BENTHONIC FORAMS. in ENVIRONMENTAL GROUPS

LAGOONAL

INNER AND MID SHELF

UPPER SLOPE

Ammobaculites spp.
Haplophragmoides spp.
Bathysiphon spp.
Reophax spp.
Ammosphaeroidina sp.
Cibicides brevoralis
Cibicides perforatus
Cassidulina subglobosa
Lenticulina spp.
Cibicides lobatulus
Heterolepa victoriensis
Astrononion spp.
Quinqueloculina ornithopetra
Anomalinoides procolligera
Gaudyrina & Pseudoclav.
"Robulus" mamiligera
Karreria maoria
Notorotalia miocenica
Carpentaria & Rupertia
Cibicides spp. (shelf forms)
Euvigerina maynii
Textularia carinata
Eponides repandus
Anomalinoides macroglabra
Karreria cygnorum
Bolivina spp. (smooth)
Elphidium
Karreriella bradyi
Pyrgo spp.
Sigmoidopsis sp.
Cibicides subhaidingeri
Melonis barleeanum
Stilostomella spp.
Bolivina anastomosa Gp.
Rectobolivina maoriella
Siphouvigerina proboscidae
Ammodiscus sp.
Cibicides karreriformis
Martinottiella sp.
Globobulimina ovoidea

RESIDUE LITHOLOGY

MAJOR COMPONENTS

b:bryozoa debri
f:foraminifera
sp:sponge spicules
q: f. ang. qtz.
Q:f-c ang.subrd qtz.
S:calc.siltston
g:glauc. clay
G:glauc and/or goethite pellts
p:pyrite
*:cryst.siderit or dolomite.
m:mudstone with very little residue.
S:siliceous cement

MINOR COMPONENTS

rock frags.
pyrite aggs.
glauc pellets
limonite
mica
pyrite-biogenic
fish teeth & bone frags.
bryozoa
oogenia (seaweed)
echinoid spines & plates
turritellid gast.
sponge spicules
ostracodes
pelecypod frags.
foram count
plank foram %

PALEO-ENVIRONMENT

DELTAIC-ESTUARINE
ESTUARINE ENTRANCE >10m
INNER SHELF 10-40m
CANYON HEAD ∿ 40m
MID SHELF CANYON 40-200m
SHELF EDGE CANYON ∿ 200m
UPPER SLOPE FAN ∿ 200-300m

MAJOR E-LOG CHARACTER CHANGES

PLANKTONIC FORAMINIFERAL ASSEMBLAGE

ZONE	Depth at Base
A	
A-4	275.6
B-1	298.4
B-2	308.2
C	332.6
?	353.7
D-1	
?	
E/D	
?	
	458.0
F	514.0
G	538.0
H-1	
	623.0
H-2	627.0
J-1	632.0
?K?	640.0
K	646.0
?K?	651.0

627
638.5
657 to 662

AGE

PLIOCENE

LATE MIOCENE

MID MIOCENE

EARLY MIOCENE

late Oligocene

early Oligocene

LATE EOCENE

SIDEWALL CORE
Depth in metres

230.0, 241.4, 253.8, 264.4, 275.6, 287.0, 298.4, 308.2, 321.2, 332.6, 344.0, 353.7, 366.0, 378.5, 390.0, 405.6, 412.0, 420.0, 435.2, 446.6, 458.0, 469.0, 476.0, 481.6, 493.0, 503.4, 514.0, 524.0, 538.0, 551.7, 581.0, 584.9, 590.0, 597.0, 601.0, 612.0, 618.0, 623.0, 627.0, 627.0, 632.0, 640.0, 646.0, 651.0, 658.0, 659.0, 672.0, 675.0, 678.0, 680.0, 683.0, 685.0, 688.0, 690.0, 693.0, 698.0

KEY: ° <20 specimens
x >20 specimens
D Dominant >60% of assemblage
R recycled Eo/Oligocene specimens
R reworked specimen dominant
m mixture of recycled & fresh specimens

r = rare
A = abundant - 1%-5% total grains
C = common <20 grains

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TABLE 2: SIGNIFICANT BENTHONIC FORAMINIFERAL DISTRIBUTION, RESIDUE LITHOLOGY & PALEOENVIRONMENTAL ASSESSMENT - BALEEN # 1.