ENCLOSURE 1

DEPT. NAT. RES & ENV
PE900772

AYU-1 PLANKTONIC FORAMS

DESCRIPTION:

DISTRIBUTION OF PLANKTONIC FORAMINIFERA IN THE PETROFINA ET AL AYU-1 WELL.
LOGGED BY M.APTHORPE 5/90. LEGEND - X=PRESENT 1=NO.OF SPECIMENS FOUND A=ABUNDANT
C=CONTAMINATION R=REWORKED F=FRAGMENT <=COMPARABLE WITH ?=QUESTIONABLE IDENTIFI

CHECKLIST OF OCCURRENCES BY HIGHEST APPEARANCE

Depth	BIORBULINA BILOBATA	GLOBIGERINA APERTURA	GLOBIGERINA BULLOIDES	GLOBIGERINA PRAEBULLOIDES	GLOBIGERINA SENIVERA	GLOBIGERINOIDES QUADRILOBATUS QUADRILOBATUS	GLOBOROTALIA CONOIDEA	GLOBOROTALIA CONOMIOZEA	GLOBOROTALIA CRASSAFORMIS	GLOBOROTALIA MIOTUMIDA	GLOBOROTALIA MIOZEA MIOZEA	GLOBOROTALIA PRAEMENARDII	HASTIGERINA CF. AEQUILATERALIS	ORBULINA SUTURALIS	ORBULINA UNIVERSA	TURBOROTALIA ACOSTAENSIS	TURBOROTALIA OBESA	GLOBOQUADRINA DEHISCENS	GLOBOROTALIA LENGUAENSIS	GLOBOROTALIA SCITULA SCITULA	GLOBOROTALIA SPHERICOMIOZEA	GLOBIGERINA WOODI	GLOBOROTALIA CF. FOHSI ROBUSTA	GLOBOROTALIA MIOCENICA	GLOBOROTALIA PERIPHEROACUTA	GLOBOROTALIA CF. CONOIDEA	GLOBOROTALIA CONICA	GLOBOROTALIA PERIPHERORONDA	PRAEORBULINA GLOMEROSA CIRCULARIS	GLOBIGERINA CIPEROENSIS	GLOBOQUADRINA LARMEUI	GLOBOROTALIA PANDA	GLOBIGERINOIDES TRILOBUS TRILOBUS
1250M DC	X	X	X	X	X	1	X	X	1	X	<	X	1	X	X	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1300M DC	.	X	.	X	.	X	X	.	.	.	.	X	.	X	X	X	.	<	X	X	X	.	.	.	.	.	.	.	.	.	.	.	.
1350M DC	.	.	.	X	.	X	X	.	.	<	<	.	.	1	.	X	<	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.
1400M DC	.	X	.	X	.	.	X	.	.	X	.	.	.	X	X	.	.	.	X	.	.	<	R	.	.	.	.	.	.	.	.	.	.
1450M DC	.	.	.	.	.	X	.	.	.	X	.	.	.	.	X	.	.	.	X	.	.	.	.	1	.	.	.	.	.	.	.	.	.
1500M DC	.	.	.	.	.	.	1	.	.	3	<	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1550M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1650M DC	.	.	.	1	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1700M DC	.	X	.	.	.	X	.	.	.	X	.	.	.	X	X	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.
1730M SWC	.	.	.	.	.	X	.	.	.	X	.	.	.	X	X	X	.	.	.	.	.	.	.	.	<	.	.	.	.	.	.	.	.
1740M SWC	.	.	.	.	.	.	X	.	.	X	.	<	.	X	X	.	.	.	X	X	.	.	.	.	.	X	X	X	X	.	.	.	.
1800M DC	1	.	.	.	.	X	X	.	.	X	X	.	.	.	X	3	.	.	.	X	.	.	.	.	X	.	2	X	X	X	X	2	.
1850M DC	.	X	.	X	.	X	X	.	.	X	X	.	.	X	X	.	.	.	.	.	.	.	.	.	X	.	X	X	X	X	.	X	X
1900M DC	X	.	.	X	.	X	1	.	.	1	X	.	.	X	.	.	.	X	.	X	.	.	.	.	X	.	X	X	X	.	.	.	X
1950M DC	.	.	.	X	.	X	<	.	.	X	X	.	.	X	4	.	.	.	.	.	.	X	.	.	.	.	X	X	X	.	.	.	X
2000M DC	1	.	.	.	.	<	C	.	.	X	X	X	.	2	.	.	.	.	.	X	.	.	.	.	C	.	.	.	X	.	.	X	X
2050M DC	.	X	.	.	.	X	C	.	.	C	X	.	X	X	.	.	.	X	.	.	C	X	.	.	.	.	.	X	.	.	.	.	X
2100M DC	.	.	.	X	.	X	.	.	.	.	X	X	.	.	.	.	.	.	.	.	X	X	.	.	C	.	<	X	1	.	.	.	X
2146M SWC	.	X	.	X	.	X	.	.	.	.	X	X	.	.	.	.	.	X	.	.	.	X	.	.	.	.	.	.	.	.	.	1	1
2165M SWC	.	.	.	X	<	X	.	.	.	.	X	X	.	.	.	.	.	X	.	.	.	X	.	.	.	.	.	.	.	X	.	.	X
2200M DC	.	X	.	X	.	X	.	.	.	C	X	X	.	.	.	.	.	X	.	.	.	X	.	.	C	.	.	.	.	X	.	.	X
2250M DC	.	X	.	X	.	X	.	.	.	C	C	.	.	.	C	.	.	X	.	.	.	X	.	.	.	.	<	X	.	X	.	.	X
2300M DC	.	X	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	X	.	.	.	.	2	.	.	X	.	.	C
2345M SWC	.	X	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	<	.	.	.	X	.	.	.	.	.	.	.	X	.	.	.
2394M SWC	.	.	.	X	.	.	.	.	.	.	1	.	.	.	.	.	X	.	.	.	.	X	.	.	.	.	.	.	.	X	.	.	.
2451.5M SWC	.	X	.	.	X	X	.	.	.	.	X	X	.	.	.	.	X	X	<	.	.	X	.	.	X	.	.	.	.	.	.	.	A
2482M SWC	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	<	.	.	.	.	.	.	.	X	.	.	.
2485M SWC	.	X	.	X	.	.	.	.	.	.	C	.	.	.	.	.	.	.	.	.	C	<	.	.	.	.	.	.	.	.	.	.	.
2490M SWC	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	<	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.
2491M SWC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2527M SWC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2552M SWC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Depth	GLOBOROTALIA CF. MAYERI	GLOBOROTALIA PRAEFOHSI	GLOBOROTALIA PRAESCITULA	PRAEORBULINA GLOMEROSA GLOMEROSA	SPHAEROIDINELLOPSIS CF. SEMINULINA	PRAEORBULINA GLOMEROSA CURVA	TURBOROTALIA PERIPHERORONDA	CATAPSYDRAX DISSIMILIS	GLOBIGERINA APEROENSIS	GLOBIGERINITA NAPARIMAENSIS	GLOBIGERINOIDES SICANUS	GLOBIGERINOIDES TRANSITORIUS	GLOBIGERINA ANGIPOROIDES	GLOBIGERINA EUAPERTURA	GLOBIGERINA JUVENILIS	GLOBIGERINA SPP. (SMALL)	GLOBIGERINA ANGUSTIUMBILICATA	GLOBIGERINA TRIPARTITA	TURBOROTALIA SIAKENSIS	CASSIGERINELLA CHIPOLENSIS	GLOBOROTALIA KUGLERI	GLOBOROTALIA PSEUDOKUGLERI	GLOBOROTALIA ZEALANDICA	GLOBOQUADRINA CF. DEHISCENS	TURBOROTALIA OPIMA CONTINUOSA	TURBOROTALIA OPIMA OPIMA	CATAPSYDRAX CF. DISSIMILIS	GLOBIGERINOIDES PRIMORDIUS	TURBOROTALIA EXTANS	GLOBIGERINA ANGULISUTURALIS	GLOBOROTALIA CF. MENDACIS	GLOBIGERINA CF. TRILOCULARIS	PSEUDOHASTIGERINA MICRA
1250M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1300M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1350M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1400M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1450M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1500M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1550M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1650M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1700M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1730M SWC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1740M SWC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1800M DC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1850M DC	X	<	X	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1900M DC	.	X	X	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1950M DC	.	.	X	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2000M DC	.	C	.	X	.	1	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2050M DC	.	.	X	.	.	.	.	X	X	X	2	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2100M DC	.	.	.	.	.	1	.	.	X	.	.	.	R	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2146M SWC	.	<	X	.	.	.	.	.	.	.	1	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2165M SWC	.	.	.	.	X	.	.	.	.	X	.	.	.	.	X	.	X	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2200M DC	.	.	X	.	X	.	.	.	.	X	.	.	.	X	.	.	.	.	.	X	1	1	.	.	.	.	.	.	.	.	.	.	.
2250M DC	.	.	.	C	.	.	.	.	.	.	.	C	.	.	X	.	.	X	X	.	3	.	X	.	.	.	.	.	.	.	.	.	.
2300M DC	.	.	.	.	.	.	.	X	.	.	.	.	.	<	.	X	.	X	.	.	.	.	1	X	X	<	.	.	.	.	.	.	.
2345M SWC	.	.	.	.	X	.	.	.	.	.	.	.	.	.	X	X	.	X	.	.	.	.	.	.	X	.	X	<	X	.	.	.	.
2394M SWC	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	X	.	X	.	.	.	.	.	X	1	.	.	.	.	<	3	.	.
2451.5M SWC	.	.	X	.	.	.	.	X	.	X	X	1	.	X	X	.	.	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2482M SWC	.	.	.	C	.	.	.	X	.	.	.	.	.	X	X	X	<	X	.	.	.	.	.	X	.	.	.	.	.	<	.	1	.
2485M SWC	.	.	.	.	.	.	.	X	.	.	.	.	.	X	.	X	X	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	R
2490M SWC	.	.	.	.	.	.	.	X	.	.	.	.	.	X	X	X	X	X	.	.	.	.	.	X	X	.	.	.	X	.	.	X	.
2491M SWC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2527M SWC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2552M SWC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Depth	COMMENTS
1250M DC	ZONE PROBABLY B-2. LATE MIOCENE. OUTER SHELF TO SHELF/SLOPE BREAK.
1300M DC	ZONE B-2. LATE MIOCENE. PROBABLY OUTER SHELF ENVIRONMENT.
1350M DC	ZONE PROBABLY B-2. PROBABLY LATE MIOCENE. ?OUTER SHELF.
1400M DC	ZONE UNDIFFERENTIATED B/C. LATE TO MIDDLE MIOCENE. OUTER SHELF TO SLOPE.
1450M DC	ZONE B-2/C? LATE TO MIDDLE MIOCENE. POSSIBLY TURBIDITE DEPOSIT.
1500M DC	ZONE B-2/C. LATE TO MIDDLE MIOCENE. ENVIRONMENT INDETERMINABLE MARINE - LITTLE FAUNA RELEASED.
1550M DC	AGE INDETERMINABLE. NO PLANKTONIC FAUNA RELEASED FROM VERY HARD MATRIX. POSSIBLY TURBIDITE DEPOSIT.
1650M DC	AGE INDETERMINABLE. ALMOST NO FAUNA RELEASED FROM HARD MATRIX. POSSIBLY TURBIDITE OR SLUMP DEPOSIT?
1700M DC	ZONE B-2/C. LATE TO MIDDLE MIOCENE. SPARSE FAUNA RELEASED. POSSIBLY TURBIDITE OR SLUMP DEPOSIT.
1730M SWC	ZONE PROBABLY B-2. PROBABLY LATE MIOCENE. SPARSE FAUNA RELEASED FROM HARD MATRIX. ENVIRONMENT AS ABOVE?
1740M SWC	ZONE- LOW C. MIDDLE MIOCENE. ENVIRONMENT NORMAL MARINE UPPER BATHYAL.
1800M DC	ZONE D-1. MIDDLE MIOCENE. ENVIRONMENT UNDIFFERENTIATED SHELF EDGE TO UPPER SLOPE.
1850M DC	ZONE D-1. MIDDLE MIOCENE. ENVIRONMENT UPPER BATHYAL.
1900M DC	ZONE D OR E-1. AGE MIDDLE MIOCENE. ENVIRONMENT OUTER SHELF OR UPPER SLOPE.
1950M DC	ZONE BASAL D-2 OR E-1. MIDDLE MIOCENE. VERY RARE BENTHOS. UNDIFFERENTIATED OUTER SHELF TO UPPER SLOPE.
2000M DC	ZONE E. ZONE LIES ON MIDDLE/EARLY MIOCENE BOUNDARY. ENVIRONMENT PROBABLY UPPER BATHYAL.
2050M DC	ZONE PROBABLY F. EARLY MIOCENE. ENVIRONMENT UPPER BATHYAL.
2100M DC	ZONE POSSIBLY F? EARLY MIOCENE. CAVING PLUS ABSENCE G.SICANUS MAKES AGE DETERMINATION UNCERTAIN. ?UPPER BATHYAL.
2146M SWC	ZONE ?F. EARLY MIOCENE. UPPER BATHYAL.
2165M SWC	ZONE G. EARLY MIOCENE. ENVIRONMENT SHELF EDGE TO UPPER BATHYAL.
2200M DC	ZONE -APPROXIMATELY G/H BOUNDARY. EARLY MIOCENE. PROBABLY UPPER BATHYAL ENVIRONMENT.
2250M DC	ZONE H-1. EARLY MIOCENE. ENVIRONMENT PROBABLY UPPER BATHYAL.
2300M DC	ZONE H. EARLY MIOCENE. ENVIRONMENT UPPER BATHYAL.
2345M SWC	ZONE PROBABLY H. EARLY MIOCENE. ENVIRONMENT OUTER SHELF TO UPPER BATHYAL.
2394M SWC	ZONE H. EARLY MIOCENE. ENVIRONMENT ?UPPER BATHYAL.
2451.5M SWC	ZONE F. EARLY MIOCENE. SAMPLE OUT OF SEQUENCE. ENVIRONMENT UPPER BATHYAL.
2482M SWC	ZONE I-1. LATE OLIGOCENE. ABUNDANT SMALL PLANKTONIC SPECIMENS. ENVIRONMENT PROBABLY UPPER BATHYAL.
2485M SWC	ZONE I-1? ?LATE OLIGOCENE. BADLY PRESERVED BUT ABUNDANT PLANKTONIC FAUNA WITH SOME CONTAMINATION.
2490M SWC	ZONE I-1. LATE OLIGOCENE. RICH PLANKTONIC ASSEMBLAGE-MOSTLY SMALL SPECIMENS. ENVIRONMENT BATHYAL.
2491M SWC	AGE INDETERMINABLE. ALMOST NO FORAMINIFERA. POSSIBLY MARGINAL MARINE ENVIRONMENT.
2527M SWC	AGE INDETERMINABLE - BARREN.
2552M SWC	AGE INDETERMINABLE - BARREN.