 W
263701	60116	29	76 01 16	2637 01	30 01 57 N	88 36 58 W
263701	60709	39	76 07 09	2637 01	30 01 59 N	88 56 59 W
263702	506 1	10	75 06 01	2637 02	30 02 02 N	88 37 03 W
263702	50601	10	75 06 01	2637 02	30 02 02 N	88 37 03 W
263702	50928	21	75 09 28	2637 02	30 02 00 N	88 37 00 W
263702	60116	29	76 01 16	2637 02	30 01 57 N	88 36 58 W
263702	60709	39	76 07 09	2637 02	30 01 59 N	88 56 59 W
263703	506 1	10	75 06 01	2637 03	30 02 02 N	88 37 03 W
263703	50601	10	75 06 01	2637 03	30 02 02 N	88 37 03 W
263703	50928	21	75 09 28	2637 03	30 02 00 N	88 37 00 W
263703	60116	29	76 01 16	2637 03	30 01 57 N	88 36 58 W
263703	60709	39	76 07 09	2637 03	30 01 59 N	88 56 59 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
263704	506 1	10	75 06 01	2637	04	30 02 02 N	88 37 03 W
263704	50601	10	75 06 01	2637	04	30 02 02 N	88 37 03 W
263704	50928	21	75 09 28	2637	04	30 02 00 N	88 37 00 W
263704	60116	29	76 01 16	2637	04	30 01 57 N	88 36 58 W
263704	60709	39	76 07 09	2637	04	30 01 59 N	88 56 59 W
263705	506 1	10	75 06 01	2637	05	30 02 02 N	88 37 03 W
263705	50601	10	75 06 01	2637	05	30 02 02 N	88 37 03 W
263705	50928	21	75 09 28	2637	05	30 02 00 N	88 37 00 W
263705	60116	29	76 01 16	2637	05	30 01 57 N	88 36 58 W
263705	60709	39	76 07 09	2637	05	30 01 59 N	88 56 59 W
263706	506 1	10	75 06 01	2637	06	30 02 02 N	88 37 03 W
263706	50601	10	75 06 01	2637	06	30 02 02 N	88 37 03 W
263706	50928	21	75 09 28	2637	06	30 02 00 N	88 37 00 W
263706	60116	29	76 01 16	2637	06	30 01 57 N	88 36 58 W
263706	60709	39	76 07 09	2637	06	30 01 59 N	88 56 59 W
263707	506 1	10	75 06 01	2637	07	30 02 02 N	88 37 03 W
263707	50601	10	75 06 01	2637	07	30 02 02 N	88 37 03 W
263707	50928	21	75 09 28	2637	07	30 02 00 N	88 37 00 W
263707	60116	29	76 01 16	2637	07	30 01 57 N	88 36 58 W
263707	60709	39	76 07 09	2637	07	30 01 59 N	88 56 59 W
263708	506 1	10	75 06 01	2637	08	30 02 02 N	88 37 03 W
263708	50601	10	75 06 01	2637	08	30 02 02 N	88 37 03 W
263708	50928	21	75 09 28	2637	08	30 02 00 N	88 37 00 W
263708	60116	29	76 01 16	2637	08	30 01 57 N	88 36 58 W
263708	60709	39	76 07 09	2637	08	30 01 59 N	88 56 59 W
263709	506 1	10	75 06 01	2637	09	30 02 02 N	88 37 03 W
263709	50601	10	75 06 01	2637	09	30 02 02 N	88 37 03 W
263709	50928	21	75 09 28	2637	09	30 02 00 N	88 37 00 W
263709	60116	29	76 01 16	2637	09	30 01 57 N	88 36 58 W
263709	60709	39	76 07 09	2637	09	30 01 59 N	88 56 59 W
263710	60709	39	76 07 09	2637	10	30 01 59 N	88 56 59 W
263711	50601	10	75 06 01	2637	11	30 02 02 N	88 37 03 W
263711	50928	21	75 09 28	2637	11	30 02 00 N	88 37 00 W
263711	60116	29	76 01 16	2637	11	30 01 57 N	88 36 58 W
263801	40628	2	74 05 17	2638	01	29 55 16 N	88 26 54 W
263801	506 2	10	75 06 01	2638	01	29 55 31 N	88 33 29 W
263801	50602	10	75 06 01	2638	01	29 55 31 N	88 33 29 W
263801	50928	21	75 09 27	2638	01	29 55 30 N	88 33 30 W
263801	60116	29	76 01 16	2638	01	29 55 29 N	88 33 28 W
263801	60709	39	76 07 09	2638	01	29 55 28 N	88 33 30 W
263801	70909	DM1	77 09 09	2638	01	29 55 31 N	88 33 24 W
263801	71104	DM2	77 11 04	2638	01	29 55 31 N	88 33 26 W
263801	80210	DM4	78 02 10	2638	01	29 55 52 N	88 33 39 W
263802	40628	2	74 05 17	2638	02	29 55 16 N	88 26 54 W
263802	506 2	10	75 06 01	2638	02	29 55 31 N	88 33 29 W
263802	50602	10	75 06 01	2638	02	29 55 31 N	88 33 29 W
263802	50928	21	75 09 27	2638	02	29 55 30 N	88 33 30 W
263802	60116	29	76 01 16	2638	02	29 55 29 N	88 33 28 W
263802	60709	39	76 07 09	2638	02	29 55 28 N	88 33 30 W
263802	70909	DM1	77 09 09	2638	02	29 55 31 N	88 33 24 W
263802	71104	DM2	77 11 04	2638	02	29 55 31 N	88 33 26 W
263802	80210	DM4	78 02 10	2638	02	29 55 52 N	88 33 39 W
263803	506 2	10	75 06 01	2638	03	29 55 31 N	88 33 29 W
263803	50602	10	75 06 01	2638	03	29 55 31 N	88 33 29 W
263803	50928	21	75 09 27	2638	03	29 55 30 N	88 33 30 W
263803	60116	29	76 01 16	2638	03	29 55 29 N	88 33 28 W
263803	60709	39	76 07 09	2638	03	29 55 28 N	88 33 30 W
263803	70909	DM1	77 09 09	2638	03	29 55 31 N	88 33 24 W
263803	71104	DM2	77 11 04	2638	03	29 55 31 N	88 33 26 W
263803	80210	DM4	78 02 10	2638	03	29 55 52 N	88 33 39 W
263804	506 2	10	75 06 01	2638	04	29 55 31 N	88 33 29 W
263804	50602	10	75 06 01	2638	04	29 55 31 N	88 33 29 W
263804	50928	21	75 09 27	2638	04	29 55 30 N	88 33 30 W
263804	60116	29	76 01 16	2638	04	29 55 29 N	88 33 28 W
263804	60709	39	76 07 09	2638	04	29 55 28 N	88 33 30 W
263804	70909	DM1	77 09 09	2638	04	29 55 31 N	88 33 24 W
263804	71104	DM2	77 11 04	2638	04	29 55 31 N	88 33 26 W
263804	80210	DM4	78 02 10	2638	04	29 55 52 N	88 33 39 W
263805	506 2	10	75 06 01	2638	05	29 55 31 N	88 33 29 W
263805	50602	10	75 06 01	2638	05	29 55 31 N	88 33 29 W
263805	50928	21	75 09 27	2638	05	29 55 30 N	88 33 30 W
263805	60116	29	76 01 16	2638	05	29 55 29 N	88 33 28 W
263805	60709	39	76 07 09	2638	05	29 55 28 N	88 33 30 W
263805	70909	DM1	77 09 09	2638	05	29 55 31 N	88 33 24 W
263805	71104	DM2	77 11 04	2638	05	29 55 31 N	88 33 26 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
263805	80210	DM4	78 02 10	2638	05	29 55 52 N	88 33 39 W
263806	506 2	10	75 06 01	2638	06	29 55 31 N	88 33 29 W
263806	50602	10	75 06 01	2638	06	29 55 31 N	88 33 29 W
263806	50928	21	75 09 27	2638	06	29 55 30 N	88 33 30 W
263806	60116	29	76 01 16	2638	06	29 55 29 N	88 33 28 W
263806	60709	39	76 07 09	2638	06	29 55 28 N	88 33 30 W
263806	70909	DM1	77 09 09	2638	06	29 55 31 N	88 33 24 W
263806	71104	DM2	77 11 04	2638	06	29 55 31 N	88 33 26 W
263806	80210	DM4	78 02 10	2638	06	29 55 52 N	88 33 39 W
263807	506 2	10	75 06 01	2638	07	29 55 31 N	88 33 29 W
263807	50602	10	75 06 01	2638	07	29 55 31 N	88 33 29 W
263807	50928	21	75 09 27	2638	07	29 55 30 N	88 33 30 W
263807	60116	29	76 01 16	2638	07	29 55 29 N	88 33 28 W
263807	60709	39	76 07 09	2638	07	29 55 28 N	88 33 30 W
263807	70909	DM1	77 09 09	2638	07	29 55 31 N	88 33 24 W
263807	71104	DM2	77 11 04	2638	07	29 55 31 N	88 33 26 W
263807	80210	DM4	78 02 10	2638	07	29 55 52 N	88 33 39 W
263808	40616	2	74 05 17	2638	08	29 55 16 N	88 26 54 W
263808	506 2	10	75 06 01	2638	08	29 55 31 N	88 33 29 W
263808	50602	10	75 06 01	2638	08	29 55 31 N	88 33 29 W
263808	50928	21	75 09 27	2638	08	29 55 30 N	88 33 30 W
263808	60116	29	76 01 16	2638	08	29 55 29 N	88 33 28 W
263808	60709	39	76 07 09	2638	08	29 55 28 N	88 33 30 W
263808	70909	DM1	77 09 09	2638	08	29 55 31 N	88 33 24 W
263808	71104	DM2	77 11 04	2638	08	29 55 31 N	88 33 26 W
263808	80210	DM4	78 02 10	2638	08	29 55 52 N	88 33 39 W
263809	506 2	10	75 06 01	2638	09	29 55 31 N	88 33 29 W
263809	50602	10	75 06 01	2638	09	29 55 31 N	88 33 29 W
263809	50928	21	75 09 27	2638	09	29 55 30 N	88 33 30 W
263809	60116	29	76 01 16	2638	09	29 55 29 N	88 33 28 W
263809	60709	39	76 07 09	2638	09	29 55 28 N	88 33 30 W
263809	70909	DM1	77 09 09	2638	09	29 55 31 N	88 33 24 W
263809	71104	DM2	77 11 04	2638	09	29 55 31 N	88 33 26 W
263809	80210	DM4	78 02 10	2638	09	29 55 52 N	88 33 39 W
263810	60709	39	76 07 09	2638	10	29 55 28 N	88 33 30 W
263810	70909	DM1	77 09 09	2638	10	29 55 31 N	88 33 24 W
263810	71104	DM2	77 11 04	2638	10	29 55 31 N	88 33 26 W
263810	80210	DM4	78 02 10	2638	10	29 55 52 N	88 33 39 W
263811	50602	10	75 06 01	2638	11	29 55 31 N	88 33 29 W
263811	50928	21	75 09 27	2638	11	29 55 30 N	88 33 30 W
263811	60116	29	76 01 16	2638	11	29 55 29 N	88 33 28 W
263811	70909	DM1	77 09 09	2638	11	29 55 31 N	88 33 24 W
263811	71104	DM2	77 11 04	2638	11	29 55 31 N	88 33 26 W
263811	80210	DM4	78 02 10	2638	11	29 55 52 N	88 33 39 W
263812	70909	DM1	77 09 09	2638	12	29 55 31 N	88 33 24 W
263813	70909	DM1	77 09 09	2638	13	29 55 31 N	88 33 24 W
263814	70909	DM1	77 09 09	2638	14	29 55 31 N	88 33 24 W
263815	70909	DM1	77 09 09	2638	15	29 55 31 N	88 33 24 W
263816	70909	DM1	77 09 09	2638	16	29 55 31 N	88 33 24 W
263850	70909	DM1	77 09 09	2638	50	29 55 31 N	88 33 24 W
263850	71101	DM2	77 11 01	2639	50	29 53 30 N	88 12 29 W
263850	71104	DM2	77 11 04	2638	50	29 55 31 N	88 33 26 W
263850	80210	DM4	78 02 10	2638	50	29 55 52 N	88 33 39 W
263851	71101	DM2	77 11 01	2639	51	29 53 30 N	88 12 29 W
263852	71101	DM2	77 11 01	2639	52	29 53 30 N	88 12 29 W
263853	71101	DM2	77 11 01	2639	53	29 53 30 N	88 12 29 W
263854	71101	DM2	77 11 01	2639	54	29 53 30 N	88 12 29 W
263855	71101	DM2	77 11 01	2639	55	29 53 30 N	88 12 29 W
263856	71101	DM2	77 11 01	2639	56	29 53 30 N	88 12 29 W
263857	71101	DM2	77 11 01	2639	57	29 53 30 N	88 12 29 W
263858	71101	DM2	77 11 01	2639	58	29 53 30 N	88 12 29 W
263861	79224	DM3	78 02 24	2639	61	29 53 30 N	88 12 30 W
263877	71105	DM2	77 11 04	2638	77	29 55 31 N	88 33 26 W
263901	40628	2	74 05 18	2639	01	29 53 30 N	88 12 27 W
263901	506 2	10	75 06 02	2639	01	29 53 27 N	88 12 25 W
263901	50602	10	75 06 02	2639	01	29 53 27 N	88 12 25 W
263901	50927	21	75 09 27	2639	01	29 53 30 N	88 12 30 W
263901	60116	29	76 01 18	2639	01	29 53 28 N	88 12 28 W
263901	60709	39	76 07 09	2639	01	29 53 27 N	88 12 27 W
263901	70909	DM1	77 09 09	2639	01	29 53 29 N	88 12 19 W
263901	71105	DM2	77 11 05	2639	01	29 53 30 N	88 12 29 W
263901	80210	DM4	78 02 10	2639	01	29 53 43 N	88 12 31 W
263902	40628	2	74 05 18	2639	02	29 53 30 N	88 12 27 W
263902	506 2	10	75 06 02	2639	02	29 53 27 N	88 12 25 W
263902	50602	10	75 06 02	2639	02	29 53 27 N	88 12 25 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
263902	50927	21	75 09 27	2639	02	29 53 30 N	88 12 30 W
263902	60118	29	76 01 18	2639	02	29 53 28 N	88 12 28 W
263902	60709	39	76 07 09	2639	02	29 53 27 N	88 12 27 W
263902	70909	DM1	77 09 09	2639	02	29 53 29 N	88 12 19 W
263903	506 2	10	75 06 02	2639	03	29 53 27 N	88 12 25 W
263903	50602	10	75 06 02	2639	03	29 53 27 N	88 12 25 W
263903	50927	21	75 09 27	2639	03	29 53 30 N	88 12 30 W
263903	60118	29	76 01 18	2639	03	29 53 28 N	88 12 28 W
263903	60709	39	76 07 09	2639	03	29 53 27 N	88 12 27 W
263903	70909	DM1	77 09 09	2639	03	29 53 29 N	88 12 19 W
263904	506 2	10	75 06 02	2639	04	29 53 27 N	88 12 25 W
263904	50602	10	75 06 02	2639	04	29 53 27 N	88 12 25 W
263904	50927	21	75 09 27	2639	04	29 53 30 N	88 12 30 W
263904	60118	29	76 01 18	2639	04	29 53 28 N	88 12 28 W
263904	60709	39	76 07 09	2639	04	29 53 27 N	88 12 27 W
263904	70909	DM1	77 09 09	2639	04	29 53 29 N	88 12 19 W
263905	506 2	10	75 06 02	2639	05	29 53 27 N	88 12 25 W
263905	50602	10	75 06 02	2639	05	29 53 27 N	88 12 25 W
263905	50927	21	75 09 27	2639	05	29 53 30 N	88 12 30 W
263905	60118	29	76 01 18	2639	05	29 53 28 N	88 12 28 W
263905	60709	39	76 07 09	2639	05	29 53 27 N	88 12 27 W
263905	70909	DM1	77 09 09	2639	05	29 53 29 N	88 12 19 W
263906	506 2	10	75 06 02	2639	06	29 53 27 N	88 12 25 W
263906	50602	10	75 06 02	2639	06	29 53 27 N	88 12 25 W
263906	50927	21	75 09 27	2639	06	29 53 30 N	88 12 30 W
263906	60118	29	76 01 18	2639	06	29 53 28 N	88 12 28 W
263906	60709	39	76 07 09	2639	06	29 53 27 N	88 12 27 W
263906	70909	DM1	77 09 09	2639	06	29 53 29 N	88 12 19 W
263907	506 2	10	75 06 02	2639	07	29 53 27 N	88 12 25 W
263907	50602	10	75 06 02	2639	07	29 53 27 N	88 12 25 W
263907	50927	21	75 09 27	2639	07	29 53 30 N	88 12 30 W
263907	60118	29	76 01 18	2639	07	29 53 28 N	88 12 28 W
263907	60709	39	76 07 09	2639	07	29 53 27 N	88 12 27 W
263908	40616	2	74 05 18	2639	08	29 53 30 N	88 12 27 W
263908	506 2	10	75 06 02	2639	08	29 53 27 N	88 12 25 W
263908	50602	10	75 06 02	2639	08	29 53 27 N	88 12 25 W
263908	50927	21	75 09 27	2639	08	29 53 30 N	88 12 30 W
263908	60118	29	76 01 18	2639	08	29 53 28 N	88 12 28 W
263908	60709	39	76 07 09	2639	08	29 53 27 N	88 12 27 W
263909	506 2	10	75 06 02	2639	09	29 53 27 N	88 12 25 W
263909	50602	10	75 06 02	2639	09	29 53 27 N	88 12 25 W
263909	50927	21	75 09 27	2639	09	29 53 30 N	88 12 30 W
263909	60118	29	76 01 18	2639	09	29 53 28 N	88 12 28 W
263909	60709	39	76 07 09	2639	09	29 53 27 N	88 12 27 W
263910	60709	39	76 07 09	2639	10	29 53 27 N	88 12 27 W
263911	50602	10	75 06 02	2639	11	29 53 27 N	88 12 25 W
263911	50927	21	75 09 27	2639	11	29 53 30 N	88 12 30 W
263911	60118	29	76 01 18	2639	11	29 53 28 N	88 12 28 W
263950	70909	DM1	77 09 09	2639	50	29 53 29 N	88 12 19 W
263950	71101	DM2	77 11 01	2639	50	29 53 30 N	88 12 29 W
263950	71102	DM2	77 11 01	2639	50	29 53 30 N	88 12 29 W
263950	71105	DM2	77 11 05	2639	50	29 53 30 N	88 12 29 W
263950	80210	DM4	78 02 10	2639	50	29 53 43 N	88 12 31 W
263950	80220	DM3	78 02 20	2639	50	29 53 30 N	88 12 30 W
263950	80221	DM3	78 02 21	2639	50	29 53 30 N	88 12 30 W
263950	80222	DM3	78 02 22	2639	50	29 53 30 N	88 12 30 W
263950	80223	DM3	78 02 23	2639	50	29 53 30 N	88 12 30 W
263950	80224	DM3	78 02 24	2639	50	29 53 30 N	88 12 30 W
263951	71101	DM2	77 11 01	2639	51	29 53 30 N	88 12 29 W
263951	80220	DM3	78 02 20	2639	51	29 53 30 N	88 12 30 W
263951	80221	DM3	78 02 21	2639	51	29 53 30 N	88 12 30 W
263951	80222	DM3	78 02 22	2639	51	29 53 30 N	88 12 30 W
263951	80223	DM3	78 02 23	2639	51	29 53 30 N	88 12 30 W
263951	80224	DM3	78 02 24	2639	51	29 53 30 N	88 12 30 W
263952	71101	DM2	77 11 02	2639	52	29 53 32 N	88 12 22 W
263952	80220	DM3	78 02 20	2639	52	29 53 30 N	88 12 30 W
263952	80221	DM3	78 02 21	2639	52	29 53 30 N	88 12 30 W
263952	80222	DM3	78 02 22	2639	52	29 53 30 N	88 12 30 W
263952	80223	DM3	78 02 23	2639	52	29 53 30 N	88 12 30 W
263952	80224	DM3	78 02 24	2639	52	29 53 30 N	88 12 30 W
263953	71101	DM2	77 11 02	2639	53	29 53 32 N	88 12 22 W
263953	71102	DM2	77 11 02	2639	53	29 53 32 N	88 12 22 W
263953	80220	DM3	78 02 20	2639	53	29 53 30 N	88 12 30 W
263953	80221	DM3	78 02 21	2639	53	29 53 30 N	88 12 30 W
263953	80222	DM3	78 02 22	2639	53	29 53 30 N	88 12 30 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
263953	80223	DM3	78 02 23	2639 53	29 53 30 N	88 12 30 W
263953	80224	DM3	78 02 24	2639 53	29 53 30 N	88 12 30 W
263954	71101	DM2	77 11 02	2639 54	29 53 32 N	88 12 22 W
263954	71102	DM2	77 11 02	2639 54	29 53 32 N	88 12 22 W
263954	80220	DM3	78 02 20	2639 54	29 53 30 N	88 12 30 W
263954	80221	DM3	78 02 21	2639 54	29 53 30 N	88 12 30 W
263954	80222	DM3	78 02 22	2639 54	29 53 30 N	88 12 30 W
263954	80223	DM3	78 02 23	2639 54	29 53 30 N	88 12 30 W
263954	80224	DM3	78 02 24	2639 54	29 53 30 N	88 12 30 W
263955	71101	DM2	77 11 02	2639 55	29 53 32 N	88 12 22 W
263955	71102	DM2	77 11 02	2639 55	29 53 32 N	88 12 22 W
263955	80220	DM3	78 02 20	2639 55	29 53 30 N	88 12 30 W
263955	80221	DM3	78 02 21	2639 55	29 53 30 N	88 12 30 W
263955	80222	DM3	78 02 22	2639 55	29 53 30 N	88 12 30 W
263955	80223	DM3	78 02 23	2639 55	29 53 30 N	88 12 30 W
263955	80224	DM3	78 02 24	2639 55	29 53 30 N	88 12 30 W
263956	71101	DM2	77 11 02	2639 56	29 53 32 N	88 12 22 W
263956	71102	DM2	77 11 02	2639 56	29 53 32 N	88 12 22 W
263956	80221	DM3	78 02 21	2639 56	29 53 30 N	88 12 30 W
263956	80222	DM3	78 02 22	2639 56	29 53 30 N	88 12 30 W
263956	80223	DM3	78 02 23	2639 56	29 53 30 N	88 12 30 W
263956	80224	DM3	78 02 24	2639 56	29 53 30 N	88 12 30 W
263956	80225	DM3	78 02 25	2639 56	29 53 30 N	88 12 30 W
263957	71101	DM2	77 11 02	2639 57	29 53 32 N	88 12 22 W
263957	71102	DM2	77 11 02	2639 57	29 53 32 N	88 12 22 W
263957	80221	DM3	78 02 21	2639 57	29 53 30 N	88 12 30 W
263957	80222	DM3	78 02 22	2639 57	29 53 30 N	88 12 30 W
263957	80223	DM3	78 02 23	2639 57	29 53 30 N	88 12 30 W
263957	80224	DM3	78 02 24	2639 57	29 53 30 N	88 12 30 W
263957	80225	DM3	78 02 25	2639 57	29 53 30 N	88 12 30 W
263958	71101	DM2	77 11 02	2639 58	29 53 32 N	88 12 22 W
263958	71102	DM2	77 11 02	2639 58	29 53 32 N	88 12 22 W
263958	80224	DM3	78 02 24	2639 58	29 53 30 N	88 12 30 W
263959	71101	DM2	77 11 02	2639 59	29 53 32 N	88 12 22 W
263959	71102	DM2	77 11 02	2639 59	29 53 32 N	88 12 22 W
263959	80224	DM3	78 02 24	2639 59	29 53 30 N	88 12 30 W
263960	71102	DM2	77 11 02	2639 60	29 53 32 N	88 12 22 W
263961	80220	DM3	78 02 20	2639 61	29 53 30 N	88 12 30 W
263961	80221	DM3	78 02 21	2639 61	29 53 30 N	88 12 30 W
263961	80222	DM3	78 02 22	2639 61	29 53 30 N	88 12 30 W
263961	80223	DM3	78 02 23	2639 61	29 53 30 N	88 12 30 W
263962	80220	DM3	78 02 20	2639 62	29 53 30 N	88 12 30 W
263962	80221	DM3	78 02 21	2639 62	29 53 30 N	88 12 30 W
263962	80222	DM3	78 02 22	2639 62	29 53 30 N	88 12 30 W
263962	80223	DM3	78 02 23	2639 62	29 53 30 N	88 12 30 W
263962	80224	DM3	78 02 24	2639 62	29 53 30 N	88 12 30 W
263968	71101	DM2	77 11 01	2639 68	29 53 32 N	88 12 22 W
263968	80220	DM3	78 02 20	2639 68	29 53 30 N	88 12 30 W
263968	80221	DM3	78 02 21	2639 68	29 53 30 N	88 12 30 W
263968	80222	DM3	78 02 22	2639 68	29 53 30 N	88 12 30 W
263968	80223	DM3	78 02 23	2639 68	29 53 30 N	88 12 30 W
263968	80224	DM3	78 02 24	2639 68	29 53 30 N	88 12 30 W
263968	80225	DM3	78 02 25	2639 68	29 53 30 N	88 12 30 W
263969	71102	DM2	77 11 02	2639 69	29 53 32 N	88 12 22 W
263969	80220	DM3	78 02 20	2639 69	29 53 30 N	88 12 30 W
263969	80221	DM3	78 02 21	2639 69	29 53 30 N	88 12 30 W
263969	80222	DM3	78 02 22	2639 69	29 53 30 N	88 12 30 W
263969	80223	DM3	78 02 23	2639 69	29 53 30 N	88 12 30 W
263969	80224	DM3	78 02 24	2639 69	29 53 30 N	88 12 30 W
263969	80225	DM3	78 02 25	2639 69	29 53 30 N	88 12 30 W
263970	71102	DM2	77 11 02	2639 70	29 53 32 N	88 12 22 W
263970	80220	DM3	78 02 20	2639 70	29 53 30 N	88 12 30 W
263970	80221	DM3	78 02 21	2639 70	29 53 30 N	88 12 30 W
263970	80222	DM3	78 02 22	2639 70	29 53 30 N	88 12 30 W
263970	80223	DM3	78 02 23	2639 70	29 53 30 N	88 12 30 W
263970	80224	DM3	78 02 24	2639 70	29 53 30 N	88 12 30 W
263970	80225	DM3	78 02 25	2639 70	29 53 30 N	88 12 30 W
263971	71102	DM2	77 11 02	2639 71	29 53 32 N	88 12 22 W
263971	80220	DM3	78 02 20	2639 71	29 53 30 N	88 12 30 W
263971	80221	DM3	78 02 21	2639 71	29 53 30 N	88 12 30 W
263971	80222	DM3	78 02 22	2639 71	29 53 30 N	88 12 30 W
263971	80223	DM3	78 02 23	2639 71	29 53 30 N	88 12 30 W
263971	80224	DM3	78 02 24	2639 71	29 53 30 N	88 12 30 W
263971	80225	DM3	78 02 25	2639 71	29 53 30 N	88 12 30 W
263972	71102	DM2	77 11 02	2639 72	29 53 32 N	88 12 22 W

### MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
263972	80220	DM3	78 02 20	2639	72	29 53 30 N	88 12 30 W
263972	80221	DM3	78 02 21	2639	72	29 53 30 N	88 12 30 W
263972	80222	DM3	78 02 22	2639	72	29 53 30 N	88 12 30 W
263972	80223	DM3	78 02 23	2639	72	29 53 30 N	88 12 30 W
263972	80224	DM3	78 02 24	2639	72	29 53 30 N	88 12 30 W
263972	80225	DM3	78 02 25	2639	72	29 53 30 N	88 12 30 W
263973	71101	DM2	77 11 01	2639	73	29 53 32 N	88 12 22 W
263973	80220	DM3	78 02 20	2639	73	29 53 30 N	88 12 30 W
263973	80221	DM3	78 02 21	2639	73	29 53 30 N	88 12 30 W
263973	80222	DM3	78 02 22	2639	73	29 53 30 N	88 12 30 W
263973	80223	DM3	78 02 23	2639	73	29 53 30 N	88 12 30 W
263973	80224	DM3	78 02 24	2639	73	29 53 30 N	88 12 30 W
263974	71102	DM2	77 11 02	2639	74	29 53 32 N	88 12 22 W
263974	80220	DM3	78 02 20	2639	74	29 53 30 N	88 12 30 W
263974	80221	DM3	78 02 21	2639	74	29 53 30 N	88 12 30 W
263974	80222	DM3	78 02 22	2639	74	29 53 30 N	88 12 30 W
263974	80223	DM3	78 02 23	2639	74	29 53 30 N	88 12 30 W
263974	80224	DM3	78 02 24	2639	74	29 53 30 N	88 12 30 W
263975	71102	DM2	77 11 02	2639	75	29 53 32 N	88 12 22 W
263975	80221	DM3	78 02 21	2639	75	29 53 30 N	88 12 30 W
263975	80222	DM3	78 02 22	2639	75	29 53 30 N	88 12 30 W
263975	80223	DM3	78 02 23	2639	75	29 53 30 N	88 12 30 W
263975	80224	DM3	78 02 24	2639	75	29 53 30 N	88 12 30 W
263976	71102	DM2	77 11 02	2639	76	29 53 32 N	88 12 22 W
263976	80221	DM3	78 02 21	2639	76	29 53 30 N	88 12 30 W
263976	80222	DM3	78 02 22	2639	76	29 53 30 N	88 12 30 W
263976	80223	DM3	78 02 23	2639	76	29 53 30 N	88 12 30 W
263976	80224	DM3	78 02 24	2639	76	29 53 30 N	88 12 30 W
263977	71102	DM2	77 11 02	2639	77	29 53 32 N	88 12 22 W
263977	80221	DM3	78 02 21	2639	77	29 53 30 N	88 12 30 W
263977	80222	DM3	78 02 22	2639	77	29 53 30 N	88 12 30 W
263977	80223	DM3	78 02 23	2639	77	29 53 30 N	88 12 30 W
263977	80224	DM3	78 02 24	2639	77	29 53 30 N	88 12 30 W
263978	80221	DM3	78 02 21	2639	78	29 53 30 N	88 12 30 W
263978	80222	DM3	78 02 22	2639	78	29 53 30 N	88 12 30 W
263978	80223	DM3	78 02 23	2639	78	29 53 30 N	88 12 30 W
263978	80224	DM3	78 02 24	2639	78	29 53 30 N	88 12 30 W
263979	80221	DM3	78 02 21	2639	79	29 53 30 N	88 12 30 W
263979	80222	DM3	78 02 22	2639	79	29 53 30 N	88 12 30 W
263979	80223	DM3	78 02 23	2639	79	29 53 30 N	88 12 30 W
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263985	80220	DM3	78 02 20	2639	85	29 53 30 N	88 12 30 W
263985	80221	DM3	78 02 21	2639	85	29 53 30 N	88 12 30 W
263985	80222	DM3	78 02 22	2639	85	29 53 30 N	88 12 30 W
263985	80223	DM3	78 02 23	2639	85	29 53 30 N	88 12 30 W
263985	80224	DM3	78 02 24	2639	85	29 53 30 N	88 12 30 W
263985	80225	DM3	78 02 25	2639	85	29 53 30 N	88 12 30 W
263986	80220	DM3	78 02 20	2639	86	29 53 30 N	88 12 30 W
263986	80221	DM3	78 02 21	2639	86	29 53 30 N	88 12 30 W
263986	80222	DM3	78 02 22	2639	86	29 53 30 N	88 12 30 W
263986	80223	DM3	78 02 23	2639	86	29 53 30 N	88 12 30 W
263986	80224	DM3	78 02 24	2639	86	29 53 30 N	88 12 30 W
263986	80225	DM3	78 02 25	2639	86	29 53 30 N	88 12 30 W
263987	80220	DM3	78 02 20	2639	87	29 53 30 N	88 12 30 W
263987	80221	DM3	78 02 21	2639	87	29 53 30 N	88 12 30 W
263987	80222	DM3	78 02 22	2639	87	29 53 30 N	88 12 30 W
263987	80223	DM3	78 02 23	2639	87	29 53 30 N	88 12 30 W
263987	80224	DM3	78 02 24	2639	87	29 53 30 N	88 12 30 W
263987	80225	DM3	78 02 25	2639	87	29 53 30 N	88 12 30 W
263988	80220	DM3	78 02 20	2639	88	29 53 30 N	88 12 30 W
263988	80221	DM3	78 02 21	2639	88	29 53 30 N	88 12 30 W
263988	80222	DM3	78 02 22	2639	88	29 53 30 N	88 12 30 W
263988	80223	DM3	78 02 23	2639	88	29 53 30 N	88 12 30 W
263988	80224	DM3	78 02 24	2639	88	29 53 30 N	88 12 30 W
263989	80220	DM3	78 02 20	2639	89	29 53 30 N	88 12 30 W
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263989	80224	DM3	78 02 24	2639	89	29 53 30 N	88 12 30 W
263990	80221	DM3	78 02 21	2639	90	29 53 30 N	88 12 30 W
263990	80222	DM3	78 02 22	2639	90	29 53 30 N	88 12 30 W
263990	80223	DM3	78 02 23	2639	90	29 53 30 N	88 12 30 W
263990	80224	DM3	78 02 24	2639	90	29 53 30 N	88 12 30 W
263991	80221	DM3	78 02 21	2639	91	29 53 30 N	88 12 30 W
263991	80222	DM3	78 02 22	2639	91	29 53 30 N	88 12 30 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
263991	80223	DM3	78 02 23	2639	91	29 53 30 N	88 12 30 W
263991	80224	DM3	78 02 24	2639	91	29 53 30 N	88 12 30 W
263992	80221	DM3	78 02 21	2639	92	29 53 30 N	88 12 30 W
263992	80222	DM3	78 02 22	2639	92	29 53 30 N	88 12 30 W
263992	80223	DM3	78 02 23	2639	92	29 53 30 N	88 12 30 W
263992	80224	DM3	78 02 24	2639	92	29 53 30 N	88 12 30 W
264001	40628	2	74 05 25	2640	01	29 43 30 N	87 54 29 W
264001	506 2	10	75 06 02	2640	01	29 43 31 N	87 54 34 W
264001	50602	10	75 06 02	2640	01	29 43 31 N	87 54 34 W
264001	50927	21	75 09 27	2640	01	29 43 30 N	87 54 30 W
264001	60118	29	76 01 18	2640	01	29 43 29 N	87 54 29 W
264001	60709	39	76 07 09	2640	01	29 43 30 N	87 54 27 W
264001	70909	DM1	77 09 09	2640	01	29 43 29 N	87 54 42 W
264001	71106	DM2	77 11 06	2640	01	29 43 28 N	87 54 30 W
264001	80210	DM4	78 02 10	2640	01	29 43 29 N	87 54 29 W
264002	40628	2	74 05 25	2640	02	29 43 30 N	87 54 29 W
264002	506 2	10	75 06 02	2640	02	29 43 31 N	87 54 34 W
264002	50602	10	75 06 02	2640	02	29 43 31 N	87 54 34 W
264002	50927	21	75 09 27	2640	02	29 43 30 N	87 54 30 W
264002	60118	29	76 01 18	2640	02	29 43 29 N	87 54 29 W
264002	60709	39	76 07 09	2640	02	29 43 30 N	87 54 27 W
264002	70909	DM1	77 09 09	2640	02	29 43 29 N	87 54 42 W
264002	71105	DM2	77 11 06	2640	02	29 43 28 N	87 54 30 W
264002	71106	DM2	77 11 06	2640	02	29 43 28 N	87 54 30 W
264002	80210	DM4	78 02 10	2640	02	29 43 29 N	87 54 29 W
264003	506 2	10	75 06 02	2640	03	29 43 31 N	87 54 34 W
264003	50602	10	75 06 02	2640	03	29 43 31 N	87 54 34 W
264003	50927	21	75 09 27	2640	03	29 43 30 N	87 54 30 W
264003	60118	29	76 01 18	2640	03	29 43 29 N	87 54 29 W
264003	60709	39	76 07 09	2640	03	29 43 30 N	87 54 27 W
264003	70909	DM1	77 09 09	2640	03	29 43 29 N	87 54 42 W
264003	71106	DM2	77 11 06	2640	03	29 43 28 N	87 54 30 W
264003	80210	DM4	78 02 10	2640	03	29 43 29 N	87 54 29 W
264004	506 2	10	75 06 02	2640	04	29 43 31 N	87 54 34 W
264004	50602	10	75 06 02	2640	04	29 43 31 N	87 54 34 W
264004	50927	21	75 09 27	2640	04	29 43 30 N	87 54 30 W
264004	60118	29	76 01 18	2640	04	29 43 29 N	87 54 29 W
264004	60709	39	76 07 09	2640	04	29 43 30 N	87 54 27 W
264004	70909	DM1	77 09 09	2640	04	29 43 29 N	87 54 42 W
264004	71106	DM2	77 11 06	2640	04	29 43 28 N	87 54 30 W
264004	80210	DM4	78 02 10	2640	04	29 43 29 N	87 54 29 W
264005	506 2	10	75 06 02	2640	05	29 43 31 N	87 54 34 W
264005	50602	10	75 06 02	2640	05	29 43 31 N	87 54 34 W
264005	50927	21	75 09 27	2640	05	29 43 30 N	87 54 30 W
264005	60118	29	76 01 18	2640	05	29 43 29 N	87 54 29 W
264005	60709	39	76 07 09	2640	05	29 43 30 N	87 54 27 W
264005	70909	DM1	77 09 09	2640	05	29 43 29 N	87 54 42 W
264005	71106	DM2	77 11 06	2640	05	29 43 28 N	87 54 30 W
264005	80210	DM4	78 02 10	2640	05	29 43 29 N	87 54 29 W
264006	506 2	10	75 06 02	2640	06	29 43 31 N	87 54 34 W
264006	50602	10	75 06 02	2640	06	29 43 31 N	87 54 34 W
264006	50927	21	75 09 27	2640	06	29 43 30 N	87 54 30 W
264006	60118	29	76 01 18	2640	06	29 43 29 N	87 54 29 W
264006	60709	39	76 07 09	2640	06	29 43 30 N	87 54 27 W
264006	70909	DM1	77 09 09	2640	06	29 43 29 N	87 54 42 W
264006	71106	DM2	77 11 06	2640	06	29 43 28 N	87 54 30 W
264006	80210	DM4	78 02 10	2640	06	29 43 29 N	87 54 29 W
264007	506 2	10	75 06 02	2640	07	29 43 31 N	87 54 34 W
264007	50602	10	75 06 02	2640	07	29 43 31 N	87 54 34 W
264007	50927	21	75 09 27	2640	07	29 43 30 N	87 54 30 W
264007	60118	29	76 01 18	2640	07	29 43 29 N	87 54 29 W
264007	60709	39	76 07 09	2640	07	29 43 30 N	87 54 27 W
264007	70909	DM1	77 09 09	2640	07	29 43 29 N	87 54 42 W
264007	71106	DM2	77 11 06	2640	07	29 43 28 N	87 54 30 W
264007	80210	DM4	78 02 10	2640	07	29 43 29 N	87 54 29 W
264008	40618	2	74 05 25	2640	08	29 43 30 N	87 54 29 W
264008	506 2	10	75 06 02	2640	08	29 43 31 N	87 54 34 W
264008	50602	10	75 06 02	2640	08	29 43 31 N	87 54 34 W
264008	50927	21	75 09 27	2640	08	29 43 30 N	87 54 30 W
264008	60118	29	76 01 18	2640	08	29 43 29 N	87 54 29 W
264008	60709	39	76 07 09	2640	08	29 43 30 N	87 54 27 W
264008	70909	DM1	77 09 09	2640	08	29 43 29 N	87 54 42 W
264008	71106	DM2	77 11 06	2640	08	29 43 28 N	87 54 30 W
264008	71107	DM2	77 11 06	2640	08	29 43 28 N	87 54 30 W
264008	80210	DM4	78 02 10	2640	08	29 43 29 N	87 54 29 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
264009	506 2	10	75 06 02	2640	09	29 43 31 N	87 54 34 W
264009	50602	10	75 06 02	2640	09	29 43 31 N	87 54 34 W
264009	50927	21	75 09 27	2640	09	29 43 30 N	87 54 30 W
264009	60118	29	76 01 18	2640	09	29 43 29 N	87 54 29 W
264009	60709	39	76 07 09	2640	09	29 43 30 N	87 54 27 W
264009	70909	DM1	77 09 09	2640	09	29 43 29 N	87 54 42 W
264009	71106	DM2	77 11 06	2640	09	29 43 28 N	87 54 30 W
264009	80210	DM4	78 02 10	2640	09	29 43 29 N	87 54 29 W
264010	60709	39	76 07 09	2640	10	29 43 30 N	87 54 27 W
264010	70907	DM1	77 09 09	2640	10	29 43 29 N	87 54 42 W
264010	70909	DM1	77 09 09	2640	10	29 43 29 N	87 54 42 W
264010	71106	DM2	77 11 06	2640	10	29 43 28 N	87 54 30 W
264010	80210	DM4	78 02 10	2640	10	29 43 29 N	87 54 29 W
264011	50602	10	75 06 02	2640	11	29 43 31 N	87 54 34 W
264011	50927	21	75 09 27	2640	11	29 43 30 N	87 54 30 W
264011	60118	29	76 01 18	2640	11	29 43 29 N	87 54 29 W
264011	70909	DM1	77 09 09	2640	11	29 43 29 N	87 54 42 W
264011	71106	DM2	77 11 06	2640	11	29 43 28 N	87 54 30 W
264011	80210	DM4	78 02 10	2640	11	29 43 29 N	87 54 29 W
264012	80210	DM4	78 02 10	2640	12	29 43 29 N	87 54 29 W
264013	80210	DM4	78 02 10	2640	13	29 43 29 N	87 54 29 W
264013	80219	DM4	78 02 10	2640	13	29 43 29 N	87 54 29 W
264014	80210	DM4	78 02 10	2640	14	29 43 29 N	87 54 29 W
264015	80210	DM4	78 02 10	2640	15	29 43 29 N	87 54 29 W
264016	80210	DM4	78 02 10	2640	16	29 43 29 N	87 54 29 W
264045	0909	DM1	77 09 09	2640	97	29 43 29 N	87 54 42 W
264050	70908	DM1	77 09 09	2640	50	29 43 29 N	87 54 42 W
264050	71105	DM2	77 11 05	2640	50	29 43 28 N	87 54 30 W
264050	71106	DM2	77 11 06	2640	50	29 43 28 N	87 54 30 W
264050	80210	DM4	78 02 10	2640	50	29 43 29 N	87 54 29 W
264068	71106	DM2	77 11 06	2640	68	29 43 28 N	87 54 30 W
264073	71106	DM2	77 11 06	2640	73	29 43 28 N	87 54 30 W
264100	50719	13	75 07 19	2641	00	29 45 30 N	87 46 30 W
264100	51018	22	75 10 18	2641	00	29 45 24 N	87 46 24 W
264100	60209	30	76 02 09	2641	00	29 45 06 N	87 46 12 W
264101	40628	2	74 05 26	2641	01	29 45 29 N	87 46 30 W
264101	506 2	10	75 06 02	2641	01	29 45 34 N	87 46 42 W
264101	50602	10	75 06 02	2641	01	29 45 34 N	87 46 42 W
264101	50927	21	75 09 27	2641	01	29 45 30 N	87 46 30 W
264101	60118	29	76 01 18	2641	01	29 45 30 N	87 46 29 W
264101	60709	39	76 07 09	2641	01	29 45 30 N	87 46 30 W
264101	70908	DM1	77 09 08	2641	01	29 45 30 N	87 46 25 W
264101	71106	DM2	77 11 06	2641	01	29 45 28 N	87 46 29 W
264101	80210	DM4	78 02 10	2641	01	29 45 28 N	87 46 28 W
264102	40628	2	74 05 26	2641	02	29 45 29 N	87 46 30 W
264102	506 2	10	75 06 02	2641	02	29 45 34 N	87 46 42 W
264102	50602	10	75 06 02	2641	02	29 45 34 N	87 46 42 W
264102	50927	21	75 09 27	2641	02	29 45 30 N	87 46 30 W
264102	60118	29	76 01 18	2641	02	29 45 30 N	87 46 29 W
264102	60709	39	76 07 09	2641	02	29 45 30 N	87 46 30 W
264102	80210	DM4	78 02 10	2641	02	29 45 28 N	87 46 28 W
264103	506 2	10	75 06 02	2641	03	29 45 34 N	87 46 42 W
264103	50602	10	75 06 02	2641	03	29 45 34 N	87 46 42 W
264103	50927	21	75 09 27	2641	03	29 45 30 N	87 46 30 W
264103	60118	29	76 01 18	2641	03	29 45 30 N	87 46 29 W
264103	60709	39	76 07 09	2641	03	29 45 30 N	87 46 30 W
264103	80210	DM4	78 02 10	2641	03	29 45 28 N	87 46 28 W
264104	506 2	10	75 06 02	2641	04	29 45 34 N	87 46 42 W
264104	50602	10	75 06 02	2641	04	29 45 34 N	87 46 42 W
264104	50927	21	75 09 27	2641	04	29 45 30 N	87 46 30 W
264104	60118	29	76 01 18	2641	04	29 45 30 N	87 46 29 W
264104	60709	39	76 07 09	2641	04	29 45 30 N	87 46 30 W
264104	80210	DM4	78 02 10	2641	04	29 45 28 N	87 46 28 W
264105	506 2	10	75 06 02	2641	05	29 45 34 N	87 46 42 W
264105	50602	10	75 06 02	2641	05	29 45 34 N	87 46 42 W
264105	50927	21	75 09 27	2641	05	29 45 30 N	87 46 30 W
264105	60118	29	76 01 18	2641	05	29 45 30 N	87 46 29 W
264105	60709	39	76 07 09	2641	05	29 45 30 N	87 46 30 W
264105	80210	DM4	78 02 10	2641	05	29 45 28 N	87 46 28 W
264106	506 2	10	75 06 02	2641	06	29 45 34 N	87 46 42 W
264106	50602	10	75 06 02	2641	06	29 45 34 N	87 46 42 W
264106	50927	21	75 09 27	2641	06	29 45 30 N	87 46 30 W
264106	60118	29	76 01 18	2641	06	29 45 30 N	87 46 29 W
264106	60709	39	76 07 09	2641	06	29 45 30 N	87 46 30 W
264106	80210	DM4	78 02 10	2641	06	29 45 28 N	87 46 28 W

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SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
264107	506 2	10	75 06 02	2641	07	29 45 34 N	87 46 42 W
264107	50602	10	75 06 02	2641	07	29 45 34 N	87 46 42 W
264107	50927	21	75 09 27	2641	07	29 45 30 N	87 46 30 W
264107	60118	29	76 01 18	2641	07	29 45 30 N	87 46 29 W
264107	60709	39	76 07 09	2641	07	29 45 30 N	87 46 30 W
264108	40616	2	74 05 26	2641	08	29 45 29 N	87 46 30 W
264108	506 2	10	75 06 02	2641	08	29 45 34 N	87 46 42 W
264108	50602	10	75 06 02	2641	08	29 45 34 N	87 46 42 W
264108	50927	21	75 09 27	2641	08	29 45 30 N	87 46 30 W
264108	60118	29	76 01 18	2641	08	29 45 30 N	87 46 29 W
264108	60709	39	76 07 09	2641	08	29 45 30 N	87 46 30 W
264109	506 2	10	75 06 02	2641	09	29 45 34 N	87 46 42 W
264109	50602	10	75 06 02	2641	09	29 45 34 N	87 46 42 W
264109	50927	21	75 09 27	2641	09	29 45 30 N	87 46 30 W
264109	60118	29	76 01 18	2641	09	29 45 30 N	87 46 29 W
264109	60709	39	76 07 09	2641	09	29 45 30 N	87 46 30 W
264110	60709	39	76 07 09	2641	10	29 45 30 N	87 46 30 W
264111	50602	10	75 06 02	2641	11	29 45 34 N	87 46 42 W
264111	50927	21	75 09 27	2641	11	29 45 30 N	87 46 30 W
264111	60118	29	76 01 18	2641	11	29 45 30 N	87 46 29 W
264117	50601	13	75 07 19	2641	17	29 45 30 N	87 46 30 W
264117	50719	13	75 07 19	2641	17	29 45 30 N	87 46 30 W
264117	51001	22	75 10 18	2641	17	29 45 24 N	87 46 24 W
264117	51018	22	75 10 18	2641	17	29 45 24 N	87 46 24 W
264117	60201	30	76 02 09	2641	17	29 45 06 N	87 46 12 W
264117	60209	30	76 02 09	2641	17	29 45 06 N	87 46 12 W
264117	60626	40	76 06 26	2641	17	29 45 37 N	87 46 32 W
264117	60627	40	76 06 26	2641	17	29 45 37 N	87 46 32 W
264117	70906	DM1	77 09 08	2641	17	29 45 30 N	87 46 25 W
264117	70908	DM1	77 09 08	2641	17	29 45 30 N	87 46 25 W
264117	71101	DM2	77 11 01	2641	17	29 45 28 N	87 46 31 W
264117	80209	DM4	78 02 09	2641	17	29 45 30 N	87 46 32 W
264117	80902	DM4	78 02 09	2641	17	29 45 30 N	87 46 32 W
264118	50719	13	75 07 19	2641	18	29 45 30 N	87 46 30 W
264118	51018	22	75 10 18	2641	18	29 45 24 N	87 46 24 W
264118	60209	30	76 02 09	2641	18	29 45 06 N	87 46 12 W
264118	60624	40	76 06 26	2641	18	29 45 37 N	87 46 32 W
264118	60626	40	76 06 26	2641	18	29 45 37 N	87 46 32 W
264118	60627	40	76 06 26	2641	18	29 45 37 N	87 46 32 W
264118	60628	40	76 06 26	2641	18	29 45 37 N	87 46 32 W
264118	70901	DM1	77 09 08	2641	18	29 45 30 N	87 46 25 W
264118	70908	DM1	77 09 08	2641	18	29 45 30 N	87 46 25 W
264118	71101	DM2	77 11 01	2641	18	29 45 28 N	87 46 31 W
264118	80207	DM4	78 02 09	2641	18	29 45 30 N	87 46 32 W
264118	80209	DM4	78 02 09	2641	18	29 45 30 N	87 46 32 W
264119	60627	40	76 06 26	2641	19	29 45 37 N	87 46 32 W
264119	70901	DM1	77 09 08	2641	19	29 45 30 N	87 46 25 W
264119	70906	DM1	77 09 08	2641	19	29 45 30 N	87 46 25 W
264119	70908	DM1	77 09 08	2641	19	29 45 30 N	87 46 25 W
264119	71101	DM2	77 11 01	2641	19	29 45 28 N	87 46 31 W
264119	80205	DM4	78 02 09	2641	19	29 45 30 N	87 46 32 W
264119	80209	DM4	78 02 09	2641	19	29 45 30 N	87 46 32 W
264130	60626	40	76 06 26	2641	30	29 45 37 N	87 46 32 W
264130	60627	40	76 06 26	2641	30	29 45 37 N	87 46 32 W
264130	71101	DM2	77 11 01	2641	30	29 45 28 N	87 46 31 W
264131	71101	DM2	77 11 01	2641	31	29 45 28 N	87 46 31 W
264132	71101	DM2	77 11 01	2641	32	29 45 28 N	87 46 31 W
264133	71101	DM2	77 11 01	2641	33	29 45 28 N	87 46 31 W
264140	60627	40	76 06 26	2641	40	29 45 37 N	87 46 32 W
264140	71101	DM2	77 11 01	2641	40	29 45 28 N	87 46 31 W
264150	70908	DM1	77 09 08	2641	50	29 45 30 N	87 46 25 W
264150	71101	DM2	77 11 01	2641	50	29 45 28 N	87 46 31 W
264150	71106	DM2	77 11 06	2641	50	29 45 28 N	87 46 29 W
264150	80209	DM4	78 02 09	2641	50	29 45 30 N	87 46 32 W
264150	80210	DM4	78 02 10	2641	50	29 45 28 N	87 46 28 W
264166	71106	DM2	77 11 06	2641	68	29 45 28 N	87 46 29 W
264201	40628	2	74 05 27	2642	01	29 40 29 N	87 37 01 W
264201	506 2	10	75 06 02	2642	01	29 40 28 N	87 37 01 W
264201	50602	10	75 06 02	2642	01	29 40 28 N	87 37 01 W
264201	50927	21	75 09 27	2642	01	29 40 30 N	87 37 00 W
264201	60118	29	76 01 18	2642	01	29 40 30 N	87 37 00 W
264201	60709	39	76 07 09	2642	01	29 40 32 N	87 37 01 W
264202	40628	2	74 05 27	2642	02	29 40 29 N	87 37 01 W
264202	506 2	10	75 06 02	2642	02	29 40 28 N	87 37 01 W
264202	50602	10	75 06 02	2642	02	29 40 28 N	87 37 01 W

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SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
264202	50927	21	75 09 27	2642	02	29 40 30 N	87 37 00 W
264202	60118	29	76 01 18	2642	02	29 40 30 N	87 37 00 W
264202	60709	39	76 07 09	2642	02	29 40 32 N	87 37 01 W
264203	506 2	10	75 06 02	2642	03	29 40 28 N	87 37 01 W
264203	50602	10	75 06 02	2642	03	29 40 28 N	87 37 01 W
264203	50927	21	75 09 27	2642	03	29 40 30 N	87 37 00 W
264203	60118	29	76 01 18	2642	03	29 40 30 N	87 37 00 W
264203	60709	39	76 07 09	2642	03	29 40 32 N	87 37 01 W
264204	506 2	10	75 06 02	2642	04	29 40 28 N	87 37 01 W
264204	50602	10	75 06 02	2642	04	29 40 28 N	87 37 01 W
264204	50927	21	75 09 27	2642	04	29 40 30 N	87 37 00 W
264204	60118	29	76 01 18	2642	04	29 40 30 N	87 37 00 W
264204	60709	39	76 07 09	2642	04	29 40 32 N	87 37 01 W
264205	506 2	10	75 06 02	2642	05	29 40 28 N	87 37 01 W
264205	50602	10	75 06 02	2642	05	29 40 28 N	87 37 01 W
264205	50927	21	75 09 27	2642	05	29 40 30 N	87 37 00 W
264205	60118	29	76 01 18	2642	05	29 40 30 N	87 37 00 W
264205	60709	39	76 07 09	2642	05	29 40 32 N	87 37 01 W
264206	506 2	10	75 06 02	2642	06	29 40 28 N	87 37 01 W
264206	50602	10	75 06 02	2642	06	29 40 28 N	87 37 01 W
264206	50927	21	75 09 27	2642	06	29 40 30 N	87 37 00 W
264206	60118	29	76 01 18	2642	06	29 40 30 N	87 37 00 W
264206	60709	39	76 07 09	2642	06	29 40 32 N	87 37 01 W
264207	506 2	10	75 06 02	2642	07	29 40 28 N	87 37 01 W
264207	50602	10	75 06 02	2642	07	29 40 28 N	87 37 01 W
264207	50927	21	75 09 27	2642	07	29 40 30 N	87 37 00 W
264207	60118	29	76 01 18	2642	07	29 40 30 N	87 37 00 W
264207	60709	39	76 07 09	2642	07	29 40 32 N	87 37 01 W
264208	40616	2	74 05 27	2642	08	29 40 29 N	87 37 01 W
264208	506 2	10	75 06 02	2642	08	29 40 28 N	87 37 01 W
264208	50602	10	75 06 02	2642	08	29 40 28 N	87 37 01 W
264208	50927	21	75 09 27	2642	08	29 40 30 N	87 37 00 W
264208	60118	29	76 01 18	2642	08	29 40 30 N	87 37 00 W
264208	60709	39	76 07 09	2642	08	29 40 32 N	87 37 01 W
264209	506 2	10	75 06 02	2642	09	29 40 28 N	87 37 01 W
264209	50602	10	75 06 02	2642	09	29 40 28 N	87 37 01 W
264209	50927	21	75 09 27	2642	09	29 40 30 N	87 37 00 W
264209	60118	29	76 01 18	2642	09	29 40 30 N	87 37 00 W
264209	60709	39	76 07 09	2642	09	29 40 32 N	87 37 01 W
264210	60709	39	76 07 09	2642	10	29 40 32 N	87 37 01 W
264211	50602	10	75 06 02	2642	11	29 40 28 N	87 37 01 W
264211	50927	21	75 09 27	2642	11	29 40 30 N	87 37 00 W
264211	60118	29	76 01 18	2642	11	29 40 30 N	87 37 00 W
264301	40628	2	74 05 30	2643	01	29 36 30 N	87 26 57 W
264301	506 3	10	75 06 03	2643	01	29 36 24 N	87 27 08 W
264301	50603	10	75 06 03	2643	01	29 36 24 N	87 27 08 W
264301	50927	21	75 09 27	2643	01	29 36 30 N	87 27 00 W
264301	60119	29	76 01 18	2643	01	29 36 31 N	87 27 01 W
264301	60708	39	76 07 08	2643	01	29 36 30 N	87 26 53 W
264301	70908	DM1	77 09 08	2643	01	29 36 26 N	87 26 59 W
264301	71106	DM2	77 11 06	2643	01	29 36 31 N	87 27 03 W
264301	80210	DM4	78 02 11	2643	01	29 36 30 N	87 26 55 W
264301	80211	DM4	78 02 11	2643	01	29 36 30 N	87 26 55 W
264302	40628	2	74 05 30	2643	02	29 36 30 N	87 26 57 W
264302	506 3	10	75 06 03	2643	02	29 36 24 N	87 27 08 W
264302	50603	10	75 06 03	2643	02	29 36 24 N	87 27 08 W
264302	50927	21	75 09 27	2643	02	29 36 30 N	87 27 00 W
264302	60119	29	76 01 18	2643	02	29 36 31 N	87 27 01 W
264302	60708	39	76 07 08	2643	02	29 36 30 N	87 26 53 W
264302	70908	DM1	77 09 08	2643	02	29 36 26 N	87 26 59 W
264303	506 3	10	75 06 03	2643	03	29 36 24 N	87 27 08 W
264303	50603	10	75 06 03	2643	03	29 36 24 N	87 27 08 W
264303	50927	21	75 09 27	2643	03	29 36 30 N	87 27 00 W
264303	60119	29	76 01 18	2643	03	29 36 31 N	87 27 01 W
264303	60708	39	76 07 08	2643	03	29 36 30 N	87 26 53 W
264303	70908	DM1	77 09 08	2643	03	29 36 26 N	87 26 59 W
264304	506 3	10	75 06 03	2643	04	29 36 24 N	87 27 08 W
264304	50603	10	75 06 03	2643	04	29 36 24 N	87 27 08 W
264304	50927	21	75 09 27	2643	04	29 36 30 N	87 27 00 W
264304	60119	29	76 01 18	2643	04	29 36 31 N	87 27 01 W
264304	60708	39	76 07 08	2643	04	29 36 30 N	87 26 53 W
264304	70908	DM1	77 09 08	2643	04	29 36 26 N	87 26 59 W
264305	506 3	10	75 06 03	2643	05	29 36 24 N	87 27 08 W
264305	50603	10	75 06 03	2643	05	29 36 24 N	87 27 08 W
264305	50927	21	75 09 27	2643	05	29 36 30 N	87 27 00 W

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SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
264305	60119	29	76 01 18	2643	05	29 36 31 N	87 27 01 W
264305	60708	39	76 07 08	2643	05	29 36 30 N	87 26 53 W
264305	70908	DM1	77 09 08	2643	05	29 36 26 N	87 26 59 W
264306	506 3	10	75 06 03	2643	06	29 36 24 N	87 27 08 W
264306	50603	10	75 06 03	2643	06	29 36 24 N	87 27 08 W
264306	50927	21	75 09 27	2643	06	29 36 30 N	87 27 00 W
264306	60119	29	76 01 18	2643	06	29 36 31 N	87 27 01 W
264306	60708	39	76 07 08	2643	06	29 36 30 N	87 26 53 W
264306	70908	DM1	77 09 08	2643	06	29 36 26 N	87 26 59 W
264307	506 3	10	75 06 03	2643	07	29 36 24 N	87 27 08 W
264307	50603	10	75 06 03	2643	07	29 36 24 N	87 27 08 W
264307	50927	21	75 09 27	2643	07	29 36 30 N	87 27 00 W
264307	60119	29	76 01 18	2643	07	29 36 31 N	87 27 01 W
264307	60708	39	76 07 08	2643	07	29 36 30 N	87 26 53 W
264308	40616	2	74 05 30	2643	08	29 36 30 N	87 26 57 W
264308	506 3	10	75 06 03	2643	08	29 36 24 N	87 27 08 W
264308	50603	10	75 06 03	2643	08	29 36 24 N	87 27 08 W
264308	50927	21	75 09 27	2643	08	29 36 30 N	87 27 00 W
264308	60119	29	76 01 18	2643	08	29 36 31 N	87 27 01 W
264308	60708	39	76 07 08	2643	08	29 36 30 N	87 26 53 W
264309	506 3	10	75 06 03	2643	09	29 36 24 N	87 27 08 W
264309	50603	10	75 06 03	2643	09	29 36 24 N	87 27 08 W
264309	50927	21	75 09 27	2643	09	29 36 30 N	87 27 00 W
264309	60119	29	76 01 18	2643	09	29 36 31 N	87 27 01 W
264309	60708	39	76 07 08	2643	09	29 36 30 N	87 26 53 W
264310	60708	39	76 07 08	2643	10	29 36 30 N	87 26 53 W
264311	50603	10	75 06 03	2643	11	29 36 24 N	87 27 08 W
264311	50927	21	75 09 27	2643	11	29 36 30 N	87 27 00 W
264311	60119	29	76 01 18	2643	11	29 36 31 N	87 27 01 W
264317	71101	DM2	77 11 01	2643	17	29 36 26 N	87 27 01 W
264330	71101	DM2	77 11 01	2643	30	29 36 26 N	87 27 01 W
264350	70908	DM1	77 09 08	2643	50	29 36 26 N	87 26 59 W
264350	71101	DM2	77 11 01	2643	50	29 36 26 N	87 27 01 W
264350	71106	DM2	77 11 06	2643	50	29 36 31 N	87 27 03 W
264350	80210	DM4	78 02 11	2643	50	29 36 30 N	87 26 55 W
264368	71101	DM2	77 11 01	2643	68	29 36 26 N	87 27 01 W
264368	71106	DM2	77 11 06	2643	68	29 36 31 N	87 27 03 W
264401	40628	2	74 05 30	2644	01	29 36 19 N	87 23 25 W
264401	506 3	10	75 06 03	2644	01	29 36 10 N	87 23 32 W
264401	50603	10	75 06 03	2644	01	29 36 10 N	87 23 32 W
264401	50927	21	75 09 26	2644	01	29 36 12 N	87 23 30 W
264401	60119	29	76 01 19	2644	01	29 36 12 N	87 23 32 W
264401	60708	39	76 07 08	2644	01	29 36 09 N	87 23 32 W
264402	40628	2	74 05 30	2644	02	29 36 19 N	87 23 25 W
264402	506 3	10	75 06 03	2644	02	29 36 10 N	87 23 32 W
264402	50603	10	75 06 03	2644	02	29 36 10 N	87 23 32 W
264402	50927	21	75 09 26	2644	02	29 36 12 N	87 23 30 W
264402	60119	29	76 01 19	2644	02	29 36 12 N	87 23 32 W
264402	60708	39	76 07 08	2644	02	29 36 09 N	87 23 32 W
264403	506 3	10	75 06 03	2644	03	29 36 10 N	87 23 32 W
264403	50603	10	75 06 03	2644	03	29 36 10 N	87 23 32 W
264403	50927	21	75 09 26	2644	03	29 36 12 N	87 23 30 W
264403	60119	29	76 01 19	2644	03	29 36 12 N	87 23 32 W
264403	60708	39	76 07 08	2644	03	29 36 09 N	87 23 32 W
264404	506 3	10	75 06 03	2644	04	29 36 10 N	87 23 32 W
264404	50603	10	75 06 03	2644	04	29 36 10 N	87 23 32 W
264404	50927	21	75 09 26	2644	04	29 36 12 N	87 23 30 W
264404	60119	29	76 01 19	2644	04	29 36 12 N	87 23 32 W
264404	60708	39	76 07 08	2644	04	29 36 09 N	87 23 32 W
264405	506 3	10	75 06 03	2644	05	29 36 10 N	87 23 32 W
264405	50603	10	75 06 03	2644	05	29 36 10 N	87 23 32 W
264405	50927	21	75 09 26	2644	05	29 36 12 N	87 23 30 W
264405	60119	29	76 01 19	2644	05	29 36 12 N	87 23 32 W
264405	60708	39	76 07 08	2644	05	29 36 09 N	87 23 32 W
264406	506 3	10	75 06 03	2644	06	29 36 10 N	87 23 32 W
264406	50603	10	75 06 03	2644	06	29 36 10 N	87 23 32 W
264406	50927	21	75 09 26	2644	06	29 36 12 N	87 23 30 W
264406	60119	29	76 01 19	2644	06	29 36 12 N	87 23 32 W
264406	60708	39	76 07 08	2644	06	29 36 09 N	87 23 32 W
264407	506 3	10	75 06 03	2644	07	29 36 10 N	87 23 32 W
264407	50603	10	75 06 03	2644	07	29 36 10 N	87 23 32 W
264407	50927	21	75 09 26	2644	07	29 36 12 N	87 23 30 W
264407	60119	29	76 01 19	2644	07	29 36 12 N	87 23 32 W
264407	60708	39	76 07 08	2644	07	29 36 09 N	87 23 32 W
264408	40616	2	74 05 30	2644	08	29 36 19 N	87 23 25 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
264408	506 3	10	75 06 03	2644	08	29 38 10 N	87 23 32 W
264408	50603	10	75 06 03	2644	08	29 38 10 N	87 23 32 W
264408	50927	21	75 09 26	2644	08	29 38 12 N	87 23 30 W
264408	60119	29	76 01 19	2644	08	29 38 12 N	87 23 32 W
264408	60708	39	76 07 08	2644	08	29 38 09 N	87 23 32 W
264409	506 3	10	75 06 03	2644	09	29 38 10 N	87 23 32 W
264409	50603	10	75 06 03	2644	09	29 38 10 N	87 23 32 W
264409	50927	21	75 09 26	2644	09	29 38 12 N	87 23 30 W
264409	60119	29	76 01 19	2644	09	29 38 12 N	87 23 32 W
264409	60708	39	76 07 08	2644	09	29 38 09 N	87 23 32 W
264410	60708	39	76 07 08	2644	10	29 38 09 N	87 23 32 W
264411	50603	10	75 06 03	2644	11	29 38 10 N	87 23 32 W
264411	50927	21	75 09 26	2644	11	29 38 12 N	87 23 30 W
264411	60119	29	76 01 19	2644	11	29 38 12 N	87 23 32 W
2645	70908	DM1	77 09 08	2645	01	29 35 00 N	87 20 01 W
264501	506 3	10	75 06 03	2645	01	29 35 00 N	87 19 59 W
264501	50603	10	75 06 03	2645	01	29 35 00 N	87 19 59 W
264501	50926	21	75 09 26	2645	01	29 35 00 N	87 20 06 W
264501	60119	29	76 01 19	2645	01	29 36 12 N	87 23 32 W
264501	60708	39	76 07 08	2645	01	29 34 54 N	87 20 00 W
264501	70908	DM1	77 09 08	2645	01	29 35 00 N	87 20 01 W
264501	71106	DM2	77 11 06	2645	01	29 35 02 N	87 20 01 W
264501	80211	DM4	78 02 11	2645	01	29 35 02 N	87 20 06 W
264502	506 3	10	75 06 03	2645	02	29 35 00 N	87 19 59 W
264502	50603	10	75 06 03	2645	02	29 35 00 N	87 19 59 W
264502	50926	21	75 09 26	2645	02	29 35 00 N	87 20 06 W
264502	60119	29	76 01 19	2645	02	29 36 12 N	87 23 32 W
264502	60708	39	76 07 08	2645	02	29 34 54 N	87 20 00 W
264502	70908	DM1	77 09 08	2645	02	29 35 00 N	87 20 01 W
264502	71106	DM2	77 11 06	2645	02	29 35 02 N	87 20 01 W
264502	80211	DM4	78 02 11	2645	02	29 35 02 N	87 20 06 W
264503	506 3	10	75 06 03	2645	03	29 35 00 N	87 19 59 W
264503	50603	10	75 06 03	2645	03	29 35 00 N	87 19 59 W
264503	50926	21	75 09 26	2645	03	29 35 00 N	87 20 06 W
264503	60119	29	76 01 19	2645	03	29 36 12 N	87 23 32 W
264503	60708	39	76 07 08	2645	03	29 34 54 N	87 20 00 W
264503	70908	DM1	77 09 08	2645	03	29 35 00 N	87 20 01 W
264503	71106	DM2	77 11 06	2645	03	29 35 02 N	87 20 01 W
264503	71107	DM2	77 11 06	2645	03	29 35 02 N	87 20 01 W
264503	80211	DM4	78 02 11	2645	03	29 35 02 N	87 20 06 W
264504	506 3	10	75 06 03	2645	04	29 35 00 N	87 19 59 W
264504	50603	10	75 06 03	2645	04	29 35 00 N	87 19 59 W
264504	50926	21	75 09 26	2645	04	29 35 00 N	87 20 06 W
264504	60119	29	76 01 19	2645	04	29 36 12 N	87 23 32 W
264504	60708	39	76 07 08	2645	04	29 34 54 N	87 20 00 W
264504	70908	DM1	77 09 08	2645	04	29 35 00 N	87 20 01 W
264504	71106	DM2	77 11 06	2645	04	29 35 02 N	87 20 01 W
264504	71107	DM2	77 11 06	2645	04	29 35 02 N	87 20 01 W
264504	80211	DM4	78 02 11	2645	04	29 35 02 N	87 20 06 W
264505	506 3	10	75 06 03	2645	05	29 35 00 N	87 19 59 W
264505	50603	10	75 06 03	2645	05	29 35 00 N	87 19 59 W
264505	50926	21	75 09 26	2645	05	29 35 00 N	87 20 06 W
264505	60119	29	76 01 19	2645	05	29 36 12 N	87 23 32 W
264505	60708	39	76 07 08	2645	05	29 34 54 N	87 20 00 W
264505	70908	DM1	77 09 08	2645	05	29 35 00 N	87 20 01 W
264505	71106	DM2	77 11 06	2645	05	29 35 02 N	87 20 01 W
264505	71107	DM2	77 11 06	2645	05	29 35 02 N	87 20 01 W
264505	80211	DM4	78 02 11	2645	05	29 35 02 N	87 20 06 W
264506	506 3	10	75 06 03	2645	06	29 35 00 N	87 19 59 W
264506	50603	10	75 06 03	2645	06	29 35 00 N	87 19 59 W
264506	50926	21	75 09 26	2645	06	29 35 00 N	87 20 06 W
264506	60119	29	76 01 19	2645	06	29 36 12 N	87 23 32 W
264506	60708	39	76 07 08	2645	06	29 34 54 N	87 20 00 W
264506	70908	DM1	77 09 08	2645	06	29 35 00 N	87 20 01 W
264506	71106	DM2	77 11 06	2645	06	29 35 02 N	87 20 01 W
264506	71107	DM2	77 11 06	2645	06	29 35 02 N	87 20 01 W
264506	80211	DM4	78 02 11	2645	06	29 35 02 N	87 20 06 W
264507	506 3	10	75 06 03	2645	07	29 35 00 N	87 19 59 W
264507	50603	10	75 06 03	2645	07	29 35 00 N	87 19 59 W
264507	50926	21	75 09 26	2645	07	29 35 00 N	87 20 06 W
264507	60119	29	76 01 19	2645	07	29 36 12 N	87 23 32 W
264507	60708	39	76 07 08	2645	07	29 34 54 N	87 20 00 W
264507	70908	DM1	77 09 08	2645	07	29 35 00 N	87 20 01 W
264507	71106	DM2	77 11 07	2645	07	29 35 02 N	87 20 01 W
264507	71107	DM2	77 11 07	2645	07	29 35 02 N	87 20 01 W

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SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
264507	80211	DM4	78 02 11	2645 07	29 35 02 N	87 20 06 W
264508	506 3	10	75 06 03	2645 08	29 35 00 N	87 19 59 W
264508	50603	10	75 06 03	2645 08	29 35 00 N	87 19 59 W
264508	50926	21	75 09 26	2645 08	29 35 00 N	87 20 06 W
264508	60119	29	76 01 19	2645 08	29 36 12 N	87 23 32 W
264508	60708	39	76 07 08	2645 08	29 34 54 N	87 20 00 W
264508	70908	DM1	77 09 08	2645 08	29 35 00 N	87 20 01 W
264508	71106	DM2	77 11 07	2645 08	29 35 02 N	87 20 01 W
264508	71107	DM2	77 11 07	2645 08	29 35 02 N	87 20 01 W
264508	80211	DM4	78 02 11	2645 08	29 35 02 N	87 20 06 W
264509	506 3	10	75 06 03	2645 09	29 35 00 N	87 19 59 W
264509	50603	10	75 06 03	2645 09	29 35 00 N	87 19 59 W
264509	50926	21	75 09 26	2645 09	29 35 00 N	87 20 06 W
264509	60119	29	76 01 19	2645 09	29 36 12 N	87 23 32 W
264509	60708	39	76 07 08	2645 09	29 34 54 N	87 20 00 W
264509	70908	DM1	77 09 08	2645 09	29 35 00 N	87 20 01 W
264509	71106	DM2	77 11 07	2645 09	29 35 02 N	87 20 01 W
264509	71107	DM2	77 11 07	2645 09	29 35 02 N	87 20 01 W
264509	80211	DM4	78 02 11	2645 09	29 35 02 N	87 20 06 W
264510	60708	39	76 07 08	2645 10	29 34 54 N	87 20 00 W
264510	70908	DM1	77 09 08	2645 10	29 35 00 N	87 20 01 W
264510	71106	DM2	77 11 07	2645 10	29 35 02 N	87 20 01 W
264510	71107	DM2	77 11 07	2645 10	29 35 02 N	87 20 01 W
264510	80211	DM4	78 02 11	2645 10	29 35 02 N	87 20 06 W
264511	50603	10	75 06 03	2645 11	29 35 00 N	87 19 59 W
264511	50926	21	75 09 26	2645 11	29 35 00 N	87 20 06 W
264511	60119	29	76 01 19	2645 11	29 36 12 N	87 23 32 W
264511	70908	DM1	77 09 08	2645 11	29 35 00 N	87 20 01 W
264511	71106	DM2	77 11 07	2645 11	29 35 02 N	87 20 01 W
264511	71107	DM2	77 11 07	2645 11	29 35 02 N	87 20 01 W
264511	80211	DM4	78 02 11	2645 11	29 35 02 N	87 20 06 W
264512	70908	DM1	77 09 08	2645 12	29 35 00 N	87 20 01 W
264513	70908	DM1	77 09 08	2645 13	29 35 00 N	87 20 01 W
264514	70908	DM1	77 09 08	2645 14	29 35 00 N	87 20 01 W
264515	70908	DM1	77 09 08	2645 15	29 35 00 N	87 20 01 W
264516	70908	DM1	77 09 08	2645 16	29 35 00 N	87 20 01 W
264517	60627	40	76 06 27	0008 17	29 32 51 N	87 23 43 W
264517	70906	DM1	77 09 08	2645 17	29 35 00 N	87 20 01 W
264517	70908	DM1	77 09 08	2645 17	29 35 00 N	87 20 01 W
264517	80208	DM4	78 02 08	2645 17	29 34 59 N	87 20 07 W
264518	60627	40	76 06 27	0008 18	29 32 51 N	87 23 43 W
264518	60713	40	76 06 27	0008 18	29 32 51 N	87 23 43 W
264518	60727	40	76 06 27	0008 18	29 32 51 N	87 23 43 W
264518	60827	40	76 06 27	0008 18	29 32 51 N	87 23 43 W
264518	70908	DM1	77 09 08	2645 18	29 35 00 N	87 20 01 W
264518	80201	DM4	78 02 08	2645 18	29 34 59 N	87 20 07 W
264518	80208	DM4	78 02 08	2645 18	29 34 59 N	87 20 07 W
264519	60627	40	76 06 27	0008 19	29 32 51 N	87 23 43 W
264519	70908	DM1	77 09 08	2645 19	29 35 00 N	87 20 01 W
264519	80208	DM4	78 02 08	2645 19	29 34 59 N	87 20 07 W
264530	60627	40	76 06 27	0008 30	29 32 51 N	87 23 43 W
264530	70908	DM1	77 09 08	2645 30	29 35 00 N	87 20 01 W
264530	80208	DM4	78 02 08	2645 30	29 34 59 N	87 20 07 W
264530	80802	DM4	78 02 08	2645 30	29 34 59 N	87 20 07 W
264540	60827	40	76 06 27	0008 40	29 32 51 N	87 23 43 W
264540	70907	DM1	77 09 08	2645 40	29 35 00 N	87 20 01 W
264540	70908	DM1	77 09 08	2645 40	29 35 00 N	87 20 01 W
264550	70908	DM1	77 09 08	2645 50	29 35 00 N	87 20 01 W
264550	71106	DM2	77 11 06	2645 50	29 35 02 N	87 20 01 W
264550	80208	DM4	78 02 08	2645 50	29 34 59 N	87 20 07 W
264550	80211	DM4	78 02 11	2645 50	29 35 02 N	87 20 06 W
264573	71106	DM2	77 11 06	2645 73	29 35 02 N	87 20 01 W
264630	71030	DM2	77 10 30	2426 30	28 57 55 N	85 23 04 W
264605	80210	DM4	78 02 10	2638 05	29 55 52 N	88 33 39 W
274601	60628	39	76 06 28	2746 01	27 04 07 N	84 13 55 W
274601	70823	DM1	77 08 23	2746 01	27 03 29 N	84 13 37 W
274601	71115	DM2	77 11 15	2746 01	27 03 30 N	84 13 48 W
274601	80217	DM4	78 02 17	2746 01	27 03 30 N	84 13 50 W
274602	60628	39	76 06 28	2746 02	27 04 07 N	84 13 55 W
274602	70823	DM1	77 08 23	2746 02	27 03 29 N	84 13 37 W
274602	71115	DM2	77 11 15	2746 02	27 03 30 N	84 13 48 W
274602	80217	DM4	78 02 17	2746 02	27 03 30 N	84 13 50 W
274603	60628	39	76 06 28	2746 03	27 04 07 N	84 13 55 W
274603	70823	DM1	77 08 23	2746 03	27 03 29 N	84 13 37 W
274603	71115	DM2	77 11 15	2746 03	27 03 30 N	84 13 48 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
274603	80217	DM4	78 02 17	2746	03	27 03 30 N	84 13 50 W
274604	80628	39	76 06 28	2746	04	27 04 07 N	84 13 55 W
274604	70823	DM1	77 08 23	2746	04	27 03 29 N	84 13 37 W
274604	71115	DM2	77 11 15	2746	04	27 03 30 N	84 13 48 W
274604	80217	DM4	78 02 17	2746	04	27 03 30 N	84 13 50 W
274605	80628	39	76 06 28	2746	05	27 04 07 N	84 13 55 W
274605	70823	DM1	77 08 23	2746	05	27 03 29 N	84 13 37 W
274605	71115	DM2	77 11 15	2746	05	27 03 30 N	84 13 48 W
274605	80217	DM4	78 02 17	2746	05	27 03 30 N	84 13 50 W
274606	80628	39	76 06 28	2746	06	27 04 07 N	84 13 55 W
274606	70823	DM1	77 08 23	2746	06	27 03 29 N	84 13 37 W
274606	71115	DM2	77 11 15	2746	06	27 03 30 N	84 13 48 W
274606	80217	DM4	78 02 17	2746	06	27 03 30 N	84 13 50 W
274607	80628	39	76 06 28	2746	07	27 04 07 N	84 13 55 W
274607	70823	DM1	77 08 23	2746	07	27 03 29 N	84 13 37 W
274607	71115	DM2	77 11 15	2746	07	27 03 30 N	84 13 48 W
274607	80217	DM4	78 02 17	2746	07	27 03 30 N	84 13 50 W
274608	80628	39	76 06 28	2746	08	27 04 07 N	84 13 55 W
274608	70823	DM1	77 08 23	2746	08	27 03 29 N	84 13 37 W
274608	71115	DM2	77 11 15	2746	08	27 03 30 N	84 13 48 W
274608	80217	DM4	78 02 17	2746	08	27 03 30 N	84 13 50 W
274609	80628	39	76 06 28	2746	09	27 04 07 N	84 13 55 W
274609	70823	DM1	77 08 23	2746	09	27 03 29 N	84 13 37 W
274609	71115	DM2	77 11 15	2746	09	27 03 30 N	84 13 48 W
274609	80217	DM4	78 02 17	2746	09	27 03 30 N	84 13 50 W
274610	80628	39	76 06 28	2746	10	27 04 07 N	84 13 55 W
274610	70823	DM1	77 08 23	2746	10	27 03 29 N	84 13 37 W
274610	71115	DM2	77 11 15	2746	10	27 03 30 N	84 13 48 W
274610	80217	DM4	78 02 17	2746	10	27 03 30 N	84 13 50 W
274611	80628	39	76 06 28	2746	11	27 04 07 N	84 13 55 W
274611	70823	DM1	77 08 23	2746	11	27 03 29 N	84 13 37 W
274611	71115	DM2	77 11 15	2746	11	27 03 30 N	84 13 48 W
274611	80217	DM4	78 02 17	2746	11	27 03 30 N	84 13 50 W
274612	80628	39	76 06 28	2746	12	27 04 07 N	84 13 55 W
274613	80628	39	76 06 28	2746	13	27 04 07 N	84 13 55 W
274614	80628	39	76 06 28	2746	14	27 04 07 N	84 13 55 W
274615	80628	39	76 06 28	2746	15	27 04 07 N	84 13 55 W
274616	80628	39	76 06 28	2746	16	27 04 07 N	84 13 55 W
274617	80628	39	76 06 28	2746	17	27 04 07 N	84 13 55 W
274650	70823	DM1	77 08 23	2746	50	27 03 29 N	84 13 37 W
274650	71115	DM2	77 11 15	2746	50	27 03 30 N	84 13 48 W
274650	80217	DM4	78 02 17	2746	50	27 03 30 N	84 13 50 W
274668	71115	DM2	77 11 15	2746	68	27 03 30 N	84 13 48 W
274673	71115	DM2	77 11 15	2746	73	27 03 30 N	84 13 48 W
274701	80628	39	76 06 28	2747	01	27 24 10 N	84 07 18 W
274701	70823	DM1	77 08 23	2747	01	27 24 11 N	84 07 11 W
274701	71115	DM2	77 11 15	2747	01	27 24 12 N	84 07 18 W
274701	80217	DM4	78 02 17	2747	01	27 24 16 N	84 07 25 W
274702	80628	39	76 06 28	2747	02	27 24 10 N	84 07 18 W
274702	70823	DM1	77 08 23	2747	02	27 24 11 N	84 07 11 W
274702	71115	DM2	77 11 15	2747	02	27 24 12 N	84 07 18 W
274702	80217	DM4	78 02 17	2747	02	27 24 16 N	84 07 25 W
274703	80628	39	76 06 28	2747	03	27 24 10 N	84 07 18 W
274703	70823	DM1	77 08 23	2747	03	27 24 11 N	84 07 11 W
274703	71108	DM2	77 11 15	2747	03	27 24 12 N	84 07 18 W
274703	71115	DM2	77 11 15	2747	03	27 24 12 N	84 07 18 W
274703	80217	DM4	78 02 17	2747	03	27 24 16 N	84 07 25 W
274704	80628	39	76 06 28	2747	04	27 24 10 N	84 07 18 W
274704	70823	DM1	77 08 23	2747	04	27 24 11 N	84 07 11 W
274704	71108	DM2	77 11 15	2747	04	27 24 12 N	84 07 18 W
274704	71115	DM2	77 11 15	2747	04	27 24 12 N	84 07 18 W
274704	80217	DM4	78 02 17	2747	04	27 24 16 N	84 07 25 W
274705	80628	39	76 06 28	2747	05	27 24 10 N	84 07 18 W
274705	70823	DM1	77 08 23	2747	05	27 24 11 N	84 07 11 W
274705	71108	DM2	77 11 15	2747	05	27 24 12 N	84 07 18 W
274705	71115	DM2	77 11 15	2747	05	27 24 12 N	84 07 18 W
274705	80217	DM4	78 02 17	2747	05	27 24 16 N	84 07 25 W
274706	80628	39	76 06 28	2747	06	27 24 10 N	84 07 18 W
274706	70822	DM1	77 08 23	2747	06	27 24 11 N	84 07 11 W
274706	70823	DM1	77 08 23	2747	06	27 24 11 N	84 07 11 W
274706	71108	DM2	77 11 15	2747	06	27 24 12 N	84 07 18 W
274706	71115	DM2	77 11 15	2747	06	27 24 12 N	84 07 18 W
274706	80217	DM4	78 02 17	2747	06	27 24 16 N	84 07 25 W
274707	80628	39	76 06 28	2747	07	27 24 10 N	84 07 18 W
274707	70823	DM1	77 08 23	2747	07	27 24 11 N	84 07 11 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
274707	71108	DM2	77 11 15	2747	07	27 24 12 N	84 07 18 W
274707	71115	DM2	77 11 15	2747	07	27 24 12 N	84 07 18 W
274707	80217	DM4	78 02 17	2747	07	27 24 16 N	84 07 25 W
274708	60628	39	76 06 28	2747	08	27 24 10 N	84 07 18 W
274708	70823	DM1	77 08 23	2747	08	27 24 11 N	84 07 11 W
274708	71108	DM2	77 11 15	2747	08	27 24 12 N	84 07 18 W
274708	71115	DM2	77 11 15	2747	08	27 24 12 N	84 07 18 W
274708	80217	DM4	78 02 17	2747	08	27 24 16 N	84 07 25 W
274709	60628	39	76 06 28	2747	09	27 24 10 N	84 07 18 W
274709	70823	DM1	77 08 23	2747	09	27 24 11 N	84 07 11 W
274709	71108	DM2	77 11 15	2747	09	27 24 12 N	84 07 18 W
274709	71115	DM2	77 11 15	2747	09	27 24 12 N	84 07 18 W
274709	80217	DM4	78 02 17	2747	09	27 24 16 N	84 07 25 W
274710	60628	39	76 06 28	2747	10	27 24 10 N	84 07 18 W
274710	70823	DM1	77 08 23	2747	10	27 24 11 N	84 07 11 W
274710	71108	DM2	77 11 15	2747	10	27 24 12 N	84 07 18 W
274710	71115	DM2	77 11 15	2747	10	27 24 12 N	84 07 18 W
274710	80217	DM4	78 02 17	2747	10	27 24 16 N	84 07 25 W
274711	60628	39	76 06 28	2747	11	27 24 10 N	84 07 18 W
274711	70822	DM1	77 08 23	2747	11	27 24 11 N	84 07 11 W
274711	70823	DM1	77 08 23	2747	11	27 24 11 N	84 07 11 W
274711	71108	DM2	77 11 15	2747	11	27 24 12 N	84 07 18 W
274711	71115	DM2	77 11 15	2747	11	27 24 12 N	84 07 18 W
274711	80217	DM4	78 02 17	2747	11	27 24 16 N	84 07 25 W
274712	60628	39	76 06 28	2747	12	27 24 10 N	84 07 18 W
274713	60628	39	76 06 28	2747	13	27 24 10 N	84 07 18 W
274714	60628	39	76 06 28	2747	14	27 24 10 N	84 07 18 W
274715	60628	39	76 06 28	2747	15	27 24 10 N	84 07 18 W
274716	60628	39	76 06 28	2747	16	27 24 10 N	84 07 18 W
274717	60711	46	76 07 17	2747	17	27 23 59 N	84 07 04 W
274717	60717	46	76 07 17	2747	17	27 23 59 N	84 07 04 W
274717	60718	46	76 07 17	2747	17	27 23 59 N	84 07 04 W
274717	60802	43	76 08 02	2747	17	27 24 00 N	84 07 00 W
274717	60803	43	76 08 03	2747	17	27 24 00 N	84 07 00 W
274717	60804	43	76 08 04	2747	17	27 24 00 N	84 07 00 W
274717	60805	43	76 08 05	2747	17	27 24 00 N	84 07 00 W
274717	60806	43	76 08 06	2747	17	27 24 00 N	84 07 00 W
274717	60807	43	76 08 07	2747	17	27 24 00 N	84 07 00 W
274717	70823	DM1	77 08 23	2747	17	27 24 11 N	84 07 11 W
274717	71026	DM2	77 10 26	2747	17	27 24 13 N	84 07 11 W
274717	71030	DM2	77 10 26	2747	17	27 24 13 N	84 07 11 W
274717	71036	DM2	77 10 26	2747	17	27 24 13 N	84 07 11 W
274717	80203	DM4	78 02 03	2747	17	27 23 37 N	84 07 42 W
274718	60716	46	76 07 17	2747	18	27 23 59 N	84 07 04 W
274718	60717	46	76 07 17	2747	18	27 23 59 N	84 07 04 W
274718	70822	DM1	77 08 23	2747	18	27 24 11 N	84 07 11 W
274718	70823	DM1	77 08 23	2747	18	27 24 11 N	84 07 11 W
274718	71026	DM2	77 10 26	2747	18	27 24 13 N	84 07 11 W
274718	71029	DM2	77 10 26	2747	18	27 24 13 N	84 07 11 W
274718	80203	DM4	78 02 03	2747	18	27 23 37 N	84 07 42 W
274719	60711	46	76 07 17	2747	19	27 23 59 N	84 07 04 W
274719	60717	46	76 07 17	2747	19	27 23 59 N	84 07 04 W
274719	70823	DM1	77 08 23	2747	19	27 24 11 N	84 07 11 W
274719	71026	DM2	77 10 26	2747	19	27 24 13 N	84 07 11 W
274719	71206	DM2	77 10 26	2747	19	27 24 13 N	84 07 11 W
274719	80203	DM4	78 02 03	2747	19	27 23 37 N	84 07 42 W
274720	70823	DM1	77 08 23	2747	20	27 24 11 N	84 07 11 W
274730	60717	46	76 07 17	2747	30	27 23 59 N	84 07 04 W
274730	60802	43	76 08 02	2747	30	27 24 00 N	84 07 00 W
274730	60803	43	76 08 03	2747	30	27 24 00 N	84 07 00 W
274730	60804	43	76 08 04	2747	30	27 24 00 N	84 07 00 W
274730	60805	43	76 08 05	2747	30	27 24 00 N	84 07 00 W
274730	60806	43	76 08 06	2747	30	27 24 00 N	84 07 00 W
274730	60807	43	76 08 07	2747	30	27 24 00 N	84 07 00 W
274730	71030	DM2	77 10 26	2747	30	27 24 13 N	84 07 11 W
274731	60717	46	76 07 17	2747	31	27 23 59 N	84 07 04 W
274731	60802	43	76 08 02	2747	31	27 24 00 N	84 07 00 W
274731	60803	43	76 08 03	2747	31	27 24 00 N	84 07 00 W
274731	60804	43	76 08 04	2747	31	27 24 00 N	84 07 00 W
274731	60805	43	76 08 05	2747	31	27 24 00 N	84 07 00 W
274731	60806	43	76 08 06	2747	31	27 24 00 N	84 07 00 W
274731	60807	43	76 08 07	2747	31	27 24 00 N	84 07 00 W
274732	60717	46	76 07 17	2747	32	27 23 59 N	84 07 04 W
274732	60802	43	76 08 02	2747	32	27 24 00 N	84 07 00 W
274732	60803	43	76 08 03	2747	32	27 24 00 N	84 07 00 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
274732	60804	43	76 08 04	2747	32	27 24 00 N 84 07 00 W
274732	60805	43	76 08 05	2747	32	27 24 00 N 84 07 00 W
274732	60806	43	76 08 06	2747	32	27 24 00 N 84 07 00 W
274732	60807	43	76 08 07	2747	32	27 24 00 N 84 07 00 W
274733	60803	43	76 08 03	2747	33	27 24 00 N 84 07 00 W
274733	60804	43	76 08 04	2747	33	27 24 00 N 84 07 00 W
274733	60805	43	76 08 05	2747	33	27 24 00 N 84 07 00 W
274733	60806	43	76 08 06	2747	33	27 24 00 N 84 07 00 W
274734	60803	43	76 08 03	2747	34	27 24 00 N 84 07 00 W
274734	60804	43	76 08 04	2747	34	27 24 00 N 84 07 00 W
274734	60805	43	76 08 05	2747	34	27 24 00 N 84 07 00 W
274734	60806	43	76 08 06	2747	34	27 24 00 N 84 07 00 W
274735	60803	43	76 08 03	2747	35	27 24 00 N 84 07 00 W
274735	60804	43	76 08 04	2747	35	27 24 00 N 84 07 00 W
274735	60805	43	76 08 05	2747	35	27 24 00 N 84 07 00 W
274735	60806	43	76 08 06	2747	35	27 24 00 N 84 07 00 W
274736	60803	43	76 08 03	2747	36	27 24 00 N 84 07 00 W
274736	60804	43	76 08 04	2747	36	27 24 00 N 84 07 00 W
274736	60805	43	76 08 05	2747	36	27 24 00 N 84 07 00 W
274736	60806	43	76 08 06	2747	36	27 24 00 N 84 07 00 W
274740	60717	46	76 07 17	2747	40	27 23 59 N 84 07 04 W
274750	60802	43	76 08 02	2747	50	27 24 00 N 84 07 00 W
274750	60803	43	76 08 03	2747	50	27 24 00 N 84 07 00 W
274750	60804	43	76 08 04	2747	50	27 24 00 N 84 07 00 W
274750	60805	43	76 08 05	2747	50	27 24 00 N 84 07 00 W
274750	60806	43	76 08 06	2747	50	27 24 00 N 84 07 00 W
274750	70823	DM1	77 08 23	2747	50	27 24 11 N 84 07 11 W
274750	71026	DM2	77 10 26	2747	50	27 24 13 N 84 07 11 W
274750	71028	DM2	77 10 26	2747	50	27 24 13 N 84 07 11 W
274750	71115	DM2	77 11 15	2747	50	27 24 12 N 84 07 18 W
274750	80202	DM3	78 02 02	2747	50	27 24 00 N 84 07 00 W
274750	80203	DM3	78 02 03	2747	50	27 24 00 N 84 07 00 W
274750	80204	DM3	78 02 04	2747	50	27 24 00 N 84 07 00 W
274750	80205	DM3	78 02 05	2747	50	27 24 00 N 84 07 00 W
274750	80206	DM3	78 02 06	2747	50	27 24 00 N 84 07 00 W
274750	80217	DM4	78 02 17	2747	50	27 24 16 N 84 07 25 W
274751	60802	43	76 08 02	2747	51	27 24 00 N 84 07 00 W
274751	60803	43	76 08 03	2747	51	27 24 00 N 84 07 00 W
274751	60804	43	76 08 04	2747	51	27 24 00 N 84 07 00 W
274751	60805	43	76 08 05	2747	51	27 24 00 N 84 07 00 W
274751	60806	43	76 08 06	2747	51	27 24 00 N 84 07 00 W
274751	71026	DM2	77 10 26	2747	51	27 24 13 N 84 07 11 W
274751	71028	DM2	77 10 26	2747	51	27 24 13 N 84 07 11 W
274751	80202	DM3	78 02 02	2747	51	27 24 00 N 84 07 00 W
274751	80203	DM3	78 02 03	2747	51	27 24 00 N 84 07 00 W
274751	80204	DM3	78 02 04	2747	51	27 24 00 N 84 07 00 W
274751	80205	DM3	78 02 05	2747	51	27 24 00 N 84 07 00 W
274751	80206	DM3	78 02 06	2747	51	27 24 00 N 84 07 00 W
274752	60802	43	76 08 02	2747	52	27 24 00 N 84 07 00 W
274752	60803	43	76 08 03	2747	52	27 24 00 N 84 07 00 W
274752	60804	43	76 08 04	2747	52	27 24 00 N 84 07 00 W
274752	60805	43	76 08 05	2747	52	27 24 00 N 84 07 00 W
274752	60806	43	76 08 06	2747	52	27 24 00 N 84 07 00 W
274752	71026	DM2	77 10 26	2747	52	27 24 13 N 84 07 11 W
274752	71028	DM2	77 10 26	2747	52	27 24 13 N 84 07 11 W
274752	80203	DM3	78 02 03	2747	52	27 24 00 N 84 07 00 W
274752	80204	DM3	78 02 04	2747	52	27 24 00 N 84 07 00 W
274752	80205	DM3	78 02 05	2747	52	27 24 00 N 84 07 00 W
274752	80206	DM3	78 02 06	2747	52	27 24 00 N 84 07 00 W
274752	80207	DM3	78 02 07	2747	52	27 24 00 N 84 07 00 W
274753	60802	43	76 08 02	2747	53	27 24 00 N 84 07 00 W
274753	60803	43	76 08 03	2747	53	27 24 00 N 84 07 00 W
274753	60804	43	76 08 04	2747	53	27 24 00 N 84 07 00 W
274753	60805	43	76 08 05	2747	53	27 24 00 N 84 07 00 W
274753	60806	43	76 08 06	2747	53	27 24 00 N 84 07 00 W
274753	71026	DM2	77 10 26	2747	53	27 24 13 N 84 07 11 W
274753	71028	DM2	77 10 26	2747	53	27 24 13 N 84 07 11 W
274753	80203	DM3	78 02 03	2747	53	27 24 00 N 84 07 00 W
274753	80204	DM3	78 02 04	2747	53	27 24 00 N 84 07 00 W
274753	80205	DM3	78 02 05	2747	53	27 24 00 N 84 07 00 W
274753	80206	DM3	78 02 06	2747	53	27 24 00 N 84 07 00 W
274753	80207	DM3	78 02 07	2747	53	27 24 00 N 84 07 00 W
274754	60803	43	76 08 03	2747	54	27 24 00 N 84 07 00 W
274754	60804	43	76 08 04	2747	54	27 24 00 N 84 07 00 W
274754	60805	43	76 08 05	2747	54	27 24 00 N 84 07 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
274754	60806	43	76 08 06	2747	54	27 24 00 N	84 07 00 W
274754	71026	DM2	77 10 26	2747	54	27 24 13 N	84 07 11 W
274754	71028	DM2	77 10 26	2747	54	27 24 13 N	84 07 11 W
274754	80203	DM3	78 02 03	2747	54	27 24 00 N	84 07 00 W
274754	80204	DM3	78 02 04	2747	54	27 24 00 N	84 07 00 W
274754	80205	DM3	78 02 05	2747	54	27 24 00 N	84 07 00 W
274754	80206	DM3	78 02 06	2747	54	27 24 00 N	84 07 00 W
274754	80207	DM3	78 02 07	2747	54	27 24 00 N	84 07 00 W
274755	60803	43	76 08 03	2747	55	27 24 00 N	84 07 00 W
274755	60804	43	76 08 04	2747	55	27 24 00 N	84 07 00 W
274755	60805	43	76 08 05	2747	55	27 24 00 N	84 07 00 W
274755	60806	43	76 08 06	2747	55	27 24 00 N	84 07 00 W
274755	71026	DM2	77 10 26	2747	55	27 24 13 N	84 07 11 W
274755	71028	DM2	77 10 26	2747	55	27 24 13 N	84 07 11 W
274755	80203	DM3	78 02 03	2747	55	27 24 00 N	84 07 00 W
274755	80204	DM3	78 02 04	2747	55	27 24 00 N	84 07 00 W
274755	80205	DM3	78 02 05	2747	55	27 24 00 N	84 07 00 W
274755	80206	DM3	78 02 06	2747	55	27 24 00 N	84 07 00 W
274755	80207	DM3	78 02 07	2747	55	27 24 00 N	84 07 00 W
274756	60803	43	76 08 03	2747	56	27 24 00 N	84 07 00 W
274756	60804	43	76 08 04	2747	56	27 24 00 N	84 07 00 W
274756	60805	43	76 08 05	2747	56	27 24 00 N	84 07 00 W
274756	60806	43	76 08 06	2747	56	27 24 00 N	84 07 00 W
274756	71026	DM2	77 10 26	2747	56	27 24 13 N	84 07 11 W
274756	71028	DM2	77 10 26	2747	56	27 24 13 N	84 07 11 W
274756	80203	DM3	78 02 03	2747	56	27 24 00 N	84 07 00 W
274756	80204	DM3	78 02 04	2747	56	27 24 00 N	84 07 00 W
274756	80205	DM3	78 02 05	2747	56	27 24 00 N	84 07 00 W
274756	80206	DM3	78 02 06	2747	56	27 24 00 N	84 07 00 W
274756	80207	DM3	78 02 07	2747	56	27 24 00 N	84 07 00 W
274757	60803	43	76 08 03	2747	57	27 24 00 N	84 07 00 W
274757	60804	43	76 08 04	2747	57	27 24 00 N	84 07 00 W
274757	60805	43	76 08 05	2747	57	27 24 00 N	84 07 00 W
274757	60806	43	76 08 06	2747	57	27 24 00 N	84 07 00 W
274757	71026	DM2	77 10 26	2747	57	27 24 13 N	84 07 11 W
274757	71028	DM2	77 10 26	2747	57	27 24 13 N	84 07 11 W
274757	80203	DM3	78 02 03	2747	57	27 24 00 N	84 07 00 W
274757	80204	DM3	78 02 04	2747	57	27 24 00 N	84 07 00 W
274757	80205	DM3	78 02 05	2747	57	27 24 00 N	84 07 00 W
274757	80206	DM3	78 02 06	2747	57	27 24 00 N	84 07 00 W
274757	80207	DM3	78 02 07	2747	57	27 24 00 N	84 07 00 W
274758	60807	43	76 08 07	2747	58	27 24 00 N	84 07 00 W
274758	71026	DM2	77 10 26	2747	58	27 24 13 N	84 07 11 W
274758	71028	DM2	77 10 26	2747	58	27 24 13 N	84 07 11 W
274758	80207	DM3	78 02 07	2747	58	27 24 00 N	84 07 00 W
274759	60807	43	76 08 07	2747	59	27 24 00 N	84 07 00 W
274759	71026	DM2	77 10 26	2747	59	27 24 13 N	84 07 11 W
274759	80207	DM3	78 02 07	2747	59	27 24 00 N	84 07 00 W
274760	60807	43	76 08 07	2747	60	27 24 00 N	84 07 00 W
274760	71026	DM2	77 10 26	2747	60	27 24 13 N	84 07 11 W
274761	60807	43	76 08 07	2747	61	27 24 00 N	84 07 00 W
274761	80203	DM3	78 02 03	2747	61	27 24 00 N	84 07 00 W
274761	80204	DM3	78 02 04	2747	61	27 24 00 N	84 07 00 W
274761	80205	DM3	78 02 05	2747	61	27 24 00 N	84 07 00 W
274761	80206	DM3	78 02 06	2747	61	27 24 00 N	84 07 00 W
274761	80207	DM3	78 02 07	2747	61	27 24 00 N	84 07 00 W
274762	80203	DM3	78 02 03	2747	62	27 24 00 N	84 07 00 W
274762	80204	DM3	78 02 04	2747	62	27 24 00 N	84 07 00 W
274762	80205	DM3	78 02 05	2747	62	27 24 00 N	84 07 00 W
274762	80206	DM3	78 02 06	2747	62	27 24 00 N	84 07 00 W
274762	80207	DM3	78 02 07	2747	62	27 24 00 N	84 07 00 W
274768	60802	43	76 08 02	2747	68	27 24 00 N	84 07 00 W
274768	60803	43	76 08 03	2747	68	27 24 00 N	84 07 00 W
274768	60804	43	76 08 04	2747	68	27 24 00 N	84 07 00 W
274768	71026	DM2	77 10 26	2747	68	27 24 13 N	84 07 11 W
274768	71115	DM2	77 11 15	2747	68	27 24 12 N	84 07 18 W
274768	80202	DM3	78 02 02	2747	68	27 24 00 N	84 07 00 W
274768	80203	DM3	78 02 03	2747	68	27 24 00 N	84 07 00 W
274768	80204	DM3	78 02 04	2747	68	27 24 00 N	84 07 00 W
274768	80205	DM3	78 02 05	2747	68	27 24 00 N	84 07 00 W
274768	80206	DM3	78 02 06	2747	68	27 24 00 N	84 07 00 W
274768	80207	DM3	78 02 07	2747	68	27 24 00 N	84 07 00 W
274769	60802	43	76 08 02	2747	69	27 24 00 N	84 07 00 W
274769	60803	43	76 08 03	2747	69	27 24 00 N	84 07 00 W
274769	60804	43	76 08 04	2747	69	27 24 00 N	84 07 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
274769	71026	DM2	77 10 26	2747	69	27 24 13 N	84 07 11 W
274769	80202	DM3	78 02 02	2747	69	27 24 00 N	84 07 00 W
274769	80203	DM3	78 02 03	2747	69	27 24 00 N	84 07 00 W
274769	80204	DM3	78 02 04	2747	69	27 24 00 N	84 07 00 W
274769	80205	DM3	78 02 05	2747	69	27 24 00 N	84 07 00 W
274769	80206	DM3	78 02 06	2747	69	27 24 00 N	84 07 00 W
274769	80207	DM3	78 02 07	2747	69	27 24 00 N	84 07 00 W
274770	60802	43	76 08 02	2747	70	27 24 00 N	84 07 00 W
274770	60803	43	76 08 03	2747	70	27 24 00 N	84 07 00 W
274770	60804	43	76 08 04	2747	70	27 24 00 N	84 07 00 W
274770	71026	DM2	77 10 26	2747	70	27 24 13 N	84 07 11 W
274770	80203	DM3	78 02 03	2747	70	27 24 00 N	84 07 00 W
274770	80204	DM3	78 02 04	2747	70	27 24 00 N	84 07 00 W
274770	80205	DM3	78 02 05	2747	70	27 24 00 N	84 07 00 W
274770	80206	DM3	78 02 06	2747	70	27 24 00 N	84 07 00 W
274770	80207	DM3	78 02 07	2747	70	27 24 00 N	84 07 00 W
274771	60802	43	76 08 02	2747	71	27 24 00 N	84 07 00 W
274771	60803	43	76 08 03	2747	71	27 24 00 N	84 07 00 W
274771	60804	43	76 08 04	2747	71	27 24 00 N	84 07 00 W
274771	71026	DM2	77 10 26	2747	71	27 24 13 N	84 07 11 W
274771	80203	DM3	78 02 03	2747	71	27 24 00 N	84 07 00 W
274771	80204	DM3	78 02 04	2747	71	27 24 00 N	84 07 00 W
274771	80205	DM3	78 02 05	2747	71	27 24 00 N	84 07 00 W
274771	80206	DM3	78 02 06	2747	71	27 24 00 N	84 07 00 W
274771	80207	DM3	78 02 07	2747	71	27 24 00 N	84 07 00 W
274772	60802	43	76 08 02	2747	72	27 24 00 N	84 07 00 W
274772	60803	43	76 08 03	2747	72	27 24 00 N	84 07 00 W
274772	60804	43	76 08 04	2747	72	27 24 00 N	84 07 00 W
274772	71026	DM2	77 10 26	2747	72	27 24 13 N	84 07 11 W
274772	80203	DM3	78 02 03	2747	72	27 24 00 N	84 07 00 W
274772	80204	DM3	78 02 04	2747	72	27 24 00 N	84 07 00 W
274772	80205	DM3	78 02 05	2747	72	27 24 00 N	84 07 00 W
274772	80206	DM3	78 02 06	2747	72	27 24 00 N	84 07 00 W
274772	80207	DM3	78 02 07	2747	72	27 24 00 N	84 07 00 W
274773	60802	43	76 08 02	2747	73	27 24 00 N	84 07 00 W
274773	60803	43	76 08 03	2747	73	27 24 00 N	84 07 00 W
274773	60804	43	76 08 04	2747	73	27 24 00 N	84 07 00 W
274773	71026	DM2	77 10 26	2747	73	27 24 13 N	84 07 11 W
274773	71115	DM2	77 11 15	2747	73	27 24 12 N	84 07 18 W
274773	80203	DM3	78 02 03	2747	73	27 24 00 N	84 07 00 W
274773	80204	DM3	78 02 04	2747	73	27 24 00 N	84 07 00 W
274773	80205	DM3	78 02 05	2747	73	27 24 00 N	84 07 00 W
274773	80206	DM3	78 02 06	2747	73	27 24 00 N	84 07 00 W
274773	80207	DM3	78 02 07	2747	73	27 24 00 N	84 07 00 W
274774	60802	43	76 08 02	2747	74	27 24 00 N	84 07 00 W
274774	60803	43	76 08 03	2747	74	27 24 00 N	84 07 00 W
274774	71026	DM2	77 10 26	2747	74	27 24 13 N	84 07 11 W
274774	80203	DM3	78 02 03	2747	74	27 24 00 N	84 07 00 W
274774	80204	DM3	78 02 04	2747	74	27 24 00 N	84 07 00 W
274774	80205	DM3	78 02 05	2747	74	27 24 00 N	84 07 00 W
274774	80206	DM3	78 02 06	2747	74	27 24 00 N	84 07 00 W
274774	80207	DM3	78 02 07	2747	74	27 24 00 N	84 07 00 W
274775	60803	43	76 08 03	2747	75	27 24 00 N	84 07 00 W
274775	71026	DM2	77 10 26	2747	75	27 24 13 N	84 07 11 W
274775	80203	DM3	78 02 03	2747	75	27 24 00 N	84 07 00 W
274775	80204	DM3	78 02 04	2747	75	27 24 00 N	84 07 00 W
274775	80205	DM3	78 02 05	2747	75	27 24 00 N	84 07 00 W
274775	80206	DM3	78 02 06	2747	75	27 24 00 N	84 07 00 W
274775	80207	DM3	78 02 07	2747	75	27 24 00 N	84 07 00 W
274776	60803	43	76 08 03	2747	76	27 24 00 N	84 07 00 W
274776	71026	DM2	77 10 26	2747	76	27 24 13 N	84 07 11 W
274776	80203	DM3	78 02 03	2747	76	27 24 00 N	84 07 00 W
274776	80204	DM3	78 02 04	2747	76	27 24 00 N	84 07 00 W
274776	80205	DM3	78 02 05	2747	76	27 24 00 N	84 07 00 W
274776	80206	DM3	78 02 06	2747	76	27 24 00 N	84 07 00 W
274776	80207	DM3	78 02 07	2747	76	27 24 00 N	84 07 00 W
274777	60803	43	76 08 03	2747	77	27 24 00 N	84 07 00 W
274777	71026	DM2	77 10 26	2747	77	27 24 13 N	84 07 11 W
274777	80203	DM3	78 02 03	2747	77	27 24 00 N	84 07 00 W
274777	80204	DM3	78 02 04	2747	77	27 24 00 N	84 07 00 W
274777	80205	DM3	78 02 05	2747	77	27 24 00 N	84 07 00 W
274777	80206	DM3	78 02 06	2747	77	27 24 00 N	84 07 00 W
274777	80207	DM3	78 02 07	2747	77	27 24 00 N	84 07 00 W
274778	80203	DM3	78 02 03	2747	78	27 24 00 N	84 07 00 W
274778	80204	DM3	78 02 04	2747	78	27 24 00 N	84 07 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
274778	80205	DM3	78 02 05	2747	78	27 24 00 N 84 07 00 W
274778	80206	DM3	78 02 06	2747	78	27 24 00 N 84 07 00 W
274779	80203	DM3	78 02 03	2747	79	27 24 00 N 84 07 00 W
274779	80204	DM3	78 02 04	2747	79	27 24 00 N 84 07 00 W
274779	80205	DM3	78 02 05	2747	79	27 24 00 N 84 07 00 W
274779	80206	DM3	78 02 06	2747	79	27 24 00 N 84 07 00 W
274785	80202	DM3	78 02 02	2747	85	27 24 00 N 84 07 00 W
274785	80203	DM3	78 02 03	2747	75	27 24 00 N 84 07 00 W
274785	80204	DM3	78 02 04	2747	85	27 24 00 N 84 07 00 W
274785	80205	DM3	78 02 05	2747	85	27 24 00 N 84 07 00 W
274785	80206	DM3	78 02 06	2747	85	27 24 00 N 84 07 00 W
274785	80207	DM3	78 02 07	2747	85	27 24 00 N 84 07 00 W
274786	80203	DM3	78 02 03	2747	86	27 24 00 N 84 07 00 W
274786	80204	DM3	78 02 04	2747	86	27 24 00 N 84 07 00 W
274786	80205	DM3	78 02 05	2747	86	27 24 00 N 84 07 00 W
274786	80206	DM3	78 02 06	2747	86	27 24 00 N 84 07 00 W
274786	80207	DM3	78 02 07	2747	86	27 24 00 N 84 07 00 W
274787	80203	DM3	78 02 03	2747	87	27 24 00 N 84 07 00 W
274787	80204	DM3	78 02 04	2747	87	27 24 00 N 84 07 00 W
274787	80205	DM3	78 02 05	2747	87	27 24 00 N 84 07 00 W
274787	80206	DM3	78 02 06	2747	87	27 24 00 N 84 07 00 W
274787	80207	DM3	78 02 07	2747	87	27 24 00 N 84 07 00 W
274788	80203	DM3	78 02 03	2747	88	27 24 00 N 84 07 00 W
274788	80204	DM3	78 02 04	2747	88	27 24 00 N 84 07 00 W
274788	80205	DM3	78 02 05	2747	88	27 24 00 N 84 07 00 W
274788	80206	DM3	78 02 06	2747	88	27 24 00 N 84 07 00 W
274788	80207	DM3	78 02 07	2747	88	27 24 00 N 84 07 00 W
274789	80203	DM3	78 02 03	2747	89	27 24 00 N 84 07 00 W
274789	80204	DM3	78 02 04	2747	89	27 24 00 N 84 07 00 W
274789	80205	DM3	78 02 05	2747	89	27 24 00 N 84 07 00 W
274789	80206	DM3	78 02 06	2747	89	27 24 00 N 84 07 00 W
274789	80207	DM3	78 02 07	2747	89	27 24 00 N 84 07 00 W
274790	80203	DM3	78 02 03	2747	90	27 24 00 N 84 07 00 W
274790	80204	DM3	78 02 04	2747	90	27 24 00 N 84 07 00 W
274790	80205	DM3	78 02 05	2747	90	27 24 00 N 84 07 00 W
274790	80206	DM3	78 02 06	2747	90	27 24 00 N 84 07 00 W
274790	80207	DM3	78 02 07	2747	90	27 24 00 N 84 07 00 W
274791	80203	DM3	78 02 03	2747	91	27 24 00 N 84 07 00 W
274791	80204	DM3	78 02 04	2747	91	27 24 00 N 84 07 00 W
274791	80205	DM3	78 02 05	2747	91	27 24 00 N 84 07 00 W
274791	80206	DM3	78 02 06	2747	91	27 24 00 N 84 07 00 W
274791	80207	DM3	78 02 07	2747	91	27 24 00 N 84 07 00 W
274792	80203	DM3	78 02 03	2747	92	27 24 00 N 84 07 00 W
274792	80204	DM3	78 02 04	2747	92	27 24 00 N 84 07 00 W
274792	80205	DM3	78 02 05	2747	92	27 24 00 N 84 07 00 W
274792	80206	DM3	78 02 06	2747	92	27 24 00 N 84 07 00 W
274801	60628	39	76 06 28	2748	01	27 27 11 N 83 53 32 W
274801	70823	DM1	77 08 23	2748	01	27 40 19 N 83 53 26 W
274801	71115	DM2	77 11 15	2748	01	27 37 09 N 83 53 30 W
274801	80217	DM4	78 02 17	2748	01	27 37 08 N 83 53 32 W
274802	60628	39	76 06 28	2748	02	27 27 11 N 83 53 32 W
274802	70823	DM1	77 08 23	2748	02	27 40 19 N 83 53 26 W
274802	70825	DM1	77 08 23	2748	02	27 40 19 N 83 53 26 W
274802	71115	DM2	77 11 15	2748	02	27 37 09 N 83 53 30 W
274802	80217	DM4	78 02 17	2748	02	27 37 08 N 83 53 32 W
274803	60628	39	76 06 28	2748	03	27 27 11 N 83 53 32 W
274803	70823	DM1	77 08 23	2748	03	27 40 19 N 83 53 26 W
274803	71115	DM2	77 11 15	2748	03	27 37 09 N 83 53 30 W
274803	80217	DM4	78 02 17	2748	03	27 37 08 N 83 53 32 W
274804	60628	39	76 06 28	2748	04	27 27 11 N 83 53 32 W
274804	70823	DM1	77 08 23	2748	04	27 40 19 N 83 53 26 W
274804	71115	DM2	77 11 15	2748	04	27 37 09 N 83 53 30 W
274804	80217	DM4	78 02 17	2748	04	27 37 08 N 83 53 32 W
274805	60628	39	76 06 28	2748	05	27 27 11 N 83 53 32 W
274805	70823	DM1	77 08 23	2748	05	27 40 19 N 83 53 26 W
274805	71115	DM2	77 11 15	2748	05	27 37 09 N 83 53 30 W
274805	80217	DM4	78 02 17	2748	05	27 37 08 N 83 53 32 W
274806	60628	39	76 06 28	2748	06	27 27 11 N 83 53 32 W
274806	70823	DM1	77 08 23	2748	06	27 40 19 N 83 53 26 W
274806	71115	DM2	77 11 15	2748	06	27 37 09 N 83 53 30 W
274806	80217	DM4	78 02 17	2748	06	27 37 08 N 83 53 32 W
274807	60628	39	76 06 28	2748	07	27 27 11 N 83 53 32 W
274807	70823	DM1	77 08 23	2748	07	27 40 19 N 83 53 26 W
274807	71115	DM2	77 11 15	2748	07	27 37 09 N 83 53 30 W
274807	80217	DM4	78 02 17	2748	07	27 37 08 N 83 53 32 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
274808	60628	39	76 06 28	2748	08	27 27 11 N	83 53 32 W
274808	70823	DM1	77 08 23	2748	08	27 40 19 N	83 53 26 W
274808	71115	DM2	77 11 15	2748	08	27 37 09 N	83 53 30 W
274808	80217	DM4	78 02 17	2748	08	27 37 08 N	83 53 32 W
274809	60628	39	76 06 28	2748	09	27 27 11 N	83 53 32 W
274809	70823	DM1	77 08 23	2748	09	27 40 19 N	83 53 26 W
274809	71115	DM2	77 11 15	2748	09	27 37 09 N	83 53 30 W
274809	80217	DM4	78 02 17	2748	09	27 37 08 N	83 53 32 W
274810	60628	39	76 06 28	2748	10	27 27 11 N	83 53 32 W
274810	70823	DM1	77 08 23	2748	10	27 40 19 N	83 53 26 W
274810	71115	DM2	77 11 15	2748	10	27 37 09 N	83 53 30 W
274810	80217	DM4	78 02 17	2748	10	27 37 08 N	83 53 32 W
274811	60628	39	76 06 28	2748	11	27 27 11 N	83 53 32 W
274811	70823	DM1	77 08 23	2748	11	27 40 19 N	83 53 26 W
274811	71115	DM2	77 11 15	2748	11	27 37 09 N	83 53 30 W
274811	80217	DM4	78 02 17	2748	11	27 37 08 N	83 53 32 W
274812	60628	39	76 06 28	2748	12	27 27 11 N	83 53 32 W
274813	60628	39	76 06 28	2748	13	27 27 11 N	83 53 32 W
274814	60628	39	76 06 28	2748	14	27 27 11 N	83 53 32 W
274815	60628	39	76 06 28	2748	15	27 27 11 N	83 53 32 W
274816	60628	39	76 06 28	2748	16	27 27 11 N	83 53 32 W
274817	60713	44	76 07 13	2748	17	27 37 08 N	83 54 03 W
274817	60813	44	76 07 13	2748	17	27 37 08 N	83 54 03 W
274817	70813	DM1	77 08 23	2748	17	27 40 19 N	83 53 26 W
274817	70822	DM1	77 08 23	2748	17	27 40 19 N	83 53 26 W
274817	70823	DM1	77 08 23	2748	17	27 40 19 N	83 53 26 W
274817	71026	DM2	77 10 26	2748	17	27 37 07 N	83 53 24 W
274817	80204	DM4	78 02 04	2748	17	27 37 06 N	83 53 32 W
274817	80207	DM4	78 02 04	2748	17	27 37 06 N	83 53 32 W
274817	80209	DM4	78 02 04	2748	17	27 37 06 N	83 53 32 W
274818	60713	44	76 07 13	2748	18	27 37 08 N	83 54 03 W
274818	60813	44	76 07 13	2748	18	27 37 08 N	83 54 03 W
274818	70822	DM1	77 08 23	2748	18	27 40 19 N	83 53 26 W
274818	70823	DM1	77 08 23	2748	18	27 40 19 N	83 53 26 W
274818	71026	DM2	77 10 26	2748	18	27 37 07 N	83 53 24 W
274818	80204	DM4	78 02 04	2748	18	27 37 06 N	83 53 32 W
274818	80208	DM4	78 02 04	2748	18	27 37 06 N	83 53 32 W
274819	60713	44	76 07 13	2748	19	27 37 08 N	83 54 03 W
274819	60718	44	76 07 13	2748	19	27 37 08 N	83 54 03 W
274819	60813	44	76 07 13	2748	19	27 37 08 N	83 54 03 W
274819	70822	DM1	77 08 23	2748	19	27 40 19 N	83 53 26 W
274819	70823	DM1	77 08 23	2748	19	27 40 19 N	83 53 26 W
274819	70824	DM1	77 08 23	2748	19	27 40 19 N	83 53 26 W
274819	70908	DM1	77 08 23	2748	19	27 40 19 N	83 53 26 W
274819	71026	DM2	77 10 26	2748	19	27 37 07 N	83 53 24 W
274819	71027	DM2	77 10 26	2748	19	27 37 07 N	83 53 24 W
274819	71029	DM2	77 10 26	2748	19	27 37 07 N	83 53 24 W
274819	80201	DM4	78 02 04	2748	19	27 37 06 N	83 53 32 W
274819	80204	DM4	78 02 04	2748	19	27 37 06 N	83 53 32 W
274819	80205	DM4	78 02 04	2748	19	27 37 06 N	83 53 32 W
274819	80209	DM4	78 02 04	2748	19	27 37 06 N	83 53 32 W
274820	70826	DM1	77 08 23	2748	20	27 40 19 N	83 53 26 W
274830	60713	44	76 07 13	2748	30	27 37 08 N	83 54 03 W
274840	60713	44	76 07 13	2748	40	27 37 08 N	83 54 03 W
274840	80204	DM4	78 02 04	2748	40	27 37 06 N	83 53 32 W
274850	70823	DM1	77 08 23	2748	50	27 40 19 N	83 53 26 W
274850	71026	DM2	77 10 26	2748	50	27 37 07 N	83 53 24 W
274850	71114	DM2	77 11 14	2748	50	27 37 09 N	83 53 30 W
274850	80204	DM4	78 02 04	2748	50	27 37 06 N	83 53 32 W
274850	80217	DM4	78 02 17	2748	50	27 37 08 N	83 53 32 W
274868	71114	DM2	77 11 14	2748	68	27 37 09 N	83 53 30 W
274873	71114	DM2	77 11 14	2748	73	27 37 09 N	83 53 30 W
274901	60629	39	76 06 28	2749	01	27 51 56 N	83 27 09 W
274901	70826	DM1	77 08 26	2749	01	27 51 57 N	83 27 12 W
274901	70829	DM1	77 08 26	2749	01	27 51 57 N	83 27 12 W
274902	60629	39	76 06 28	2749	02	27 51 56 N	83 27 09 W
274902	70826	DM1	77 08 26	2749	02	27 51 57 N	83 27 12 W
274917	60713	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
274917	60718	44	76 07 13	0010	17	27 50 12 N	83 30 38 W
274917	71027	DM2	77 10 27	2749	17	27 51 59 N	83 27 17 W
274918	71027	DM2	77 10 27	2749	18	27 51 59 N	83 27 17 W
274918	80204	DM4	78 02 04	2749	18	27 52 22 N	83 23 37 W
274919	60713	44	76 07 13	0010	19	27 50 12 N	83 30 38 W
274919	71023	DM2	77 10 27	2749	19	27 51 59 N	83 27 17 W
274919	71027	DM2	77 10 27	2749	19	27 51 59 N	83 27 17 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
274919	71029	DM2	77 10 27	2749	19	27 51 59 N	83 27 17 W
274919	80204	DM4	78 02 04	2749	19	27 52 22 N	83 23 37 W
274919	80402	DM4	78 02 04	2749	19	27 52 22 N	83 23 37 W
274920	70822	DM1	77 08 26	2749	20	27 51 57 N	83 27 12 W
274920	70826	DM1	77 08 26	2749	20	27 51 57 N	83 27 12 W
274921	70826	DM1	77 08 26	2749	21	27 51 57 N	83 27 12 W
274950	70826	DM1	77 08 26	2749	50	27 51 57 N	83 27 12 W
274950	71027	DM2	77 10 27	2749	50	27 51 59 N	83 27 17 W
274968	71027	DM2	77 10 27	2749	68	27 51 59 N	83 27 17 W
276711	60628	39	76 06 28	2747	11	27 24 10 N	84 07 18 W
276716	60628	39	76 06 28	2747	16	27 24 10 N	84 07 18 W
285006	70902	DM1	77 09 02	2854	06	29 23 55 N	85 42 29 W
285007	70902	DM1	77 09 02	2854	07	29 23 55 N	85 42 29 W
285009	70902	DM1	77 09 02	2854	09	29 23 55 N	85 42 29 W
285010	70902	DM1	77 09 02	2854	10	29 23 55 N	85 42 29 W
285101	60625	39	76 06 25	2862	01	27 00 25 N	83 01 08 W
285101	70822	DM1	77 08 22	2851	01	27 03 22 N	83 01 03 W
285102	60625	39	76 06 25	2862	02	27 00 25 N	83 01 08 W
285103	60625	39	76 06 25	2862	03	27 00 25 N	83 01 08 W
285104	60625	39	76 06 25	2862	04	27 00 25 N	83 01 08 W
285105	60625	39	76 06 25	2862	05	27 00 25 N	83 01 08 W
285105	70827	DM1	77 08 22	2851	05	27 03 22 N	83 01 03 W
285106	60625	39	76 06 25	2862	06	27 00 25 N	83 01 08 W
285107	60625	39	76 06 25	2862	07	27 00 25 N	83 01 08 W
285108	60625	39	76 06 25	2862	08	27 00 25 N	83 01 08 W
285109	60625	39	76 06 25	2862	09	27 00 25 N	83 01 08 W
285110	60625	39	76 06 25	2862	10	27 00 25 N	83 01 08 W
285111	60625	39	76 06 25	2862	11	27 00 25 N	83 01 08 W
285111	60626	39	76 06 25	2862	11	27 00 25 N	83 01 08 W
285120	70822	DM1	77 08 22	2851	20	27 03 22 N	83 01 03 W
285121	70822	DM1	77 08 22	2851	21	27 03 22 N	83 01 03 W
285150	70822	DM1	77 08 22	2851	50	27 03 22 N	83 01 03 W
285201	60702	39	76 07 02	2852	01	28 30 00 N	83 29 58 W
285201	70826	DM1	77 08 27	2852	01	28 29 59 N	83 30 08 W
285201	70827	DM1	77 08 27	2852	01	28 29 59 N	83 30 08 W
285202	60702	39	76 07 02	2852	02	28 30 00 N	83 29 58 W
285202	70826	DM1	77 08 27	2852	02	28 29 59 N	83 30 08 W
285202	70827	DM1	77 08 27	2852	02	28 29 59 N	83 30 08 W
285203	60702	39	76 07 02	2852	03	28 30 00 N	83 29 58 W
285203	70827	DM1	77 08 27	2852	03	28 29 59 N	83 30 08 W
285204	60702	39	76 07 02	2852	04	28 30 00 N	83 29 58 W
285204	70827	DM1	77 08 27	2852	04	28 29 59 N	83 30 08 W
285205	60702	39	76 07 02	2852	05	28 30 00 N	83 29 58 W
285205	70827	DM1	77 08 27	2852	05	28 29 59 N	83 30 08 W
285206	60702	39	76 07 02	2852	06	28 30 00 N	83 29 58 W
285206	70827	DM1	77 08 27	2852	06	28 29 59 N	83 30 08 W
285207	60702	39	76 07 02	2852	07	28 30 00 N	83 29 58 W
285208	60702	39	76 07 02	2852	08	28 30 00 N	83 29 58 W
285209	60702	39	76 07 02	2852	09	28 30 00 N	83 29 58 W
285210	60702	39	76 07 02	2852	10	28 30 00 N	83 29 58 W
285211	60702	39	76 07 02	2852	11	28 30 00 N	83 29 58 W
285250	70826	DM1	77 08 27	2852	50	28 29 59 N	83 30 08 W
285301	60704	39	76 07 04	2863	01	29 18 01 N	84 19 59 W
285301	70831	DM1	77 08 31	2853	01	29 18 03 N	84 20 06 W
285302	60704	39	76 07 04	2863	02	29 18 01 N	84 19 59 W
285302	70831	DM1	77 08 31	2853	02	29 18 03 N	84 20 06 W
285303	60704	39	76 07 04	2863	03	29 18 01 N	84 19 59 W
285303	70831	DM1	77 08 31	2853	03	29 18 03 N	84 20 06 W
285303	70901	DM1	77 08 31	2853	03	29 18 03 N	84 20 06 W
285304	60704	39	76 07 04	2863	04	29 18 01 N	84 19 59 W
285304	7081	DM1	77 08 31	2853	04	29 18 03 N	84 20 06 W
285304	70831	DM1	77 08 31	2853	04	29 18 03 N	84 20 06 W
285304	70901	DM1	77 08 31	2853	04	29 18 03 N	84 20 06 W
285305	0831	DM1	77 08 31	2853	05	29 18 03 N	84 20 06 W
285305	60704	39	76 07 04	2863	05	29 18 01 N	84 19 59 W
285305	7081	DM1	77 08 31	2853	05	29 18 03 N	84 20 06 W
285305	70831	DM1	77 08 31	2853	05	29 18 03 N	84 20 06 W
285305	70901	DM1	77 08 31	2853	05	29 18 03 N	84 20 06 W
285306	0831	DM1	77 08 31	2853	06	29 18 03 N	84 20 06 W
285306	60704	39	76 07 04	2863	06	29 18 01 N	84 19 59 W
285306	7081	DM1	77 08 31	2853	06	29 18 03 N	84 20 06 W
285306	70831	DM1	77 08 31	2853	06	29 18 03 N	84 20 06 W
285306	70901	DM1	77 08 31	2853	06	29 18 03 N	84 20 06 W
285307	60704	39	76 07 04	2863	07	29 18 01 N	84 19 59 W
285307	7081	DM1	77 08 31	2853	07	29 18 03 N	84 20 06 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
285307	7083	DM1	77 08 31	2853	07	29 18 03 N	84 20 06 W
285307	70831	DM1	77 08 31	2853	07	29 18 03 N	84 20 06 W
285307	70901	DM1	77 08 31	2853	07	29 18 03 N	84 20 06 W
285308	60704	39	76 07 04	2863	08	29 18 01 N	84 19 59 W
285308	70831	DM1	77 09 01	2853	08	29 18 03 N	84 20 06 W
285308	70901	DM1	77 09 01	2853	08	29 18 03 N	84 20 06 W
285309	60704	39	76 07 04	2863	09	29 18 01 N	84 19 59 W
285309	7081	DM1	77 09 01	2853	09	29 18 03 N	84 20 06 W
285309	70831	DM1	77 09 01	2853	09	29 18 03 N	84 20 06 W
285309	70901	DM1	77 09 01	2853	09	29 18 03 N	84 20 06 W
285310	0831	DM1	77 08 31	2853	10	29 18 03 N	84 20 06 W
285310	60704	39	76 07 04	2863	10	29 18 01 N	84 19 59 W
285310	7081	DM1	77 08 31	2853	10	29 18 03 N	84 20 06 W
285310	7083	DM1	77 08 31	2853	10	29 18 03 N	84 20 06 W
285310	70831	DM1	77 08 31	2853	10	29 18 03 N	84 20 06 W
285310	70901	DM1	77 08 31	2853	10	29 18 03 N	84 20 06 W
285311	60704	39	76 07 04	2863	11	29 18 01 N	84 19 59 W
285311	7083	DM1	77 09 01	2853	11	29 18 03 N	84 20 06 W
285311	70831	DM1	77 09 01	2853	11	29 18 03 N	84 20 06 W
285311	70901	DM1	77 09 01	2853	11	29 18 03 N	84 20 06 W
285350	70831	DM1	77 08 31	2853	50	29 18 03 N	84 20 06 W
285401	60707	39	76 07 07	2854	01	29 24 00 N	85 42 02 W
285401	70902	DM1	77 09 02	2854	01	29 23 55 N	85 42 29 W
285402	60707	39	76 07 07	2854	02	29 24 00 N	85 42 02 W
285402	70902	DM1	77 09 02	2854	02	29 23 55 N	85 42 29 W
285403	60707	39	76 07 07	2854	03	29 24 00 N	85 42 02 W
285403	70902	DM1	77 09 02	2854	03	29 23 55 N	85 42 29 W
285404	60707	39	76 07 07	2854	04	29 24 00 N	85 42 02 W
285404	70902	DM1	77 09 02	2854	04	29 23 55 N	85 42 29 W
285405	60707	39	76 07 07	2854	05	29 24 00 N	85 42 02 W
285405	70902	DM1	77 09 02	2854	05	29 23 55 N	85 42 29 W
285406	60707	39	76 07 07	2854	06	29 24 00 N	85 42 02 W
285406	70902	DM1	77 09 02	2854	06	29 23 55 N	85 42 29 W
285407	60707	39	76 07 07	2854	07	29 24 00 N	85 42 02 W
285407	70902	DM1	77 09 02	2854	07	29 23 55 N	85 42 29 W
285408	60707	39	76 07 07	2854	08	29 24 00 N	85 42 02 W
285408	70902	DM1	77 09 02	2854	08	29 23 55 N	85 42 29 W
285409	60707	39	76 07 07	2854	09	29 24 00 N	85 42 02 W
285409	70902	DM1	77 09 02	2854	09	29 23 55 N	85 42 29 W
285410	60707	39	76 07 07	2854	10	29 24 00 N	85 42 02 W
285410	70902	DM1	77 09 02	2854	10	29 23 55 N	85 42 29 W
285411	60707	39	76 07 07	2854	11	29 24 00 N	85 42 02 W
285411	70902	DM1	77 09 02	2854	11	29 23 55 N	85 42 29 W
285450	70902	DM1	77 09 02	2854	50	29 23 55 N	85 42 29 W
285501	60707	39	76 07 07	2855	01	30 08 02 N	86 30 00 W
285501	70903	DM1	77 09 03	2855	01	30 07 55 N	86 30 03 W
285502	60707	39	76 07 07	2855	02	30 08 02 N	86 30 00 W
285502	70903	DM1	77 09 03	2855	02	30 07 55 N	86 30 03 W
285502	90903	DM1	77 09 03	2855	02	30 07 55 N	86 30 03 W
285503	60707	39	76 07 07	2855	03	30 08 02 N	86 30 00 W
285503	70903	DM1	77 09 03	2855	03	30 07 55 N	86 30 03 W
285504	60707	39	76 07 07	2855	04	30 08 02 N	86 30 00 W
285504	60709	39	76 07 07	2855	04	30 08 02 N	86 30 00 W
285504	70903	DM1	77 09 03	2855	04	30 07 55 N	86 30 03 W
285504	70904	DM1	77 09 03	2855	04	30 07 55 N	86 30 03 W
285505	60707	39	76 07 07	2855	05	30 08 02 N	86 30 00 W
285505	70903	DM1	77 09 03	2855	05	30 07 55 N	86 30 03 W
285506	60707	39	76 07 07	2855	06	30 08 02 N	86 30 00 W
285506	70903	DM1	77 09 03	2855	06	30 07 55 N	86 30 03 W
285507	60707	39	76 07 07	2855	07	30 08 02 N	86 30 00 W
285507	70903	DM1	77 09 03	2855	07	30 07 55 N	86 30 03 W
285507	70904	DM1	77 09 03	2855	07	30 07 55 N	86 30 03 W
285508	60707	39	76 07 07	2855	08	30 08 02 N	86 30 00 W
285508	70903	DM1	77 09 03	2855	08	30 07 55 N	86 30 03 W
285509	60707	39	76 07 07	2855	09	30 08 02 N	86 30 00 W
285509	60709	39	76 07 07	2855	09	30 08 02 N	86 30 00 W
285509	70903	DM1	77 09 03	2855	09	30 07 55 N	86 30 03 W
285509	70904	DM1	77 09 03	2855	09	30 07 55 N	86 30 03 W
285510	60707	39	76 07 07	2855	10	30 08 02 N	86 30 00 W
285510	60709	39	76 07 07	2855	10	30 08 02 N	86 30 00 W
285510	70831	DM1	77 09 03	2855	10	30 07 55 N	86 30 03 W
285510	70903	DM1	77 09 03	2855	10	30 07 55 N	86 30 03 W
285510	70904	DM1	77 09 03	2855	10	30 07 55 N	86 30 03 W
285511	60707	39	76 07 07	2855	11	30 08 02 N	86 30 00 W
285511	70903	DM1	77 09 03	2855	11	30 07 55 N	86 30 03 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
285550	70903	DM1	77 09 03	2855	50	30 07 55 N	86 30 03 W
285601	60709	39	76 07 09	2856	01	29 54 01 N	87 24 00 W
285601	70908	DM1	77 09 08	2856	01	29 54 02 N	87 23 55 W
285602	60709	39	76 07 09	2856	02	29 54 01 N	87 24 00 W
285602	70908	DM1	77 09 08	2856	02	29 54 02 N	87 23 55 W
285603	60709	39	76 07 09	2856	03	29 54 01 N	87 24 00 W
285603	70908	DM1	77 09 08	2856	03	29 54 02 N	87 23 55 W
285604	60709	39	76 07 09	2856	04	29 54 01 N	87 24 00 W
285604	70908	DM1	77 09 08	2856	04	29 54 02 N	87 23 55 W
285605	60708	39	76 07 09	2856	05	29 54 01 N	87 24 00 W
285605	60709	39	76 07 09	2856	05	29 54 01 N	87 24 00 W
285605	70908	DM1	77 09 08	2856	05	29 54 02 N	87 23 55 W
285606	60709	39	76 07 09	2856	06	29 54 01 N	87 24 00 W
285606	70908	DM1	77 09 08	2856	06	29 54 02 N	87 23 55 W
285607	60708	39	76 07 09	2856	07	29 54 01 N	87 24 00 W
285607	60709	39	76 07 09	2856	07	29 54 01 N	87 24 00 W
285607	70908	DM1	77 09 08	2856	07	29 54 02 N	87 23 55 W
285608	60708	39	76 07 09	2856	08	29 54 01 N	87 24 00 W
285608	60709	39	76 07 09	2856	08	29 54 01 N	87 24 00 W
285608	70908	DM1	77 09 08	2856	08	29 54 02 N	87 23 55 W
285609	60708	39	76 07 09	2856	09	29 54 01 N	87 24 00 W
285609	60709	39	76 07 09	2856	09	29 54 01 N	87 24 00 W
285609	70908	DM1	77 09 08	2856	09	29 54 02 N	87 23 55 W
285610	60708	39	76 07 09	2856	10	29 54 01 N	87 24 00 W
285610	60709	39	76 07 09	2856	10	29 54 01 N	87 24 00 W
285610	70908	DM1	77 09 08	2856	10	29 54 02 N	87 23 55 W
285611	60709	39	76 07 09	2856	11	29 54 01 N	87 24 00 W
285611	70908	DM1	77 09 08	2856	11	29 54 02 N	87 23 55 W
285650	70908	DM1	77 09 08	2856	50	29 54 02 N	87 23 55 W
286201	60625	39	76 06 25	2862	01	27 00 25 N	83 01 08 W
286202	60625	39	76 06 25	2862	02	27 00 25 N	83 01 08 W
286203	60625	39	76 06 25	2862	03	27 00 25 N	83 01 08 W
286204	60625	39	76 06 25	2862	04	27 00 25 N	83 01 08 W
286205	60625	39	76 06 25	2862	05	27 00 25 N	83 01 08 W
286206	60625	39	76 06 25	2862	06	27 00 25 N	83 01 08 W
286207	60625	39	76 06 25	2862	07	27 00 25 N	83 01 08 W
286208	60625	39	76 06 25	2862	08	27 00 25 N	83 01 08 W
286209	60625	39	76 06 25	2862	09	27 00 25 N	83 01 08 W
286210	60625	39	76 06 25	2862	10	27 00 25 N	83 01 08 W
286211	60625	39	76 06 25	2862	11	27 00 25 N	83 01 08 W
286211	60626	39	76 06 25	2862	11	27 00 25 N	83 01 08 W
286301	60704	39	76 07 04	2863	01	29 18 01 N	84 19 59 W
286302	60704	39	76 07 04	2863	02	29 18 01 N	84 19 59 W
286303	60704	39	76 07 04	2863	03	29 18 01 N	84 19 59 W
286304	60704	39	76 07 04	2863	04	29 18 01 N	84 19 59 W
286305	60704	39	76 07 04	2863	05	29 18 01 N	84 19 59 W
286306	60704	39	76 07 04	2863	06	29 18 01 N	84 19 59 W
286307	60704	39	76 07 04	2863	07	29 18 01 N	84 19 59 W
286308	60704	39	76 07 04	2863	08	29 18 01 N	84 19 59 W
286309	60704	39	76 07 04	2863	09	29 18 01 N	84 19 59 W
286310	60704	39	76 07 04	2863	10	29 18 01 N	84 19 59 W
286311	60704	39	76 07 04	2863	11	29 18 01 N	84 19 59 W
295701	70820	DM1	77 08 20	2957	01	25 40 10 N	84 15 18 W
295701	71116	DM2	77 11 16	2957	01	25 40 04 N	84 15 06 W
295701	80218	DM4	78 02 18	2957	01	25 39 53 N	84 15 03 W
295702	70819	DM1	77 08 20	2957	02	25 40 10 N	84 15 18 W
295702	70820	DM1	77 08 20	2957	02	25 40 10 N	84 15 18 W
295702	71116	DM2	77 11 16	2957	02	25 40 04 N	84 15 06 W
295702	80218	DM4	78 02 18	2957	02	25 39 53 N	84 15 03 W
295703	70819	DM1	77 08 20	2957	03	25 40 10 N	84 15 18 W
295703	70820	DM1	77 08 20	2957	03	25 40 10 N	84 15 18 W
295703	71116	DM2	77 11 16	2957	03	25 40 04 N	84 15 06 W
295703	80218	DM4	78 02 18	2957	03	25 39 53 N	84 15 03 W
295704	70819	DM1	77 08 20	2957	04	25 40 10 N	84 15 18 W
295704	70820	DM1	77 08 20	2957	04	25 40 10 N	84 15 18 W
295704	71116	DM2	77 11 16	2957	04	25 40 04 N	84 15 06 W
295704	80218	DM4	78 02 18	2957	04	25 39 53 N	84 15 03 W
295704	80219	DM4	78 02 18	2957	04	25 39 53 N	84 15 03 W
295705	70819	DM1	77 08 20	2957	05	25 40 10 N	84 15 18 W
295705	70820	DM1	77 08 20	2957	05	25 40 10 N	84 15 18 W
295705	71116	DM2	77 11 16	2957	05	25 40 04 N	84 15 06 W
295705	80218	DM4	78 02 18	2957	05	25 39 53 N	84 15 03 W
295706	70819	DM1	77 08 20	2957	06	25 40 10 N	84 15 18 W
295706	70820	DM1	77 08 20	2957	06	25 40 10 N	84 15 18 W
295706	71116	DM2	77 11 16	2957	06	25 40 04 N	84 15 06 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
295706	80218	DM4	78 02 18	2957 06	25 39 53 N	84 15 03 W
295707	70819	DM1	77 08 20	2957 07	25 40 10 N	84 15 18 W
295707	70820	DM1	77 08 20	2957 07	25 40 10 N	84 15 18 W
295707	71116	DM2	77 11 16	2957 07	25 40 04 N	84 15 06 W
295707	80218	DM4	78 02 19	2957 07	25 39 53 N	84 15 03 W
295707	80219	DM4	78 02 19	2957 07	25 39 53 N	84 15 03 W
295708	70819	DM1	77 08 20	2957 08	25 40 10 N	84 15 18 W
295708	70820	DM1	77 08 20	2957 08	25 40 10 N	84 15 18 W
295708	71116	DM2	77 11 16	2957 08	25 40 04 N	84 15 06 W
295708	80218	DM4	78 02 19	2957 08	25 39 53 N	84 15 03 W
295708	80219	DM4	78 02 19	2957 08	25 39 53 N	84 15 03 W
295709	70819	DM1	77 08 20	2957 09	25 40 10 N	84 15 18 W
295709	70820	DM1	77 08 20	2957 09	25 40 10 N	84 15 18 W
295709	71116	DM2	77 11 16	2957 09	25 40 04 N	84 15 06 W
295709	80218	DM4	78 02 19	2957 09	25 39 53 N	84 15 03 W
295709	80219	DM4	78 02 19	2957 09	25 39 53 N	84 15 03 W
295710	70819	DM1	77 08 20	2957 10	25 40 10 N	84 15 18 W
295710	70820	DM1	77 08 20	2957 10	25 40 10 N	84 15 18 W
295710	71116	DM2	77 11 16	2957 10	25 40 04 N	84 15 06 W
295710	80218	DM4	78 02 19	2957 10	25 39 53 N	84 15 03 W
295710	80219	DM4	78 02 19	2957 10	25 39 53 N	84 15 03 W
295711	70819	DM1	77 08 20	2957 11	25 40 10 N	84 15 18 W
295711	70820	DM1	77 08 20	2957 11	25 40 10 N	84 15 18 W
295711	71116	DM2	77 11 16	2957 11	25 40 04 N	84 15 06 W
295711	80218	DM4	78 02 19	2957 11	25 39 53 N	84 15 03 W
295711	80219	DM4	78 02 19	2957 11	25 39 53 N	84 15 03 W
295712	70820	DM1	77 08 20	2957 12	25 40 10 N	84 15 18 W
295713	70820	DM1	77 08 20	2957 13	25 40 10 N	84 15 18 W
295714	70820	DM1	77 08 20	2957 14	25 40 10 N	84 15 18 W
295715	70820	DM1	77 08 20	2957 15	25 40 10 N	84 15 18 W
295716	70820	DM1	77 08 20	2957 16	25 40 10 N	84 15 18 W
295750	70820	DM1	77 08 19	2957 50	25 40 10 N	84 15 18 W
295750	71116	DM2	77 11 16	2957 50	25 40 04 N	84 15 06 W
295750	80218	DM4	78 02 18	2957 50	25 39 53 N	84 15 03 W
295768	71116	DM2	77 11 16	2957 68	25 40 04 N	84 15 06 W
295773	71116	DM2	77 11 16	2957 73	25 40 04 N	84 15 06 W
2958	70819	DM1	77 08 19	2958	25 39 55 N	83 50 01 W
295801	70819	DM1	77 08 19	2958 01	25 39 55 N	83 50 01 W
295801	71117	DM2	77 11 17	2958 01	25 40 04 N	83 50 03 W
295801	80219	DM4	78 02 19	2958 01	25 38 49 N	83 49 30 W
295802	70819	DM1	77 08 19	2958 02	25 39 55 N	83 50 01 W
295802	71117	DM2	77 11 17	2958 02	25 40 04 N	83 50 03 W
295802	80219	DM4	78 02 19	2958 02	25 38 49 N	83 49 30 W
295803	70819	DM1	77 08 19	2958 03	25 39 55 N	83 50 01 W
295803	71117	DM2	77 11 17	2958 03	25 40 04 N	83 50 03 W
295803	80219	DM4	78 02 19	2958 03	25 38 49 N	83 49 30 W
295804	70819	DM1	77 08 19	2958 04	25 39 55 N	83 50 01 W
295804	71117	DM2	77 11 17	2958 04	25 40 04 N	83 50 03 W
295804	80219	DM4	78 02 19	2958 04	25 38 49 N	83 49 30 W
295805	70819	DM1	77 08 19	2958 05	25 39 55 N	83 50 01 W
295805	71117	DM2	77 11 17	2958 05	25 40 04 N	83 50 03 W
295805	80219	DM4	78 02 19	2958 05	25 38 49 N	83 49 30 W
295806	70819	DM1	77 08 19	2958 06	25 39 55 N	83 50 01 W
295806	71117	DM2	77 11 17	2958 06	25 40 04 N	83 50 03 W
295806	80219	DM4	78 02 19	2958 06	25 38 49 N	83 49 30 W
295807	70819	DM1	77 08 19	2958 07	25 39 55 N	83 50 01 W
295807	71117	DM2	77 11 17	2958 07	25 40 04 N	83 50 03 W
295807	80219	DM4	78 02 19	2958 07	25 38 49 N	83 49 30 W
295808	70819	DM1	77 08 19	2958 08	25 39 55 N	83 50 01 W
295808	71117	DM2	77 11 17	2958 08	25 40 04 N	83 50 03 W
295808	80219	DM4	78 02 19	2958 08	25 38 49 N	83 49 30 W
295809	0219	DM4	78 02 19	2958 09	25 38 49 N	83 49 30 W
295809	70819	DM1	77 08 19	2958 09	25 39 55 N	83 50 01 W
295809	71117	DM2	77 11 17	2958 09	25 40 04 N	83 50 03 W
295809	80219	DM4	78 02 19	2958 09	25 38 49 N	83 49 30 W
295810	70819	DM1	77 08 19	2958 10	25 39 55 N	83 50 01 W
295810	71117	DM2	77 11 17	2958 10	25 40 04 N	83 50 03 W
295810	80219	DM4	78 02 19	2958 10	25 38 49 N	83 49 30 W
295811	70819	DM1	77 08 19	2958 11	25 39 55 N	83 50 01 W
295811	71117	DM2	77 11 17	2958 11	25 40 04 N	83 50 03 W
295811	80219	DM4	78 02 19	2958 11	25 38 49 N	83 49 30 W
295812	80219	DM4	78 02 19	2958 12	25 38 49 N	83 49 30 W
295813	80219	DM4	78 02 19	2958 13	25 38 49 N	83 49 30 W
295814	80219	DM4	78 02 19	2958 14	25 38 49 N	83 49 30 W
295815	80219	DM4	78 02 19	2958 15	25 38 49 N	83 49 30 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
295816	80219	DM4	78 02 19	2958	16	25 38 49 N	83 49 30 W
295850	70819	DM1	77 08 19	2958	50	25 39 55 N	83 50 01 W
295850	71117	DM2	77 11 17	2958	50	25 40 04 N	83 50 03 W
295850	80219	DM4	78 02 19	2958	50	25 38 49 N	83 49 30 W
295868	71117	DM2	77 11 17	2958	68	25 40 04 N	83 50 03 W
295873	71117	DM2	77 11 17	2958	73	25 40 04 N	83 50 03 W
2959	70819	DM1	77 08 19	2959		25 40 00 N	83 04 59 W
295901	70819	DM1	77 08 19	2959	01	25 40 00 N	83 04 59 W
295901	71117	DM2	77 11 17	2959	01	25 40 09 N	83 05 04 W
295901	80219	DM4	78 02 19	2959	01	25 39 22 N	83 04 32 W
295902	70819	DM1	77 08 19	2959	02	25 40 00 N	83 04 59 W
295902	71117	DM2	77 11 17	2959	02	25 40 09 N	83 05 04 W
295902	80219	DM4	78 02 19	2959	02	25 39 22 N	83 04 32 W
295903	70819	DM1	77 08 19	2959	03	25 40 00 N	83 04 59 W
295903	71117	DM2	77 11 17	2959	03	25 40 09 N	83 05 04 W
295903	80219	DM4	78 02 19	2959	03	25 39 22 N	83 04 32 W
295904	70819	DM1	77 08 19	2959	04	25 40 00 N	83 04 59 W
295904	71117	DM2	77 11 17	2959	04	25 40 09 N	83 05 04 W
295904	80219	DM4	78 02 19	2959	04	25 39 22 N	83 04 32 W
295905	70819	DM1	77 08 19	2959	05	25 40 00 N	83 04 59 W
295905	71117	DM2	77 11 17	2959	05	25 40 09 N	83 05 04 W
295905	80219	DM4	78 02 19	2959	05	25 39 22 N	83 04 32 W
295906	70819	DM1	77 08 19	2959	06	25 40 00 N	83 04 59 W
295906	71117	DM2	77 11 17	2959	06	25 40 09 N	83 05 04 W
295906	80219	DM4	78 02 19	2959	06	25 39 22 N	83 04 32 W
295907	70819	DM1	77 08 19	2959	07	25 40 00 N	83 04 59 W
295907	71117	DM2	77 11 17	2959	07	25 40 09 N	83 05 04 W
295907	80219	DM4	78 02 19	2959	07	25 39 22 N	83 04 32 W
295908	70819	DM1	77 08 19	2959	08	25 40 00 N	83 04 59 W
295908	71117	DM2	77 11 17	2959	08	25 40 09 N	83 05 04 W
295908	80219	DM4	78 02 19	2959	08	25 39 22 N	83 04 32 W
295909	70819	DM1	77 08 19	2959	09	25 40 00 N	83 04 59 W
295909	71117	DM2	77 11 17	2959	09	25 40 09 N	83 05 04 W
295909	80219	DM4	78 02 19	2959	09	25 39 22 N	83 04 32 W
295910	70819	DM1	77 08 19	2959	10	25 40 00 N	83 04 59 W
295910	71117	DM2	77 11 17	2959	10	25 40 09 N	83 05 04 W
295910	80219	DM4	78 02 19	2959	10	25 39 22 N	83 04 32 W
295911	70819	DM1	77 08 19	2959	11	25 40 00 N	83 04 59 W
295911	71117	DM2	77 11 17	2959	11	25 40 09 N	83 05 04 W
295911	80219	DM4	78 02 19	2959	11	25 39 22 N	83 04 32 W
295912	70819	DM1	77 08 19	2959	12	25 40 00 N	83 04 59 W
295913	70819	DM1	77 08 19	2959	13	25 40 00 N	83 04 59 W
295914	70819	DM1	77 08 19	2959	14	25 40 00 N	83 04 59 W
295915	70819	DM1	77 08 19	2959	15	25 40 00 N	83 04 59 W
295916	70819	DM1	77 08 19	2959	16	25 40 00 N	83 04 59 W
295950	70819	DM1	77 08 19	2959	50	25 40 00 N	83 04 59 W
295950	71117	DM2	77 11 17	2959	50	25 40 09 N	83 05 04 W
295950	80219	DM4	78 02 19	2959	50	25 39 22 N	83 04 32 W
295968	71117	DM2	77 11 17	2959	68	25 40 09 N	83 05 04 W
295973	71117	DM2	77 11 17	2959	73	25 40 09 N	83 05 04 W
296001	70819	DM1	77 08 19	2960	01	25 40 03 N	82 20 01 W
296001	71117	DM2	77 11 17	2960	01	25 40 02 N	82 19 57 W
296001	80219	DM4	78 02 19	2960	01	25 39 36 N	82 19 22 W
296002	70819	DM1	77 08 19	2960	02	25 40 03 N	82 20 01 W
296002	71117	DM2	77 11 17	2960	02	25 40 02 N	82 19 57 W
296002	80219	DM4	78 02 19	2960	02	25 39 36 N	82 19 22 W
296003	70819	DM1	77 08 19	2960	03	25 40 03 N	82 20 01 W
296003	71117	DM2	77 11 17	2960	03	25 40 02 N	82 19 57 W
296003	80218	DM4	78 02 19	2960	03	25 39 36 N	82 19 22 W
296003	80219	DM4	78 02 19	2960	03	25 39 36 N	82 19 22 W
296004	70819	DM1	77 08 19	2960	04	25 40 03 N	82 20 01 W
296004	71117	DM2	77 11 17	2960	04	25 40 02 N	82 19 57 W
296004	80218	DM4	78 02 19	2960	04	25 39 36 N	82 19 22 W
296004	80219	DM4	78 02 19	2960	04	25 39 36 N	82 19 22 W
296005	70819	DM1	77 08 19	2960	05	25 40 03 N	82 20 01 W
296005	71117	DM2	77 11 17	2960	05	25 40 02 N	82 19 57 W
296005	80218	DM4	78 02 19	2960	05	25 39 36 N	82 19 22 W
296005	80219	DM4	78 02 19	2960	05	25 39 36 N	82 19 22 W
296006	80218	DM4	78 02 19	2960	06	25 39 36 N	82 19 22 W
296006	70819	DM1	77 08 19	2960	06	25 40 03 N	82 20 01 W
296006	71117	DM2	77 11 17	2960	06	25 40 02 N	82 19 57 W
296006	80218	DM4	78 02 19	2960	06	25 39 36 N	82 19 22 W
296006	80219	DM4	78 02 19	2960	06	25 39 36 N	82 19 22 W
296007	70819	DM1	77 08 19	2960	07	25 40 03 N	82 20 01 W
296007	70919	DM1	77 08 19	2960	07	25 40 03 N	82 20 01 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
296007	71117	DM2	77 11 17	2960	07	25 40 02 N	82 19 57 W
296007	80218	DM4	78 02 19	2960	07	25 39 36 N	82 19 22 W
296007	80219	DM4	78 02 19	2960	07	25 39 36 N	82 19 22 W
296008	70819	DM1	77 08 19	2960	08	25 40 03 N	82 20 01 W
296008	71117	DM2	77 11 17	2960	08	25 40 02 N	82 19 57 W
296008	80218	DM4	78 02 19	2960	08	25 39 36 N	82 19 22 W
296008	80219	DM4	78 02 19	2960	08	25 39 36 N	82 19 22 W
296009	80218	DM4	78 02 19	2960	09	25 39 36 N	82 19 22 W
296009	70819	DM1	77 08 19	2960	09	25 40 03 N	82 20 01 W
296009	71117	DM2	77 11 17	2960	09	25 40 02 N	82 19 57 W
296009	80218	DM4	78 02 19	2960	09	25 39 36 N	82 19 22 W
296009	80219	DM4	78 02 19	2960	09	25 39 36 N	82 19 22 W
296010	80218	DM4	78 02 19	2960	10	25 39 36 N	82 19 22 W
296010	70819	DM1	77 08 19	2960	10	25 40 03 N	82 20 01 W
296010	71117	DM2	77 11 17	2960	10	25 40 02 N	82 19 57 W
296010	80218	DM4	78 02 19	2960	10	25 39 36 N	82 19 22 W
296010	80219	DM4	78 02 19	2960	10	25 39 36 N	82 19 22 W
296011	70819	DM1	77 08 19	2960	11	25 40 03 N	82 20 01 W
296011	71117	DM2	77 11 17	2960	11	25 40 02 N	82 19 57 W
296011	80218	DM4	78 02 19	2960	11	25 39 36 N	82 19 22 W
296011	80219	DM4	78 02 19	2960	11	25 39 36 N	82 19 22 W
296012	80219	DM4	78 02 19	2960	12	25 39 36 N	82 19 22 W
296013	80219	DM4	78 02 19	2960	13	25 39 36 N	82 19 22 W
296014	80219	DM4	78 02 19	2960	14	25 39 36 N	82 19 22 W
296015	80219	DM4	78 02 19	2960	15	25 39 36 N	82 19 22 W
296016	80219	DM4	78 02 19	2960	16	25 39 36 N	82 19 22 W
296050	70819	DM1	77 08 19	2960	50	25 40 03 N	82 20 01 W
296050	71117	DM2	77 11 17	2960	50	25 40 02 N	82 19 57 W
296050	80219	DM4	78 02 19	2960	50	25 39 36 N	82 19 22 W
296073	71117	DM2	77 11 17	2960	73	25 40 02 N	82 19 57 W
330818	80712	44	76 07 13	0003	18	28 26 13 N	84 55 03 W
400101	40628	2	74 05 16	4001	01	29 55 02 N	88 43 24 W
400102	40628	2	74 05 16	4001	02	29 55 02 N	88 43 24 W
400108	40616	2	74 05 16	4001	08	29 55 02 N	88 43 24 W
400201	40628	2	74 05 17	2638	01	29 55 16 N	88 26 54 W
400202	40628	2	74 05 17	2638	02	29 55 16 N	88 26 54 W
400301	40628	2	74 05 17	4003	01	29 53 31 N	88 29 49 W
400302	40628	2	74 05 17	4003	02	29 53 31 N	88 29 49 W
400308	40616	2	74 05 17	4003	08	29 53 31 N	88 29 49 W
400401	40628	2	74 05 17	4004	01	29 47 59 N	88 31 21 W
400402	40628	2	74 05 17	4004	02	29 47 59 N	88 31 21 W
400408	40616	2	74 05 17	4004	08	29 47 59 N	88 31 21 W
400501	40628	2	74 05 24	4005	01	29 55 30 N	88 25 00 W
400502	40628	2	74 05 24	4005	02	29 55 30 N	88 25 00 W
400508	40616	2	74 05 24	4005	08	29 55 30 N	88 25 00 W
400601	40628	2	74 05 24	4006	01	29 58 30 N	88 20 58 W
400602	40628	2	74 05 24	4006	02	29 58 30 N	88 20 58 W
400608	40616	2	74 05 24	4006	08	29 58 30 N	88 20 58 W
400701	40628	2	74 05 24	4007	01	29 55 59 N	88 14 58 W
400702	40628	2	74 05 24	4007	02	29 55 59 N	88 14 58 W
400708	40616	2	74 05 24	4007	08	29 55 59 N	88 14 58 W
400801	40628	2	74 05 25	4008	01	30 01 30 N	88 11 59 W
400802	40628	2	74 05 25	4008	02	30 01 30 N	88 11 59 W
400808	40616	2	74 05 25	4008	08	30 01 30 N	88 11 59 W
400901	40628	2	74 05 18	2639	01	29 53 30 N	88 12 27 W
400902	40628	2	74 05 18	2639	02	29 53 30 N	88 12 27 W
401001	40628	2	74 05 18	4010	01	29 48 05 N	88 13 28 W
401002	40628	2	74 05 18	4010	02	29 48 05 N	88 13 28 W
401008	40616	2	74 05 18	4010	08	29 48 05 N	88 13 28 W
401101	40628	2	74 05 25	2640	01	29 43 30 N	87 54 29 W
401102	40628	2	74 05 25	2640	02	29 43 30 N	87 54 29 W
401201	40616	2	74 05 26	4012	01	29 53 03 N	87 08 20 W
401202	40616	2	74 05 26	4012	02	29 53 03 N	87 08 20 W
401208	40616	2	74 05 26	4012	08	29 53 03 N	87 08 20 W
401301	40628	2	74 05 26	2641	01	29 45 29 N	87 46 30 W
401302	40628	2	74 05 26	2641	02	29 45 29 N	87 46 30 W
401401	40628	2	74 05 28	4014	01	29 38 30 N	87 44 59 W
401402	40628	2	74 05 28	4014	02	29 38 30 N	87 44 59 W
401408	40616	2	74 05 28	4014	08	29 38 30 N	87 44 59 W
401501	40628	2	74 05 29	4015	01	29 35 57 N	87 48 03 W
401502	40628	2	74 05 29	4015	02	29 35 57 N	87 48 03 W
401508	40616	2	74 05 29	4015	08	29 35 57 N	87 48 03 W
401601	40628	2	74 05 29	4016	01	29 30 29 N	87 47 00 W
401602	40628	2	74 05 29	4016	02	29 30 29 N	87 47 00 W
401608	40616	2	74 05 29	4016	08	29 30 29 N	87 47 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
401701	40628	2	74 05 27	2642	01	29 40 29 N 87 37 01 W
401702	40628	2	74 05 27	2642	02	29 40 29 N 87 37 01 W
401801	40628	2	74 05 30	2643	01	29 36 30 N 87 26 57 W
401802	40628	2	74 05 30	2643	02	29 36 30 N 87 26 57 W
401901	40628	2	74 05 29	4019	01	29 33 01 N 87 24 00 W
401902	40628	2	74 05 29	4019	02	29 33 01 N 87 24 00 W
401908	40616	2	74 05 29	4019	08	29 33 01 N 87 24 00 W
402001	40628	2	74 05 30	2644	01	29 36 19 N 87 23 25 W
402002	40628	2	74 05 30	2644	02	29 36 19 N 87 23 25 W
402101	40628	2	74 05 30	4021	01	29 37 48 N 87 22 56 W
402102	40628	2	74 05 30	4021	02	29 37 48 N 87 22 56 W
402108	40616	2	74 05 30	4021	08	29 37 48 N 87 22 56 W
402201	40628	2	74 05 31	4022	01	29 58 59 N 86 23 01 W
402202	40628	2	74 05 31	4022	02	29 58 59 N 86 23 01 W
402208	40616	2	74 05 31	4022	08	29 58 59 N 86 23 01 W
402301	40628	2	74 05 31	4023	01	29 48 53 N 86 24 15 W
402302	40628	2	74 05 31	4023	02	29 48 53 N 86 24 15 W
402308	40616	2	74 05 31	4023	08	29 48 53 N 86 24 15 W
402401	40628	2	74 06 01	4024	01	29 54 31 N 86 17 33 W
402402	40628	2	74 06 01	4024	02	29 54 31 N 86 17 33 W
402407	40616	2	74 06 01	4024	07	29 54 31 N 86 17 33 W
402501	40628	2	74 05 31	4025	01	29 51 00 N 86 18 29 W
402502	40628	2	74 05 31	4025	02	29 51 00 N 86 18 29 W
402508	40616	2	74 05 31	4025	08	29 51 00 N 86 18 29 W
402601	40628	2	74 06 07	4026	01	29 46 01 N 86 18 28 W
402602	40628	2	74 06 07	4026	02	29 46 01 N 86 18 28 W
402608	40616	2	74 06 07	4026	08	29 46 01 N 86 18 28 W
402701	40628	2	74 06 02	4027	01	29 54 00 N 86 15 30 W
402702	40628	2	74 06 02	4027	02	29 54 00 N 86 15 30 W
402708	40616	2	74 06 02	4027	08	29 54 00 N 86 15 30 W
402801	40628	2	74 06 07	4028	01	29 48 00 N 86 15 29 W
402802	40628	2	74 06 07	4028	02	29 48 00 N 86 15 29 W
402808	40616	2	74 06 07	4028	08	29 48 00 N 86 15 29 W
402901	40628	2	74 06 06	2533	01	29 42 59 N 86 15 30 W
402902	40628	2	74 06 06	2533	02	29 42 59 N 86 15 30 W
403001	40628	2	74 06 02	4030	01	29 56 04 N 86 12 26 W
403002	40628	2	74 06 02	4030	02	29 56 04 N 86 12 26 W
403008	40616	2	74 06 02	4030	08	29 56 04 N 86 12 26 W
403101	40628	2	74 06 06	2532	01	29 45 59 N 86 12 30 W
403102	40628	2	74 06 06	2532	02	29 45 59 N 86 12 30 W
403301	40628	2	74 06 05	4033	01	29 42 59 N 86 09 29 W
403302	40628	2	74 06 05	4033	02	29 42 59 N 86 09 29 W
403308	40616	2	74 06 05	4033	08	29 42 59 N 86 09 29 W
403401	40628	2	74 06 05	4034	01	29 37 59 N 86 10 29 W
403402	40628	2	74 06 05	4034	02	29 37 59 N 86 10 29 W
403408	40616	2	74 06 05	4034	08	29 37 59 N 86 10 29 W
403501	40628	2	74 06 02	2529	01	29 55 59 N 86 06 30 W
403502	40628	2	74 06 02	2529	02	29 55 59 N 86 06 30 W
403601	40628	2	74 06 06	2530	01	29 51 00 N 86 06 29 W
403602	40628	2	74 06 06	2530	02	29 51 00 N 86 06 29 W
403701	40628	2	74 06 04	4037	01	29 45 59 N 86 06 29 W
403702	40628	2	74 06 04	4037	02	29 45 59 N 86 06 29 W
403708	40616	2	74 06 04	4037	08	29 45 59 N 86 06 29 W
403801	40628	2	74 06 05	4038	01	29 47 59 N 86 03 00 W
403802	40628	2	74 06 05	4038	02	29 47 59 N 86 03 00 W
403808	40616	2	74 06 05	4038	08	29 47 59 N 86 03 00 W
403901	40628	2	74 06 04	4039	01	29 42 59 N 86 03 30 W
403902	40628	2	74 06 04	4039	02	29 42 59 N 86 03 30 W
403908	40616	2	74 06 04	4039	08	29 42 59 N 86 03 30 W
404001	40628	2	74 06 04	4040	01	29 45 27 N 86 00 51 W
404002	40628	2	74 06 04	4040	02	29 45 27 N 86 00 51 W
404008	40616	2	74 06 04	4040	08	29 45 27 N 86 00 51 W
404101	40628	2	74 06 04	4041	01	29 40 29 N 86 00 49 W
404102	40628	2	74 06 04	4041	02	29 40 29 N 86 00 49 W
404108	40616	2	74 06 04	4041	08	29 40 29 N 86 00 49 W
404201	40628	2	74 06 04	4042	01	29 47 29 N 85 54 27 W
404202	40628	2	74 06 04	4042	02	29 47 29 N 85 54 27 W
404208	40616	2	74 06 04	4042	08	29 47 29 N 85 54 27 W
404401	40628	2	74 06 14	4044	01	28 30 00 N 84 28 00 W
404402	40628	2	74 06 14	4044	02	28 30 00 N 84 28 00 W
404408	40616	2	74 06 14	4044	08	28 30 00 N 84 28 00 W
404501	40628	2	74 06 15	4045	01	28 26 29 N 84 23 21 W
404502	40628	2	74 06 15	4045	02	28 26 29 N 84 23 21 W
404508	40616	2	74 06 15	4045	08	28 26 29 N 84 23 21 W
404601	40628	2	74 06 15	4046	01	28 21 00 N 84 23 59 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
404602	40628	2	74 06 15	4046	02	28 21 00 N 84 23 59 W
404608	40616	2	74 06 15	4046	08	28 21 00 N 84 23 59 W
404701	40628	2	74 06 09	2316	01	28 41 59 N 84 20 01 W
404702	40628	2	74 06 09	2316	02	28 41 59 N 84 20 01 W
404801	40628	11	75 06 10	2315	01	28 34 00 N 84 20 25 W
404802	40628	11	75 06 10	2315	02	28 34 00 N 84 20 25 W
405001	40628	2	74 06 15	4050	01	28 24 00 N 84 21 00 W
405002	40628	2	74 06 15	4050	02	28 24 00 N 84 21 00 W
405008	40616	2	74 06 15	4050	08	28 24 00 N 84 21 00 W
405201	40628	2	74 06 10	4052	01	28 31 30 N 84 17 59 W
405202	40628	2	74 06 10	4052	02	28 31 30 N 84 17 59 W
405208	40616	2	74 06 10	4052	08	28 31 30 N 84 17 59 W
405301	40628	2	74 06 14	4053	01	28 13 59 N 84 17 32 W
405302	40628	2	74 06 14	4053	02	28 13 59 N 84 17 32 W
405308	40616	2	74 06 14	4053	08	28 13 59 N 84 17 32 W
405404	40616	2	74 06 10	4054	04	28 41 59 N 84 13 01 W
405501	40628	2	74 06 10	4055	01	28 29 00 N 84 10 59 W
405502	40628	2	74 06 10	4055	02	28 29 00 N 84 10 59 W
405508	40616	2	74 06 10	4055	08	28 29 00 N 84 10 59 W
405601	40628	2	74 06 14	2211	01	27 56 33 N 83 52 56 W
405602	40628	2	74 06 14	2211	02	27 56 33 N 83 52 56 W
405701	40628	2	74 06 16	4057	01	28 00 38 N 83 44 49 W
405702	40628	2	74 06 16	4057	02	28 00 38 N 83 44 49 W
405708	40616	2	74 06 16	4057	08	28 00 38 N 83 44 49 W
406001	40628	2	74 06 16	4060	01	27 55 00 N 83 39 29 W
406002	40628	2	74 06 16	4060	02	27 55 00 N 83 39 29 W
406008	40616	2	74 06 16	4060	08	27 55 00 N 83 39 29 W
406101	40628	2	74 06 16	4061	01	28 01 00 N 83 35 30 W
406102	40628	2	74 06 16	4061	02	28 01 00 N 83 35 30 W
406108	40616	2	74 06 16	4061	08	28 01 00 N 83 35 30 W
406201	40628	2	74 06 17	2209	01	27 52 31 N 83 33 56 W
406301	40628	2	74 06 17	4063	01	27 50 01 N 83 30 59 W
406302	40628	2	74 06 17	4063	02	27 50 01 N 83 30 59 W
406308	40616	2	74 06 17	4063	08	27 50 01 N 83 30 59 W
406401	40628	2	74 06 17	2208	01	27 56 00 N 83 27 29 W
406501	40628	2	74 06 13	4065	01	27 50 00 N 83 25 00 W
406502	40628	2	74 06 13	4065	02	27 50 00 N 83 25 00 W
406508	40616	2	74 06 13	4065	08	27 50 00 N 83 25 00 W
600033	60725	44	76 07 12	0006	33	29 08 47 N 85 13 23 W
600117	60611	38	76 06 11	6001	17	29 56 00 N 85 59 00 W
600117	60612	38	76 06 12	6001	17	29 56 00 N 85 59 00 W
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600117	60615	38	76 06 15	6001	17	29 56 00 N 85 59 00 W
600117	60616	38	76 06 16	6001	17	29 56 00 N 85 59 00 W
600130	60611	38	76 06 11	6001	30	29 56 00 N 85 59 00 W
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600131	60612	38	76 06 12	6001	31	29 56 00 N 85 59 00 W
600131	60613	38	76 06 13	6001	31	29 56 00 N 85 59 00 W
600131	60614	38	76 06 14	6001	31	29 56 00 N 85 59 00 W
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600133	60613	38	76 06 13	6001	33	29 56 00 N 85 59 00 W
600133	60614	38	76 06 14	6001	33	29 56 00 N 85 59 00 W
600133	60615	38	76 06 15	6001	33	29 56 00 N 85 59 00 W
600133	60616	38	76 06 16	6001	33	29 56 00 N 85 59 00 W
600134	60612	38	76 06 12	6001	34	29 56 00 N 85 59 00 W
600134	60613	38	76 06 13	6001	34	29 56 00 N 85 59 00 W
600134	60614	38	76 06 14	6001	34	29 56 00 N 85 59 00 W
600134	60615	38	76 06 15	6001	34	29 56 00 N 85 59 00 W
600135	60612	38	76 06 12	6001	35	29 56 00 N 85 59 00 W
600135	60613	38	76 06 13	6001	35	29 56 00 N 85 59 00 W
600135	60614	38	76 06 14	6001	35	29 56 00 N 85 59 00 W
600135	60615	38	76 06 15	6001	35	29 56 00 N 85 59 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
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600136 60013	38	76 06 13	6001	36	29 56 00 N	85 59 00 W
600136 60014	38	76 06 14	6001	36	29 56 00 N	85 59 00 W
600136 60015	38	76 06 15	6001	36	29 56 00 N	85 59 00 W
600150 60012	38	76 06 12	6001	50	29 56 00 N	85 59 00 W
600150 60013	38	76 06 13	6001	50	29 56 00 N	85 59 00 W
600150 60014	38	76 06 14	6001	50	29 56 00 N	85 59 00 W
600150 60015	38	76 06 15	6001	50	29 56 00 N	85 59 00 W
600150 60016	38	76 06 16	6001	50	29 56 00 N	85 59 00 W
600151 60012	38	76 06 12	6001	51	29 56 00 N	85 59 00 W
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600151 60016	38	76 06 16	6001	51	29 56 00 N	85 59 00 W
600152 60012	38	76 06 12	6001	52	29 56 00 N	85 59 00 W
600152 60013	38	76 06 13	6001	52	29 56 00 N	85 59 00 W
600152 60014	38	76 06 14	6001	52	29 56 00 N	85 59 00 W
600152 60015	38	76 06 15	6001	52	29 56 00 N	85 59 00 W
600152 60016	38	76 06 16	6001	52	29 56 00 N	85 59 00 W
600153 60012	38	76 06 12	6001	53	29 56 00 N	85 59 00 W
600153 60013	38	76 06 13	6001	53	29 56 00 N	85 59 00 W
600153 60014	38	76 06 14	6001	53	29 56 00 N	85 59 00 W
600153 60015	38	76 06 15	6001	53	29 56 00 N	85 59 00 W
600153 60016	38	76 06 16	6001	53	29 56 00 N	85 59 00 W
600154 60012	38	76 06 12	6001	54	29 56 00 N	85 59 00 W
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600157 60014	38	76 06 14	6001	57	29 56 00 N	85 59 00 W
600157 60015	38	76 06 15	6001	57	29 56 00 N	85 59 00 W
600201 60709	41	76 07 09	6002	01	29 47 00 N	88 13 00 W
600217 60710	41	76 07 10	6002	17	29 47 00 N	88 13 00 W
600217 60711	41	76 07 11	6002	17	29 47 00 N	88 13 00 W
600217 60712	41	76 07 12	6002	17	29 47 00 N	88 13 00 W
600217 60713	41	76 07 13	6002	17	29 47 00 N	88 13 00 W
600217 60714	41	76 07 14	6002	17	29 47 00 N	88 13 00 W
600217 60715	41	76 07 15	6002	17	29 47 00 N	88 13 00 W
600230 60710	41	76 07 10	6002	30	29 47 00 N	88 13 00 W
600230 60711	41	76 07 11	6002	30	29 47 00 N	88 13 00 W
600230 60712	41	76 07 12	6002	30	29 47 00 N	88 13 00 W
600230 60713	41	76 07 13	6002	30	29 47 00 N	88 13 00 W
600230 60714	41	76 07 14	6002	30	29 47 00 N	88 13 00 W
600230 60715	41	76 07 15	6002	30	29 47 00 N	88 13 00 W
600231 60710	41	76 07 10	6002	31	29 47 00 N	88 13 00 W
600231 60711	41	76 07 11	6002	31	29 47 00 N	88 13 00 W
600231 60712	41	76 07 12	6002	31	29 47 00 N	88 13 00 W
600231 60713	41	76 07 13	6002	31	29 47 00 N	88 13 00 W
600231 60714	41	76 07 14	6002	31	29 47 00 N	88 13 00 W
600231 60715	41	76 07 15	6002	31	29 47 00 N	88 13 00 W
600232 60711	41	76 07 11	6002	32	29 47 00 N	88 13 00 W
600232 60712	41	76 07 12	6002	32	29 47 00 N	88 13 00 W
600232 60713	41	76 07 13	6002	32	29 47 00 N	88 13 00 W
600232 60714	41	76 07 14	6002	32	29 47 00 N	88 13 00 W
600232 60715	41	76 07 15	6002	32	29 47 00 N	88 13 00 W
600233 60711	41	76 07 11	6002	33	29 47 00 N	88 13 00 W
600233 60712	41	76 07 12	6002	33	29 47 00 N	88 13 00 W
600233 60713	41	76 07 13	6002	33	29 47 00 N	88 13 00 W
600233 60714	41	76 07 14	6002	33	29 47 00 N	88 13 00 W
600233 60715	41	76 07 15	6002	33	29 47 00 N	88 13 00 W
600234 60711	41	76 07 11	6002	34	29 47 00 N	88 13 00 W
600234 60712	41	76 07 12	6002	34	29 47 00 N	88 13 00 W
600234 60713	41	76 07 13	6002	34	29 47 00 N	88 13 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
600234	60714	41	78 07 14	6002	34	29 47 00 N	88 13 00 W
600235	60711	41	78 07 11	6002	35	29 47 00 N	88 13 00 W
600235	60712	41	78 07 12	6002	35	29 47 00 N	88 13 00 W
600235	60713	41	78 07 13	6002	35	29 47 00 N	88 13 00 W
600235	60714	41	78 07 14	6002	35	29 47 00 N	88 13 00 W
600236	60711	41	78 07 11	6002	36	29 47 00 N	88 13 00 W
600236	60712	41	78 07 12	6002	36	29 47 00 N	88 13 00 W
600236	60713	41	78 07 13	6002	36	29 47 00 N	88 13 00 W
600236	60714	41	78 07 14	6002	36	29 47 00 N	88 13 00 W
600250	60710	41	78 07 10	6002	50	29 47 00 N	88 13 00 W
600250	60711	41	78 07 11	6002	50	29 47 00 N	88 13 00 W
600250	60712	41	78 07 12	6002	50	29 47 00 N	88 13 00 W
600250	60713	41	78 07 13	6002	50	29 47 00 N	88 13 00 W
600250	60714	41	78 07 14	6002	50	29 47 00 N	88 13 00 W
600250	60715	41	78 07 15	6002	50	29 47 00 N	88 13 00 W
600251	60710	41	78 07 10	6002	51	29 47 00 N	88 13 00 W
600251	60711	41	78 07 11	6002	51	29 47 00 N	88 13 00 W
600251	60712	41	78 07 12	6002	51	29 47 00 N	88 13 00 W
600251	60713	41	78 07 13	6002	51	29 47 00 N	88 13 00 W
600251	60714	41	78 07 14	6002	51	29 47 00 N	88 13 00 W
600251	60715	41	78 07 15	6002	51	29 47 00 N	88 13 00 W
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600254	60713	41	78 07 13	6002	54	29 47 00 N	88 13 00 W
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600254	60715	41	78 07 15	6002	54	29 47 00 N	88 13 00 W
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600256	60711	41	78 07 11	6002	56	29 47 00 N	88 13 00 W
600256	60712	41	78 07 12	6002	56	29 47 00 N	88 13 00 W
600256	60713	41	78 07 13	6002	56	29 47 00 N	88 13 00 W
600256	60714	41	78 07 14	6002	56	29 47 00 N	88 13 00 W
600257	60711	41	78 07 11	6002	57	29 47 00 N	88 13 00 W
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600268	60710	41	78 07 10	6002	68	29 47 00 N	88 13 00 W
600268	60711	41	78 07 11	6002	68	29 47 00 N	88 13 00 W
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600268	60714	41	78 07 14	6002	68	29 47 00 N	88 13 00 W
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600269	60710	41	78 07 10	6002	69	29 47 00 N	88 13 00 W
600269	60711	41	78 07 11	6002	69	29 47 00 N	88 13 00 W
600269	60712	41	78 07 12	6002	69	29 47 00 N	88 13 00 W
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600270	60713	41	78 07 13	6002	70	29 47 00 N	88 13 00 W
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600271	60711	41	78 07 11	6002	71	29 47 00 N	88 13 00 W
600271	60712	41	78 07 12	6002	71	29 47 00 N	88 13 00 W
600271	60713	41	78 07 13	6002	71	29 47 00 N	88 13 00 W
600271	60714	41	78 07 14	6002	71	29 47 00 N	88 13 00 W
600271	60715	41	78 07 15	6002	71	29 47 00 N	88 13 00 W
600272	60711	41	78 07 11	6002	72	29 47 00 N	88 13 00 W
600272	60712	41	78 07 12	6002	72	29 47 00 N	88 13 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
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600272	60714	41	76 07 14	6002	72	29 47 00 N 88 13 00 W
600272	60715	41	76 07 15	6002	72	29 47 00 N 88 13 00 W
600273	60711	41	76 07 11	6002	73	29 47 00 N 88 13 00 W
600273	60712	41	76 07 12	6002	73	29 47 00 N 88 13 00 W
600273	60713	41	76 07 13	6002	73	29 47 00 N 88 13 00 W
600273	60714	41	76 07 14	6002	73	29 47 00 N 88 13 00 W
600273	60715	41	76 07 15	6002	73	29 47 00 N 88 13 00 W
600274	60711	41	76 07 11	6002	74	29 47 00 N 88 13 00 W
600274	60712	41	76 07 12	6002	74	29 47 00 N 88 13 00 W
600274	60713	41	76 07 13	6002	74	29 47 00 N 88 13 00 W
600274	60714	41	76 07 14	6002	74	29 47 00 N 88 13 00 W
600274	60715	41	76 07 15	6002	74	29 47 00 N 88 13 00 W
600275	60711	41	76 07 11	6002	75	29 47 00 N 88 13 00 W
600275	60712	41	76 07 12	6002	75	29 47 00 N 88 13 00 W
600275	60713	41	76 07 13	6002	75	29 47 00 N 88 13 00 W
600275	60714	41	76 07 14	6002	75	29 47 00 N 88 13 00 W
600275	60715	41	76 07 15	6002	75	29 47 00 N 88 13 00 W
600276	60711	41	76 07 11	6002	76	29 47 00 N 88 13 00 W
600276	60712	41	76 07 12	6002	76	29 47 00 N 88 13 00 W
600276	60713	41	76 07 13	6002	76	29 47 00 N 88 13 00 W
600276	60714	41	76 07 14	6002	76	29 47 00 N 88 13 00 W
600277	60711	41	76 07 11	6002	77	29 47 00 N 88 13 00 W
600277	60712	41	76 07 12	6002	77	29 47 00 N 88 13 00 W
600277	60713	41	76 07 13	6002	77	29 47 00 N 88 13 00 W
600277	60714	41	76 07 14	6002	77	29 47 00 N 88 13 00 W
600278	60711	41	76 07 11	6002	78	29 47 00 N 88 13 00 W
600278	60712	41	76 07 12	6002	78	29 47 00 N 88 13 00 W
600278	60713	41	76 07 13	6002	78	29 47 00 N 88 13 00 W
600278	60714	41	76 07 14	6002	78	29 47 00 N 88 13 00 W
600279	60711	41	76 07 11	6002	79	29 47 00 N 88 13 00 W
600279	60712	41	76 07 12	6002	79	29 47 00 N 88 13 00 W
600279	60713	41	76 07 13	6002	79	29 47 00 N 88 13 00 W
600279	60714	41	76 07 14	6002	79	29 47 00 N 88 13 00 W
600300	50628	11	75 06 28	6003	00	28 36 16 N 84 15 40 W
600300	50629	11	75 06 29	6003	00	28 36 16 N 84 15 40 W
600300	51003	19	75 10 03	6003	00	28 36 15 N 84 15 51 W
600300	51004	19	75 10 03	6003	00	28 36 15 N 84 15 51 W
600300	60216	32	76 02 16	6003	00	28 36 15 N 84 15 51 W
600317	60722	42	76 07 22	6003	17	28 36 00 N 84 16 00 W
600317	60723	42	76 07 23	6003	17	28 36 00 N 84 16 00 W
600317	60724	42	76 07 24	6003	17	28 36 00 N 84 16 00 W
600317	60725	42	76 07 25	6003	17	28 36 00 N 84 16 00 W
600317	60726	42	76 07 26	6003	17	28 36 00 N 84 16 00 W
600317	60727	42	76 07 27	6003	17	28 36 00 N 84 16 00 W
600318	60629	37	76 06 29	6003	18	28 36 12 N 84 15 45 W
600330	60723	42	76 07 23	6003	30	28 36 00 N 84 16 00 W
600330	60724	42	76 07 24	6003	30	28 36 00 N 84 16 00 W
600330	60725	42	76 07 25	6003	30	28 36 00 N 84 16 00 W
600330	60726	42	76 07 26	6003	30	28 36 00 N 84 16 00 W
600330	60727	42	76 07 27	6003	30	28 36 00 N 84 16 00 W
600331	60723	42	76 07 23	6003	31	28 36 00 N 84 16 00 W
600331	60724	42	76 07 24	6003	31	28 36 00 N 84 16 00 W
600331	60725	42	76 07 25	6003	31	28 36 00 N 84 16 00 W
600331	60726	42	76 07 26	6003	31	28 36 00 N 84 16 00 W
600331	60727	42	76 07 27	6003	31	28 36 00 N 84 16 00 W
600332	60723	42	76 07 23	6003	32	28 36 00 N 84 16 00 W
600332	60724	42	76 07 24	6003	32	28 36 00 N 84 16 00 W
600332	60725	42	76 07 25	6003	32	28 36 00 N 84 16 00 W
600332	60726	42	76 07 26	6003	32	28 36 00 N 84 16 00 W
600332	60727	42	76 07 27	6003	32	28 36 00 N 84 16 00 W
600333	60723	42	76 07 23	6003	33	28 36 00 N 84 16 00 W
600333	60724	42	76 07 24	6003	33	28 36 00 N 84 16 00 W
600333	60725	42	76 07 25	6003	33	28 36 00 N 84 16 00 W
600333	60726	42	76 07 26	6003	33	28 36 00 N 84 16 00 W
600333	60727	42	76 07 27	6003	33	28 36 00 N 84 16 00 W
600334	60723	42	76 07 23	6003	34	28 36 00 N 84 16 00 W
600334	60724	42	76 07 24	6003	34	28 36 00 N 84 16 00 W
600334	60725	42	76 07 25	6003	34	28 36 00 N 84 16 00 W
600334	60726	42	76 07 26	6003	34	28 36 00 N 84 16 00 W
600334	60727	42	76 07 27	6003	34	28 36 00 N 84 16 00 W
600335	60723	42	76 07 23	6003	35	28 36 00 N 84 16 00 W
600335	60724	42	76 07 24	6003	35	28 36 00 N 84 16 00 W
600335	60725	42	76 07 25	6003	35	28 36 00 N 84 16 00 W
600335	60726	42	76 07 26	6003	35	28 36 00 N 84 16 00 W



## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	
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600336	60723	42	76 07 23	6003	36	28 36 00 N	84 16 00 W
600336	60724	42	76 07 24	6003	36	28 36 00 N	84 16 00 W
600336	60725	42	76 07 25	6003	36	28 36 00 N	84 16 00 W
600336	60726	42	76 07 26	6003	36	28 36 00 N	84 16 00 W
600336	60727	42	76 07 27	6003	36	28 36 00 N	84 16 00 W
600337	60726	42	76 07 26	6003	37	28 36 00 N	84 16 00 W
600340	60629	37	76 06 29	6003	40	28 36 12 N	84 15 45 W
600341	60630	44	76 07 12	6003	41	28 36 00 N	84 16 00 W
600342	60630	44	76 07 12	6003	42	28 36 00 N	84 16 00 W
600343	60630	44	76 07 12	6003	43	28 36 00 N	84 16 00 W
600344	60630	44	76 07 12	6003	44	28 36 00 N	84 16 00 W
600345	60630	44	76 07 12	6003	45	28 36 00 N	84 16 00 W
600350	60723	42	76 07 23	6003	50	28 36 00 N	84 16 00 W
600350	60724	42	76 07 24	6003	50	28 36 00 N	84 16 00 W
600350	60725	42	76 07 25	6003	50	28 36 00 N	84 16 00 W
600350	60726	42	76 07 26	6003	50	28 36 00 N	84 16 00 W
600350	60727	42	76 07 27	6003	50	28 36 00 N	84 16 00 W
600351	60723	42	76 07 23	6003	51	28 36 00 N	84 16 00 W
600351	60724	42	76 07 24	6003	51	28 36 00 N	84 16 00 W
600351	60725	42	76 07 25	6003	51	28 36 00 N	84 16 00 W
600351	60726	42	76 07 26	6003	51	28 36 00 N	84 16 00 W
600351	60727	42	76 07 27	6003	51	28 36 00 N	84 16 00 W
600352	60723	42	76 07 23	6003	52	28 36 00 N	84 16 00 W
600352	60724	42	76 07 24	6003	52	28 36 00 N	84 16 00 W
600352	60725	42	76 07 25	6003	52	28 36 00 N	84 16 00 W
600352	60726	42	76 07 26	6003	52	28 36 00 N	84 16 00 W
600352	60727	42	76 07 27	6003	52	28 36 00 N	84 16 00 W
600353	60723	42	76 07 23	6003	53	28 36 00 N	84 16 00 W
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600354	60723	42	76 07 23	6003	54	28 36 00 N	84 16 00 W
600354	60724	42	76 07 24	6003	54	28 36 00 N	84 16 00 W
600354	60725	42	76 07 25	6003	54	28 36 00 N	84 16 00 W
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600368	50723	15	75 07 26	0003	68	28 26 00 N	84 56 00 W
600368	60724	42	76 07 24	6003	68	28 36 00 N	84 16 00 W
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600370	60727	42	76 07 27	6003	70	28 36 00 N	84 16 00 W
600371	60723	42	76 07 23	6003	71	28 36 00 N	84 16 00 W
600371	60724	42	76 07 24	6003	71	28 36 00 N	84 16 00 W
600371	60725	42	76 07 25	6003	71	28 36 00 N	84 16 00 W
600371	60726	42	76 07 26	6003	71	28 36 00 N	84 16 00 W
600371	60727	42	76 07 27	6003	71	28 36 00 N	84 16 00 W
600372	60723	42	76 07 23	6003	72	28 36 00 N	84 16 00 W

## MAFLA SAMPLE LIST

SAMPLE IDENTIFIER	CRUISE	DATE (YYMMDD)	STATION	REP.	LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)
600372 60724	42	76 07 24	6003	72	28 36 00 N	84 16 00 W
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600372 60727	42	76 07 27	6003	72	28 36 00 N	84 16 00 W
600373 60723	42	76 07 23	6003	73	28 36 00 N	84 16 00 W
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600373 60726	42	76 07 26	6003	73	28 36 00 N	84 16 00 W
600373 60727	42	76 07 27	6003	73	28 36 00 N	84 16 00 W
600374 60723	42	76 07 23	6003	74	28 36 00 N	84 16 00 W
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600374 60726	42	76 07 26	6003	74	28 36 00 N	84 16 00 W
600374 60727	42	76 07 27	6003	74	28 36 00 N	84 16 00 W
600375 60723	42	76 07 23	6003	75	28 36 00 N	84 16 00 W
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600375 60727	42	76 07 27	6003	75	28 36 00 N	84 16 00 W
600376 60723	42	76 07 23	6003	76	28 36 00 N	84 16 00 W
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600376 60726	42	76 07 26	6003	76	28 36 00 N	84 16 00 W
600376 60727	42	76 07 27	6003	76	28 36 00 N	84 16 00 W
600377 60723	42	76 07 23	6003	77	28 36 00 N	84 16 00 W
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600377 60725	42	76 07 25	6003	77	28 36 00 N	84 16 00 W
600377 60726	42	76 07 26	6003	77	28 36 00 N	84 16 00 W
600377 60727	42	76 07 27	6003	77	28 36 00 N	84 16 00 W
600378 60723	42	76 07 23	6003	78	28 36 00 N	84 16 00 W
600378 60724	42	76 07 24	6003	78	28 36 00 N	84 16 00 W
600378 60725	42	76 07 25	6003	78	28 36 00 N	84 16 00 W
600378 60726	42	76 07 26	6003	78	28 36 00 N	84 16 00 W
600378 60727	42	76 07 27	6003	78	28 36 00 N	84 16 00 W
600379 60724	42	76 07 24	6003	79	28 36 00 N	84 16 00 W
600379 60725	42	76 07 25	6003	79	28 36 00 N	84 16 00 W
600379 60726	42	76 07 26	6003	79	28 36 00 N	84 16 00 W

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8600025	F124	TT5824	0083	31QA	32LH	1976/08/09	STOCS34	158688
8600025	F124	TT5825	0083	31QA	32LH	1976/08/10	STOCS35	158689
8600025	F124	TT5826	0083	31QA	32LH	1976/09/10	STOCS38	158690
8600025	F124	TT5827	0083	31QA	32LH	1976/11/09	STOCS45	158691
8600025	F124	TT5828	0083	31QA	32LH	1976/12/02	STOCS47	158692
8600025	F124	TT5829	0083	31QA	32LH	1977/01/11	STOCS51	158693
8600025	F124	TT5830	0083	31QA	32LH	1977/01/18	STOCS53	158694
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8600025	F124	TT5842	32LH	10	156	74/12/12	74/12/17
8600025	F124	TT5843	32LH	2	31	75/01/09	75/01/09
8600025	F124	TT5844	32LH	4	60	75/01/16	75/01/17
8600025	F124	TT5845	32LH	6	79	75/01/22	75/01/25
8600025	F124	TT5846	32LH	8	115	75/04/08	75/04/10
8600025	F124	TT5847	32LH	4	42	75/04/17	75/04/18
8600025	F124	TT5848	32LH	9	152	75/04/30	75/05/02
8600025	F124	TT5849	32LH	13	181	75/05/13	75/05/16
8600025	F124	TT5850	32LH	9	133	75/08/26	75/08/28
8600025	F124	TT5851	32LH	18	277	75/09/04	75/09/08
8600025	F124	TT5852	32LH	9	140	75/09/12	75/09/13
8600025	F124	TT5853	32LH	2	29	76/01/14	76/01/14
8600025	F124	TT5854	32LH	34	511	76/01/30	76/02/03
8600025	F124	TT5855	32LH	13	191	76/03/18	76/03/20
8600025	F124	TT5856	32LH	14	180	76/04/02	76/04/04
8600025	F124	TT5857	32LH	40	600	76/05/28	76/06/07
8600025	F124	TT5858	32LH	29	382	76/09/10	76/09/16
8600025	F124	TT5859	32LH	4	30	77/01/11	77/01/11
8600025	F124	TT5860	32LH	20	226	77/01/18	77/01/21
8600025	F124	TT5861	32LH	6	39	77/02/21	77/02/22
8600025	F124	TT5862	32LH	32	284	77/05/16	77/05/20
8600025	F124	TT5863	32LH	8	109	77/07/06	77/07/06
8600025	F124	TT5864	32LH	8	124	77/08/04	77/08/04
8600025	F124	TT5865	32LH	32	435	77/09/07	77/09/11
8600025	F124	TT5866	32LH	7	65	77/11/05	77/11/06
8600025	F124	TT5867	32LH	8	124	77/12/02	77/12/03
8600025	F124	TT5868	32LH	3	69	74/12/04	74/12/06
8600025	F124	TT5869	32LH	5	117	74/12/12	74/12/17
8600025	F124	TT5870	32LH	1	12	75/01/09	75/01/09
8600025	F124	TT5871	32LH	3	67	75/01/22	75/01/25
8600025	F124	TT5872	32LH	3	36	75/04/08	75/04/10
8600025	F124	TT5873	32LH	2	16	75/04/17	75/04/18
8600025	F124	TT5874	32LH	3	57	75/04/30	75/05/02
8600025	F124	TT5875	32LH	4	109	75/05/13	75/05/16
8600025	F124	TT5876	32LH	3	60	75/08/26	75/08/28
8600025	F124	TT5877	32LH	6	129	75/09/04	75/09/08
8600025	F124	TT5878	32LH	3	51	75/09/12	75/09/13
8600025	F124	TT5879	32LH	1	18	76/01/14	76/01/14

8600025	F124	TT5880	32LH	11	209	76/01/30	76/02/03
8600025	F124	TT5881	32LH	3	38	76/03/19	76/03/20
8600025	F124	TT5882	32LH	4	41	76/04/03	76/04/04
8600025	F124	TT5883	32LH	13	257	76/05/30	76/06/07
8600025	F124	TT5884	32LH	5	57	76/07/10	76/07/11
8600025	F124	TT5885	32LH	3	44	76/08/09	76/08/11
8600025	F124	TT5886	32LH	2	21	76/08/10	76/08/11
8600025	F124	TT5887	32LH	14	377	76/09/10	76/09/16
8600025	F124	TT5888	32LH	5	49	76/11/08	76/11/10
8600025	F124	TT5889	32LH	5	75	76/12/01	76/12/02
8600025	F124	TT5890	32LH	3	38	77/01/11	77/01/11
8600025	F124	TT5891	32LH	14	232	77/01/18	77/01/21
8600025	F124	TT5892	32LH	6	63	77/02/21	77/02/22
8600025	F124	TT5893	32LH	24	193	77/05/16	77/05/20
8600025	F124	TT5894	32LH	6	51	77/07/06	77/07/06
8600025	F124	TT5895	32LH	6	63	77/08/04	77/08/04
8600025	F124	TT5896	32LH	24	319	77/09/07	77/09/11
8600025	F124	TT5897	32LH	6	46	77/11/05	77/11/06
8600025	F124	TT5898	32LH	6	47	77/12/02	77/12/03
8600025	F124	TT5899	32LH	12	37	74/12/03	74/12/06
8600025	F124	TT5900	32LH	20	61	74/12/11	74/12/18
8600025	F124	TT5901	32LH	2	7	75/01/09	75/01/09
8600025	F124	TT5902	32LH	12	37	75/01/21	75/01/25
8600025	F124	TT5903	32LH	2	7	75/02/26	75/02/27
8600025	F124	TT5904	32LH	8	25	75/04/16	75/04/17
8600025	F124	TT5905	32LH	12	37	75/04/29	75/05/02
8600025	F124	TT5906	32LH	12	37	75/05/06	75/05/07
8600025	F124	TT5907	32LH	16	49	75/05/13	75/05/17
8600025	F124	TT5908	32LH	8	25	75/08/26	75/08/28
8600025	F124	TT5909	32LH	24	73	75/09/04	75/09/08
8600025	F124	TT5910	32LH	12	37	75/09/11	75/09/13
8600025	F124	TT5911	32LH	4	13	75/09/29	75/09/30
8600025	F124	TT5912	32LH	2	7	76/01/14	76/01/14
8600025	F124	TT5913	32LH	22	67	76/01/30	76/02/03
8600025	F124	TT5914	32LH	6	19	76/03/17	76/03/19
8600025	F124	TT5915	32LH	6	19	76/04/02	76/04/03
8600025	F124	TT5916	32LH	24	73	76/05/28	76/06/07
8600025	F124	TT5917	32LH	6	19	76/07/10	76/07/11
8600025	F124	TT5918	32LH	6	19	76/08/27	76/08/28
8600025	F124	TT5919	32LH	24	73	76/09/10	76/09/15
8600025	F124	TT5920	32LH	6	19	76/11/09	76/11/10
8600025	F124	TT5921	32LH	6	19	76/12/01	76/12/02
8600025	F124	TT5922	32LH	4	13	77/01/11	77/01/11
8600025	F124	TT5923	32LH	16	49	77/01/19	77/01/21
8600025	F124	TT5924	32LH	4	13	77/02/21	77/02/22
8600025	F124	TT5925	32LH	6	19	77/03/14	77/03/15
8600025	F124	TT5926	32LH	6	19	77/04/20	77/04/21
8600025	F124	TT5927	32LH	24	73	77/05/16	77/05/20
8600025	F124	TT5928	32LH	6	19	77/07/06	77/07/07
8600025	F124	TT5929	32LH	6	19	77/08/04	77/08/04
8600025	F124	TT5930	32LH	24	73	77/09/07	77/09/11
8600025	F124	TT5931	32LH	6	19	77/11/05	77/11/06
8600025	F124	TT5932	32LH	6	19	77/12/02	77/12/03
8600025	F124	TT5933	32LH	4	13	76/02/08	76/02/09
8600025	F124	TT5934	32LH	5	16	76/02/14	76/02/16
8600025	F124	TT5936	32LH	5	16	76/03/09	76/03/11
8600025	F124	TT5937	32LH	6	19	76/03/24	76/03/28
8600025	F124	TT5938	32LH	6	19	76/04/08	76/04/10
8600025	F124	TT5939	32LH	8	25	76/06/10	76/06/13
8600025	F124	TT5940	32LH	8	25	76/06/19	76/06/21



8600025	F124	TT5941	32LH	8	25	76/06/25	76/06/29
8600025	F124	TT5942	32LH	6	19	76/07/17	76/07/19
8600025	F124	TT5943	32LH	6	19	76/08/27	76/08/29
8600025	F124	TT5944	32LH	12	37	76/09/19	76/09/23
8600025	F124	TT5945	32LH	12	37	76/10/06	76/10/11
8600025	F124	TT5946	32LH	6	19	76/11/15	76/11/19
8600025	F124	TT5947	32LH	6	19	76/12/08	76/12/09
8600025	F124	TT5948	32LH	4	13	77/01/11	77/01/11
8600025	F124	TT5949	32LH	8	25	77/01/19	77/01/21
8600025	F124	TT5950	32LH	3	10	77/02/21	77/02/22
8600025	F124	TT5951	32LH	6	19	77/03/14	77/03/15
8600025	F124	TT5952	32LH	6	19	77/04/20	77/04/21
8600025	F124	TT5953	32LH	15	46	77/05/16	77/05/20
8600025	F124	TT5954	32LH	6	19	77/07/06	77/07/07
8600025	F124	TT5955	32LH	6	19	77/08/18	77/08/19
8600025	F124	TT5956	32LH	15	46	77/09/07	77/09/11
8600025	F124	TT5957	32LH	6	19	77/11/05	77/11/06
8600025	F124	TT5958	32LH	6	19	77/12/18	77/12/19
8600025	F124	TT5959	32LH	20	133	76/07/23	76/07/27
8600025	F124	TT5960	32LH	21	124	78/02/08	78/02/13
8600025	F124	TT5961	32LH	40	469	76/06/11	76/06/16
8600025	F124	TT5962	32LH	40	370	76/07/10	76/07/15
8600025	F124	TT5963	32LH	40	792	76/07/22	76/07/27
8600025	F124	TT5964	32LH	38	491	76/08/02	76/08/07
8600025	F124	TT5965	32LH	121	2176	78/02/02	78/02/25
8600025	F124	TT5935	32LH	10	31	76/02/26	76/02/29
8600025	F124	TT5790	32LH	10	315	76/02/26	76/02/29
8600025	F124	TT5754	32LH	12	714	74/12/03	74/12/06
8600025	F124	TT5755	32LH	20	1143	74/12/11	74/12/18
8600025	F124	TT5756	32LH	10	134	75/01/09	75/01/09
8600025	F124	TT5757	32LH	12	745	75/01/21	75/01/25
8600025	F124	TT5758	32LH	10	113	75/02/26	75/02/27
8600025	F124	TT5759	32LH	10	308	75/04/16	75/04/17
8600025	F124	TT5760	32LH	12	680	75/04/29	75/05/02
8600025	F124	TT5761	32LH	12	664	75/05/06	75/05/07
8600025	F124	TT5762	32LH	16	1123	75/05/13	75/05/17
8600025	F124	TT5763	32LH	10	380	75/08/26	75/08/28
8600025	F124	TT5764	32LH	24	1392	75/09/04	75/09/08
8600025	F124	TT5765	32LH	12	604	75/09/11	75/09/13
8600025	F124	TT5766	32LH	10	316	75/09/29	75/09/30
8600025	F124	TT5767	32LH	10	121	76/01/14	76/01/14
8600025	F124	TT5768	32LH	22	1539	76/01/30	76/02/03
8600025	F124	TT5769	32LH	10	393	76/03/17	76/03/19
8600025	F124	TT5770	32LH	10	354	76/04/02	76/04/03
8600025	F124	TT5771	32LH	24	1573	76/05/28	76/06/07
8600025	F124	TT5772	32LH	10	350	76/07/10	76/07/11
8600025	F124	TT5773	32LH	10	382	76/08/27	76/08/28
8600025	F124	TT5774	32LH	24	1405	76/09/10	76/09/15
8600025	F124	TT5775	32LH	10	377	76/11/09	76/11/10
8600025	F124	TT5776	32LH	10	430	76/12/01	76/12/02
8600025	F124	TT5777	32LH	10	260	77/01/11	77/01/11
8600025	F124	TT5778	32LH	16	1154	77/01/19	77/01/21
8600025	F124	TT5779	32LH	10	293	77/02/21	77/02/22
8600025	F124	TT5780	32LH	10	366	77/03/14	77/03/15
8600025	F124	TT5781	32LH	10	402	77/04/20	77/04/21
8600025	F124	TT5782	32LH	24	1634	77/05/16	77/05/20
8600025	F124	TT5783	32LH	10	403	77/07/06	77/07/07
8600025	F124	TT5784	32LH	10	374	77/08/04	77/08/04
8600025	F124	TT5785	32LH	24	1205	77/09/07	77/09/11
8600025	F124	TT5786	32LH	10	338	77/11/05	77/11/06

8600025	F124	TT5787	32LH	10	349	77/12/02	77/12/03
8600025	F124	TT5788	32LH	10	180	76/02/08	76/02/09
8600025	F124	TT5789	32LH	10	198	76/02/14	76/02/16
8600025	F124	TT5791	32LH	10	243	76/03/09	76/03/11
8600025	F124	TT5792	32LH	10	256	76/03/24	76/03/28
8600025	F124	TT5793	32LH	10	218	76/04/08	76/04/10
8600025	F124	TT5797	32LH	10	200	76/07/17	76/07/19
8600025	F124	TT5799	32LH	12	436	76/09/19	76/09/23
8600025	F124	TT5800	32LH	12	470	76/10/06	76/10/11
8600025	F124	TT5801	32LH	10	233	76/11/15	76/11/19
8600025	F124	TT5802	32LH	10	227	76/12/08	76/12/09
8600025	F124	TT5810	32LH	10	250	77/08/18	77/08/19
8600025	F124	TT5813	32LH	10	304	77/12/18	77/12/19
8600025	F124	TT5794	32LH	10	252	76/06/10	76/06/13
8600025	F124	TT5795	32LH	10	255	76/06/19	76/06/21
8600025	F124	TT5796	32LH	10	273	76/06/25	76/06/29
8600025	F124	TT5798	32LH	10	244	76/08/27	76/08/29
8600025	F124	TT5803	32LH	10	172	77/01/11	77/01/11
8600025	F124	TT5804	32LH	10	259	77/01/19	77/01/21
8600025	F124	TT5805	32LH	10	156	77/02/21	77/02/22
8600025	F124	TT5806	32LH	10	309	77/03/14	77/03/15
8600025	F124	TT5807	32LH	10	330	77/04/20	77/04/21
8600025	F124	TT5808	32LH	15	628	77/05/16	77/05/20
8600025	F124	TT5809	32LH	10	250	77/07/06	77/07/07
8600025	F124	TT5811	32LH	15	573	77/09/07	77/09/11
8600025	F124	TT5812	32LH	10	264	77/11/05	77/11/06
8600025	F124	TT5814	32LH	4	53	74/12/12	74/12/17
8600025	F124	TT5815	32LH	2	21	75/01/09	75/01/09
8600025	F124	TT5816	32LH	4	47	75/04/17	75/04/18
8600025	F124	TT5817	32LH	2	32	75/05/16	75/05/16
8600025	F124	TT5818	32LH	6	73	75/09/04	75/09/06
8600025	F124	TT5819	32LH	6	47	76/02/01	76/02/02
8600025	F124	TT5820	32LH	6	68	76/03/18	76/03/19
8600025	F124	TT5821	32LH	6	65	76/04/02	76/04/03
8600025	F124	TT5822	32LH	6	57	76/06/03	76/06/05
8600025	F124	TT5823	32LH	5	39	76/07/10	76/07/11

(212 rows affected)