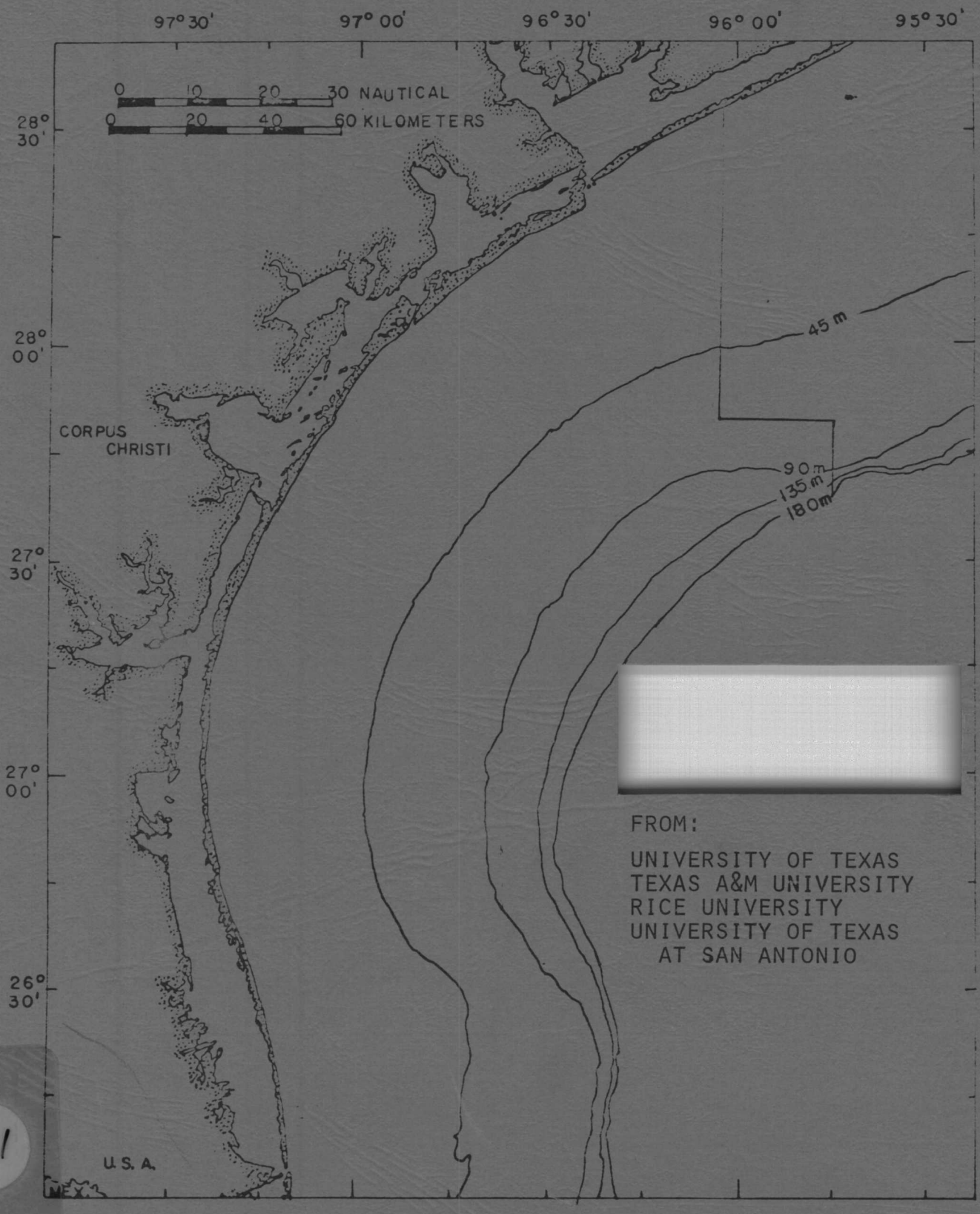
ENVIRONMENTAL STUDIES, SOUTH TEXAS OUTER CONTINENTAL SHELF, BIOLOGY AND CHEMISTRY



FROM:

UNIVERSITY OF TEXAS
TEXAS A&M UNIVERSITY
RICE UNIVERSITY
UNIVERSITY OF TEXAS
AT SAN ANTONIO

ENVIRONMENTAL STUDIES,
SOUTH TEXAS OUTER CONTINENTAL SHELF,
BIOLOGY AND CHEMISTRY

Data Management Inventory

Contract No. AA550-CT6-17

May 3, 1977

DATA MANAGEMENT INVENTORY

Pursuant to Contract AA550-CT6-17, pages 65, 72 and 81, and as clarified by Dr. Defenbaugh in his letter of 28 February 1977 to R. D. Groover, the Data Management Inventory for 1976 has been prepared (Table 1).

Included as Attachment 1 are copies of data reporting forms currently being used by most of the Principal Investigators in reporting data to the Data Management Group. Some Principal Investigators (for example, Drs. Casey and Park) punch their own data cards and submit data in this manner to the Data Management Groups.

Attachment 2 includes copies of forms used by the Data Management Groups to monitor inventory status, data status, inventory errors and corrections, and file and program documentation. These forms will enable a more accurate reporting in the future of dates on which data are received and updated.

TABLE 1

DATA MANAGEMENT INVENTORY
BUREAU OF LAND MANAGEMENT
SOUTH TEXAS OUTER CONTINENTAL SHELF

Sample Period 1976

Preparation Date 3/31/77

PRINCIPAL INVESTIGATOR	WORK ELEMENT	FORMAT	CURRENT STATUS
W. E. Behrens	Sediment Texture	S	All on file.
C. Van Baalen	Chlorophyll	S	All on file.
R. E. Casey	Microzooplankton	S	Enumeration complete for nansen bottles on cards but not yet received;vertical tows not yet counted.
C. S. Giam	Hydrocarbon/ Epifauna & Macronekton	S	Data not yet received.
J. S. Holland	Epifauna	S	All on file.
J. S. Holland	Infauna	S	All on file.
J. S. Holland	Hydrography	S	All on file.
D. L. Kamykowski	Photic Zone	S	All on file.
D. L. Kamykowski	Phytoplankton	S	On file through August, rest on cards.
T. S. Park	Zooplankton	S	All on cards.
P. L. Parker	Hydrocarbons/water	S	~70% coded.
P. L. Parker	Hydrocarbons/ Zooplankton	S	All on file.
P. L. Parker	Hydrocarbons/ Sediment	S	All on file.
W. E. Pequegnat	Meiofauna	S	(2)
B. J. Presley	Epifauna & Macro-nekton/trace metals	S	(1)
B. J. Presley	Sediment trace metals	S	(1)
W. M. Pulich	ATP	S	All on file.
W. M. Sackett	Nutrients, Dissolved Oxygen, LMW-Hydro-carbons	S(4)	All on file.
N. P. Smith	Hydrography	S	All on file.
D. E. Wohlschlag	Demersal Fishes	S	All on file.
J. H. Wormuth	Neuston	S	All on file.

Format:
S = Standard format developed with P.I.
EDS:
No 1976 Data has been sent to EDS.

(1) Analysis complete 3/20/77; Coding to begin 4/4/77.
(2) Analysis complete: on cards through Fall at TAMU; Nov. & Dec. being punched at TAMU.
(3) Enumeration complete for nansen bottles and on cards, but not yet received. Vertical tows not yet counted.
(4) Without sample codes.

ATTACHMENT 1

DATA REPORTING FORMS
USED BY PRINCIPAL INVESTIGATORS

INVERTEBRATE EPIFAUNA and MACROINFAUNA
SPECIAL HYDRODATA
DATA REPORTING FORM

BLM-OCS-001-2-1
6/76

FOR COMPUTER CENTER USE

Cruise _____ Station _____ Transect _____

Surface

0012001 (1) Sample name A___ (11) Temperatue (C°) ____ (15) Conductivity ratio _____ Salinity (ppt) ____ (20)

Bottom

	Reference	Reversing	Temperature
left:	_____	_____	_____
right:	_____	_____	_____

0012001 (1) Sample name A___ (11) _ (x) Temperature (C°) ____ (15) Conductivity ratio _____ Salinity (ppt) ____ (20)

BLM- STOCS-001-3-1
6/76

FOR COMPUTER CENTER USE

HYDROGRAPHIC DATA
DATA REPORTING FORM
PAGE______OF______

Individual Responsible for Form________

Transect______ Station______ Depth_______

Date________ Time________ CST/CDT_____

0 0 1 3 0 0 1
1

Sample name
11 ____

Calibration Temps (°C)

Bucket therm. temp ______

Revers therm. temps: left ______ right _______

Refer. therm. temps: left ______ right _______

Bottom calibr'n temps: left ______ right _______

avg. ______

Calibr'n salinities: sfc. _____ btm. ______

Depth (M)	Temp. (°C)	Salin. (PPT)	Depth (M)	Temp. (°C)	Salin. (PPT)
15 ___	18 __.___	23 __.___	15 ___	18 __.___	23 __.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___
___	__.___	__.___	___	__.___	__.___

BLM-STOCS-002-2-1
6/76

TRANSMISSIVITY

DATA REPORTING FORM

PAGE _____ OF _____

FOR COMPUTER CENTER USE

Individual Responsible for Form _____

0 0 2 2 0 0 1
1

Cruise _____ Date _____

Transect _____ Station _____

Sample code _ _ _ _
11

Depth (meters)	Transmission (%)	Depth (meters)	Transmisson (%)
15 _ _ _	20 _ _ . _ _	15 _ _ _	20 _ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _
_ _ _	_ _ . _ _	_ _ _	_ _ . _ _

UTRIENTS AND DISSOLVED
OW MOLECULAR Wt. HYDROCARBON
ATA REPORTING FORM
AGE _____ OF _____

BLM-OCS-004-2-1
6/76

FOR COMPUTER CENTER USE

042001

Individual Responsible for Form _____
Cruise _____

Sample code	Temp (C°)	Salin (ppt)	O_2 ml/l	Phos ug-at/l	Nitrate ug-at/l	Silicate ug at/l	CH_4 nl/l	Ethene nl/l	Ethane nl/l	Propene nl/l	Propane nl/l
11	15	20	26	31	35	39	43	47	52	57	61

INVERTBRATE EPIFAUNA and
MACROINFAUNA
DATA REPORTING FORM
PAGE_____OF_____

BLM-OCS-006-2-1
6/76

FOR COMPUTER CENTER USE

0062002
1 2 3 4 5 6 7

Sample name ___ ___ ___
8 9 10 11

Sample type ___
12

1- EPIFAUNA
2- INFAUNA

Collection Period_____

Station ___ Transect ___ Replicate ___
13 15 17

Water Depth ___ M
18

Day ___ Month ___ Yr ___
21 23 25

Time ___ Day / Night ___
27 31

Genus (32)	Species (48)	Total Number (66)	Males (71)	Females (74)	F/ eggs (77)	Comments

BLM-STOCS-007-2-1
6/76

FOR COMPUTER CENTER USE

BENTHIC VERTEBRATES DATA REPORTING FORM

PAGE 1 OF _____

Individual Responsible for Form ____

Cruise _____

Date _____

007200 1

Sample name A

Genus - Species - Variety	Code	Abundance	Total weight (gms
Anchoa hepsetus	001		
Anchoa mitchilli	002		
Ancylopsetta dilecta	003		
Ancylopsetta quadrocellata	004		
Antennarius radiosus	005		
Arius felis	006		
Balistes capriscus	007		
Bagre marinus	008		
Bembrops anatirostris	009		
Bellator militaris	010		
Bollmania communis	011		
Bregmaceros atlanticus	012		
Brotula barbata	013		
Callionymus agassizi	014		
Caranx crysos	015		
Caranx ruber	016		
Caulolatilus cyanops	017		
Centropristis philadelphica	018		
Chaetodipterus faber	019		
Chilomycterus schoepfi	020		
Chloroscombrus chrysurus	021		

Keypunch Only Cards with Numbers Filled In

BLM-STOCS-007-2-2
6/76

FOR COMPUTER CENTER USE

BENTHIC VERTEBRATES DATA REPORTING FORM

0072001
1.

Sample name A
11

Genus - Species - Variety	Code	Abundance	Total weight (gms)
Citharichthys spilopterus	022		
Citharichthys macrops	023		
Congrina flava	024		
Cyclopsetta chittendeni	025		
Cynoscion arenarius	026		
Cynoscion nothus	027		
Diplectrum bivitatum	028		
Dysomma aphododera	029		
Decodon puellaris	030		
Epinephelus nigritus	031		
Engyophrys senta	032		
Etropus crossotus	033		
Eucinostomus argenteus	034		
Eucinostomus gula	035		
Gobionellus hastatus	036		
Gymnachirus texae	037		
Gymnothorax nigromarginatus	038		
Halieutichthys aculeatus	039		
Harengula pensacolae	040		
Hemanthias vivanus	041		
Hoplunnis macrurus	042		

Keypunch Only Cards with Numbers Filled In

BENTHIC VERTEBRATES
DATA REPORTING FORM
PAGE 3 OF _____

BLM-STOCS-007-2-3
6/76

FOR COMPUTER CENTER USE

007 2001
1

Sample name A
11

Genus - Species - Variety	Code	Abundance	Total weight (gms)
Hoplunnis tenuis	043		
Hippocampus erectus	044		
Kathetostoma albigutta	045		
Lactophrys quadricornis	046		
Lagocephalus laevigatus	047		
Lagodon rhomboides	048		
Larimus fasciatus	049		
Leiostomus xanthurus	050		
Lepophidium graellsi	051		
Lophiomus species	052		
Lutjanus campechanus	053		
Menticirrhus americanus	054		
Micropogon undulatus	055		
Monacanthus hispidus	056		
Monolene sessilicauda	057		
Mullus auratus	058		
Mustelus canis	059		
Myrophis punctatus	060		
Neobythites gilli	061		
Ophichthus gomesi	062		
Ophidion welshi	063		

Keypunch Only Cards with Numbers Filled In

BLM-STOCS-007-2-4
6/76

BENTHIC VERTEBRATES DATA REPORTING FORM

PAGE 4 OF _____

FOR COMPUTER CENTER USE

0072001
1

Sample name A
11 ___

Genus - Species - Variety	Code	Abundance	Total weight (gms)
Opsanus beta	064	18	28 34
Orthopristis chrysoptera	065		
Equetus acuminatus	066		
Paralichthys lethostigma	067		
Peprilus alepidotus	068		
Peprilus burti	069		
Pikea mexicana	070		
Pontinis longispinis	071		
Polydactylus octonemus	072		
Porichthys porosissimus	073		
Priacanthus arenatus	074		
Prionotus ophyras	075		
Prionotus paralatus	076		
Prionotus rubio	077		
Prionotus salmonicolor	078		
Prionotus stearnsi	079		
Prionotus tribulus	080		
Pristipomoides aquilonaris	081		
Raja texana	082		
Rypticus saponaceus	083		
Sardinella anchovia	084		

Keypunch Only Cards with Numbers Filled In

BLM-STOCS-007-2-5
6/76

BENTHIC VERTEBRATES
DATA REPORTING FORM
PAGE 5 OF _____

FOR COMPUTER CENTER USE

0 0 7 2 0 0 1
1

Sample name A
11

Genus - Species - Variety	Code	Abundance	Total weight (gms)
Saurida brasiliensis	085	18	24
Scomber japonicus	086		
Scomberomorus cavalla	087		
Scorpaena brasiliensis	088		
Selar crumenophthalmus	089		
Selene vomer	090		
Seriola zonata	091		
Serranus atrobranchus	092		
Serraniculus pumilio	093		
Sphoeroides dorsalis	094		
Sphoeroides parvus	095		
Sphyraena guachancho	096		
Sphyrna tiburo	097		
Squatina dumerili	098		
Stellifer lanceolatus	099		
Stenotomus caprinus	100		
Syacium gunteri	101		
Symphurus diomedianus	102		
Symphurus parvus	103		
Symphurus pelicanus	104		

Keypunch Only Cards with Numbers Filled In

BENTHIC VERTEBRATES
DATA REPORTING FORM
PAGE 6 OF _____

BLM-STOCS-007-2-6
6/76

FOR COMPUTER CENTER USE

0072001
I

Sample name A
II

Genus-Species-Variety		Code	Abundance	Total weight (gms)
Symphurus plagiusa	105	18	23	34
Syngnathus louisianae	106			
Synodus foetens	107			
Synodus poeyi	108			
Trachurus lathami	109			
Trichopsetta ventralis	110			
Trichiurus lepturus	111			
Urophycis cirratus	112			
Urophycis floridanus	113			
Umbrina coroides	114			
Upeneus parvus	115			
Vomer setapinnis	116			
Zalieutes mcgintyi	117			

Keypunch Only Cards with Number Filled In

BLM-STOCS-008-2-2

1/77

HYDROCARBON STANDARD DATA REPORTING FORM

For computer center use

INDIVIDUAL RESPONSIBLE FOR FORM _____

0 0 8 2 0 0 2 (1)

DATE _____

Injection volume _ _ _ . _ (8)

Standard date _ _ / _ _ / _ _ (12, 14, 16) Time _ _ _ _ (18) Machine _ _ (22) Attenuation _ _ _ (24)

Time (27)	Compound (31)	Integration Value (35)
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ .

HYDROCARBON RAW DATA
DATA REPORTING FORM
0 0 8 2 0 0 3
1

BLM-STOCS-008-2-3
1/77

For Computer Center Use

INDIVIDUAL RESPONSIBLE FOR FORM ________
CRUISE ______ TRANS. ______ STA. ______
DATE ________________

Card 0 0 1 (8) Sample Code _ _ _ _ (11) Wet Wt. _ _ _ _ _ _ _ _ _ _ (15) Dry Wt. _ _ _ _ _ _ _ _ _ _ (25)
Total nonsaponifiable wt. (gms) _ _ _ _ _ _ _ _ (35) Total column wt _ _ _ . _ _ _ _ _ (43)

Card 0 0 2 (8) _ _ _ _ (11) *(Dup)*

Wt. Hexane Fraction (gms) _ _ _ . _ _ _ _ _ (15)

Wt. Benzene Fraction (gms) _ _ _ . _ _ _ _ _ (23)

Wt. Methanol Fraction (gms) _ _ _ . _ _ _ _ _ (31)

Fraction _ (39) (1=hexane, 2=benzene, 3=methanol)

Total dilution volume (µl) _ _ _ _ _ . _ (40)

Injection volume _ _ _ _ (46)

Date _ _ (50) / _ _ (52) / _ _ (54) Time _ _ _ _ (56) Machine _ _ (60) Attenuation _ _ _ (62)

Card 0 0 3 (8) _ _ _ _ (11) *(Dup)* Fraction _ (15)

Time	Known	Int. Value	Time	Known	Int. Value
_ _ _ _ (16)	_ _ _ _ (20)	_ _ _ _ _ _ _ _ . (24)	_ _ _ _ (16)	_ _ _ _ (20)	_ _ _ _ _ _ _ _ . (24)
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .
_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .	_ _ _ _	_ _ _ _	_ _ _ _ _ _ _ _ .

BLM-OCS-009-2-1

6/76

CHLOROPHYLL A
DATA REPORTING FORM
PAGE _____ OF _____

FOR COMPUTER CENTER USE

Individual Responsible for Form _____

Cruise _____ Date _____

0092001
1

Trans.	Sta.	Depth	Net/Nan	Sample name	Before HCl 663nm	After HCl 663nm	645nm	630nm	Vol. (l)	Chlorophyl a µg/l (mg/m³) Scor-unesco	Parson's Strickland	Lorenzen	Chlor. a Pheophyt
				A 11	15	20	25	30	35	39	44	49	54
				A									
				A									
				A									
				A									
				A									
				A									
				A									
				A									
				A									
				A									
				A									
				A									
				A									
				A									
				A									

BLM-OCS-010-2-1
6/76

FOR COMPUTER CENTER USE

ATP
DATA REPORTING FORM
PAGE ________ OF ________

Individual Responsible for Form ____
Cruise ____________
Date ____________

0 1 0 2 0 0 1
1

Station	Transect	Depth (m)	Sample name	ATP
			_ _ _ _ (11)	_ . _ _ _ (15)
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _
			_ _ _ _	_ . _ _ _

BLM-OCS-011-2-1
6/76

PHYTOPLANKTON ABUNDANCE DATA REPORTING FORM

FOR COMPUTER CENTER USE

Individual Responsible for Form _____

Cruise _____

Date _____

Station _____

0 1 1 2 0 0 1
1

Sample name A
11

Genus - Species - Variety (15)	No. Cells / Liter (65)
Actinoptychus senarius	
Actinoptychus spp.	
Amphiprora gigantea	
Amphiprora spp.	
Amphora spp.	
Asterionella glacialis (=A. japonica)	
Asterionella notata	
Asteromphalus cleveanus	
Asteromphalus robustus	
Asteromphalus heptactis	
Asteromphalus spp.	
Aulacodiscus sp.	
Bacillaria paradoxa	
Bacteriastrum biconicum	
Bacteriastrum elegans	
Bacteriastrum elongatum	
Bacteriastrum hyalinum	
Bacteriastrum hyalinum v. princeps	
Bacteriastrum mediterraneum	

Keypunch Only Cards with Numbers Filled In

Genus - Species - Variety (15)	No. Cells / Liter (65)
Bacteriastrum varians	
Bacteriastrum varians v. hispida	
Bacteriastrum delicatulum	
Bacteriastrum comosum	
Bacteriastrum spp.	
Bacteriosira fragilis	
Bellerochea malleus	
Biddulphia sinensis	
Biddulphia aurita	
Biddulphia chinensis	
Biddulphia mobiliensis	
Biddulphia regia	
Biddulphia tuomeyi	
Biddulphia granulata	
Caloneis westii	
Campylodiscus spp.	
Cerataulina bergoni	
Cerataulina compacta	
Cerataulus spp.	
Chaetoceros affinis	
Chaetoceros affinis v. williei	
Chaetoceros atlanticus	
Chaetoceros atlanticus v. audax	
Chaetoceros atlanticus v. neopolitana	
Chaetoceros atlanticus v. skeleton	

Genus – Species – Variety (15)	No. Cells / Liter (65)
Chaetoceros atlanticus v. borealis	
Chaetoceros cinctus	
Chaetoceros coarcticus	
Chaetoceros compressus	
Chaetoceros convolutus	
Chaetoceros costatus	
Chaetoceros crinitus	
Chaetoceros curvisetus	
Chaetoceros dadayi	
Chaetoceros danicus	
Chaetoceros debilis	
Chaetoceros decipiens	
Chaetoceros delicatulus	
Chaetoceros dichaeta	
Chaetoceros didymus v. anglica	
Chaetoceros didymus v. protuberans	
Chaetoceros diversus	
Chaetoceros diversus (new)	
Chaetoceros eibenii	
Chaetoceros filiformis	
Chaetoceros fragilis	
Chaetoceros furcellatus	
Chaetoceros glandazii	
Chaetoceros gracilis	
Chaetoceros holsaticus	

Keypunch Only Cards with Number Filled In

Genus – Species – Variety (15)	No. Cells / Liter
Chaetoceros ingelfianus	(65)
Chaetoceros lacinosus	
Chaetoceros lauderi	
Chaetoceros lorenzianus	
Chaetoceros messanensis	
Chaetoceros mitra	
Chaetoceros muelleri	
Chaetoceros orientalis	
Chaetoceros pelagicus	
Chaetoceros decipiens v. singularis	
Chaetoceros pendulus	
Chaetoceros peruvianus	
Chaetoceros pseudocrinitus	
Chaetoceros pseudocurvesetus	
Chaetoceros pseudodichaeta	
Chaetoceros purpusillus	
Chaetoceros radians	
Chaetoceros rigidus	
Chaetoceros saltans	
Chaetoceros simplex	
Chaetoceros simplex v. calcitrans	
Chaetoceros socialis	
Chaetoceros subsecundus	
Chaetoceros subtilis	
Chaetoceros teres	
Chaetoceros tetrastichon	

Genus — Species — Variety (15)	No. Cells / Liter
Chaetoceros tortissimus	65
Chaetoceros van heurckii	
Chaetoceros vistulae	
Chaetoceros vixvisibilis	
Chaetoceros concavicornis	
Chaetoceros spp.	
Corethron hystrix	
Corethron pelagicus	
Climacodium biconcavum	
Coscinodiscus asteromphalus	
Coscinodiscus centralis	
Coscinodiscus concinnus	
Coscinodiscus curvatulus	
Coscinodiscus excentricus	
Coscinodiscus lineatus	
Coscinodiscus janischii	
Coscinodiscus nodulifer	
Coscinodiscus marginatus	
Coscinodiscus oculis iridis	
Coscinoduscus radiatus	
Coscinodiscus stellaris	
Coscinodiscus tabularis	
Coscinodiscus thorii	
Coscinodiscus subconcavum	
Coscinodiscus spp.	

Keypunch Only Cards with Numbers Filled In

Genus – Species – Variety (15)	No. Cells / Liter (65)
Coscinosira oestrupii	
Coscinosira polychorda	
Coscinosira spp.	
Cyclotella spp.	
Cymatosira belgica	
Dactyliosolen antarcticus	
Dactyliosolen mediterraneus	
Detonula confervacea	
Diploneis constricta	
Diploneis crabro	
Diploneis fusca	
Diploneis spp.	
Ditylum brightwellii	
Ditylum sol	
Eucampia cornuta	
Eucampia zoodiacus	
Fragilaria spp.	
Gosseriella tropica	
Grammatophora marina	
Grammatophora spp.	
Guinardia blavyana	
Guinardia flaccida	
Hemiaulus hauckii	
Hemiaulus sinensis	
Hemiaulus indica	
Hemiaulus membranaceous	

Keypunch Only Cards with Numbers Filled In

Genus — Species — Variety	No. Cells / Liter
15	
Hemidiscus cunieformis	65
Hemidiscus hardmanianus	
Hyalodiscus spp.	
Hyalodiscus stelligera	
Lauderia borealis	
Leptocylindricus danicus	
Leptocylindricus minimus	
Licmophora spp.	
Lithodesmium undulatum	
Melosira distans	
Melosira dubia	
Melosira nummuloides	
Melosira sulcata	
Melosira spp.	
Navicula membranacea	
Navicula distans	
Navicula elegans	
Navicula warwrikae	
Navicula spp.	
Nitzschia closterium	
Nitzschia delicatissima	
Nitzschia longissima	
Nitzschia pungens	
Nitzschia seriata	
Nitzschia pacifica	
Nitzschia panduriformis	

Keypunch Only Cards with Numbers Filled In

Genus—Species—Variety (15)	No. Cells / Liter (65)
Nitzschia punctata	
Nitzschia sp. 1 (curv-chain)	
Nitzschia sp. 2 (small-capitate)	
Nitzschia spp.	
Planktoniella-sol	
Pleurosigma angulatum	
Pleurosigma formosum	
Pleurosigma marinum	
Pleurosigma strigosum	
Pleurosigma sp. 1 (small)	
Podosira stelliger	
Rhabdonema spp.	
Rhizosolenia alata v. alata	
Rhizosolenia alata v. gracillima	
Rhizosolenia alata v. indica	
Rhizosolenia alata v. inermis	
Rhizosolenia acuminata	
Rhizosolenia calcar-avis	
Rhizosolenia castracanei	
Rhizosolenia cylindrus	
Rhizosolenia delicatula	
Rhizosolenia fragillissima	
Rhizosolenia hebetata	
Rhizosolenia hebetata v. hiemalis	
Rhizosolenia hebetata v. semispina	
Rhizosolena imbricata	

Genus — Species —Variety (15)	No. Cells / Liter
Rhizosolenia imbricata v. shrubsolei	65
Rhizosolenia longiseta	
Rhizosolenia robusta	
Rhizosolenia setigera	
Rhizosolenia stolterfothii	
Rhizosolenia styliformis	
Rhizosolenia styliformis v. latissima	
Rhizosolenia styliformis v. longispina	
Schroderella delicatula	
Skeletonema costatum	
Stephanopyxis palmeriana	
Stephanopyxis turris	
Striatella unipunctata	
Streptotheca thamesis	
Surriella cuneata	
Surriella exemia	
Synedra spp.	
Thalassienema nitzschioides	
Thalassiosira decipiens	
Thalassiosira fallax	
Thalassiosira baltica	
Thalassiosira aestivalis	
Thalassiosira rotula	
Thalassiosira subtilis	
Thalassiosira gravida	
Thalassiosira nordenskioldii	

Genus - Species - Variety (15)	No. Cells / Liter (65)
Thalassiosira spp.	
Thalassiothrix fraunfeldii	
Thalassiothrix mediterranea	
Thalassiothrix delicatula	
Thalassiothrix longissima	
unidentified pennate	
unidentified centric	
Gymnodinium sp. 1	
Dinastridium spp.	
Amphidinium acutissimum	
Amphidinium spp.	
Amphisolenia bidentata	
Ceratium arcuatum	
Ceratium belone	
Ceratium contortum	
Ceratium contortum v. karstenii	
Ceratium extensum	
Ceratium furca	
Ceratium fusus	
Ceratium gracile	
Ceratium hircus	

Genus — Species — Variety (15)	No. Cells / Liter (65)
Ceratium kofoidii	
Ceratium lineatum	
Ceratium longinum	
Ceratium longissimus	
Ceratium macroceros	
Ceratium massiliense	
Ceratium pentagonum	
Ceratium pulchellum	
Ceratium schmidtii	
Ceratium teres	
Ceratium trichoceros	
Ceratium tripos	
Ceratium tripos v. atlanticum	
Ceratium spp.	
Dinophysis acuta	
Dinophysis caudata	
Dinophysis caudata v. acutiformis	
Dinophysis caudata v. pedunculata	
Dinophysis diegens	
Dinophysis sp. 1 (arcticum)	
Dinophysis ovum	
Dinophysis van hoffenii	
Dinophysis spp.	
Exuviella compressa	
Exuviella lima	
Exuviella spp.	

Genus — Species — Variety (15)	No. Cells / Liter (65)
Glenodinium warmingii	
Gonyaulax minima	
Gonyaulax minima	
Gonyaulax fragilis	
Gonyaulax polygramma	
Gonyaulax spp.	
Gonyodoma spp.	
Gymnodinium heterostriatum	
Gymnodinium spp.	
Gyrodinium spp.	
Ornithoceros magnificus	
Oxytoxum reticulatum	
Oxytoxum sceptrum	
Oxytoxum scolopax	
Oxytoxum sphaeroideum	
Peridinium cerasus	
Peridinium depressum	
Peridinium divergens	
Peridinium crassipes	
Peridinium excentricum	
Peridinium glodulus v. quarnerense	
Peridinium inflatum	
Peridinium oblongum	
Peridinium oceanicum	
Peridinium pallidum	
Peridinium pyriformis	

Genus — Species — Variety (15)	No. Cells / Liter
Peridinium quarnerense	65
Peridinium pentagonum	
Peridinium spiniferum	
Peridinium steinii	
Peridinium subpyriforme	
Peridinium tuba	
Peridinium venustrum	
Peridinium spp.	
Phalachroma sp. 1 (rotundata)	
Podolampas bipes	
Podolampas palmipes	
Podolampas spinifera	
Polykrikos schwartzii	
Pyrocystis noctiluca	
Pyrocystis spp.	
Pyrophacus horologium	
Prorocentrum compressum	
Prorocentrum gracile	
Prorocentrum micans	
Prorocentrum scutellum	
Prorocentrum sp. 1 (small)	
Prorocentrum spp.	
Stigmophora rostrata	
unidentified dinoflagellates	

Genus – Species – Variety 15	No. Cells / Liter 65

Dictyocha fibula	----------
Distephanus speculum	----------
Ebria antiqua	----------

Coccolithophorids	----------
Calciosolenia granii	----------
Calciosolenia murrayi	----------
Calyptrosphaera sp.	----------
Coccolithus huxleyi	----------
Discosphaera tubifer	----------
Halopappus adriaticus	----------
Hymenomonas roseola	----------
Pontosphaera sp.	----------
Scyphosphaera apsteinii	----------
Syracosphaera sp.	----------

Keypunch Only Cards with Numbers Filled In

Genus - Species - Variety (15)	No. Cells / Liter (65)
Trichodesmium spp.	
Trichodesmium erythraeum	
Trichodesmium Hildebrandii	
Trichodesmium thiebautii	
Blue green filament	
Green filament	
Green coccoid	

Keypunch Only Cards with Numbers Filled In

BLM-STOCS-12-2-1

1/77

FLOURESCENCE TRANSECT DATA REPORTING FORM

For computer center use

DATE _____

CRUISE _____

0 1 2 2 0 0 1
1

Sample Code _ _ _ _
11

Distance (Naut. mi)	Depth (meters)	Chlorophylls (µg/l)	Temperature (°C)	Salinity (o/oo)
15	18	21	25	29

BLM-STOCS-019-2-001
6/76

FOR COMPUTER CENTER USE

SEDIMENT TEXTURE DATA REPORTING FORM

Individual Responsible for Form_____
Cruise_____Transect_____Station_____
Date_____

Card 1	Card 2	Card 3	Card 4
0192001	0192002	0192003	0192004
Sample code ____	(DUP)	(DUP)	(DUP)
Sand			Silt - clay
Total Weight ϕ_0-ϕ_4			Total Weight
____			____
Cumulative Percent	$\phi_{2.25}$ ____	$\phi_{4.75}$ ____	Remaining Weight
0 ____	$\phi_{2.50}$ ____	$\phi_{5.00}$ ____	$\phi_{4.00}$ ____
5 ____	$\phi_{2.75}$ ____		$\phi_{4.50}$ ____
0 ____	$\phi_{3.00}$ ____		$\phi_{5.00}$ ____
5 ____	$\phi_{3.25}$ ____		$\phi_{5.50}$ ____
) ____	$\phi_{3.50}$ ____		$\phi_{6.00}$ ____
5 ____	$\phi_{3.75}$ ____		$\phi_{7.00}$ ____
) ____	$\phi_{4.00}$ ____		$\phi_{8.00}$ ____
5 ____	$\phi_{4.25}$ ____		$\phi_{9.00}$ ____
) ____	$\phi_{4.50}$ ____	Grab ____	$\phi_{10.00}$ ____

BLM-STOCS-26-2-1

1/77

ΔC^{13} AND TOC

DATA REPORTING FORM

For Computer Center Use

DATE _____

CRUISE _____

0 2 6 2 0 0 1
1

Sample code	Station	Trans.	ΔC^{13}	TOC	Rep.
11	15	17	19	25	30

1/77

Light Penetration
Data Reporting Form

For Computer Center Use

Date _____

Cruise _____

0 2 7 2 0 0 1

Tr-St _____ _____ _____ _____ _____ _____

Sample Depth

1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						

Secchi

BLM-STOCS-030-2-001,002

HISTOPATHOLOGY
DATA REPORTING FORM

For Computer Center Use

0 3 0 2 0 0 1 (1) Sample Code _ _ _ _ _ (11) Cruise _____ Date _____

Species Code _ _ _ (15) Neff Code _ _ _ _ _ _ _ _ _ _ _ (18) Haensly Code _ _ _ _ _ _ _ _ _ _ _ (28)

Ramirez Code _ _ _ _ _ _ _ _ _ _ _ (38) Organ Code _ _ _ _ _ (48) Sex _ (52)

---

0 3 0 2 0 0 2 (1) Sample Code _ _ _ _ _ (11)

Level (15)	Location Code (16)	Condition Code (20)	Description (24)
_	_ _ _ _	_ _ _ _	_____
_	_ _ _ _	_ _ _ _	_____
_	_ _ _ _	_ _ _ _	_____
_	_ _ _ _	_ _ _ _	_____
_	_ _ _ _	_ _ _ _	_____
_	_ _ _ _	_ _ _ _	_____
_	_ _ _ _	_ _ _ _	_____
_	_ _ _ _	_ _ _ _	_____
_	_ _ _ _	_ _ _ _	_____
_	_ _ _ _	_ _ _ _	_____

ATTACHMENT 2

FORMS USED BY DATA MANAGEMENT GROUP

Date _____

Program Name _____ Object name _____

Common Name _____

Programmer _____

Source PF _____ Object PF _____

Purpose _____

_____

_____

Special compilation or run requirements _____

_____

Execution format _____

_____

Files:
(Input/output, file name or type, PF where found, use in program,
number in program, any special required editing or sorting before use.)

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

File Name: _____ Permanent File: _____

Use: _____

Field Name	Start Byte	Field Type	Field Content/Description

BLM-OCS-55-2-1

INVENTORY CHANGE FORM

	Change	Changed
Sample code is _____, should be _____	_____	_____
Trans is _____, should be _____	_____	[_____]
Station is _____, should be _____	_____	[_____]
Cruise is _____, should be _____	_____	[_____]
Type is _____, should be _____	_____	_____
Use is _____, should be _____	_____	_____
PI is _____, should be _____	_____	_____
Depth code is _____, should be _____	_____	_____
Subsamp. is _____, should be _____	_____	_____
is _____, should be _____	_____	_____
is _____, should be _____	_____	_____
is _____, should be _____	_____	_____
is _____, should be _____	_____	_____
is _____, should be _____	_____	_____

Changed:

On inventory master printout	/ /	_____
On computer center data form copy	/ /	_____
On permanent file data file _____,PF_____	/ /	_____
On S2K data base version _____ on tape _____		
saved to tape _____	/ /	_____

Approved for change _____

Send to: _____ Debbie Kalke _____
_____ C. Griffin _____
_____ PI( ) _____
_____

Cruise Water Column

coded _____
DB updated _____

Inventory Received _____
Inventory Coded _____
Inventory Punched _____
Inventory Edited _____
Inventory Added to DB _____

		Data Reporting Forms Received	Data Reporting Forms Punched	Data Files Edited	Data Values Added to Data Base	Data Values Reported to PI for Checking	Data Values Edited	Data Values Approved by PI	
1. N. P. Smith	Hydrology								
2. R. Rezak	Transmissometry								
3. R. Rezak	Suspended sediment minerology								
4. D. Kamykowski	Photic zone								
5. W. M. Sackett	D. O., Nut., LMW hydrocarbons								
6. W. M. Sackett	Sediment core-LMW hydrocarbons								
7. D. Kamykowski	Phytoplankton								
8. D. Kamykowski	C14 - nanoplankton, phytoplankton								
9. D. Kamykowski	Fluorescence								
10. C. Van Baalen	Chlorophyll								
11. R. E. Casey	Macroplankton-nansen bottle								
12. R. E. Casey	Macroplankton-vertical tows								
13. P. Johansen	Protein								
14. P. L. Parker	Hydrocarbons-water part. & diss.								
15. P. L. Parker	Hydrocarbons - zooplankton								
16. T. S. Park	Zooplankton								
17. T. S. Park	Ichthioplankton								
18. J. H. Wermuth	Neuston								
19. P. J. Staniszlo	Mycology								
20. O. W. Van Auken	Bacteriology								
21. H. V. Oujesky	Bacteriology								
22. N. N. Guentzel	Bacteriology								
23.									
24.									
25.									
26.									
27.									
28.									
29.									
30.									

Date _____

Program Name _____ Object name _____

Common Name _____

Programmer _____

Source PF _____ Object PF _____

Purpose _____

_____

_____

Special compilation or run requirements _____

_____

Execution format _____

_____

Files:
(Input/output, file name or type, PF where found, use in program, number in program, any special required editing or sorting before use.)

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Cruise Benthic

coded _____
DB updated _____

Inventory Received _____
Inventory Coded _____
Inventory Punched _____
Inventory Edited _____
Inventory Added to DB _____

		Data Reporting Forms Received	Data Reporting Forms Punched	Data Files Edited	Data Values Added to Data Base	Data Values Reported to PI for Checking	Data Values Edited	Data Values Approved by PI	
1. B. J. Presley	Sediment trace metals								
2. D. E. Wohlschlag	Demersal fishes								
3. J. S. Holland	Invertebrate epifauna								
4. J. S. Holland	Invertebrate infauna								
5. J. S. Holland	Hydrology								
6. P. L. Parker	Total organic carbon								
7. P. L. Parker	Carbon-13								
8. R. Rezak	Sediment texture								
9. P. L. Parker	Hydrocarbon - sediment								
10. H. Berryhill	Sediment texture								
11. H. Berryhill	Sediment trace metal								
12. C. S. Giam	Hydrocarbons - benthic trawl								
13. B. J. Presley	Trace metals - benthic trawl								
14. E. W. Behrens	Sediment texture								
15. W. E. Pequegnat	Meiofauna								
16. P. J. Szanislo	Mycology								
17. J. R. Schwarz	Bacteriology								
18.									
19.									
20. J. N. Neff	Histopathology								
21. W. E. Haensly	Histopathology								
22. S. A. Ramirez	Histopathology								
23.									
24.									
25.									
26.									
27.									
28.									
29.									
30.									

Cruise _____ coded _____
DB updated _____

Inventory Received _____
Inventory Coded _____
Inventory Punched _____
Inventory Edited _____
Inventory Added to DB _____

		Data Reporting Forms Received	Data Reporting Forms Punched	Data Files Edited	Data Values Added to Data Base	Data Values Reported to PI for Checking	Data Values Edited	Data Values Approved by PI	
1.									
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
21.									
22.									
23.									
24.									
25.									
26.									
27.									
28.									
29.									
30.									

The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.