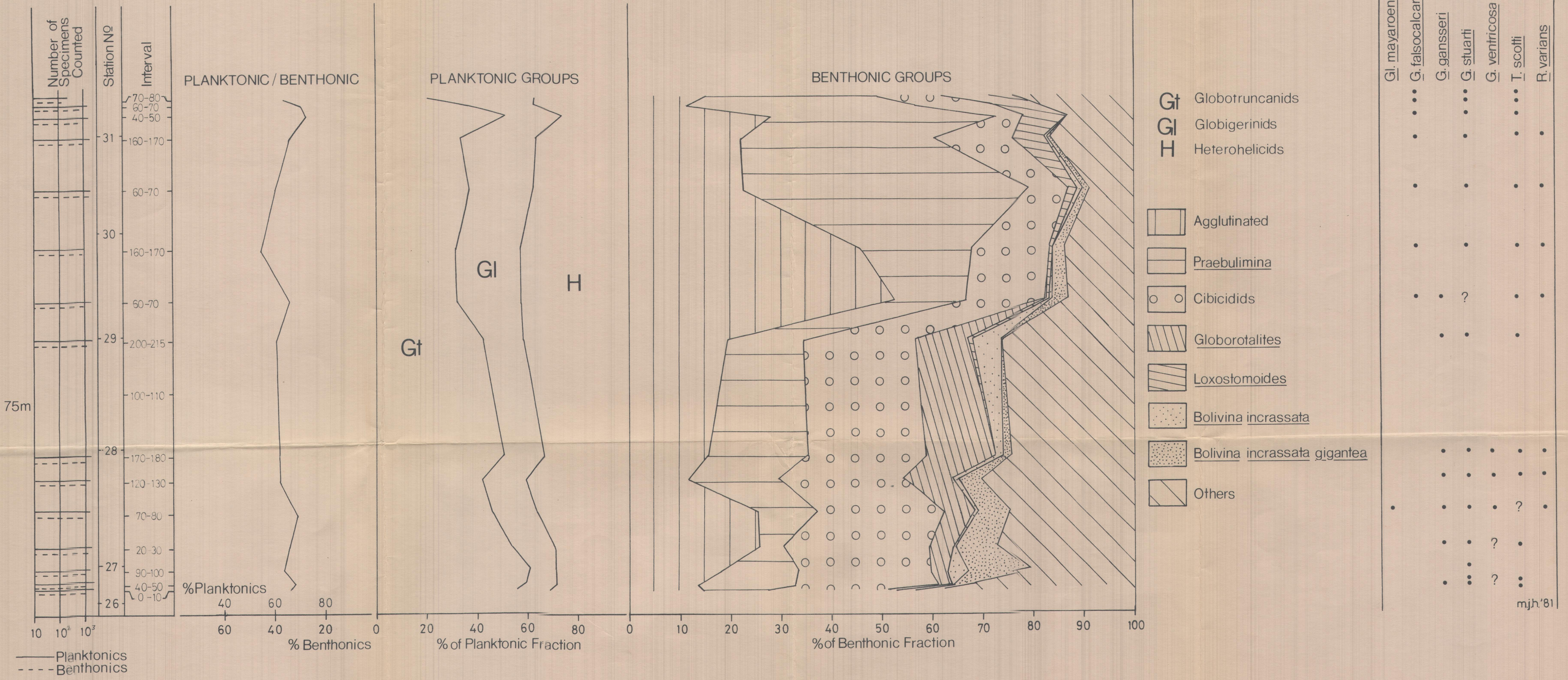


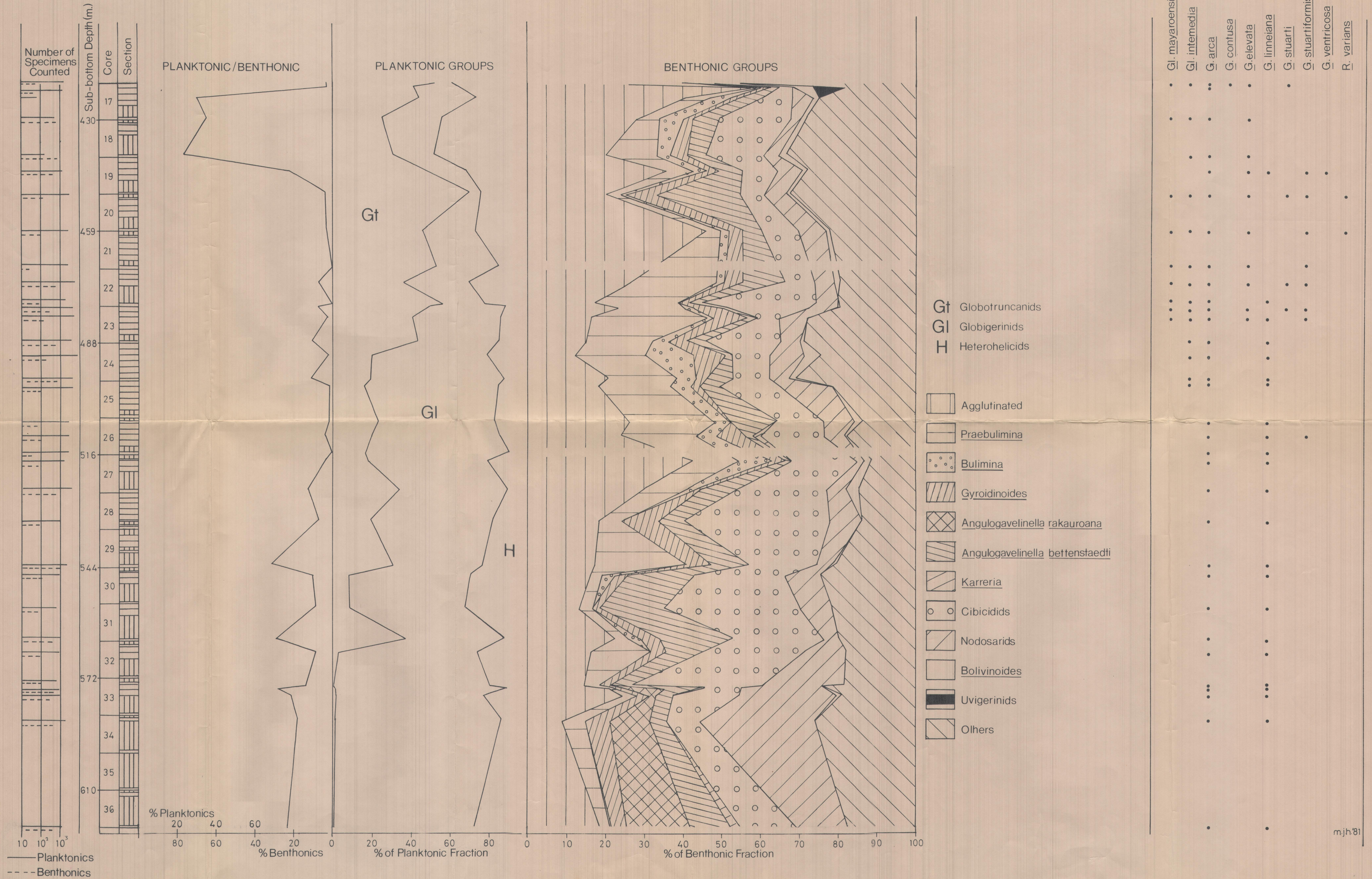
GAJ RIVER

Fig. 16



DSDP SITE 217

Fig. 17



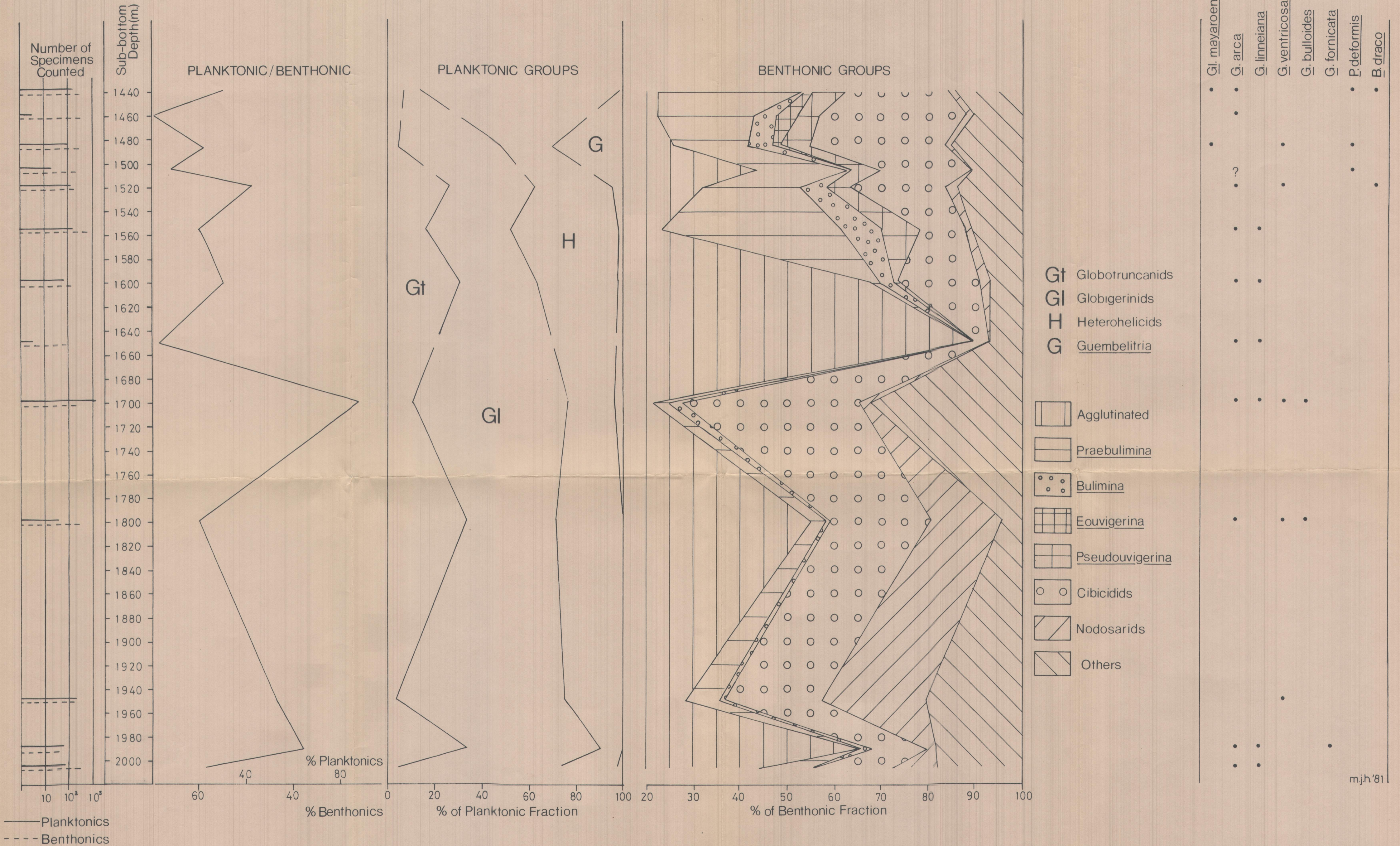


Fig. 19

MINILYA NO1.

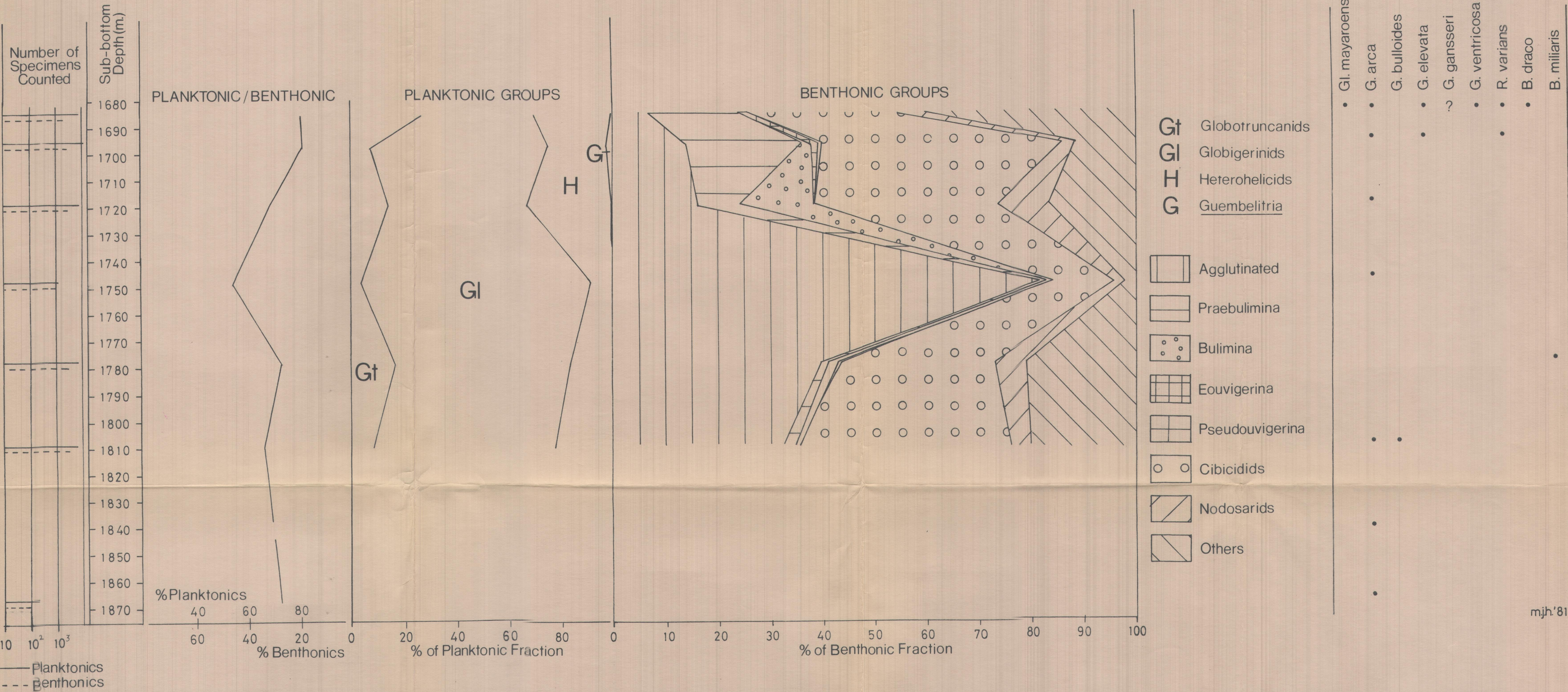
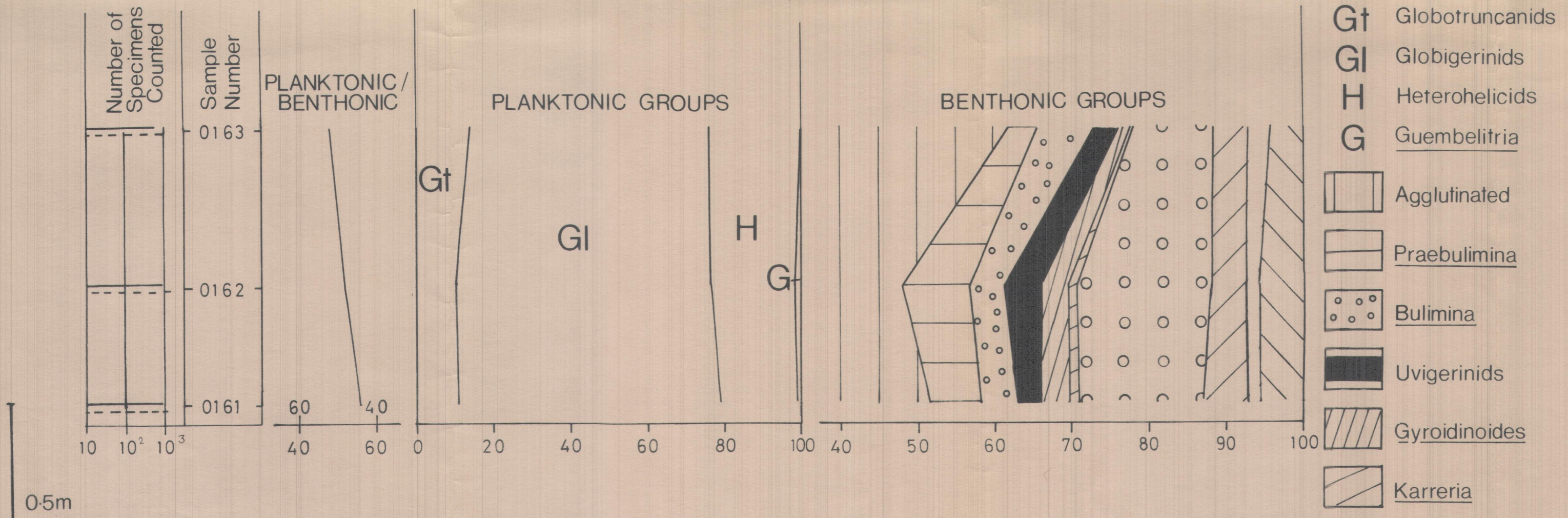


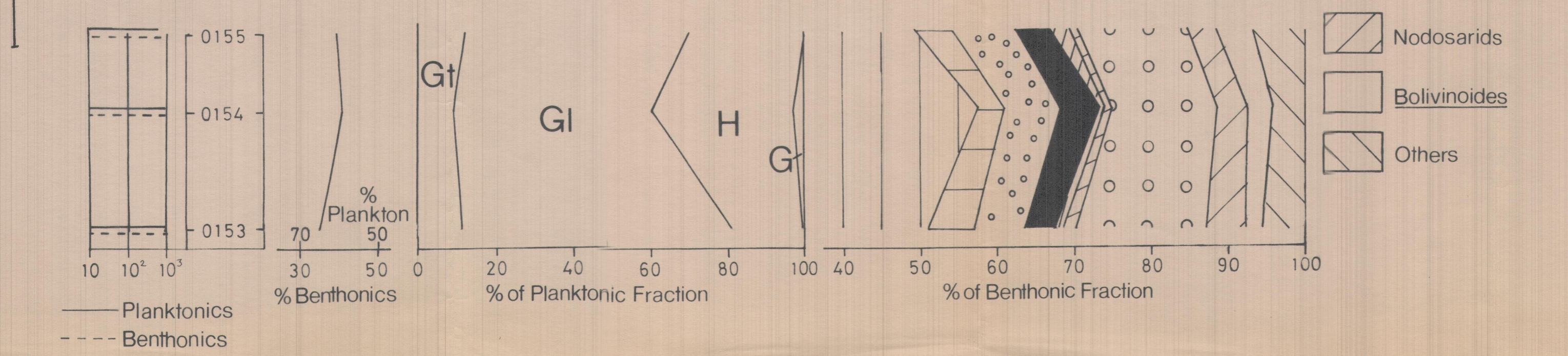
Fig. 20

MIRIA MARL

(A) TOOTHAWARRA CREEK

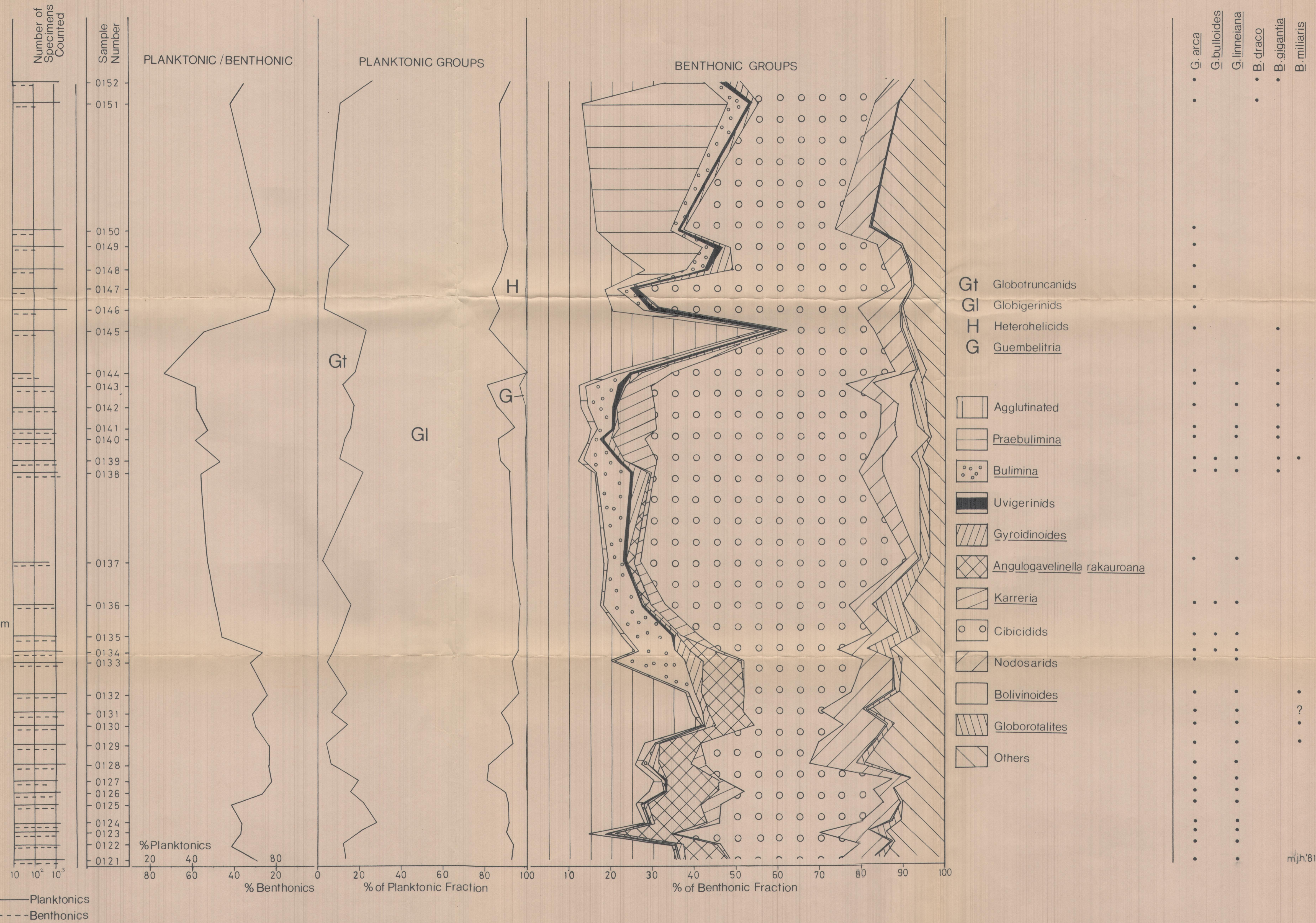


(B) C-Y CREEK



KOROJON CALCARENITE C-Y CREEK

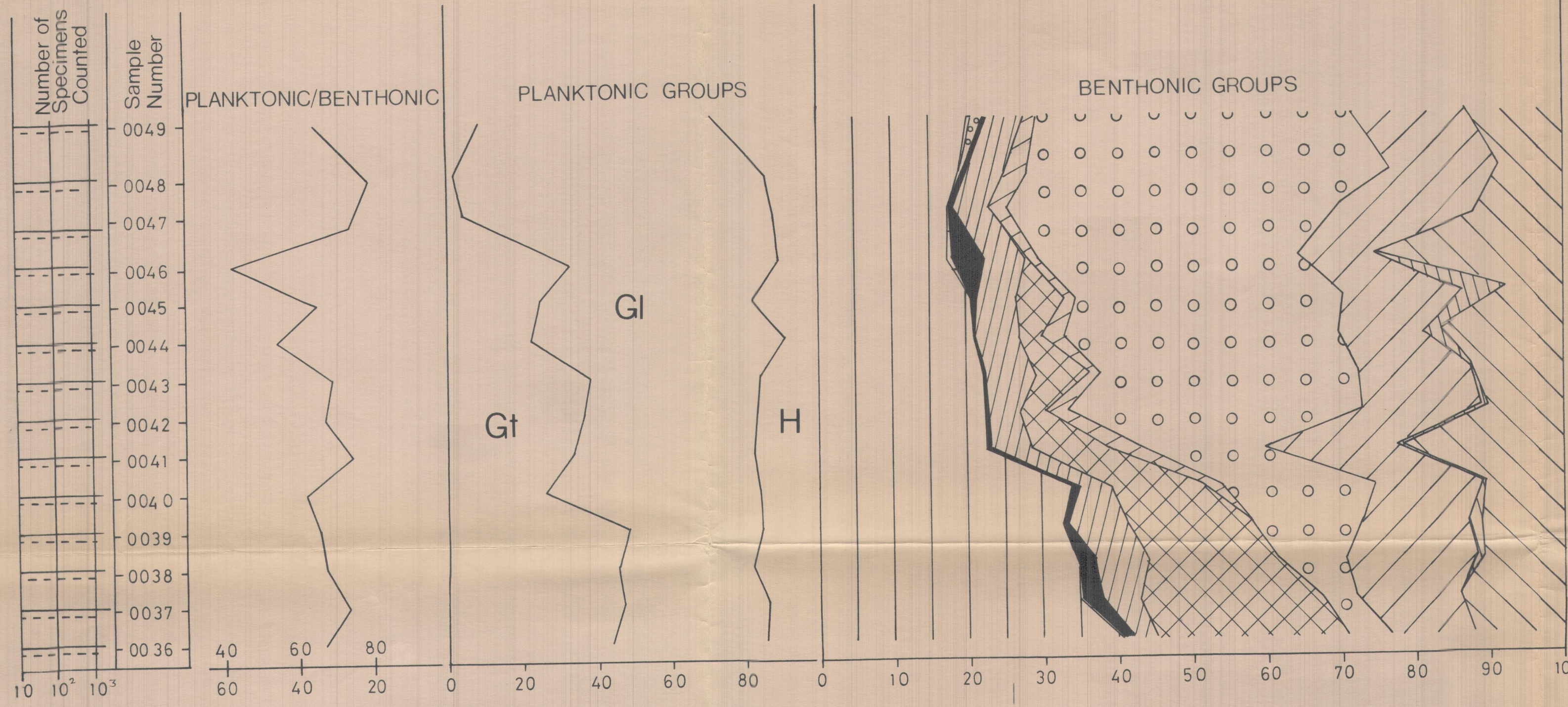
Fig. 21



TOOLONGA CALCILUTITE

(A) PILLARAWA HILL

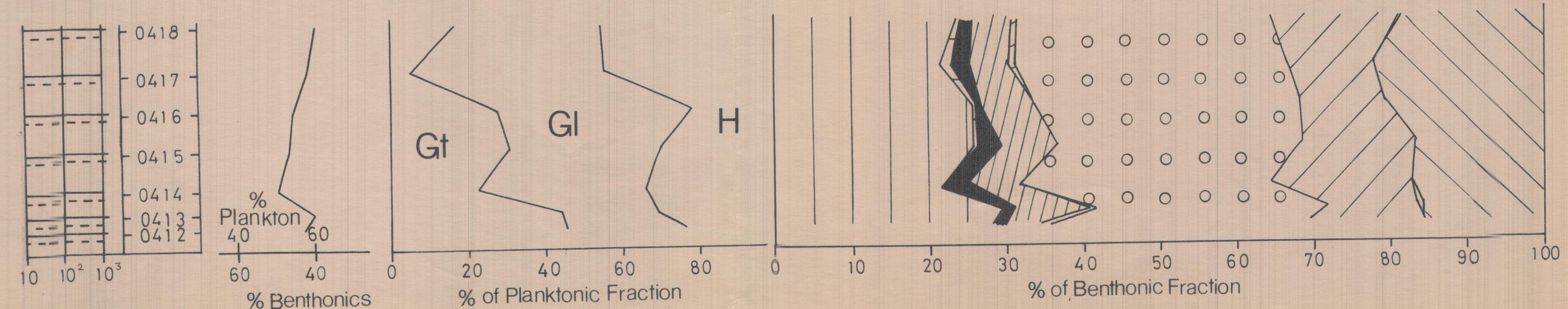
Fig. 22



- Gt Globotruncanids
- Gl Globigerinids
- H Heterohelicids
- Agglutinated
- Praebulimina
- Bulimina
- Uvigerinids
- Gyroidinoides
- Angulogavelinella rakauroana
- Karreria
- Cibicidids
- Nodosarids
- Globorotalites
- Others

| | G. arca | G. bulloides | G. linneiana | G. ventricosa |
|------|---------|--------------|--------------|---------------|
| 0049 | • | | | |
| 0048 | • | | | |
| 0047 | • | | | |
| 0046 | • | • | • | |
| 0045 | | • | • | • |
| 0044 | | • | • | |
| 0043 | | • | • | |
| 0042 | | • | • | |
| 0041 | | • | • | • |
| 0040 | | | • | |
| 0039 | | • | | |
| 0038 | • | • | • | |
| 0037 | | • | • | |
| 0036 | | • | • | |

(B) HAMELIN POOL



| | G. arca | G. bulloides | G. linneiana | G. ventricosa |
|------|---------|--------------|--------------|---------------|
| 0418 | • | | • | |
| 0417 | • | | • | |
| 0416 | | | • | • |
| 0415 | | | • | |
| 0414 | | • | • | |
| 0413 | | • | • | |
| 0412 | | • | • | • |

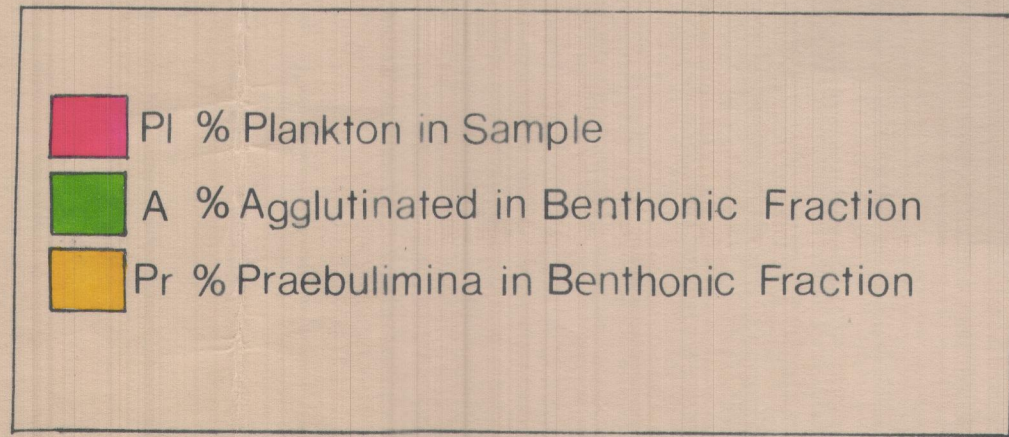
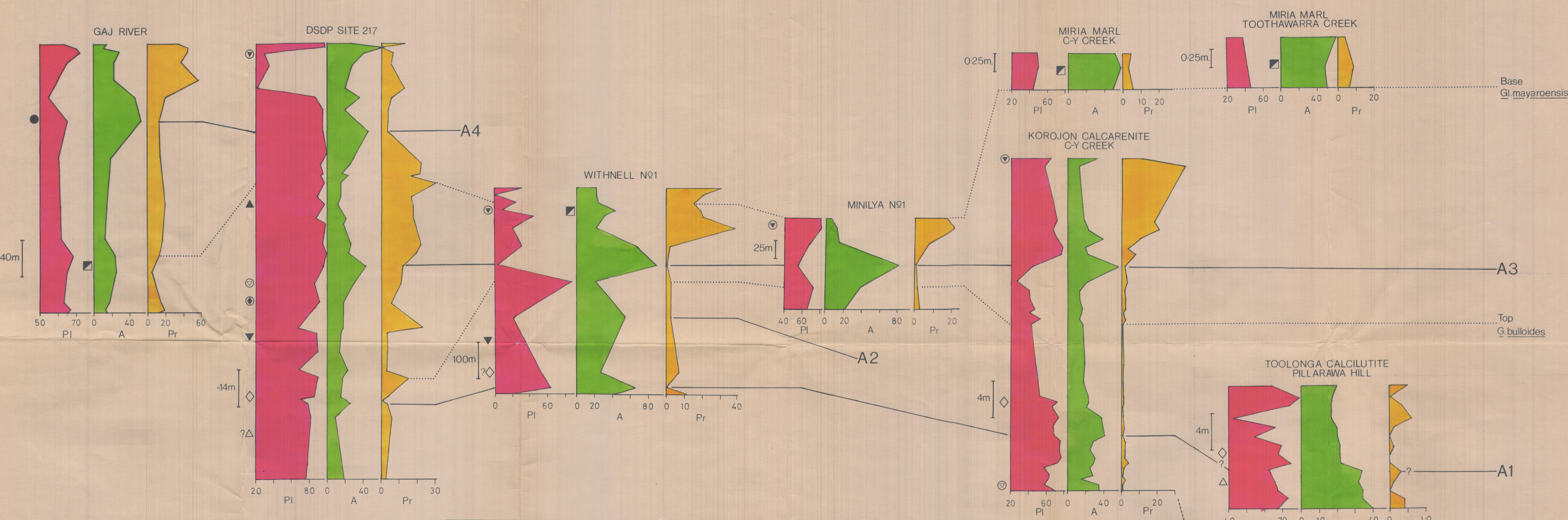
— Planktonics
 - - - Benthonics

LOWER INDUS BASIN

NINETY EAST RIDGE

NORTHWEST SHELF

CARNARVON BASIN



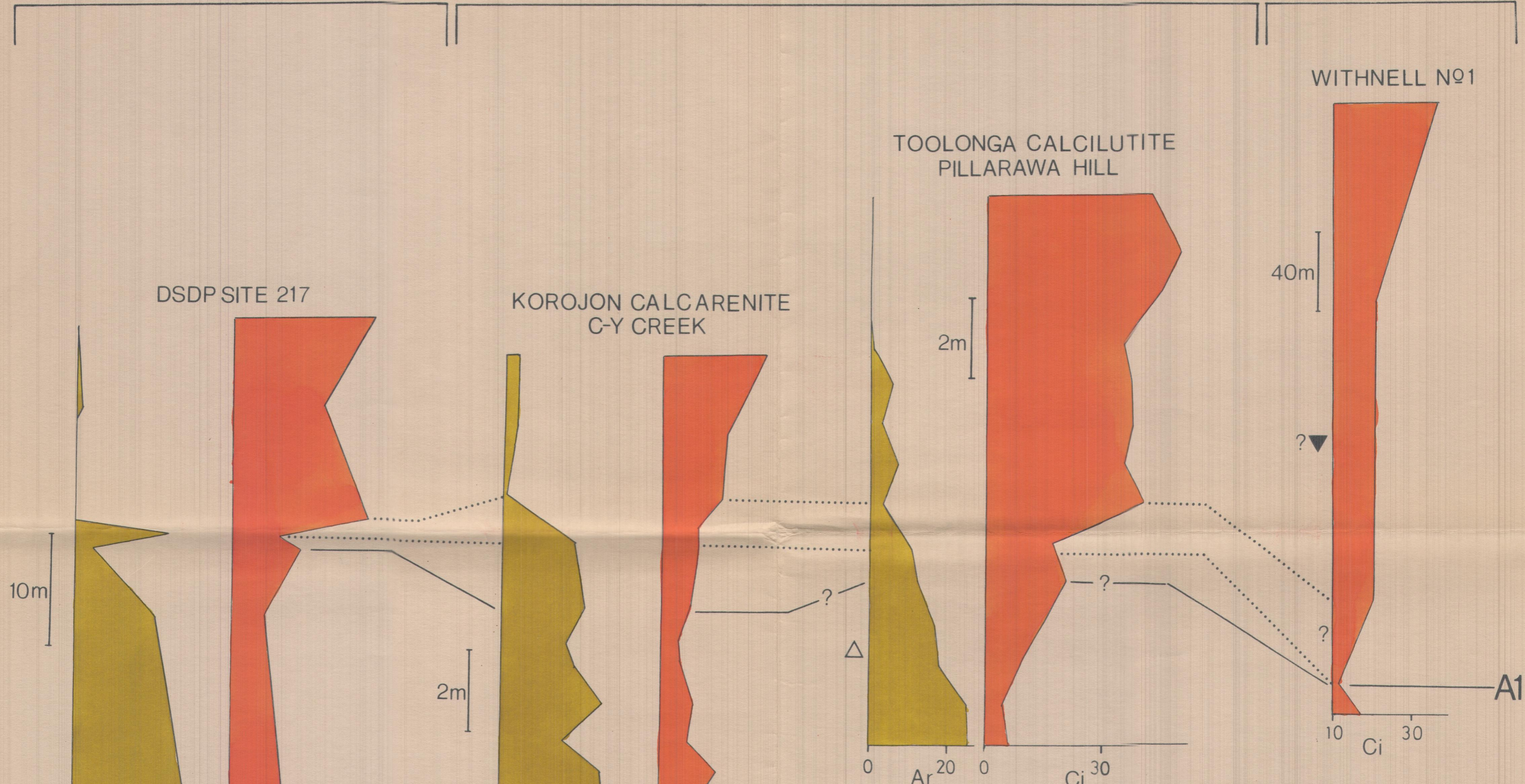
| | | | |
|----------|---|----------------------------|------|
| ● | + <i>G. falsocalcarata</i> | | |
| ▼ | + <i>B. draco</i> | | |
| ⊙ | + <i>B. miliaris</i> | | |
| ⊙ | + <i>T. trifidus</i> | | |
| ■ | Agglutinated Peak | | |
| ▲ | Sudden Increase in Keeled Forms | | |
| ▼ | Low ⇌ High Trochospiral Overturn | | |
| ◇ | Cibicidids/ <i>rakauoana</i> Overturn | | |
| A | Agglutinated Peaks (1-4) | | |
| △ | Planispiral ⇌ Low Trochospiral Overturn | | |
| | | MAASTRICHTIAN | |
| | <i>G. falsocalcarata</i> | + <i>G. falsocalcarata</i> | ◀ A4 |
| | <i>G. mayaroensis</i> | + <i>Gl. mayaroensis</i> | ◀ ▶ |
| | <i>G. contusa</i> | | |
| | <i>G. gansseri</i> | | |
| | | + <i>B. draco</i> | ◀ A3 |
| | | + <i>G. bulloides</i> | |
| | <i>G. scutilla</i> | | ◀ A2 |
| L. CAMP. | <i>G. calcarata</i> | | |
| | <i>G. subspinosa</i> | (+ <i>T. trifidus</i>) | ◀ ▶ |
| | <i>G. stuartiformis</i> | + <i>B. miliaris</i> | ◀ ▶ |

Fig. 24

NINETYEAST RIDGE

CARNARVON BASIN

NORTHWEST SHELF



■ Ar % *A. rakauoana* in Benthonic Fraction
■ Ci % Cibicidids in Benthonic Fraction
.....
Cibicidids/*rakauoana* Overturn
.....
For Explanation of Symbols and Dating
of Events See Figure 23

Fig. 26

| Station No. | | Interval | | GAJ RIVER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---------|----------|---|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | Benthonics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 70-80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 60-70 | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 40-50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 160-170 | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 60-70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 160-170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 60-70 | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 200-215 | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 100-110 | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 170-180 | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 120-130 | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 20-30 | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 90-100 | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 6-50 | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 0-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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- Ammodiscus cretaceus*
- Lituola grandis*
- Ammobaculites* sp. 1
- Spiroplectamina grzybowski*
- Spiroplectamina laevis*
- Spiroplectamina paula*
- Textularia* sp. 1
- Gaudryina laevigata*
- Gaudryina pyramidata*
- Pseudocyclonulina cf. gaultina*
- Tritaxia aspera*
- Dorothis biforris*
- Dorothis bulletta*
- Marssonella oxycona*
- Nodosaria ?intercostata*
- Nodosaria limbata*
- Nodosaria velascoensis*
- Astaclus* sp. 1
- Dentalina luma*
- Fronicularia archiaciana*
- Fronicularia mucronata*
- Lagena hispida*
- Lagena sulcata*
- Lagena stavenensis*
- Lenticulina muensteri*
- Lenticulina sublatus*
- Lenticulina* sp. 1
- Margulinopsis texasensis*
- Neoflabellina rugosa*
- Vaginulina cretacea*
- Fissurina cf. orbignyana*
- Praebulimina carseyae*
- Praebulimina kickapooensis*
- Praebulimina laevis*
- Praebulimina reussi*
- Bolivina incrassata*
- Bolivina incrassata gigantea*
- Bolivinoidea draco*
- Loxostomoidea cushmani*
- Eouvirgerina gracilis*
- Bulimina* sp. 1
- Reussella szajnochae*
- Pseudouvirgerina plummerae*
- Nuttallinella* sp. 1
- Eponides aff. concinna*
- Eponides simplex*
- Cibicides voltiziana*
- Cibicides monterelensis*
- Cibicides* sp. 1
- Ellipsoidella* sp. 1
- Quadriformina allomorphinoides*
- Pullenia americana*
- Pullenia cretacea*
- Globorotalites michelinianus*
- Globorotalites* sp. 1
- Gyroidinoides girardana*
- Gyroidinoides nitida*
- Gyroidinoides umbilicata*
- Anomalinoidea velascoensis*
- Karrerina aff. beaumontiana*
- Steniscoeina pommerana*
- Steniscoeina* sp. 1

| OSDP SITE 217 | | | Benthonics | |
|------------------|---------|----------|---|--|
| Core | Section | Interval | | |
| 17 | 1 | 38-40 | <i>Spiroplectammina graybowskii</i> | |
| 17 | 3 | 26-26 | <i>Gaudryina ?pulvina</i> | |
| 17 | CC | | <i>Gaudryina pyramidata</i> | |
| 18 | CC | | <i>Pseudolavulina cf. gaultina</i> | |
| 19 | 3 | 28-30 | <i>Tritaxia aspera</i> | |
| 19 | 3 | 118-120 | <i>Dorothia biformis</i> | |
| 19 | CC | | <i>Dorothia bulletta</i> | |
| 20 | CC | | <i>Dorothia pupa</i> | |
| 21 | CC | | <i>Marssonella ocycona</i> | |
| 22 | 2 | 118-120 | <i>Eggerella trochovidea</i> | |
| 22 | 3 | 119-121 | <i>Nodosaria proboscidea</i> | |
| 22 | CC | | <i>Nodosaria velascoensis</i> | |
| 23 | 1 | 48-50 | <i>Nodosaria sp. 2</i> | |
| 23 | 3 | 18-20 | <i>Nodosaria sp. 3</i> | |
| 23 | 4 | 118-120 | <i>Astacolus sp. 3</i> | |
| 24 | 1 | 118-120 | <i>Dentalina sp. 1</i> | |
| 24 | 3 | 18-20 | <i>Frondioularia archiaciana</i> | |
| 24 | 4 | 118-120 | <i>Frondioularia macronata</i> | |
| 24 | 5 | 18-20 | <i>Lenticulina muensteri</i> | |
| 24 | CC | | <i>Lenticulina sp. 1</i> | |
| 25 | 1 | 18-20 | <i>Marginulina sp. 4</i> | |
| 25 | 1 | 118-120 | <i>Marginulinopsis sp. 1</i> | |
| 25 | 2 | TOP | <i>Planularia sp. 3</i> | |
| 25 | 3 | 118-120 | <i>Vaginulinopsis sp. 1</i> | |
| 25 | 5 | 19-21 | <i>Tristix sp. 1</i> | |
| 25 | CC | | <i>Praebulimina carseyae</i> | |
| 26 | 1 | 128-130 | <i>Praebulimina sp. 1</i> | |
| 26 | 3 | 18-20 | <i>Praebulimina sp. 2</i> | |
| 26 | 4 | 18-20 | <i>Bolivina incrassata</i> | |
| 26 | CC | | <i>Bolivina incrassata gigantea</i> | |
| 27 | 2 | 15-17 | <i>Bolivinoidea cf. culverensis</i> | |
| 27 | CC | | <i>Bolivinoidea draco</i> | |
| 28 | 2 | 18-20 | <i>Bolivinoidea giganteus</i> | |
| 28 | 6 | TOP | <i>Bolivinoidea militaris</i> | |
| 28 | 6 | BASE | <i>Bolivinoidea sp. 1</i> | |
| 29 | CC | | <i>Ecuvigerina gracilis</i> | |
| 30 | 2 | 111-113 | <i>Stilostomella sagrinensis</i> | |
| 30 | 3 | 44-45 | <i>Bulimina pseudospinulosa</i> | |
| 31 | 1 | 111-112 | <i>Reussella sajnochae</i> | |
| 31 | CC | | <i>Nuttallinella coronula</i> | |
| 32 | 2 | BASE | <i>Nuttallinella sp. 1</i> | |
| 33 | 3 | 29-30 | <i>Nuttallides cf. galiciensis</i> | |
| 33 | 3 | 8-9 | <i>Iponides ?concinna</i> | |
| 33 | 3 | BASE | <i>Eponides simplex</i> | |
| 34 | 1 | BASE | <i>Cibicides monterelensis</i> | |
| 36 | CC | | <i>Pleurostomella torta</i> | |
| | | | <i>Ellipsoidea sp. 1</i> | |
| | | | <i>Ellipsoidea sp. 2</i> | |
| | | | <i>Loxostomum eleyi</i> | |
| | | | <i>Aragonia velascoensis</i> | |
| | | | <i>Quadriformina allomorphinoides</i> | |
| | | | <i>Pullenia americana</i> | |
| | | | <i>Pullenia coryelli</i> | |
| | | | <i>Pullenia cretacea</i> | |
| | | | <i>Ocangularia sp. 1</i> | |
| | | | <i>Globorotalites sp. 1</i> | |
| | | | <i>Gyrogoninoides girardana</i> | |
| | | | <i>Gyrogoninoides nitida</i> | |
| | | | <i>Gyrogoninoides aff. pontoni</i> | |
| | | | <i>Gyrogoninoides umbilicata</i> | |
| | | | <i>Anomalinoidea henbesti</i> | |
| | | | <i>Anomalinoidea aff. pinguis</i> | |
| | | | <i>Anomalinoidea velascoensis</i> | |
| | | | <i>Angulogavelinella aff. bettenstaedti</i> | |
| | | | <i>Angulogavelinella rakauroana</i> | |
| | | | <i>Karreria aff. beaumontiana</i> | |
| | | | <i>Stenetoetna pommerana</i> | |

Fig. 31

| WITHNELL NO.1 | Benthonics | Sample Numbers |
|---------------|---|----------------|
| | <i>Bathysiphon</i> spp. | |
| | <i>Pelostina</i> sp. | |
| | <i>Ammodiscus cretaceus</i> | |
| | <i>Ammodiscus</i> sp. 1 | |
| | <i>Glomospira pileolus</i> | |
| | <i>Haplophragmoides</i> sp. 1 | |
| | <i>Haplophragmoides</i> sp. 2 | |
| | <i>Spiroplectammia graybowskii</i> | |
| | <i>Spiroplectammia laevis</i> | |
| | <i>Spiroplectammia paula</i> | |
| | <i>Trochammia cf. boehemi</i> | |
| | <i>Vermeuilina parvi</i> | |
| | <i>Gaudryina healyi</i> | |
| | <i>Gaudryina</i> sp. 1 | |
| | <i>Dorothia biformis</i> | |
| | <i>Marssonella ellisorae</i> | |
| | <i>Marssonella orycona</i> | |
| | <i>Miliolid</i> sp. 1 | |
| | <i>Nodosaria ?intercostata</i> | |
| | <i>Nodosaria limbata</i> | |
| | <i>Dentalina basiplanata</i> | |
| | <i>Dentalina cylindroides</i> | |
| | <i>Dentalina luma</i> | |
| | <i>Dentalina solvata</i> | |
| | <i>Lagena stavenensis</i> | |
| | <i>Lagena sulcata</i> | |
| | <i>Lenticulina muensteri</i> | |
| | <i>Lenticulina sublatus</i> | |
| | <i>Margimulina</i> sp. 3 | |
| | <i>Saracenaria triangularis</i> | |
| | <i>Guttulina</i> sp. 1 | |
| | <i>Guttulina</i> sp. 2 | |
| | <i>Praeulimina carseyae</i> | |
| | <i>Praeulimina laevis</i> | |
| | <i>Bolivina incrassata</i> | |
| | <i>Bolivinoidea cf. culverensis</i> | |
| | <i>Bolivinoidea draco</i> | |
| | <i>Bolivinoidea giganteus</i> | |
| | <i>Eouvirgerina americana</i> | |
| | <i>Bulimina proluxa</i> | |
| | <i>Bulimina</i> sp. 2 | |
| | <i>Reussella saajnochae</i> | |
| | <i>Pseudouvirgerina plummerae</i> | |
| | <i>Eponides ?concinna</i> | |
| | <i>Eponides diversus</i> | |
| | <i>Eponides simplex</i> | |
| | <i>Cibicides bembix</i> | |
| | <i>Cibicides voltziana</i> | |
| | <i>Pleurostomella torta</i> | |
| | <i>Ellipsoidea sp. 3</i> | |
| | <i>Pullenia coryelli</i> | |
| | <i>Pullenia americana</i> | |
| | <i>Alabamina dorsoplana</i> | |
| | <i>Oscularia</i> sp. 2 | |
| | <i>Globorotalites michelinianus</i> | |
| | <i>Gyroidinoides girardana</i> | |
| | <i>Gyroidinoides nitida</i> | |
| | <i>Gyroidinoides aff. pontoni</i> | |
| | <i>Anomalinoidea henbeesti</i> | |
| | <i>Anomalinoidea aff. pinguis</i> | |
| | <i>Anomalinoidea velascoensis</i> | |
| | <i>Angulogavelinella aff. bettenstaedti</i> | |
| | <i>Angulogavelinella cayeuri</i> | |
| | <i>Karrenia aff. beaumontiana</i> | |
| | <i>Stensioeina pommerana</i> | |
| W1440 | | |
| W1460 | | |
| W1485 | | |
| W1505 | | |
| W1519 | | |
| W1555 | | |
| W1600 | | |
| W1650 | | |
| W1700 | | |
| W1799 | | |
| W1950 | | |
| W1990 | | |
| W2005 | | |

Fig. 32

| MINILYA NO.1 | Planktonics | Sample Numbers |
|-----------------|--|-------------------|
| | <i>Heterohelix glabrans</i> | |
| | <i>Heterohelix pulchra</i> | |
| | <i>Heterohelix striata</i> | |
| | <i>Heterohelix ultimatumida</i> | |
| | <i>Gublerina cuvillieri</i> | |
| | <i>Pseudotextularia deformis</i> | |
| | <i>Pseudotextularia elegans</i> | |
| | <i>Planoglobulina acervulinoides</i> | |
| | <i>Racemiguembelina varians</i> | |
| | <i>Globigerinelloides multispinata</i> | |
| | <i>Globigerinelloides subcarinatus</i> | |
| | <i>Globigerinelloides</i> sp. 1 | |
| | <i>Globotruncana arca</i> | |
| | <i>Globotruncana bulloides</i> | |
| | <i>Globotruncana</i> c.f. <i>contusa</i> | |
| | <i>Globotruncana elevata</i> | |
| | <i>Globotruncana gansseri</i> | |
| | <i>Globotruncana linneiana</i> | |
| | <i>Globotruncana trinidadensis</i> | |
| | <i>Globotruncana ventricosa</i> | |
| | <i>Rugoglobigerina rugosa</i> | |
| | <i>Guembelitra cretacea</i> | |
| | <i>Globotruncanella mayaroensis</i> | |
| M 1686 | | |
| M 1698 | | |
| M 1720 | | |
| M 1749 | | |
| M 1779 | | |
| M 1810 | | |
| M 1841 | | |
| M 1868 | | |

Fig. 33

| MINILYA NO.1 | Benthonics | Sample Numbers |
|-----------------|---|-------------------|
| | <i>Bathysiphon</i> spp. | |
| | <i>Pelosina</i> sp. | |
| | <i>Ammodiscus cretaceus</i> | |
| | <i>Ammodiscus</i> sp. 1 | |
| | <i>Glomospira pileolus</i> | |
| | <i>Haplophragmoides</i> sp. 1 | |
| | <i>Haplophragmoides</i> sp. 2 | |
| | <i>Spiroplectamina graybowskii</i> | |
| | <i>Spiroplectamina laevis</i> | |
| | <i>Spiroplectamina paula</i> | |
| | <i>Vermeuilina parri</i> | |
| | <i>Vermeuilina tricarinata</i> | |
| | <i>Gaudryina healyi</i> | |
| | <i>Gaudryina</i> sp. 1 | |
| | <i>Dorothyia biformis</i> | |
| | <i>Marssonella oxycona</i> | |
| | <i>Miliolid</i> sp. 1 | |
| | <i>Dentalina basiplanata</i> | |
| | <i>Dentalina cylindroides</i> | |
| | <i>Dentalina luma</i> | |
| | <i>Froniularia</i> sp. 2 | |
| | <i>Lagena hispida</i> | |
| | <i>Lenticulina muensteri</i> | |
| | <i>Lenticulina sublatus</i> | |
| | <i>Marginulina</i> sp. 2 | |
| | <i>Neoflabellina rugosa</i> | |
| | <i>Fissurina</i> sp. 1 | |
| | <i>Praebulimina carseyae</i> | |
| | <i>Praebulimina kickapoensis</i> | |
| | <i>Praebulimina laevis</i> | |
| | <i>Praebulimina reussi</i> | |
| | <i>Bolivina incrassata</i> | |
| | <i>Bolivina incrassata gigantea</i> | |
| | <i>Bolivinoidea draco</i> | |
| | <i>Bolivinoidea giganteus</i> | |
| | <i>Eouvirgerina americana</i> | |
| | <i>Bulimina proluxa</i> | |
| | <i>Bulimina</i> sp. 2 | |
| | <i>Reussella szajnochae</i> | |
| | <i>Pseudovirgerina plummerae</i> | |
| | <i>Eponides aversus</i> | |
| | <i>Eponides simplex</i> | |
| | <i>Cibicides bembis</i> | |
| | <i>Cibicides voltaiana</i> | |
| | <i>Pullenia americana</i> | |
| | <i>Pullenia coryelli</i> | |
| | <i>Oscularia</i> sp. 2 | |
| | <i>Globorotalites michelinianus</i> | |
| | <i>Globorotalites</i> sp. 1 | |
| | <i>Gyrogoninoides girardana</i> | |
| | <i>Gyrogoninoides nitida</i> | |
| | <i>Gyrogoninoides aff. pontoni</i> | |
| | <i>Anomalinoidea hembesi</i> | |
| | <i>Anomalinoidea aff. pinguis</i> | |
| | <i>Angulogavelinella aff. bettenstaedti</i> | |
| | <i>Angulogavelinella aff. cayeuri</i> | |
| | <i>Angulogavelinella rakauroana</i> | |
| | <i>Karreria aff. beaumontiana</i> | |
| | <i>Stensioeina pommerana</i> | |
| M1686 | | |
| M1698 | | |
| M1720 | | |
| M1749 | | |
| M1779 | | |
| M1810 | | |
| M1841 | | |
| M1868 | | |

Fig. 36

| KOROJON CALCARENITE | Planktonics | | Sample Numbers |
|------------------------|--|--|-------------------|
| | <i>Heterohelix glabrans</i> | <i>Heterohelix pulchra</i> | |
| | <i>Heterohelix punctulata</i> | <i>Heterohelix striata</i> | |
| | <i>Heterohelix ultimatumida</i> | <i>Gublerina cuvillieri</i> | |
| | <i>Gublerina reniformis</i> | <i>Pseudoguembelina sp. 1</i> | |
| | <i>Pseudotextularia elegans</i> | <i>Globigerinelloides multispinata</i> | |
| | <i>Globigerinelloides subearinatus</i> | <i>Globigerinelloides sp. 1</i> | |
| | <i>Globotruncana area</i> | <i>Globotruncana bulloides</i> | |
| | <i>Globotruncana cretacea</i> | <i>Globotruncana fornicata</i> | |
| | <i>Globotruncana limeiana</i> | <i>Rugoglobigerina rugosa</i> | |
| | <i>Globotruncanella havanensis</i> | <i>Guembelitria cretacea</i> | |
| 0152 | X | X | X |
| 0151 | X | X | X |
| 0150 | X | X | X |
| 0149 | X | X | X |
| 0148 | X | X | X |
| 0147 | X | X | X |
| 0146 | X | X | X |
| 0145 | X | X | X |
| 0144 | X | X | X |
| 0143 | X | X | X |
| 0142 | X | X | X |
| 0141 | X | ? | X |
| 0140 | X | X | X |
| 0139 | X | ? | X |
| 0138 | X | X | X |
| 0137 | X | X | X |
| 0136 | X | X | X |
| 0135 | X | X | X |
| 0134 | X | X | X |
| 0133 | X | X | X |
| 0132 | X | X | X |
| 0131 | X | X | X |
| 0130 | X | X | X |
| 0129 | X | ? | X |
| 0128 | X | X | X |
| 0127 | X | X | X |
| 0126 | X | X | X |
| 0125 | X | X | X |
| 0124 | X | X | X |
| 0123 | X | X | X |
| 0122 | X | X | X |
| 0121 | X | X | X |

Fig. 37

| KOROJON CALCARENITE | |
|---|-------------------|
| Benthonics | Sample Numbers |
| <i>Ammidiscus cretaceus</i> | 0152 |
| <i>Glenospira gordialis</i> | 0151 |
| <i>Placopsalina</i> sp. | 0150 |
| <i>Spiroplectammina gryphosuski</i> | 0149 |
| <i>Spiroplectammina laevis</i> | 0148 |
| <i>Spiroplectammina paula</i> | 0147 |
| <i>Vermetulina parvi</i> | 0146 |
| <i>Vermetulina tricarinata</i> | 0145 |
| <i>Gaudryina healyi</i> | 0144 |
| <i>Gaudryina</i> sp. 1 | 0143 |
| <i>Dorothyia bifurcata</i> | 0142 |
| <i>Dorothyia bullella</i> | 0141 |
| <i>Dorothyia pupa</i> | 0140 |
| <i>Marsosella ellisorae</i> | 0139 |
| <i>Marsosella oxycona</i> | 0138 |
| <i>Eggerella trochoides</i> | 0137 |
| <i>Goesella chapmani</i> | 0136 |
| <i>Miliolid</i> sp. 1 | 0135 |
| <i>Miliolid</i> sp. 2 | 0134 |
| <i>Nodosaria ?intercostata</i> | 0133 |
| <i>Nodosaria limbata</i> | 0132 |
| <i>Astacolus</i> sp. 2 | 0131 |
| <i>Citharina getsendoeferi</i> | 0130 |
| <i>Dentalina basiplanata</i> | 0129 |
| <i>Dentalina ?catemula</i> | 0128 |
| <i>Dentalina luma</i> | 0127 |
| <i>Dentalina cf. megalopolitana</i> | 0126 |
| <i>Dentalina pertinens</i> | 0125 |
| <i>Frondeularia archiaciana</i> | 0124 |
| <i>Frondeularia cf. bulla</i> | 0123 |
| <i>Frondeularia macronata</i> | 0122 |
| <i>Frondeularia teurina</i> | 0121 |
| <i>Frondeularia</i> sp. 1 | |
| <i>Lagena sulcata</i> | |
| <i>Lenticulina muensteri</i> | |
| <i>Lenticulina cf. muensteri</i> | |
| <i>Lenticulina pondi</i> | |
| <i>Lenticulina sublatius</i> | |
| <i>Lenticulina</i> sp. 1 | |
| <i>Lenticulina</i> sp. 2 | |
| <i>Marginalina jarvisi</i> | |
| <i>Marginalina</i> sp. 1 | |
| <i>Marginalina</i> sp. 2 | |
| <i>Neoflabellina praeretiolata</i> | |
| <i>Neoflabellina reticulata</i> | |
| <i>Planularia</i> sp. 1 | |
| <i>Planularia</i> sp. 2 | |
| <i>Saracenaria triangularis</i> | |
| <i>Saracenaria</i> sp. 1 | |
| <i>Vaginulinopsis</i> sp. 1 | |
| <i>Globalina laurina</i> | |
| <i>Globalina laurina horrida</i> | |
| <i>Guttulina</i> sp. 1 | |
| <i>Ramulina pseudoculeata</i> | |
| <i>Fiasurina cf. orbignyana</i> | |
| <i>Fiasurina</i> sp. 1 | |
| <i>Praebulimina carveyae</i> | |
| <i>Praebulimina laevis</i> | |
| <i>Praebulimina reussi</i> | |
| <i>Bolivina inaequalata</i> | |
| <i>Bolivinaoides draco</i> | |
| <i>Bolivinaoides giganteus</i> | |
| <i>Bolivinaoides militaris</i> | |
| <i>Stilostomella aspera</i> | |
| <i>Bulimina prolata</i> | |
| <i>Reussella sajnochae</i> | |
| <i>Paedobulimina plummerae</i> | |
| <i>Heronallia</i> sp. 1 | |
| <i>Eponides ?conchima</i> | |
| <i>Eponides diversus</i> | |
| <i>Cibicides bembix</i> | |
| <i>Cibicides voltaiana</i> | |
| <i>Planorbulina</i> sp. 1 | |
| <i>Pleurostomella subnodosa</i> | |
| <i>Pleurostomella ?orta</i> | |
| <i>Loxostomum elegi</i> | |
| <i>Quadrinorphina allomorphinoides</i> | |
| <i>Pallentia coryelli</i> | |
| <i>Pallentia americana</i> | |
| <i>Alabamina dorsoplana</i> | |
| <i>Globorotalites michelinianus</i> | |
| <i>Gyrogoninoides girardiana</i> | |
| <i>Gyrogoninoides nitida</i> | |
| <i>Gyrogoninoides aff. pontoni</i> | |
| <i>Anomalinooides herbesti</i> | |
| <i>Anomalinooides aff. pinguis</i> | |
| <i>Anomalinooides velascoensis</i> | |
| <i>Anomalinooides</i> sp. 1 | |
| <i>Anomalinooides</i> sp. 2 | |
| <i>Angulogavelinella aff. bettenstaedti</i> | |
| <i>Angulogavelinella asajeri</i> | |
| <i>Angulogavelinella rakarouana</i> | |
| <i>Colletes</i> sp. 1 | |
| <i>Karveria ?baunontiana</i> | |
| <i>Karveria</i> sp. 1 | |
| <i>Steniscoena pommarana</i> | |
| <i>Ceratolamarckina</i> sp. 1 | |

| TOOLONGA CALCILUTITE | | Planktonics | | Sample Numbers | | | | | | | | |
|-------------------------|----------------------------|----------------------------|---------------------------------|--|----------------------------------|--|---------------------------|--------------------------------|-------------------------------|--------------------------------|---------------------------------|-------------------------------|
| | <i>Heterohelix pulchra</i> | <i>Heterohelix striata</i> | <i>Heterohelix ultimatumida</i> | <i>Globigerinelloides multispinata</i> | <i>Globigerinelloides</i> sp. 1. | <i>Hedbergella</i> c.f. <i>bulbosa</i> | <i>Globotruncana arca</i> | <i>Globotruncana bulloides</i> | <i>Globotruncana cretacea</i> | <i>Globotruncana linneiana</i> | <i>Globotruncana ventricosa</i> | <i>Rugoglobigerina rugosa</i> |
| 0418 | | X | | X | X | X | | | | X | | |
| 0417 | | X | | X | X | X | | | | X | | |
| 0416 | | X | | X | X | X | | | | X | | |
| 0415 | | X | | X | X | X | | | | X | | |
| 0414 | | X | | X | X | X | X | | | X | | |
| 0413 | | X | | X | X | X | | X | | X | | |
| 0412 | | X | | X | X | X | | | | X | ? | |
| HAMELIN POOL | | | | | | | | | | | | |
| 0049 | | X | ? | X | X | X | | | | X | | X |
| 0048 | | X | | X | X | X | | | | X | | X |
| 0047 | | X | | X | X | X | | | | X | | X |
| 0046 | | X | | X | X | X | X | | | X | | |
| 0045 | | X | | X | X | X | | | | X | | |
| 0044 | | X | | X | X | X | | | | X | | |
| 0043 | | X | | X | X | X | | | | X | | |
| 0042 | | X | | X | X | X | | | | X | | |
| 0041 | | X | | X | X | X | | | | X | | |
| 0040 | | X | | X | X | X | ? | | | X | | |
| 0039 | | X | | X | X | X | | | | X | | |
| 0038 | | X | | X | X | X | | X | | X | | |
| 0037 | | X | | X | X | X | | | | X | | |
| 0036 | | X | | X | X | X | | | | X | | |
| PILLARAWA HILL | | | | | | | | | | | | |

Fig. 39

| TOOLONGA CALCILUTITE | | Benthonics | |
|----------------------|--|------------|--|
| Sample Numbers | | | |
| 0418 | | | |
| 0417 | | | |
| 0416 | | | |
| 0415 | | | |
| 0414 | | | |
| 0413 | | | |
| 0412 | | | |
| HAMELIN POOL | | | |
| 0049 | | | |
| 0048 | | | |
| 0047 | | | |
| 0046 | | | |
| 0045 | | | |
| 0044 | | | |
| 0043 | | | |
| 0042 | | | |
| 0041 | | | |
| 0040 | | | |
| 0039 | | | |
| 0038 | | | |
| 0037 | | | |
| 0036 | | | |
| PILLARAWA HILL | | | |

- Ammotacus eretaceus*
- Spiroplectammina graybowskii*
- Spiroplectammina laevis*
- Spiroplectammina paula*
- Vermetulina parri*
- Gaudryina australis*
- Gaudryina healyi*
- Gaudryina pyramidata*
- Gaudryina sp. 1*
- Spiroplectinata compressuscula*
- Tritaxia trifidus*
- Dorothia biformis*
- Dorothia bullella*
- Dorothia pupa*
- Marssonella elisorae*
- Marssonella oxycona*
- Goesella chapmani*
- Miliolid sp. 1*
- Nodosaria ?intercostata*
- Nodosaria limbata*
- Astacolus sp. 3*
- Citharina geisendoerferi*
- Dentalina basiplanata*
- Dentalina delicatula*
- Dentalina luma*
- Dentalina marcki*
- Dentalina cf. megalpolitana*
- Dentalina sp. 1*
- Fronducularia archiaciana*
- Fronducularia bulla*
- Fronducularia costulifera*
- Fronducularia disjuncta*
- Fronducularia mucronata*
- Fronducularia planifolium*
- Fronducularia teurta*
- Lenticulina meunsteri*
- Lenticulina cf. muensteri*
- Lenticulina pondi*
- Lenticulina sublatius*
- Lenticulina sp. 1*
- Lenticulina sp. 3*
- Lenticulina sp. 4*
- Margulinopsis sp. 1*
- Margulinopsis sp. 1*
- Neoflabellina rugosa*
- Palmla pilulata*
- Planularia sp. 3*
- Pseudonodosaria manifesta*
- Saracenaria aff. colei*
- Saracenaria triangularis*
- Ramulina pseudoauleata*
- Praebulimina reussi*
- Stilostomella aspera*
- Reussella exajnochae*
- Nuttallinella coromula*
- Sponides ?conetna*
- Sponides diversus*
- Cibicides stellula*
- Cibicides voltziana*
- Carpenteria conica*
- Carpenteria globulosa*
- Pleurostomella subnodosa*
- Quadriformina allomorphinoides*
- Pallenia americana*
- Pallenia coryelli*
- Alabamina australis*
- Alabamina dorsoplana*
- Gyroidinoides girardana*
- Gyroidinoides nitida*
- Gyroidinoides aff. pontoni*
- Anomalinoidea insculpta*
- Anomalinoidea murchisonensis*
- Angulogavelinella rakaroana*
- Karrerria aff. beaumontiana*