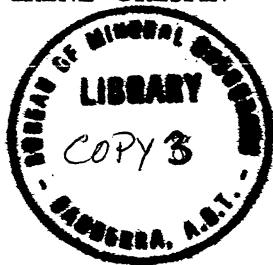


DEPARTMENT OF NATIONAL DEVELOPMENT
BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

REPORT No. 148

**Catalogue of additional type and figured
specimens of Protista
(Foraminifera, Radiolaria, and Tintinnina)
in the Commonwealth
Palaeontological Collection, Canberra**

IRENE CRESPIN



AUSTRALIAN GOVERNMENT PUBLISHING SERVICE
CANBERRA 1971

BMR
555(94)
REP.6

copy 3

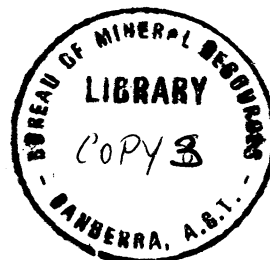
BMR MINERAL RESOURCES
GEOLOGY AND GEOPHYSICS
CANBERRA

DEPARTMENT OF NATIONAL DEVELOPMENT
BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

REPORT No. 148

**Catalogue of additional type and figured
specimens of Protista
(Foraminifera, Radiolaria, and Tintinnina)
in the Commonwealth
Palaeontological Collection, Canberra**

IRENE CRESPI



AUSTRALIAN GOVERNMENT PUBLISHING SERVICE
CANBERRA 1971

*Published for the Minister for National Development
by the Australian Government Publishing Service*

ISBN 0 642 00016 6

CONTENTS

								<i>Page</i>
INTRODUCTION	..	..	..	..	..	..	..	5
FORAMINIFERA	..	..	..	..	..	..	..	7
RADIOLARIA	..	..	..	..	..	..	..	125
TINTINNINA	..	..	..	..	..	..	..	127
REFERENCES	..	..	..	..	..	..	..	128

INTRODUCTION

This present Catalogue of type and figured specimens in the Commonwealth Palaeontological Collection, Canberra, includes specimens of Foraminifera, Radiolaria, and Tintinnina described in the following publications: Belford (1960, 1961, 1962, 1966, 1967a-c, 1968), Brunnenschweiler (1960), Chapman (1909, 1917), Crespin (1960, 1961, 1962, 1963a-b), Jenkins (1960), and Lloyd (1967, 1968).

As in previous Catalogues, genera are listed in alphabetical order, and only important references are given in synonymy. More extensive lists of references are to be found in the publications in which these specimens have been described. Locality and map numbers are included for convenience.

This Catalogue includes specimens described in 1909 by the late Frederick Chapman in his 'Recent Foraminifera from the Sub-Antarctic Islands of New Zealand'. The assemblage slides containing these specimens were presented to the Bureau of Mineral Resources by Mr Chapman's son, the late Dr W. D. Chapman, in 1949. In recording some of these specimens, the numbers in parentheses following the C.P.C. number refer to the number of the space on the assemblage slide on which the species has been placed.

The specimens of Foraminifera and Ostracoda described by Chapman (1917) from the Gingin Chalk, Western Australia, came into the possession of the Bureau when they were included in the Chapman collection of fossils purchased by the Bureau a few years after Chapman's death. All specimens were affixed to assemblage slides; five slides of Foraminifera and one of Ostracoda. It was not considered advisable to attempt to transfer all specimens of Foraminifera to individual slides, as many had become brittle after the long period of time they had been attached to these slides. Consequently, each assemblage slide has been allotted a Commonwealth Palaeontological Collection (C.P.C.) type number which is followed by the individual number of the specimen to which it is attached on the slide. Dr D. J. Belford, during his work on the Upper Cretaceous Foraminifera of Western Australia (1960), used five of Chapman's specimens in his descriptions. These were removed from the assemblage slides with great care and given individual C.P.C. type numbers.

In a paper entitled 'Miocene and Pliocene Smaller Foraminifera from Papua and New Guinea' by D. J. Belford (1966), numerous errors, through omissions and misprints, have occurred. Corrections are listed below. The locality of figured sections of many species, inadvertently omitted in the paper, are now shown in the present list.

Corrections for 'Miocene and Pliocene Smaller Foraminifera from Papua and New Guinea', by D. J. Belford (1966)

Page

- 21—Under heading *BOLIVINA ROBUSTA*, for text-fig. 4 read text-fig. 1.
- 33—Under heading 'Occurrence', Paratype B, C.P.C. 6115 should read C.P.C. 6185.
- 80—Under 'Occurrence' for *Euuvigerina crassicostata*, 'Yule' has been omitted before 'Island'.
- 80—Under 'Occurrence' of *Euuvigerina flinti*, for 'Tubu Silstone' read 'Tubu Siltstone'.
- 82—(?) omitted after *EUUVIGERINA* and before *NITIDULA*.
- 91—Under text-fig. 8, first line, for 'text' read 'test'.
- 105—On text-fig. 10, after *Amphistegina lessonii* d'Orbigny add C.P.C. 6401.
- 117—Below 'Occurrence', after *P.sp.* insert 'A'.
- 123—Under *PLANULINA RETIA* sp. nov., delete text-fig. 32:4-5.
- 124—For 1951b *Hyalina baltica* (Schroeter) (sic), read 1951b *Hyalinea baltica* (Schroeter) (sic).
- 124—Under text-fig. 13, for Schroeter, read Gmelin.
- 133—Insert 'C' in 'CIBICIDES'.
- 133—After text-fig. 15:3-10, add 'text-fig. 14:3'.
- 161—Under 'Occurrence', delete 'loc.31' and insert 'loc. 21'.

167—Text-fig. 21:4, C.P.C. 6500, should read C.P.C. 6600.

175—Text-fig. 22:5, for loc. 163 read 16g.

191—For 'Hofker (1951b) described Pacific specimens in *H. elegans*', read 'Hofker (1951b) described Pacific specimens as *H. elegans*'.

Plate 2, fig. 6—'D' omitted after paratype.

Plate 9, fig. 3—For C.P.C. 6398, read C.P.C. 6348.

Plate 11, fig. 9—For C.P.C. 6476, read C.P.C. 6470.

Plate 11, fig. 15—Insert C.P.C. 6390.

Plate 12, fig. 6—For C.P.C. 6396, read C.P.C. 6395.

Plate 12, figs 8-13—Delete 'Holotype', 'paratype A', and 'paratype B'.

Plate 21, fig. 9—Insert 'x' before 26.

Plate 28—Under *Gyroidina acuta*, figs 4-5 should read figs 4-6.

Plate 28, fig. 20—For figure 10 read 19.

Plate 32, fig. 13—C.P.C. 6656 should read C.P.C. 6655.

Plate 35—Figs 4-5 omitted. Should read 4-5 C.P.C. 6644; 4, ventral view; 5, edge view, both x 75.

Plate 36—Reference to figure 6 omitted; add '6, C.P.C. 6685, section across last chamber showing bilamellid structure, x 116.

FORAMINIFERA

ALABAMINA AUSTRALIS AUSTRALIS Belford, 1960.

Alabamina australis australis Belford, 1960, p. 84, Pl. 23, figs 13-20; text-fig. 4; text-fig. 5 (1-4)

C.P.C. 3364—Holotype (Pl. 23, figs 13-15)
Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A.

8 feet above base of Toolonga Calcilutite

C.P.C. 3365—Paratype A (Pl. 23, figs 16-18)

C.P.C. 3366—Paratype B (Pl. 23, figs 19-20)

Scarp, Pillarawa Hill, Murchison River area
3 feet above base of Toolonga Calcilutite

C.P.C. 3367—Paratype C (text-fig. 5 (1))

C.P.C. 3369—Paratype D (text-fig. 5 (2))

C.P.C. 3370—Paratype G (text-fig. 4)

Scarp, Bidgie Bidgie Point, Murchison River area

At base of Toolonga Calcilutite

C.P.C. 3369—Paratype E (text-fig. 5 (3))

C.P.C. 3370—Paratype E (text-fig. 5 (4))
Quarry, One Tree Hill, near Gingin, Perth Basin, W.A.

Gingin Chalk, 32 feet above base

Upper Cretaceous (Santonian)

ALABAMINA AUSTRALIS AUSTRALIS Belford, 1960; 1966.

Alabamina australis australis Belford, 1960, p. 84, Pl. 23, figs 13-20, text-fig. 4, text-fig. 5 (1-4); 1966, p. 163, text-fig. 20:3.

C.P.C. 6591—part of horizontal section
Murchison River area, W.A.

Toolonga Calcilutite

Upper Cretaceous

ALABAMINA AUSTRALIS OBSCURA Belford, 1960.

Alabamina australis obscura Belford, 1960, p. 86, Pl. 24, figs 1-8, text-fig. 5 (5-7).

C.P.C. 3373—Holotype of subspecies (Pl. 24, figs 1-3)

C.P.C. 3377—Paratype E (text-fig. 5 (7))
Quarry, One Tree Hill near Gingin, Perth Basin, W.A.

Gingin Chalk, 32 feet above base

C.P.C. 3373—Paratype A (Pl. 24, figs 4-6)

C.P.C. 3374—Paratype B (Pl. 24, figs 7, 8)
Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, W.A.

3 feet above base of Toolonga Calcilutite

C.P.C. 3375—Paratype C (text-fig. 5 (5))
Scarp, Bidgie Bidgie Point, Murchison River area

At base of Toolonga Calcilutite

C.P.C. 3376—Paratype D (text-fig. 5 (6))
Scarp, Toolonga Point, Murchison River area

8 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

ALABAMINA AUSTRALIS OBSCURA Belford, 1960; 1966.

Alabamina australis obscura Belford, 1960, p. 86, Pl. 24, figs 1-8; text-fig. 5 (5-7); 1966, p. 163, text-fig. 20: 1-2.

C.P.C. 6589 (text-fig. 20:1)—C.P.C. 6590 (text-fig. 20:2)—Horizontal sections
Quarry, One Tree Hill, near Gingin, W.A.
Gingin Chalk

Upper Cretaceous

ALLOMORPHINA PACIFICA Hofker, 1951; Belford, 1966.

Allomorphina pacifica Hofker, 1951, p. 438, Pl. 55, figs 24-26; Belford, 1966, p. 154, Pl. 30, figs 14-16.

C.P.C. 6568—Hypotype
Forsayth Plantation, Mushu Island, Sepik district, New Guinea (Log. 36, Map 8)

Pliocene

ALABAMINA TUBULIFERA (Heron-Allen & Earland, 1914); Belford, 1966.

Truncatulina tubulifera Heron-Allen & Earland, 1914, p. 710, Pl. 52, figs 37-40.

Alabamina tubulifera (Heron-Allen & Earland), Belford, 1966, p. 160, Pl. 27, figs 1-6; text-fig. 22:6.

C.P.C. 6585 (Pl. 27, figs 1-3)—C.P.C. 6584 (Pl. 27, fig. 4)—Hypotypes

C.P.C. 6585 (Pl. 27, fig. 5)—Horizontal section

C.P.C. 6586 (Pl. 27, fig. 63)—part of horizontal section

Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea

Uppermost Miocene or Pliocene

C.P.C. 6587 (text-fig. 22:6)—Hypotype Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

AMMOBACULITES ABNORMALIS Crespin, 1963.

Ammobaculites abnormalis Cressin 1963b, p. 34, Pl. 8, figs 1-8.

C.P.C. 4494—Holotype (Pl. 8, figs 1, 2) WAPET Rough Range No. 4 Well, Carnarvon Basin, Core 17, at 3715 feet Muderong Shale

C.P.C. 4495—Paratype A (Pl. 8, figs 3, 4) Same bore as above, Core 12, at 3640 feet Muderong Shale

C.P.C. 4496—Paratype B (Pl. 8, figs 5, 6) Same bore as above, Core 14, at 3670 feet Muderong Shale

Lower Cretaceous

AMMOBACULITES AUSTRALIS (Howchin, 1895); Cressin, 1963.

Haplophragmium australe Howchin, 1895, p. 198, Pl. 10, figs 1, 2.

Ammobaculites australis (Howchin), Cressin, 1963b, p. 35, Pl. 7, figs 17, 18.

C.P.C. 4498—Hypotype A (Pl. 7, fig. 17) Bungeworgorai Creek, section S of Great Western railway line, 5 miles W of Roma, Queensland Roma formation

C.P.C. 4499—Hypotype B (Pl. 7, fig. 18) Kopperammana Bore, NE of Adelaide, South Australia, at 1907 feet Equivalent of Tambo or Roma Formations

Lower Cretaceous

AMMOBACULITES DISPARILIS Cressin, 1963.

Ammobaculites disparilis Cressin, 1963b, p. 36, Pl. 11, figs 11-14.

C.P.C. 4500—Holotype (Pl. 11, figs 11, 12) Dribbling Bore, Sandringham, western Queensland, at 470-489 feet Upper Longsight Sandstone

C.P.C. 4501—Paratype (Pl. 11, figs 13, 14) Union-Kern-A.O.G. Cabawin No. 1 Well, Queensland, at 1090-1099 feet Roma Formation

Lower Cretaceous

AMMOBACULITES ERECTUS Cressin, 1963.

Ammobaculites erectus Cressin, 1963b, p. 36, Pl. 8, figs 9-12.

C.P.C. 4501—Holotype (Pl. 8, fig. 9)

C.P.C. 4503—Paratype A (Pl. 8, fig. 10) Coogiebung Tank, Marion Downs, western Queensland (W. 26)

Lower Wilgunya Formation

C.P.C. 4504—Paratype B (Pl. 8, fig. 11) Netting Bore, Paton Downs, western Queensland

Lower Wilgunya Formation

C.P.C. 4505—Paratype C (Pl. 8, fig. 12) 12 mile Tank, Marion Downs, western Queensland, 0-4 feet above base (GAB 304a)

Lower Wilgunya Formation

Lower Cretaceous

AMMOBACULITES EXERTUS Cressin, 1963.

Ammobaculites exertus Cressin, 1963b, p. 37, Pl. 8, figs 13-16.

C.P.C. 4506—Holotype (Pl. 8, figs 13, 14)

C.P.C. 4507—Paratype A (Pl. 8, fig. 15)
Dribbling Bore, Sandringham, western
Queensland, at 470-489 feet
Upper Longsight Sandstone

C.P.C. 4508—Paratype B (Pl. 8, fig. 16)
W.C. and I.C. Bores 8271, K. F. Robinson,
Talyeale, Hungerford, northern New
South Wales, at 1000 feet

Lower Cretaceous

AMMOBACULITES FISHERI Crespin,
1953; 1963.

Ammobaculites fisheri Crespin, 1953, p. 29,
Pl. 5, figs 4, 5; 1963b, p. 38, Pl. 11,
figs 8-10.

C.P.C. 4509—Hypotype A (Pl. 11, fig. 8)
1 mile W of gate along fence, 5 miles NW
of Hilary Dam, Marion Downs, western
Queensland (W. 261)

Lower Wilgunya Formation

C.P.C. 4510—Hypotype B (Pl. 11, fig. 9)
Hills about 16 miles NW of Marion Downs
Homestead (S. 156)

Lower Wilgunya Formation

C.P.C. 4511—Hypotype C (Pl. 11, fig. 10)
Anacoora Bore, southern Northern Terri-
tory, at 830-840 feet

? Equivalent Roma Formation

Lower Cretaceous

AMMOBACULITES FRAGMENTARIUS
Cushman, 1927; Crespin, 1963.

Ammobaculites fragmentarius Cushman,
1927c, p. 130, Pl. 1, fig. 8; Crespin,
1963b, p. 39, Pl. 7, fig. 15.

C.P.C. 4512—Hypotype
Dry Bore Creek Tank, Marion Downs,
western Queensland (GAB. 23)

Lower Wilgunya Formation

Lower Cretaceous

AMMOBACULITES GOODLANDENSIS
Cushman & Alexander, 1930; Crespin,
1963.

Ammobaculites goodlandensis Cushman &
Alexander, 1930, p. 8, Pl. 2, figs 7, 8;
Crespin, 1963b, p. 39, Pl. 9, figs 1-4.

C.P.C. 4513—Hypotype A (Pl. 9, fig. 1)
Marion Downs Homestead, western Queens-
land, side of track 4 miles S of junction
with track between Bucket Creek Bore
and Whitewood Tank (W. 285)

Lower Wilgunya Formation

C.P.C. 4514—Hypotype B (Pl. 9, figs 2, 3)
Hills about 16 miles NW of Marion Downs
Homestead (S. 156)

Lower Wilgunya Formation

C.P.C. 4515—Hypotype C (Pl. 9, fig. 4)
Kopperamanna Bore, northeastern South
Australia, at 1907 feet

Equivalent of Roma or Tambo Formations

Lower Cretaceous

AMMOBACULITES GROSSUS Crespin,
1963.

Ammobaculites grossus Crespin, 1963b,
p. 40, Pl. 9, figs 5-10.

C.P.C. 4516—Holotype (Pl. 9, figs 5, 6)

C.P.C. 4517—Paratype A (Pl. 9, figs 7, 8)

C.P.C. 4518—Paratype B (Pl. 9, fig. 10)

C.P.C. 4519—Paratype C (Pl. 9, fig. 9)
Middalya Station, 18 miles S of Homestead,
Carnarvon Basin, W.A. (MG. 224)

Muderong Shale

Lower Cretaceous

AMMOBACULITES IMPLANUS Crespin,
1963.

Ammobaculites implanus Crespin, 1963b,
p. 41, Pl. 9, figs 11-18.

C.P.C. 4520—Holotype (Pl. 9, figs 11, 12)

C.P.C. 4521—Paratype A (Pl. 9, fig. 13)

C.P.C. 4525—Paratype E (Pl. 9, fig. 17)

C.P.C. 4526—Paratype F (Pl. 9, fig. 18)
Dribbling Bore, Sandringham, western
Queensland, at 470-489 feet

Upper Longsight Sandstone

C.P.C. 4522—Paratype B (Pl. 9, fig. 14)

C.P.C. 4523—Paratype C (Pl. 9, fig. 15)

C.P.C. 4524—Paratype D (Pl. 19, fig. 16)

Mt Whelan, western Queensland (W40)

Lower Wilgunya Formation

Lower Cretaceous

AMMOBACULITES IRREGULARIFORMIS Bartenstein & Brand, 1951; Crespin, 1963.

Ammobaculites irregulariformis Bartenstein & Brand, 1951, p. 270, Pl. 2, figs 41-44; Crespin, 1963b, p. 42, Pl. 10, figs 1-3.

C.P.C. 4527—Hypotype A (Pl. 10, fig. 1)
Dribbling Bore, Sandringham, western Queensland, at 470-489 feet
Upper Longsight Sandstone

C.P.C. 4528—Hypotype B (Pl. 10, fig. 2)

C.P.C. 4529—Hypotype C (Pl. 10, fig. 3)
Union-Kern-A.O.G. Cabawin No. 1 Well, Queensland, at 1090-1099 feet
Roma Formation

Lower Cretaceous

AMMOBACULITES LAEVIGATUS Lozo, 1944; Crespin, 1963.

Ammobaculites laevigatus Lozo, 1944, Pl. 2, figs 2, 3, text-figs la-h; Crespin, 1963b, p. 42, Pl. 10, figs 4-9.

C.P.C. 4530—Hypotype A (Pl. 10, figs 7, 8)

WAPET Rough Range No. 4 Well, Carnarvon Basin, W.A., in core 18, at 3725 feet

Muderong Shale

C.P.C. 4531—Hypotype B (Pl. 10, figs 4, 5, 6)

Same well as above, core 12, at 3640 feet
Muderong Shale

C.P.C. 4532—Hypotype C (Pl. 10, fig. 9)
Same well as above, core 17, at 3715 feet
Muderong Shale

Lower Cretaceous

AMMOBACULITES MINIMUS Crespin, 1953; 1963.

Ammobaculites minimus Crespin, 1953, p. 30, Pl. 5, fig. 8; 1963b, p. 43, Pl. 10, figs 10-12.

C.P.C. 4533—Hypotype A (Pl. 10, fig. 10)
11½ miles SW of 8 Mile Tank near track to Whitewood Tank on Herbert Downs, western Queensland (W.206a)

Lower Wilgunya Formation

C.P.C. 4534—Hypotype B (Pl. 10, fig. 11)
Dry Bore Creek Tank, Marion Downs, western Queensland (GAB.23)
Lower Wilgunya Formation

Lower Cretaceous

C.P.C. 4535—Hypotype C (Pl. 10, fig. 12)
BMR No. 4 Bore, Wallal Bore, Canning Basin. W.A., core 9 at 888-898 feet

Upper Jurassic or Lower Cretaceous (Hypotype C)

AMMOBACULITES SUBCRETACEUS Cushman & Alexander, 1930; Crespin, 1963.

Ammobaculites subcretacea Cushman & Alexander, 1930, p. 6, Pl. 2, figs 9, 10.

Ammobaculites subcretaceus Cushman & Alexander; Crespin, 1963b, p. 43, Pl. 10, figs 13-14.

C.P.C. 4536—Hypotype A (Pl. 10, fig. 13)

C.P.C. 4537—Hypotype B (Pl. 10, fig. 14)
Dribbling Bore, Sandringham, western Queensland, at 470-489 feet
Upper Longsight Sandstone

Lower Cretaceous

AMMOBACULITES SUCCINCTUS Crespin, 1963.

Ammobaculites succinctus Crespin, 1963b, p. 44, Pl. 10, figs 15-17.

C.P.C. 4538—Holotype (Pl. 10, fig. 15)

C.P.C. 4539—Paratype A (Pl. 10, fig. 16)

C.P.C. 4540—Paratype B (Pl. 10, fig. 17)

W.C. and I.C. Bore 8264, E. W. Robinson, Womparley, Bourke, northern New South Wales, at 1000 feet

Lower Cretaceous

AMMOBACULITES TOROSUS Loeblich & Tappan, 1949; Crespin, 1963.

Ammobaculites torosus Loeblich & Tappan, 1949, p. 251, Pl. 46, figs 6a, b, 7; Crespin, 1963b, p. 45, Pl. 11, figs 6, 7.

C.P.C. 4541—Hypotype A (Pl. 11, fig. 6)
Broken Dam Bore, Canary Station, western Queensland, at 51-53 feet
Lower Wilgunya Formation

C.P.C. 4542—Hypotype B (Pl. 11, fig. 7)
A.A.O. No. 8 Well, Karumba, northern
Queensland, at 2218-2223 feet
Blackdown Formation

Lower Cretaceous

AMMOBACULITES WALLALENSIS Crespin, 1963.

Ammobaculites wallalensis Crespin, 1963b,
p. 45, Pl. 11, figs 1-5.

C.P.C. 4543—Holotype (Pl. 11, figs 1, 2)

C.P.C. 4544—Paratype A (Pl. 11, fig. 3)

C.P.C. 4545—Paratype B (Pl. 11, fig. 4)

C.P.C. 4546—Paratype C (Pl. 11, fig. 5)

BMR Wallal No. 4 bore, Canning Basin,
W.A., core 9 at 888-889 feet

Upper Jurassic or Lower Cretaceous

AMMOBACULITES WOOLNOUGH Crespin & Parr, 1941; Belford, 1968.

Ammobaculites woolnoughi Crespin & Parr,
1941, p. 304, Pl. 12, figs 2a, b; 3a, b;
Belford, 1968, Pl. 1, fig. 10.

C.P.C. 6831—Hypotype

BMR 7, core 5 at 392-403 feet, Middalya
Station, Carnarvon Basin, W.A., 88 miles
NE of Carnarvon in north-central part of
Kennedy Range

Permian

AMMOBACULITES sp. cf. A. EXCENTRICA Crespin, 1958; Belford, 1968.

Ammobaculites excentrica Crespin, 1958, p.
73, Pl. 14, figs 4-9.

Ammobaculites sp. cf. *A. excentrica*
Crespin, Belford, 1968, Pl. 1, fig. 9.

C.P.C. 6830—Figured specimen

BMR 8, core 13 at 1199-1207 feet, Byro
Station, Carnarvon Basin, W.A. Cally-
tharra Formation

Permian

AMMOBACULITES sp. cf. A. GRATUS Cushman & Applin, 1947; Belford, 1960.

Ammobaculites gratus Cushman & Applin,
1947, p. 54, Pl. 13, figs 4a, b.

Ammobaculites sp. cf. *A. gratus* Cushman
& Applin, Belford, 1960, p. 7, Pl. 1,
figs 1-3.

C.P.C. 3075—Figured specimen (Pl. 1,
fig. 1)

Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A. At top of
exposure of Toolonga Calcilutite

C.P.C. 3076—Figured specimen (Pl. 1, fig.
2)

C.P.C. 3077—Thin section (Pl. 1, fig. 3)

Scarp, Yaringa North Station, Shark Bay
area, Carnarvon Basin, W.A., at side of
North-west Coastal Highway, 31 miles N
of Hamelin turnoff, 15 feet above base of
section

Toolonga Calcilutite

Upper Cretaceous (Campanian)

AMMOBACULOIDES PITMANI Crespin, 1953; 1963.

Ammobaculoides pitmani Crespin, 1953, p.
30, Pl. 5, fig. 13; 1963b, p. 52, Pl. 66,
figs 5-7.

C.P.C. 4577—Hypotype A (Pl. 66, fig 5)

C.P.C. 4578—Hypotype B (Pl. 66, fig. 6)

C.P.C. 4579—Hypotype C (Pl. 66, fig. 7)

Bungeworgorai Creek, 5 miles W of Roma,
Queensland, S side of Great Western
railway line

Roma Formation

Lower Cretaceous

AMMOBACULOIDES ROMAENSIS Crespin, 1953; 1963.

Ammobaculoides romaensis Crespin, 1953,
p. 31, Pl. 5, figs 13-14; 1963b, p. 52, Pl.
16, figs 1-4.

C.P.C. 4580—Hypotype A (Pl. 16, fig. 1)

C.P.C. 4581—Hypotype B (Pl. 16, fig. 2)

C.P.C. 4582—Hypotype C (Pl. 16, fig. 3)

Bungeworgorai Creek, 5 miles W of Roma,
Queensland, on S side of Great Western
railway line

Roma Formation

C.P.C. 4583—Hypotype D (Pl. 16, fig. 4)
Union-Kern-A.O.G. Cabawin No. 1 Well,
Queensland, at 800-810 feet
Roma Formation

Lower Cretaceous

AMMODISCUS CRETACEUS (Reuss,
1845); Crespin, 1963.

Operculina cretacea Reuss, 1845, p. 35, Pl.
13, fig. 64-65.

Ammodiscus cretaceus (Reuss), Crespin,
1963b, p. 26, Pl. 2, figs 6, 7.

C.P.C. 4452—Hypotype A (Pl. 2, fig. 6)
Small section of gypsiferous clay, 3 miles S
of Carlo Springs, Glenormiston Station,
western Queensland

Lower Wilgunya Formation

C.P.C. 4453—Hypotype B (Pl. 2, fig. 7)
4 miles NE of Kidmans Bore, Marion
Downs, western Queensland

Lower Wilgunya Formation

Lower Cretaceous

AMMODISCUS GAULTINUS Berthelin,
1880; Chapman, 1917.

See INVOLUTINA CRETACEA (Reuss),
Belford, 1960, p. 22.

Ammodiscus gaultinus Berthelin, 1880, p.
19, Pl. 1, figs 3a, b; Chapman, 1917, p.
18, Pl. 1, fig. 8.

C.P.C. 7042 (8)—Hypotype
One Tree, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

AMMODISCUS GLABRATUS Cushman
& Jarvis, 1928; Crespin, 1963.

Ammodiscus glabratus Cushman & Jarvis,
1928, p. 86, Pl. 12, figs 6, 6a; Crespin,
1963b, p. 27, Pl. 2, figs 8, 9.

C.P.C. 4454—Hypotype A (Pl. 2, fig. 8)

C.P.C. 4444—Hypotype B (Pl. 2, fig. 9)
12 Mile Tank, Marion Downs, western
Queensland, 0-4 feet above base
Lower Wilgunya Formation

Lower Cretaceous

AMMODISCUS INCERTUS (d'Orbigny,
1839); Chapman, 1917.

See INVOLUTINA CRETACEA
(Reuss), Belford, 1960, p. 22.

Operculina incerta d'Orbigny, 1839a, p.
71, Pl. 6, figs 16, 17.

Ammodiscus incertus (d'Orbigny), Chap-
man, 1917, p. 17, Pl. 1, fig. 7.

C.P.C. 7042 (7)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

AMMODISCUS NITIDUS Parr, 1942;
Belford, 1968.

Ammodiscus nitidus Parr, 1942, p. 103, Pl.
1, figs 1a, b; Belford, 1968, Pl. 1, figs
5-7.

C.P.C. 6826—Hypotype (Pl. 1, fig. 5)
BMR 7, Core 3, Middalya Station,
Carnarvon Basin, W.A., 88 miles NE of
Carnarvon, in north-central part of
Kennedy Range, at 293-303 feet

C.P.C. 6827—Hypotype (Pl. 1, fig. 6)
Same locality as above but from Core 5, at
397-403 feet

C.P.C. 6828—Hypotype (Pl. 1, fig. 7)
BMR 8, Core 13, Byro Station, Carnarvon
Basin, at 1199-1207 feet

Permian

AMMODISCUS WANDAGEENSIS Parr,
1942; Belford, 1968.

Ammodiscus wandageensis Parr, 1942, p.
102, Pl. 11, fig. 1; Belford, 1968, Pl. 1,
fig. 8.

C.P.C. 6829—Hypotype
BMR 8, Core 12, at 1095-1101 feet, Byro
Station, Carnarvon Basin, W.A.
Callytharra Formation

Lower Permian

AMMOMARGINULINA sp. Crespin, 1963.

Ammomarginulina sp. Crespin, 1963b, p.
34, Pl. 7, fig. 16.

C.P.C. 4493—Figured specimen
ROB No. 2 Bore, Mt Bassett, 7 miles NE of
Roma, Queensland, at 357-425 feet
Roma Formation

Lower Cretaceous

AMMONIA BECCARII (Linnaeus, 1758);
Crespin, 1963.

Nautilus beccarii Linnaeus, 1758, p. 710.

Ammonia beccarii (Linnaeus), Crespin,
1963a, p. 151 (list), Pl. 22, figs 9-12.

C.P.C. 380 (Pl. 22, fig. 9), C.P.C. 381 (fig.
10), C.P.C. 382 (fig. 11), C.P.C. 383
(fig. 12)—Hypotypes

Dutton Way, Portland, Victoria
Maretimo Member, Whalers Bluff Forma-
tion

Upper Pliocene

AMMONIA BECCARII (Linnaeus, 1758);
Belford, 1966.

Nautilus beccarii Linnaeus, 1758, p. 710
(figured Plancus, 1760, p. 1, figs 1a-c).

Ammonia beccarii (Linnaeus), Belford,
1966, p. 108, Pl. 19, figs 2-8.

C.P.C. 6412 (Pl. 19, figs 2-4), C.P.C. 5413
(Pl. 19, figs 5, 6)—Hypotypes

C.P.C. 6414 (Pl. 19, fig. 7)—Vertical
section

C.P.C. 6415 (Pl. 19, fig. 8)—Horizontal
section

NW flank of Wira Anticline, Puri-Purari
River area, Papua (Loc. 13b, Map 5)

Upper Miocene

AMMONIA BECCARII (Linnaeus, 1758);
Lloyd, 1968.

Nautilus beccarii Linnaeus, 1758, p. 710
(figured Plancus, 1760, p. 1, figs 1a-c).

Ammonia beccarii (Linnaeus), Lloyd,
1968, Pl. 9, figs 1-16.

C.P.C. 6882—Hypotype (Pl. 9, figs 1-3)

C.P.C. 6883—Figured section (Pl. 9, figs
4-6)

Near Rockhampton Downs, Barkly Table-
land, Northern Territory, 150 miles

inland from the Gulf of Carpentaria and
720 feet above sea level
Brunette Limestone

? Miocene

C.P.C. 6884, C.P.C. 6885—Thin sections
(Pl. 9, figs 7, 8-11)

White Mountain, White Mountain Range,
Ord River area, W.A., on the Northern
Territory border, 160 miles inland from
Cambridge Gulf White Mountain
Formation

C.P.C. 6886 (Pl. 9, fig. 12)—C.P.C. 6887
(Pl. 9, figs 13, 14), C.P.C. 6888 (Pl. 9,
figs 15, 16)—Thin sections

Roxborough Downs, 350 miles inland from
Gulf of Carpentaria and less than 500 feet
above sea level, Northern Territory
Austral Downs Formation

? Miocene

(Note: Title of Plate 9 should read
Ammonia beccarii not *Ammonia beccarii*)

AMMONIA MACULOSA Belford, 1966.

Ammonia maculosa Belford, 1966, p. 110,
Pl. 19, figs 9-16.

C.P.C. 6416—Holotype (Pl. 19, figs 9-11)

C.P.C. 6417—Paratype (Pl. 19, figs 12-13)

C.P.C. 6418 (Pl. 19, fig. 14), C.P.C. 6419
(Pl. 19, fig. 15)—Vertical sections

C.P.C. 6420 (Pl. 19, fig. 16)—Horizontal
section

Road cutting at new residence, N of aero-
drome, Madang, New Guinea (Loc. 17,
Map 8)

Pliocene

AMMONIA SUPERA Belford, 1966.

Ammonia supera Belford, 1966, p. 111, Pl.
19, figs 17-19; Pl. 20, figs 1-4.

C.P.C. 6421—Holotype (Pl. 19, figs 17-19)

C.P.C. 6423 (Pl. 20, fig. 3)—Horizontal
section

Below cliff at Maprik, Screw River, Sepik
district, New Guinea (Loc. 25, Map 8)

Upper Miocene

C.P.C. 6422—Paratype (Pl. 20, figs 1-2)
C.P.C. 6424 (fig. 4)—Vertical section
Nagam River W of Periam Village, Wewak
subdistrict, Sepik district, New Guinea
(Loc. 27, Map 8)

Uppermost biocene or Pliocene

AMMOVERTELLA UNDULATA (Parr,
1942); Belford, 1968.

Tolypammina undulata Parr, 1942, p. 104,
Pl. 2, fig. 2.

Ammovertella undulata (Parr), Belford,
1968, p. 6, Pl. 2, fig. 12.

C.P.C. 6850—Hypotype
BMR 7, Core 16, at 1087-1095 feet, Mid-
dalya Station, 88 miles NE of Carnarvon,
Carnarvon Basin

Permian

AMPHISTEGINA LESSONII d'Orbigny,
1826; Belford, 1966.

Amphistegina lessonii d'Orbigny, 1826, p.
304, Pl. 17, figs 1-4; Belford, 1966, p.
105, text-fig. 10.

C.P.C. 6401—Horizontal section
'Challenger' Station, 187A

Recent

ANOMALINA AMMONOIDES (Reuss,
1846); Chapman, 1917.

See **GAVELINELLA STELLULA** Belford,
1960, p. 110.

Rosalina ammonoides Reuss, 1846, p. 36,
Pl. 18, fig. 53; Pl. 13, fig. 66.

Anomalina ammonoides (Reuss), Chapman,
1917, p. 46, Pl. 11, fig. 107.

C.P.C. 7045 (17)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

ANOMALINA CORONATA Parker &
Jones, 1857; Chapman, 1909.

Anomalina coronata Parker & Jones, 1857,
p. 294, Pl. 10, figs 15, 16; Chapman,
1909, p. 360, Pl. 17, fig. 10.

C.P.C. 7193 (37)—Hypotype
20 miles N of Auckland Island, S of New
Zealand, 166°00'E, 50°15'S, at 85
fathoms

Recent

ANOMALINA GLABRATA Cushman,
1924; Belford, 1966.

Anomalina glabrata Cushman, 1924, p. 39,
Pl. 12, figs 5-7; Belford, 1966, p. 177,
Pl. 32, figs 1-7.

C.P.C. 6647 (Pl. 32, figs 1-3), C.P.C. 6648
(figs 4-5)—Hypotypes

C.P.C. 6649 (Pl. 32, g. 6)—Horizontal sec-
tion

C.P.C. 6650 (Pl. 32, fig. 7)—Part of hori-
zontal section

Tubu area, Papua (Loc. 1d, Map 1)
'Tubu Siltstone'

Upper Miocene

ANOMALINA GROSSERUGOSA (Güm-
bel, 1868); Chapman, 1909.

Truncatulina grosserugosa Gümbel, 1868,
p. 660, Pl. 2, figs 104a, b.

Anomalina grosserugosa (Gümbel), Chap-
man, 1909, p. 359, Pl. 17, fig. 9.

C.P.C. 7193 (36)—Hypotype
Off the Snares S of New Zealand, at 60
fathoms, 166°32'E, 48°01'S

Recent

ANOMALINELLA ROSTRATA (Brady,
1881); Belford, 1966.

Truncatulina rostrata Brady, 1881, p. 65;
1884, p. 668, Pl. 94, figs 6a-c.

Anomalinella rostrata (Brady), Belford,
1966, p. 185, Pl. 33, figs 9-13.

C.P.C. 6679 (Pl. 33, figs 9-11)—Hypotype

C.P.C. 6681 (Pl. 33, fig. 13)—Vertical sec-
tion

Sea-cliff, 250 yards N of L.M.S. Mission,
Delena, Papua (Loc. 3, Map 3)

Lower Miocene

C.P.C. 6680 (Pl. 33, fig. 12)—part of horizontal section

In road at new residence, N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

ANOMALINOIDES CANALICULUS Belford, 1960.

Anomalinoides canaliculus Belford, 1960, p. 103, Pl. 31, figs 1-15; text-fig. 10 (1-6).

C.P.C. 3435—Holotype (Pl. 31, figs 1-4)

C.P.C. 3436—Paratype A (Pl. 31, figs 5-8)

C.P.C. 3437—Paratype B (Pl. 31, figs 9-10)

C.P.C. 3438—Paratype C (text-fig. 10 (1-3))

C.P.C. 3439—Paratype D (text-fig. 10 (4-6))

Scarp, Bidgie Bidgie, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

C.P.C. 3440—Horizontal section (Pl. 31, fig. 10)

C.P.C. 3441—Horizontal section (Pl. 31, fig. 12)

C.P.C. 3442—part of horizontal section (Pl. 31, fig. 13)

C.P.C. 3443—Vertical section (Pl. 31, fig. 14)

C.P.C. 3444—Vertical section (Pl. 31, fig. 15)

Scarp, Toolonga Point, Murchison River area

At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

ANOMALINOIDES CAVUS Belford, 1966.

Anomalinoides cavus Belford, 1966, p. 180, Pl. 33, figs 1-8.

C.P.C. 6661—Holotype (Pl. 33, figs 1-3)

C.P.C. 6662—Paratype (Pl. 33, figs 4-5)

C.P.C. 6663 (Pl. 53, fig. 6)—Vertical section

C.P.C. 6664 (Pl. 33, fig. 7)—part of horizontal section

C.P.C. 6665 (Pl. 33, fig. 8)—part of horizontal section

Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

ANOMALINOIDES COLLIGERUS (Chapman & Parr, 1937); Belford, 1966.

Anomalina colligera Chapman & Parr, 1937, p. 117, Pl. 9, fig. 26.

Anomalinoides colligerus (Chapman & Parr), Belford, 1966, p. 178, Pl. 32, figs 8-15.

C.P.C. 6653 (Pl. 32, figs 8-10), C.P.C. 6654 (Pl. 32, figs 11-12)—Hypotypes

C.P.C. 6655 (not 6656 as on plate) (Pl. 32, fig. 13)—part of horizontal section

C.P.C. 656 (Pl. 32, fig. 14), C.P.C. 6657 (Pl. 32, fig. 15)—Vertical sections W of Yangnu, Maprik subdistrict, Sepik district, New Guinea (Loc. 31, Map 8)

Upper Miocene

ANOMALINOIDES ERIKSDALENSIS (Brotzen, 1936); Belford, 1960.

Cibicides (Cibicidoides) eriksdalensis Brotzen, 1936, p. 193, Pl. 14, figs 5a-c; text-fig. 69.

Anomalinoides eriksdalensis (Brotzen), Belford, 1960, p. 108, Pl. 34, figs 1-11.

C.P.C. 3460—Hypotype A (Pl. 34, figs 1-3)

C.P.C. 3461—Hypotype B (Pl. 34, figs 4, 5)

C.P.C. 3463—Horizontal section (Pl. 34, fig. 9)

C.P.C. 3465—Vertical section (Pl. 34, fig. 11)

Scarp on coast 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A.

Toolonga Calcilutite, 7 feet above base of section

C.P.C. 3464—Vertical section (Pl. 34, fig. 10)

Same locality as above but 10 feet above base of section

C.P.C. 3462—Hypotype C (Pl. 34, figs 6-8)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin. 10 feet below top of exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

ANOMALINOIDES EVOLUTUS Belford, 1966.

Anomalinoides evolutus Belford, 1966, p. 179, Pl. 34, figs 1-6.

C.P.C. 6658—Holotype (Pl. 34, figs 1-3)

C.P.C. 6659—Paratype (Pl. 34, figs 4-5)

C.P.C. 6660 (Pl. 34, fig. 6)—part of horizontal section

Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

ANOMALINOIDES MURCHISONIENSIS Belford, 1960.

Anomalinoides murchisoniensis Belford, 1960, p. 107, Pl. 32, figs 12-22, text-fig. 12 (1-6).

C.P.C. 3452—Holotype (Pl. 32, figs 12, 13)

C.P.C. 5453—Paratype A (Pl. 32, figs 14-16)

C.P.C. 3454—Paratype B (Pl. 32, figs 17-19)

C.P.C. 3455—Paratype C (text-fig. 12 (1-3))

C.P.C. 3456—Paratype D (text-fig. 12 (4,6))

C.P.C. 3457 (Pl. 32, fig. 20), C.P.C. 3458 (Pl. 32, fig. 21)—Horizontal sections

C.P.C. 3459 (Pl. 32, fig. 22)—Vertical section

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

ANOMALINOIDES PINGUIS (Jennings, 1936); Belford, 1960.

Anomalina pinguis Jennings, 1936, p. 37, Pl. 5, fig. 1.

Anomalinoides pinguis (Jennings), Belford, 1960, p. 102, text-fig. 9 (1-5).

C.P.C. 3479 (text-fig. 9 (1)), C.P.C. 3480 (text-fig. 9 (2))—Vertical sections

C.P.C. 3481 (text-fig. 9 (3))—Horizontal section

C.P.C. 3482 (text-fig. 9 (4)), C.P.C. 3483 (text-fig. 9 (5))—Horizontal sections

Pecan Gap, Austin, Texas, U.S.A.
4 feet above second *Baculites* zone

Upper Cretaceous

ANOMALINOIDES PINGUIS (Jennings, 1936); Belford, 1966.

Anomalina pinguis Jennings, 1936, p. 37, Pl. 5, fig. 1.

Anomalinoides pinguis (Jennings), Belford, 1966, p. 178, text-fig. 23: 1-2.

C.P.C. 6651 (text-fig. 23: 1)—section of pores

C.P.C. 6652 (text-fig. 23: 2)—part of horizontal section

Pecan Gap, Texas, U.S.A.

Upper Cretaceous

ANOMALINOIDES UNDULATUS Belford, 1960.

Anomalinoides undulatus Belford, 1960, p. 106, Pl. 32, figs 1-11, text-fig. 11 (1-6).

C.P.C. 3445—Holotype (Pl. 32, figs 1-4)

C.P.C. 3446—Paratype A (Pl. 32, figs 5-8)

C.P.C. 3447—Paratype B (text-fig. 11 (1-3))

C.P.C. 3448—Paratype C (text-fig. 11 (4-6))

C.P.C. 3450—Vertical section (Pl. 32, fig. 10)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

C.P.C. 3449 (Pl. 32, fig. 9), C.P.C. 3451 (Pl. 32, fig. 11)—Horizontal sections
Scarp, Toolonga Point, Murchison River
area
At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

ARTICULINA FUNALIS Brady, 1884;
Chapman, 1909.

Articulina funalis Brady, 1884, p. 185, Pl.
13, figs 6-11; Chapman, 1909, p. 323, Pl.
14, fig. 3.

C.P.C. 7193 (7)—Hypotype
20 miles N of Auckland Island, S of New
Zealand, at 85 fathoms, 166°00'E,
50°15'S

Recent

ASTERIGERINA CARINATA d'Orbigny,
1839; Belford, 1966.

Asterigerina carinata d'Orbigny, 1839a, p.
118, fig. 25, fig. 6, 1-2; Belford, 1966,
p. 107, text-fig. 12:3-7.

C.P.C. 6411 (text-fig. 12:3)—Hypotype
Cuba

Recent

ASTERIGERINA TENTORIA Todd &
Post, 1954; Belford, 1966.

Asterigerina tentoria Todd & Post, 1954,
p. 542, Pl. 201, figs 2a-c; Belford, 1966,
p. 106, Pl. 15, figs 15-21; text-fig. 12:
1-2; 8-11.

C.P.C. 6406 (Pl. 15, figs 16-17), C.P.C.
6407 (figs 18-19), C.P.C. 6410 (text-fig.
12: 1-2)—Hypotypes

C.P.C. 6408 (Pl. 15, fig. 20)—Horizontal
section

C.P.C. 6409 (text-fig. 12)—section across
partition dividing chambers
Sea-cliff, 250 yards N of L.M.S. Mission,
Delena, Papua (Loc. 3, Map 3)

Lower Miocene

ASTRONONION ANTARCTICUM Parr,
1950; Crespin, 1960.

Astrononion antarcticum Parr, 1950, p. 371,
Pl. 15, figs 13, 14; Crespin, 1960, p. 26,
Pl. 2, fig. 9.

C.P.C. 609—Hypotype

S Terrace, Lake Dingle (Broad Lake),
Vestfold Hills, Princess Elizabeth Land,
Antarctica

Recent

BAGGINA INDICA (Cushman, 1921);
Belford, 1966.

Pulvinulina indica Cushman, 1921, p.
332.

Baggina indica (Cushman), Belford, 1966,
p. 96, Pl. 15, figs 10-14.

C.P.C. 6377 (Pl. 15, figs 10-12), C.P.C.
6378 (Pl. 15, fig. 13-14)—Hypotypes
Sea-cliff, 250 yards N of L.M.S. Mission,
Delena, Papua (Loc. 3, Map. 3)

Lower Miocene

BATHYSIPHON sp. Crespin, 1963.

Bathysiphon sp. Crespin, 1963b, p. 19, Pl.
1, fig. 1.

C.P.C. 4408—Figured specimen
Coogiebung Tank, Marion Downs, western
Queensland

Lower Wilgunya Formation

Lower Cretaceous

BIGENERINA COMPRESSIUSCULA
Chapman, 1917.

See **SPIROPLECTINATA COMPRES-**
SIUSCULA (Chapman), Belford, 1960,
p. 15.

Bigenerina compressiuscula Chapman, 1917,
p. 19, Pl. 2, figs 13, 14.

C.P.C. 3103—Holotype (Pl. 2, fig. 13; by
designation, Belford, 1960)

C.P.C. 3104—Paratype (Pl. 2, fig. 14; by
designation, Belford, 1960)

One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

BIGENERINA LOEBLICHAE Crespin, 1953; 1963.

Bigenerina loeblichae Crespin, 1953, p. 31, Pl. 5, figs 17-18; 1963b, p. 54, Pl. 14, figs 12-14.

C.P.C. 4593—Hypotype A (Pl. 14, fig. 12)
Belemnite Bed, Bungeworgorai Creek, 5 miles W of Roma, Queensland, near Old Mt Abundance Homestead
Roma Formation

C.P.C. 4594—Hypotype B (Pl. 14, fig. 14)
Bungeworgorai Creek section, S side of Great Western railway line, 5 miles W of Roma

Roma Formation

C.P.C. 4595—Hypotype C (Pl. 14, fig. 13)
Union-Kern-AOG Cabawin No. 1 Well, Queensland, at 850-860 feet

Roma Formation

Lower Cretaceous

BILOCULINA BRADII Schlumberger, 1891; Chapman, 1909.

Biloculina Bradyi Schlumberger, 1891, p. 557, Pl. 10, figs 63-71, Woodcuts 15-19.

Biloculina bradii Schlumberger, Chapman, 1909, p. 314, Pl. 13, fig. 1.

C.P.C. 2322—Hypotype
10 miles N of Enderby Island, at NE end of Auckland Island, at 85 fathoms, 166° 18 E, 50° 20' S

Recent

BILOCULINA BRADII Schlumberger var. **DENTICULATA** Brady, 1884; Chapman, 1909.

Biloculina ringens Lamarck var. *denticulata* Brady, 1884, p. 143, Pl. 3, figs 4, 5.

Biloculina bradii Schlumberger, var. *denticulata* Brady, Chapman, 1909, p. 315, Pl. 13, fig. 2.

C.P.C. 7193 (1)—Hypotype
Off the Snares, S of New Zealand at 60 fathoms, 166° 32' E, 48° 01' S

Recent

BILOCULINA SARSI Schlumberger, 1891; Chapman, 1909.

Biloculina sarsi Schlumberger, 1891, p. 553, Pl. 9, figs 55-59; Chapman, 1909, p. 314, Pl. 13, fig. 3.

C.P.C. 2325—Hypotype
20 miles N of Auckland Island, S of New Zealand, 166° 00' E, 50° 15' S

Recent

BILOCULINA VESPERTILIO Schlumberger, 1891; Chapman, 1909.

Biloculina vespertilio Schlumberger, 1891, p. 561, Pl. 10, figs 74-76, Woodcuts 20-22; Chapman, 1909, p. 315, Pl. 13, figs 4a, b.

C.P.C. 7193 (2)—Hypotype
Off the Snares, S of New Zealand, at 60 fathoms, 166° 32' E, 48° 0' S

Recent

BIMONILINA COONANAENSIS (Crespin, 1953); 1963.

Ammobaculoides coonanaensis Crespin, 1953, p. 30, Pl. 5, fig. 11.

Bimonilina coonanaensis (Crespin), Crespin, 1963b, p. 54, Pl. 14, figs 20-22.

C.P.C. 898—Holotype refigured
Coonana Bore, 40 miles due E of Lake Callabonna, South Australia, at 118-1310 feet

Lower Cretaceous

BIMONILINA VARIANA Eicher, 1960; Crespin, 1963.

Bimonilina variana Eicher, 1960, p. 67, Pl. 4, figs 15-19; Crespin, 1963b, p. 55, Pl. 14, figs 15-19.

C.P.C. 4596—Hypotype A (Pl. 14, fig. 15)
Peanungra Well, Glenormiston, western Queensland

Lower Wilgunya Formation

C.P.C. 4597—Hypotype B (Pl. 14, fig. 16)

C.P.C. 4598—Hypotype C (Pl. 14, fig. 17)
Basal bed in hills S of track, 5 miles from
Snake Creek Bore, on track to Junction
Bore, Alderley, western Queensland
(G. 158)

Lower Wilgunya Formation

C.P.C. 4599—Hypotype D (Pl. 14, fig. 18)
AAO No. 1 Well, Roma, Queensland, core
3 at 195 feet

Roma Formation

C.P.C. 4600—Hypotype E (Pl. 14, fig. 19)
Union-Kern-AOG Cabawin No. 1 Well,
Queensland, at 1090-1099 feet

Roma Formation

Lower Cretaceous

BOLIVINA COMPRESSA Finlay, 1939;
Belford, 1966.

Bolivina compressa Finlay, 1939, p. 319,
Pl. 27, figs 101, 102; Belford, 1966,
p. 19, Pl. 4, figs 1-3; text-fig. 1:3.

C.P.C. 6156 (Pl. 4, figs 1-2), C.P.C. 6157
(Pl. 4, fig. 3), C.P.C. 6158 (text-fig. 1:3)
—Hypotypes

E of Karova Creek, Kerema-Karova Creek
area, Papua (Loc. 7b, Map 3)

Middle Miocene

BOLIVINA DRACO DRACO Marsson,
1878; Belford, 1966.

Bolivina draco Marsson, 1878, p. 157, Pl. 3,
figs 25a-d.

Bolivina draco draco Marsson, Belford,
1966, p. 21, text-fig. 1:8.

C.P.C. 6215—Hypotype
Starzmuhl, Bavaria

Upper Maestrichtian (Upper Cretaceous)

BOLIVINA OBSOLETA (Eley, 1859);
Chapman, 1917.

See **BOLIVINITELLA ELEYI** (Cushman),
Belford, 1960, p. 62.

Textularia obsoleta Eley, 1859, p. 195, Pl. 2,
fig. 11; p. 202, Pl. 8, fig. 11c.

Bolivina obsoleta (Eley), Chapman, 1917,
p. 22, Pl. 12, fig. 116.

C.P.C. 7046 (6)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

BOLIVINA PLICATA d'Orbigny, 1839;
Belford, 1966.

Bolivina plicata d'Orbigny, 1839c, p. 62,
Pl. 8, figs 4-7; Belford, 1966, p. 20, text-
fig. 1 : 5-6.

C.P.C. 6312—Hypotype
Los Angeles Basin, California
Pico Formation

Lower Pliocene

BOLIVINA PSEUDOPUNCTATA Höglund,
1947; Crespin, 1960.

Bolivina pseudopunctata Höglund, 1947,
p. 273, Pl. 24, fig. 5; Pl. 32, figs 2, 3;
text-figs 280, 281, 287; Crespin, 1960,
p. 28, Pl. 2, figs 10, 11.

C.P.C. 618—Hypotype A (Pl. 2, fig. 10)

C.P.C. 619—Hypotype B (Pl. 2, fig. 11)
Terrace, 120 feet above water level, near
NW corner of Deep Lake, Vestfold Hills,
Princess Elizabeth Land, Antarctica

Recent

BOLIVINA PYGMAEA Brady, 1884;
Chapman, 1909

Bolivina pygmaea Brady, 1884, p. 421, Pl.
53, figs 5, 6; Chapman, 1909, p. 331,
Pl. 14, fig. 11.

C.P.C. 7193 (13)—Hypotype
20 miles N of Auckland Island, S of New
Zealand, at 85 fathoms, 166°00'E.
50°15'S

Recent

BOLIVINA ROBUSTA Brady, 1881, 1884;
Belford, 1966.

Bolivina robusta Brady, 1881, p. 57; 1884,
p. 421, Pl. 53, figs 7-9; Belford, 1966,
p. 21, Pl. 1, figs 5-7; text-fig. 4 : 10.

C.P.C. 6161 (Pl. 1, figs 5-6), C.P.C. 6162
(Pl. 1, fig. 7), C.P.C. 6163 (text-fig. 1,
not 4 as in text: fig. 10)—Hypotypes

Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

BOLIVINA SINUATA Galloway & Wissler, 1927; Belford, 1966.

Bolivina sinuata Galloway & Wissler, 1927, p. 71, Pl. 11, fig. 9; Belford, 1966, p. 20, text-fig. 1 : 7.

C.P.C. 6214—Hypotype
Malaga Cove, Los Angeles, California
Repetto Formation

Lower Pliocene

BOLIVINA sp. Belford, 1960.

Bolivina sp. Belford, 1960, p. 66, Pl. 16, figs 13-15.

C.P.C. 3294 (Pl. 16, figs 13, 14), C.P.C. 3295 (Pl. 16, fig. 15)—Figured specimens

Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A.

3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

BOLIVINITA QUADRILATERA (Schwager, 1866); Belford, 1966.

Textularia quadrilatera Schwager, 1866, p. 253, Pl. 7, fig. 103.

Bolivinita quadrilatera (Schwager), Belford, 1966, p. 18, Pl. 4, figs 4-7; text-fig. 1 : 4.

C.P.C. 6153 (Pl. 4, figs 4-5)—Hypotype
Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

C.P.C. 6154 (Pl. 4, figs 6-7)—Hypotype
Road cutting S of Moab, Bogia district, New Guinea (Loc. 24, Map 8)

Upper Miocene

C.P.C. 6155 (text-fig. 1 : 4)—Hypotype
Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

BOLIVINITA SUBANGULARIS (Brady, 1881; 1884); Belford, 1966.

Bolivina subangularis Brady, 1881, p. 59; 1884, p. 427, Pl. 53, figs 32-33.

Bolivinita subangularis (Brady), Belford, 1966, p. 19, Pl. 3, figs 8-11.

C.P.C. 6159 (Pl. 3, figs 8-10), C.P.C. 6160 (Pl. 3, fig. 11)—Hypotypes
Below cliff at Maprik, Screw River, Sepik district, New Guinea (Loc. 25, Map 8)

Upper Miocene

BOLIVINITELLA ELEI (Cushman, 1927); Belford, 1960.

See **BOLIVINA OBSOLETA** (Eley), Chapman, 1917.

Bolivina obsoleta (Eley) Chapman, 1917, p. 22, Pl. 12, fig. 116.

Bolivinita eleyi Cushman, 1927a, p. 91, Pl. 12, figs 11a, b.

Bolivinitella eleyi (Cushman), Belford, 1960, p. 62, Pl. 15, figs 19.21.

C.P.C. 3824 (Pl. 15, figs 19, 20), C.P.C. 3285 (Pl. 15, fig. 21)—Hypotypes

Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A.

8 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

BOLIVINOIDES STRIGILLATA STRIGILLATA (Chapman, 1892); Belford, 1960.

Bolivina strigillata Chapman, 1892, p. 515, Pl. 15, fig. 10.

Bolivinoidea strigillata strigillata (Chapman), Belford, 1960, p. 61, Pl. 15, figs 14-18.

C.P.C. 3282 (Pl. 15, figs 14-16), C.P.C. 3282 (Pl. 15, figs 17-18)—Hypotypes

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

10 feet below top of exposure of Toolonga Calcilutite

Upper Cretaceous (Santonian)

BRIZALINA ALATA (Seguenza, 1862); Belford, 1966.

Vulvulina alata Seguenza, 1862a, p. 115, Pl. 2, figs 5, 5a.

Brizalina alata (Seguenza), Belford, 1966, p. 24, Pl. 1, figs 1-2; text-fig. 2:1-3.

C.P.C. 6164 (Pl. 1, fig. 1), C.P.C. 6165 (Pl. 1, fig. 2)—Hypotypes

Tabu area, Papua (Loc. 1d, Map 1)
'Tabu Siltstone'

Upper Miocene

BRIZALINA CAPITATA (Cushman, 1933); Belford, 1966.

Bolivina capitata Cushman, 1933, p. 80, Pl. 8, figs 12a-b.

Brizalina capitata (Cushman), Belford, 1966, p. 26, Pl. 1, figs 3-4.

C.P.C. 6166 (Pl. 1, fig. 3), C.P.C. 6167 (Pl. 1, fig. 4)—Hypotypes

Road cutting at new residence, N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

BRIZALINA CATENULA Belford, 1966.

Brizalina catenula Belford, 1966, p. 39, Pl. 3, figs 1-2.

C.P.C. 6203—Holotype (Pl. 3, fig. 1)

C.P.C. 6204—Paratype (Pl. 3, fig. 2)

Near culmination of Popo Anticline, 32 miles SSE of Popo Village, Papua (Loc. 6, Map 2)

Upper Miocene

BRIZALINA HASTULA Belford, 1966.

Brizalina hastula Belford, 1966, p. 38, Pl. 2, figs 20-22.

C.P.C. 6199—Holotype (Pl. 2, figs 20-21)

C.P.C. 6200—Paratype (Pl. 2, fig. 22)

Tabu area, Papua (holotype Loc. 1g, Map 1; paratype Loc. 1f)
'Tabu Siltstone'

Upper Miocene

BRIZALINA KARRERIANA (Brady, 1881); Belford, 1966.

Bolivina karreriana Brady, 1881; p. 28; 1884, p. 424, Pl. 53, figs 19a-b; 20-21

Brizalina karreriana (Brady), Belford, 1966, p. 39, Pl. 2, figs 23-25.

C.P.C. 6201 (Pl. 2, figs 23-24), C.P.C. 6202 (Pl. 2, fig. 25)—Hypotypes

Creek W of Winge, Maprik subdistrict, Sepik district, New Guinea (Loc. 34, Map 8)

Upper Miocene

BRIZALINA MACELLA Belford, 1966.

Brizalina macella Belford, 1966, p. 33, Pl. 2, figs 7-10.

C.P.C. 6188—Holotype (Pl. 2, figs 7-8)

C.P.C. 6189—Paratype A (Pl. 2, fig. 9)

C.P.C. 6190—Paratype B (Pl. 2, fig. 10)

Tabu area, Papua (Loc. 1d, Map 1)
'Tabu Siltstone'

Upper Miocene

BRIZALINA MASSULA Belford, 1966.

Brizalina massula Belford, 1966, p. 40, Pl. 3, figs 3-4.

C.P.C. 6205—Holotype (Pl. 3, fig. 3)

C.P.C. 6206—Paratype (Pl. 3, fig. 4)

Forsayth Plantation, Mushu Island, Sepik district, New Guinea (Loc. 36, Map 8)

Pliocene

BRIZALINA MULTILINEATA Belford, 1966.

Brizalina multilineata Belford, 1966, p. 31, Pl. 2, figs 1-6.

C.P.C. 6183—Holotype (Pl. 2, fig. 1)

C.P.C. 6184—Paratype A (Pl. 2, fig. 2)

C.P.C. 6186—Paratype C (Pl. 2, figs 4-5)

C.P.C. 6187—Paratype D (Pl. 2, fig. 6)
(D omitted on Pl. 2, fig. 6)

Tabu area, Papua (Holotype and Paratype A from Loc. 1d, Map 1; Paratypes C and D from Loc. 1g)

'Tabu Siltstone'

C.P.C. 6185—Paratype B (Pl. 2, fig. 3)
(not C.P.C. 6115 as in text, p. 33)
NW flank of Wira Anticline, Puri-Purari
River area, Papua (Loc. 13a, Map 5)

Upper Miocene

BRIZALINA PATULA Belford, 1966.

Brizalina patula Belford, 1966, p. 37, Pl. 2, figs 17-19.

C.P.C. 6196—Holotype (Pl. 2, fig. 17)

C.P.C. 6197—Paratype A (Pl. 2, fig. 18)

C.P.C. 6198—Paratype B (Pl. 2, fig. 19)

Tubu area, Papua (Loc. 1d, Map 1)

'Tubu Siltstone'

Upper Miocene

BRIZALINA PLICATELLA (Cushman, 1930); Belford, 1966.

Bolivina plicatella Cushman, 1930, p. 46, Pl. 8, figs 10a-b.

Brizalina plicatella (Cushman), Belford, 1966, p. 26, Pl. 1, figs 8-9; text-fig. 1:1.

C.P.C. 6168 (Pl. 1, fig. 8), C.P.C. 6169 (Pl. 1, fig. 9), C.P.C. 6170 (text-fig. 1:1)
—Hypotypes

Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

BRIZALINA PSEUDOBeyRICHI (Cushman, 1926); Belford, 1966.

Bolivina pseudobeyrichi Cushman, 1926b, p. 45.

Brizalina pseudobeyrichi (Cushman), Belford, 1966, p. 28, Pl. 1, figs 13-16; text-fig. 2:4-6.

C.P.C. 6173 (Pl. 1, figs 13, 14), C.P.C. 6175 (Pl. 1, fig. 16)—Hypotypes

Tubu area, Papua (Loc. 1d, Map 1)
'Tubu Siltstone'

C.P.C. 6174 (Pl. 1, fig. 15)—Hypotype
E of Yekimbolje Village, Maprik subdistrict, Sepik district, New Guinea (Loc. 30, Map 8)

Upper Miocene

BRIZALINA SEMICARINATA Belford, 1966.

Brizalina semicarinata Belford, 1966, p. 42, Pl. 3, figs 12-13.

C.P.C. 6209—Holotype (Pl. 3, fig. 12)

Base of section through the Murua Mudstone, Yamuiti Creek, Malalaua-Saw Mountains area, Papua (Loc. 12f, Map 4)

Upper Miocene

C.P.C. 61210—Paratype (Pl. 3, fig. 13)

Poison Creek, $\frac{1}{2}$ mile W of Kapau River, Malalaua-Saw Mountains area, Papua (Loc. 11, Map 4)

Middle Miocene

BRIZALINA SEMILINEATA Belford, 1966.

Brizalina semilineata Belford, 1966, p. 35, Pl. 2, figs 13-16.

C.P.C. 6193—Holotype (Pl. 2, figs 13-14)

C.P.C. 6194—Paratype A (Pl. 2, fig. 15)

C.P.C. 6195—Paratype B (Pl. 2, fig. 16)
W of wharf at Roman Catholic Mission, Yule Island, Papua

Lower Miocene

BRIZALINA SUBRETICULATA (Parr, 1932); Belford, 1966.

Bolivina subreticulata Parr, 1932, p. 12, Pl. 1, figs 21a-b.

Brizalina subreticulata (Parr), Belford, 1966, p. 29, Pl. 1, figs 17-18; text-fig. 3:1-2.

C.P.C. 6176 (Pl. 1, fig. 17), C.P.C. 6177 (Pl. 1, fig. 18)—Hypotypes
Tubu area, Papua (Loc. 1d, Map 1)
'Tubu Siltstone'

Upper Miocene

C.P.C. 6178—Lectotype (Belford, 1966, text-fig. 3:1-2)

C.P.C. 6179—Paralectotype (Belford, 1966, text-fig. 3:3)

'Challenger' station 185, off Raine strait, at depth of 155 fathoms

Recent

BRIZALINA TUBEROSA Belford, 1966.

Brizalina tuberosa Belford, 1966, p. 41, Pl. 3, figs 5-7.

C.P.C. 6207—Holotype (Pl. 3, figs 5-6)

C.P.C. 6208—Paratype (Pl. 3, fig. 7)

Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

BRIZALINA VESCISTRIATA Belford, 1966.

Brizalina vescistriata Belford, 1966, p. 34, Pl. 2, figs 11-12.

C.P.C. 6191—Holotype (Pl. 2, fig. 11)

C.P.C. 6192—Paratype (Pl. 2, fig. 12)

Road cutting at new residence, N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

BRIZALINA sp. cf. B. PYGMAEA (Brady, 1881); Belford, 1966.

Bolivina pygmaea Brady, 1881, p. 57; 1884, p. 421, Pl. 53, figs 5, 6.

Brizalina sp. cf. *B. pygmaea* (Brady), Belford, 1966, p. 31, Pl. 1, figs 19-22.

C.P.C. 6180 (Pl. 1, figs 19, 20)—Figured specimen

Near culmination of Popo Anticline, 3½ miles SSE of Popo Village, Papua (Loc. 6, Map 2)

C.P.C. 6181 (Pl. 1, fig. 21), C.P.C. 6182 (Pl. 1, fig. 22)—Figured specimens

SE flank of Wira Anticline, Puri-Purari River area, Papua, at top of section (Loc. 1d, Map 1)

Upper Miocene

BRIZALINA sp. cf. B. VARIABILIS (Williamson, 1858); Belford, 1966.

cf. *Textularia variabilis* Williamson, 1858, p. 76, Pl. 16, figs 162-163.

Brizalina sp. cf. *B. variabilis* (Williamson), Belford, 1966, p. 27, Pl. 1, figs 10-13.

C.P.C. 6171 (Pl. 1, figs 10-11), C.P.C. 6172 (Pl. 1, fig. 12)—Figured specimens SE flank of Wira Anticline, Puri-Purari River area, Papua (Loc. 14d, Map 5)

Upper Miocene

BRIZALINA sp. A. Belford, 1966.

Brizalina sp. A, Belford, 1966, p. 43, Pl. 4, figs 8-9.

C.P.C. 6211 (Pl. 4, fig. 8), C.P.C. 6212 (Pl. 4, fig. 9)—Figured specimens Creek, N of Ibab Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 28, Map 8)

Upper Miocene

BUENINGIA CREEKI Finlay, 1939; Belford, 1966.

Bueningia creeki Finlay, 1939, p. 122, Pl. 14, figs 82-84; Belford, 1966, p. 99; Pl. 13, figs 6-11.

C.P.C. 6385 (Pl. 13, figs 6-8), C.P.C. 6386 (Pl. 13, figs 9-10)—Hypotypes

C.P.C. 6387 (Pl. 13, fig. 11)—Horizontal section

Nagam River W of Periana village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

BULIMINA ACULEATA d'Orbigny, 1826; Belford, 1966.

Bulimina aculeata d'Orbigny, 1826, p. 269, No. 7; Belford, 1966, p. 58, Pl. 5, figs 1-3; text-fig. 5:1-3, text-fig. 7:1.

C.P.C. 6262 (Pl. 5, figs 1, 2), C.P.C. 6263 (Pl. 5, fig. 3)—Hypotypes

2 miles E of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 38, Map 8)

C.P.C. 6264 (text-fig. 5:1-2), C.P.C. 6265 (text-fig. 5:3)—Hypotypes

E of Moie, Josefstaal subdistrict, Bogia district, New Guinea (Loc. 23, Map 8)

C.P.C. 6266 (text-fig. 7:1)—pores

Pagansop Village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 40, Map 8)

Upper Miocene

BULIMINA ALAZANENSIS Cushman, 1927; Belford, 1966.

Bulimina alazanensis Cushman, 1927b, p. 161, Pl. 25, fig. 4; Belford, 1966, p. 62, Pl. 5, figs 9-11; text-fig. 5:6; text-fig. 7:6.

C.P.C. 6271 (Pl. 5, figs 9-10), C.P.C. 6272 (Pl. 5, fig. 11)—Hypotypes

Apia Hills, E of Ekiere fault, Kerema-Karova Creek area, Papua (Loc. 8, Map 3)

Middle Miocene

C.P.C. 6273 (text-fig. 5:6), C.P.C. 6274 (text-fig. 7:6, pores)—Hypotypes

Masaweng River area, N of Finschhafen, New Guinea (Loc. 16f, Map 7)

Upper Miocene

BULIMINA AMPLIAPERTURA Belford, 1966.

Bulimina ampliapertura Belford, 1966, p. 65, Pl. 5, figs 18-21; text-fig. 5:10.

C.P.C. 6282—Holotype (Pl. 5, figs 18-19)

C.P.C. 6283—Paratype A (Pl. 5, fig. 20)

C.P.C. 6284—Paratype B (Pl. 5, fig. 21)

C.P.C. 6285—Paratype C (text-fig. 5:10)
NW flank of Wira Anticline, Puri-Purari River area, Papua, near base of section (Loc. 13b, Map 5)

Upper Miocene

BULIMINA MARGINATA d'Orbigny, 1826; Belford, 1966.

Bulimina marginata d'Orbigny, 1826; p. 269, Pl. 12, figs 10-12; Belford, 1966, p. 55, Pl. 5, figs 4-5; text-fig. 5:4-5; text-fig. 7:2-3.

C.P.C. 6257 (Pl. 5, fig. 4), C.P.C. 6258 (Pl. 5, fig. 5)—Hypotypes

C.P.C. 6260 (text-fig. 7:2) (pores)—Hypotype

E of Atemble, Lower Ramu-Atitau area, New Guinea (Loc. 37, Map 8)

Pliocene

C.P.C. 6261 (text-fig. 7:3) (pores)—Hypotype

'Flying Falcon', Log. 3, 51° 02' N 11° 27' W off southwest Ireland, at 345 fathoms

Recent

BULIMINA SENTA Finlay, 1940; Belford, 1966.

Bulimina senta Finlay, 1940, p. 454, Pl. 64, figs 73-74; Belford, 1966, p. 65, Pl. 6, figs 1-3; text-fig. 5:12; text-fig. 7:7.

C.P.C. 6286 (Pl. 6, figs 1-2), C.P.C. 6287 (Pl. 6, fig. 3), C.P.C. 6288 (text-fig. 5:12), C.P.C. 6289 (text-fig. 7:7)—Hypotypes

2½ miles NNW of Olipau River—Lakekamu River junction, Papua (Loc. 5, Map 2)

Upper Miocene

BULIMINA STRIATA d'Orbigny, 1826; Belford 1966.

Bulimina striata d'Orbigny, 1826, p. 269, No. 2; Belford, 1966, p. 59, Pl. 5, figs 6-8; text-fig. 5:7-8; text-fig. 7:11.

C.P.C. 6267 (Pl. 5, figs 6, 7), C.P.C. 6268 (Pl. 5, fig. 8)—Hypotypes

Nuru Valley, New Guinea, between Diduella and Old Bauri on hill with garden plot (Loc. 21, Map 8)

C.P.C. 6269 (text-fig. 5:7, 8), C.P.C. 6270 (text-fig. 7:11)—Hypotypes

Kisila Village, E of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 39, Map 8)

Upper Miocene

BULIMINA SUBACUMINATA Cushman & Stewart, 1930; Belford, 1966.

Bulimina subacuminata Cushman & Stewart, 1930, p. 65, Pl. 65, Pl. 5, figs 2, 3a-b; Belford, 1966, p. 63, Pl. 5, figs 12-14; text-fig. 5:9.

C.P.C. 6275 (Pl. 5, figs 12, 13), C.P.C. 6276 (Pl. 5, fig. 14), C.P.C. 6277 (text-fig. 5:9)—Hypotypes

Pagansop Village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 40, Map 8)

Upper Miocene

BULIMINA SUBORNATA Brady, 1884;
Belford, 1966.

Bulimina subornata Brady, 1884, p. 402,
Pl. 51, figs 6a-b; Belford, 1966, p. 64,
Pl. 5, figs 15-17; text-fig. 5 : 11; text-fig.
7 : 4-5.

C.P.C. 6278 (Pl. 5, figs 15, 16), C.P.C.
6279 (Pl. 5, fig. 17), C.P.C. 6280 (text-
fig. 5 : 11), C.P.C. 6281 (text-fig.
7 : 4-5)—Hypotypes

Nagam River, W of Periana Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

BULIMINA SUBTERES Brady, 1881;
1884; Chapman, 1909.

Bulimina subteres Brady, 1881, p. 55; 1884,
p. 403, Pl. 50, figs 17-18; Chapman,
1909, p. 331, Pl. 14, fig. 10.

C.P.C. 7193 (12)—Hypotype
10 miles N of Enderby Island, at NE end
of Auckland Island, at 85 fathoms,
166°18'E, 50°20'S

Recent

BULIMINA TRIANGULARIS Cushman
& Parker, 1935; Belford, 1960.

Bulimina triangularis Cushman & Parker,
1935, p. 97, Pl. 15, figs 4a, b; Belford,
1960, p. 65, Pl. 16, figs 10-12.

C.P.C. 3292 (Pl. 16, fig. 10), C.P.C. 3293
(Pl. 16, figs 11, 12)—Hypotypes
Scarp, Bidgie Bidgie Point, Murchison
River area, Carnarvon Basin, W.A.
At top of Toolonga Calcilutite

Upper Cretaceous (Campanian)

BULIMINA VARIABILIS d'Orbigny,
1840; Chapman, 1917.

See QUADRIMORPHINA ALLOMOR-
PHINOIDES (Reuss), Belford, 1960,
p. 87.

Bulimina variabilis d'Orbigny, 1840, p. 40,
Pl. 4, figs 9-12; Chapman, 1917, p. 22,
Pl. 12, fig. 115.

C.P.C. 7046 (5)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

BULIMINELLA sp. cf. B. TENUATA
Cushman, 1927; Belford, 1966.

Buliminella subfusiformis Cushman var.
tenuata Cushman, 1927b, p. 149, Pl. 2,
fig. 9

Buliminella sp. cf. *B. tenuata* Cushman,
Belford, 1966, p. 16, Pl. 6, figs 22-24;
text-fig. 6 : 9-10.

C.P.C. 6149 (Pl. 6, fig. 22), C.P.C. 6150
(Pl. 6, fig. 23)—Figured specimens
Below cliff at Maprik, Screw River, Sepik
district, New Guinea (Loc. 25, Map 8)

C.P.C. 6151 (Pl. 6, fig. 24), C.P.C. 6152
(text-fig. 6 : 9-10)—Figured specimens
Pagansop Village, NNE of Josefstaal, Lower
Ramu-Atitau area, New Guinea (Loc.
40, Map 8)

Upper Miocene

CALCARINA CALCAR d'Orbigny, 1826;
Crespin, 1963.

Calcarina calcar d'Orbigny, 1826, p. 276,
No. 1, Modèle 34; Crespin, 1936a, p. 151
(lists), Pl. 22, figs 7, 8.

C.P.C. 378 (Pl. 22, fig. 7), C.P.C. 379
(Pl. 22, fig. 8)—Hypotypes
Monument section, Portland Foreshore,
Victoria
Maretimo Member, Whalers Bluff Forma-
tion

Upper Pliocene

CALCITORNELLA HEATHI Cushman &
Waters, 1928; Belford, 1968.

Calcitornella heathi Cushman & Waters,
1928, p. 48, Pl. 6, figs 8a, b; Belford,
1968, Pl. 2, figs 17-18.

C.P.C. 6855—Hypotype
BMR 6, Core 9, 785-795 feet, Middalya
Station, Carnarvon Basin, 88 miles NE
of Carnarvon, in central-north part of
Kennedy Range

Permian

CALCITORNELLA STEPHENSI (Howchin, 1894); Belford, 1968.

Nubecularia lucifuga var. *stephensi* Howchin, 1894, p. 245, Pl. 5, figs 9a, 10a.

Calcitornella stephensi (Howchin), Belford, 1968, Pl. 2, figs 19-20.

C.P.C. 6856—Hypotype

BMR 8, Core 14, at 1280-1290 feet, Byro Station, Carnarvon Basin, W.A.

Callytharra Formation

Lower Permian

CALCITORNELLA sp. Belford, 1968.

Calcitornella sp. Belford, 1968, Pl. 2, figs 21, 22.

BMR 6, Core 8, at 701-711 feet, Middalya Station, Carnarvon Basin, 88 miles NE of Carnarvon in central-north part of Kennedy Range

Permian

CALCIVERTELLA PALATA Crespin, 1958; Belford, 1968.

Calcivertella palata Crespin, 1958, p. 85, Pl. 18, fig. 6; Belford, 1968, Pl. 2, fig. 23.

C.P.C. 6858—Hypotype

BMR 8, Core 12, at 1095-1101 feet, Coordewandy Station, Carnarvon Basin, in central-north part of Kennedy Range

Callytharra Formation

Lower Permian

CALCIVERTELLA sp. cf. *C. PALATA* Crespin, 1958; Belford, 1968.

Calcivertella sp. cf. *C. palata* Crespin, Belford, 1968, Pl. 2, fig. 24.

C.P.C. 6859—Figured specimen

BMR 7, Core 3, at 293-303 feet, Middalya Station, Carnarvon Basin, 88 miles NE of Carnarvon, in central-north part of Kennedy Range

Permian

CANCRIIS AURICULUS (Fichtel & Moll, 1803); Belford, 1966.

Nautilus auricula Fichtel & Moll var. 2, 1803, p. 108, Pl. 20, figs a-c; var. 3, p. 110, Pl. 20, figs d-f.

Cancris auriculus (Fichtel & Moll), Belford, 1966, p. 96, Pl. 15, figs 1-5.

C.P.C. 6379 (Pl. 15, figs 1-3), C.P.C. 6380 (Pl. 15, figs 4-5)—Hypotypes
Road cutting at new residence, N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

CANCRIIS BODJONGENSIS (LeRoy, 1941); Belford, 1966.

Discorbis bodjongensis LeRoy, 1941, p. 116, Pl. 1, figs 9-11.

Cancris bodjongensis (LeRoy), Belford, 1966, p. 97, Pl. 15, figs 6-9.

C.P.C. 6381 (Pl. 15, figs 6-8), C.P.C. 6328 (Pl. 15, fig. 9)—Hypotypes

Ipowoloe Creek, Hohoro area, Papua (Loc. 15, Map 6)

'Vaiviri Formation'

Pliocene

CANDIENA NITIDA d'Orbigny, 1839; Belford, 1962.

Candiena nitida d'Orbigny, 1839a, Pl. 2, figs 27-28; Belford, 1962, p. 29, Pl. 8, figs 17-18.

C.P.C. 4145—Hypotype (Pl. 8, fig. 17)
Pagansop village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea

Upper Miocene

C.P.C. 4146—Hypotype (Pl. 8, fig. 18)
Nagam River, W of Periana village, Wewak subdistrict, Sepik district, New Guinea

Uppermost Miocene or Pliocene

CANDORBULINA GLOMEROSA (Blow), subsp. **CIRCULARIS** Blow, 1956; Jenkins, 1960.

Globigerinoides glomerosa circularis Blow, 1956, p. 65, text-fig. 2, nos 3, 4.

Candorbulina glomerosa (Blow), subsp. *circularis* Blow, Jenkins, 1960, p. 357, Pl. 3, figs 10a, b.

C.P.C. 4188—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria at 580 feet (*Candorbulina glomerosa circularis* zone, 588-572 feet)

Miocene

CANDORBULINA GLOMEROSA (Blow), subsp. **CURVA** Blow, 1956; Jenkins, 1960.

Globigerinoides glomerosa curva Blow, 1956, p. 64, text-fig. 1, nos 9-14.

Candorbulina glomerosa (Blow), subsp. *curva* Blow, Jenkins, 1960, p. 357, Pl. 3, fig. 8.

C.P.C. 4186—Hypotype

Lakes Entrance, Gippsland, Victoria at 592 feet (*Candorbulina glomerosa curva* zone, 600-592 feet)

Miocene

CANDORBULINA UNIVERSA Jedlitschka, 1934; Jenkins, 1960.

Candorbulina universa Jedlitschka, 1934, p. 21, text-fig. 1, 19; Jenkins, 1960, p. 357, Pl. 3, fig. 11.

C.P.C. 4189—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 572 feet (*Candorbulina glomerosa circularis* zone, 588-572 feet)

Miocene

CASSIDULINA BIORA Crespin, 1960.

Cassidulina biora Crespin, 1960, p. 28, Pl. 3, figs 1-10.

C.P.C. 621—Holotype (Pl. 3, figs 1-4)

C.P.C. 622—Paratype A (Pl. 3, figs 5-7)

C.P.C. 623—Paratype B (Pl. 3, fig. 8)

C.P.C. 624—Paratype C (Pl. 3, fig. 9)

Terrace, 120 feet above water level, NW corner, Deep Lake, Vestfold Hills, Princess Elizabeth Land, Antarctica

C.P.C. 625—Paratype D (Pl. 3, fig. 10)

S Terrace, Lake Dingle (Broad Lake), Vestfold Hills

Recent

CASSIDULINA CRASSA d'Orbigny, 1839; Crespin, 1960.

Cassidulina crassa d'Orbigny, 1839, p. 56, Pl. 71, figs 18-20; Crespin, 1960, p. 29, Pl. 3, figs 12, 13.

C.P.C. 626—Hypotype A (Pl. 3, fig. 12)

C.P.C. 627—Hypotype B (Pl. 3, fig. 13)

Terrace, 120 feet above water level near NW corner, Deep Lake, Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

CASSIDULINA DELICATA Cushman, 1927; Belford, 1966.

Cassidulina delicata Cushman, 1927b, p. 168, Pl. 6, fig. 5; Belford, 1966, p. 140, Pl. 24, figs 5-10; text-fig. 16:3-4

C.P.C. 6522 (Pl. 24, figs 5-7), C.P.C. 6523 (Pl. 24, figs 8-10), C.P.C. 6524 (text-fig. 16:3-4)—Hypotypes

W of Yangoru, Maprik subdistrict, Sepik district, New Guinea (Loc. 31, Map 8)

Upper Miocene

CASSIDULINA LAEVIGATA d'Orbigny, 1826; Chapman, 1909.

Cassidulina laevigata d'Orbigny, 1826, p. 282 (No. 1), Pl. 15, figs 4, 5; Modèle No. 41; Chapman, 1909, p. 332, Pl. 15, fig. 1.

C.P.C. 2323—Hypotype

10 miles N of Enderby Island, at NE end of Auckland Island, at 85 fathoms, 166° 18' E, 50° 20' S

Recent

CASSIDULINA LAEVIGATA d'Orbigny, 1826; Belford, 1966.

Cassidulina laevigata d'Orbigny, 1826, p. 282, Pl. 15, figs 4-5; Belford, 1966, p. 138, Pl. 24, figs 1-4; text-fig. 16:1-2

C.P.C. 6519 (Pl. 24, figs 1-3), C.P.C. 6520 (Pl. 24, fig. 4)—Hypotypes

E of Yekimbolje Village, Maprik subdistrict, Sepik district, New Guinea (Loc. 30, Map 8)

Upper Miocene

C.P.C. 6521 (text-fig. 16:1-2)—Hypotype
Nagam River, W of Periam Village,
Wewak subdistrict (Loc. 27, Map 8)

Upper Miocene or Pliocene

CASSIDULINA QUASISULCATA Belford, 1966.

Cassidulina quasiusulcata Belford, 1966, p. 144, Pl. 24, figs 15-18: text-fig. 16:5-6.

C.P.C. 6528—Holotype (Pl. 24, figs 15-17)

C.P.C. 6529—Paratype (Pl. 24, fig. 18)

C.P.C. 6530—Paratype (text-fig. 15:5-6)
Nagam River, W of Periam Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

CASSIDULINA SULCATA Belford, 1966.

Cassidulina sulcata Belford, 1966, p. 142,
Pl. 24, figs 11-14; text-fig. 16 : 7-8.

C.P.C. 6525—Holotype (Pl. 24, figs 11, 12)

C.P.C. 6526—Paratype (Pl. 24, figs 13-14)

C.P.C. 6527—Paratype (text-fig. 16 : 7-8)
Nagam River, W of Periam Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

CASSIDULINA sp. Crespin, 1960.

Cassidulina sp. Crespin, 1960, p. 29, Pl. 3,
fig. 11.

C.P.C. 628—Figured specimen
Terrace, 120 feet above water level, NW
corner, Deep Lake, Vestfold Hills, Prin-
cess Elizabeth Land, Antarctica

Recent

CASSIDULINOIDES BRADYI (Norman, 1881); Belford, 1966.

Cassidulina bradyi Norman, Brady, 1881,
p. 59: 1884 (Norman part), p. 431, Pl.
54, figs 6-9 (not figs 10a, b).

Cassidulinoides bradyi (Norman), Belford,
1966, p. 53, Pl. 26, figs 22-27; text-fig.
17 : 17-18.

C.P.C. 6246 (Pl. 26, figs 22-24), C.P.C.
(Pl. 26, figs 25-27)—Hypotypes

Creek N of Ibab Village, Wewak subdistrict,
Sepik district, New Guinea (Loc. 28,
Map 8)

Pliocene

C.P.C. 6248 (text-fig. 17 : 17), C.P.C.
6249 (text-fig. 17 : 18)—Hypotypes
Nagam River, W of Periam Village,
Wewak subdistrict, Sepik district (Loc.
27, Map 8)

Uppermost Miocene or Pliocene

CASSIDULINOIDES INFLATUS (LeRoy, 1944); Belford, 1966.

Cassidulina inflata LeRoy, 1944, p. 37, Pl.
4; figs 30-31.

Cassidulinoides inflatus (LeRoy), Belford,
1966, p. 54, Pl. 26, figs 14-17; text-fig.
17 : 13-14.

C.P.C. 6250 (Pl. 26, figs 14-16)—Hypo-
type
Nuru Valley, New Guinea, between Diduella
and Old Bauri, on hill with garden plot
(Loc. 21, Map 8)

C.P.C. 6251 (Pl. 26, fig. 17), C.P.C. 6252
(text-fig. 17 : 13-14)—Hypotypes
Pagansop Village, NNE of Josefstal, Lower
Ramu-Atitau area, New Guinea (Loc.
14, Map 8)

Upper Miocene

CASSIDULINOIDES SERANENSIS Ger- meraad, 1946; Belford, 1966.

Cassidulinoides seranensis Germeraad,
1946, p. 72, Pl. 5, figs 5, 6; Belford,
1966, p. 55, Pl. 26, figs 18-21; text-fig.
17 : 15-16.

C.P.C. 6253 (Pl. 26, figs 18-20), C.P.C.
6254 (Pl. 26, fig. 21)—Hypotypes

E of Yekembolje Village, Maprik sub-
district, Sepik district, New Guinea (Loc.
30, Map 8)

Upper Miocene

C.P.C. 6255 (text-fig. 17 : 15), C.P.C.
6256 (text-fig. 17 : 15, 16)—Hypotypes
Nagam River, W of Periam Village, New
Guinea, Wewak subdistrict, Sepik district
(Loc. 27, Map 8)

Uppermost Miocene or Pliocene

CATAPSYDRAX cf. STAINFORTHII Bolli, Loeblich, & Tappan, 1957; Jenkins, 1960.

Catapsydrax stainforthi Bolli, Loeblich, & Tappan, 1957, p. 37, Pl. 7, figs 11a-c.

Catapsydrax cf. *stainforthi* Bolli, Loeblich, & Tappan; Jenkins, 1960, p. 356, Pl. 3, fig. 7a-c.

C.P.C. 4183—Figured specimen (not Holotype as in text)

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 988 feet (*Globigerina woodi* zone, 996-808 feet)

Miocene

CATAPSYDRAX UNICAVUS Bolli, Loeblich, & Tappan, 1957; Jenkins, 1960.

Catapsydrax unicus Bolli, Loeblich, & Tappan, 1957, p. 37, Pl. 7, figs 9a-c; Jenkins, 1960, p. 386, Pl. 3, figs 7a-c.

C.P.C. 4184—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 1140 feet (*Globorotalia dehiscens* zone, 1144-1000 feet)

Miocene

CERATOBULIMINA PACIFICA Cushman & Harris, 1927; Belford, 1966.

Ceratobulimina pacifica Cushman & Harris, 1927, p. 106, Pl. 29, figs 9a-c; Belford, 1966, p. 186, Pl. 36, figs 1-7; text-fig. 24 : 1-2.

C.P.C. 6682 (Pl. 36, figs 1-3), C.P.C. 6683 (Pl. 36, fig. 4), C.P.C. 6684 (Pl. 36, fig. 5), C.P.C. 6687 (text-fig. 24 : 1)—Hypotypes

C.P.C. 6685 (Pl. 36, fig. 6, missing on explanation of Plate; text-fig. 24 : 2), C.P.C. 6686 (Pl. 26, fig. 7)—parts of sections

Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

CHILOGUEMBELINA CRINATA (Glaessner, 1937); Belford, 1967.

Guembelina crinata Glaessner, 1937, p. 383, Pl. 4, fig. 34.

Chiloguembelina crinata (Glaessner), Belford, 1967a, p. 17, Pl. 4, figs 13-15.

C.P.C. 7228 (Pl. 4, figs 13, 14), C.P.C. 7229 (Pl. 4, fig. 15)—Hypotypes

Near Andebare River, about 24 miles WSW of Laiagam, Western Highlands, New Guinea (Loc. 2, F. 342)

Lagaip Beds

Palaeocene

CHILOGUEMBELINA sp. Belford, 1962.

Chiloguembelina sp. Belford, 1962, p. 32, Pl. 8, figs 29-30 (not 330 as in explanation of plate)

C.P.C. 4154—Figured specimen A (Pl. 8, fig. 29)

C.P.C. 4155—Figured specimen B (Pl. 8, fig. 30)

At 1 mile from the mouth of Masaweng River, N of Finchhafen, New Guinea

Upper Miocene

CHRYSALOGONIUM TEXANUM Cushman, 1936; Belford, 1960.

Chrysalogonium texanum Cushman, 1936, p. 58, Pl. 9, figs 14, 15a, b; Belford, 1960, p. 41, Pl. 12, figs 1, 2.

C.P.C. 3217—Hypotype (Pl. 12, fig. 1)

Scarp on Yaringa North Station, Shark Bay area, Carnarvon Basin, W.A., at side of North-West Coastal Highway, 31 miles N of Hamelin turn-off, 10 feet above base of section

Toolonga Calcilitite

C.P.C. 3218 (Pl. 12, fig. 2)—Hypotype
Same locality as above but 15 feet above base of section

Upper Cretaceous (Campanian)

CHRYSALOGONIUM sp. Belford, 1960.

Chrysalogonium sp. Belford, 1960, p. 42, Pl. 12, fig. 3.

C.P.C. 3219—Figured specimen
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A., at base of
Toolonga Calcilutite

Upper Cretaceous (Santonian)

CIBICIDES EXCAVATA Brotzen, 1936;
Belford, 1960.

See **TRUNCATULINA CONVEXA** Reuss,
Chapman, 1917.

Truncatulina convexa Reuss, Chapman,
1917, p. 45, Pl. 11, figs 105a, b.

Cibicides excavata Brotzen, 1936, p. 189,
Pl. 13, figs 7a-c, 8a-c; Belford, 1960,
p. 111, Pl. 34, figs 12-16.

C.P.C. 3475—Hypotype (Pl. 34, figs 12,
13)

Scarp, Yaringa North Station, Shark Bay
area, Carnarvon Basin, W.A., at side of
North-West Coastal Highway, 31 miles N
of Hamelin turnoff, 10 feet above base
of section

Toolonga Calcilutite (Campanian)

C.P.C. 3476—Hypotype (Pl. 34, figs 14-16)
Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, 14 feet above base of

Toolonga Calcilutite (Santonian)

Upper Cretaceous (Santonian; Campanian)

CIBICIDES REFULGENS Montfort, 1808;
Belford, 1966.

Cibicides refulgens Montfort, 1808, p. 12;
Belford, 1966, p. 132, text-fig. 14:1-2.

C.P.C. 6498 (text-fig. 14:1-2)—Horizontal
section

'Goldseeker' haul 118, Faroe Channel,
60° 31' N, 03° W, at 505 metres

C.P.C. 6504 (text-fig. 14:2), C.P.C. 6503
(text-fig. 15:1-2)—sections

'Goldseeker' haul 97, 60° 02' N, 03° 10' W

Recent

CIBICIDES sp. cf. **C. REFULGENS**
Montfort, 1808; Belford, 1966.

Cibicides sp. cf. *C. refulgens* Montfort,
Belford, 1966, p. 133, Pl. 23, figs 1-6,
text-fig. 15:3-10; text-fig. 14:3.

C.P.C. 6500 (Pl. 23, figs 1-3), C.P.C. 6501
(Pl. 23, figs 4, 5)—Figured specimens

C.P.C. 6503 (Pl. 23, fig. 6)—part of hori-
zontal section

C.P.C. 6505 (text-fig. 15:3), C.P.C. 6506
(text-fig. 15:5-6), C.P.C. (text-fig. 15:7)
—sections showing pores

Nagam River, W of Periam village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6399 (text-fig. 14:3)—part of hori-
zontal section

C.P.C. 6509 (text-fig. 15:8-9), C.P.C. 6510
(text-fig. 15:10)—sections showing pores
Bore on Wreck Island, Queensland, at
614-615 feet

? Miocene

CIBICIDES RIBBINGI Brotzen, 1936;
Belford, 1960.

See **TRUNCATULINA LOBATULA**
(Walker & Jacob) Chapman, 1917.

Truncatulina lobatula (Walker & Jacob),
Chapman, 1917, p. 45, Pl. 11, figs
104a, b.

Cibicides ribbingi Brotzen, 1936, p. 186,
Pl. 13, figs 5a-c; text-figs 67, 68; Belford,
1960, p. 111, Pl. 34, figs 17-20.

C.P.C. 3477—Hypotype (Pl. 34, figs 17-19)
Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 14 feet above
base of Toolonga Calcilutite (Santonian)

C.P.C. 3478—Hypotype (Pl. 34, fig. 20)
Scarp, Bidgie Bidgie Point, Murchison River
area, at top of exposure of Toolonga
Calcilutite (Campanian)

Upper Cretaceous (Santonian, Campanian)

CIBICIDES TENUIMARGO (Brady,
1884); Belford, 1966.

Truncatulina tenuimargo Brady (part),
1884, p. 662, Pl. 93, figs 3a-c (not figs
2a-c).

Cibicides tenuimargo (Brady), Belford, 1966, p. 135, Pl. 23, figs 7-9; text-fig. 15:11-13.

C.P.C. 6511 (Pl. 23, figs 7, 8)—Figured specimen

C.P.C. 6512 (Pl. 23, fig. 9)—part of horizontal section

C.P.C. 6513 (text-fig. 15:11, 12), C.P.C. 6514 (text-fig. 15:13)—sections showing pores

Nagam River, W of Periamma village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

CITHARINA GEISENDORFERI (Franke, 1928); Belford, 1960.

Vaginulina geisendorferi Franke, 1928, p. 80, Pl. 7, figs 18a-b.

Citharina geisendorferi (Franke), Belford, 1960, p. 40, Pl. 11, figs 14, 15.

C.P.C. 3213—Hypotype
Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

CITHARINA SUTURALIS (Cushman, 1937); Belford, 1960.

See **VAGINULINA STRIGILLATA** (Reuss) Chapman, 1917.

Vaginulina strigillata (Reuss), Chapman, 1917, p. 34, Pl. 8, fig. 69.

Vaginulina suturalis Cushman, 1937a, p. 102, Pl. 15, figs 5-7.

Citharina suturalis (Cushman), Belford, 1960, p. 41, Pl. 11, figs 16, 17.

C.P.C. 3215—Hypotype (Pl. 11, fig. 16)
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

C.P.C. 3216—Hypotype (Pl. 11, fig. 17)
Scarp, Toolonga Point, Murchison River area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

CLAVULINA COMMUNIS d'Orbigny, 1826; Chapman, 1917.

See **GOESSELLA CHAPMANI** Cushman, Belford, 1960, p. 21.

Clavulina communis d'Orbigny, 1826, p. 268, 1846, p. 196, Pl. 12, figs 1, 2; Chapman, 1917, p. 21, Pl. 2, fig. 22.

C.P.C. 7042 (22)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

CLAVULINOIDES TRIFIDUS Belford, 1960.

Clavulinoides trifidus Belford, 1960, p. 13, Pl. 3, figs 1-4.

C.P.C. 3099—Hypotype (Pl. 3, fig. 1)
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

C.P.C. 3100—Paratype A (Pl. 3, fig. 2)

C.P.C. 3101—Paratype B (Pl. 3, figs 3, 4)
Scarp, Toolonga Point, Murchison River area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

COLOMAMMINA IMPARILIS Crespin, 1961.

Colomammmina imparilis Crespin, 1961, p. 405, Pl. 65, figs 10-13.

C.P.C. 415—Holotype (Pl. 65, fig. 10)

C.P.C. 416—Paratype A (Pl. 65, fig. 12)

C.P.C. 417—Paratype B (Pl. 65, fig. 11)

C.P.C. 418—Paratype C (Pl. 65, fig. 13)
Section SE end of Bugle Gap, Fitzroy Basin, W.A., 66-88 feet above base of section Virgin Hills Formation

Upper Devonian

CRISTELLARIA ACUTAURICULARIS (Fichtel & Moll, 1798); Chapman, 1917.

Nautilus acutaauricularis Fichtel & Moll, 1798, p. 102, Pl. 18, figs g-i.

Cristellaria acutaauricularis (Fichtel & Moll), Chapman, 1917, p. 35, Pl. 8, fig. 74.

C.P.C. 7055 (14)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA ARTICULATA (Reuss,
1864); Chapman, 1917.

Robulina articulata Reuss, 1864, p. 53, Pl.
5, figs 62a, b; Pl. 6, figs 63a, b.

Cristellaria articulata (Reuss), Chapman,
1917, p. 37, Pl. 9, fig. 83.

C.P.C. 7044 (23)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA BRONNI (Roemer,
1841); Chapman, 1917.

Planularia bronni Roemer, 1841, p. 97, Pl.
151, fig. 14.

Cristellaria bronni (Roemer), Chapman,
1917, p. 36, Pl. 8, fig. 77.

C.P.C. 7044 (17)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA CIRCUMCIDANEA
Berthelin, 1880; Chapman, 1917.

Cristellaria circumcidanea Berthelin, 1880,
p. 52, Pl. 3, figs 1a, b; Chapman, 1917,
p. 39, Pl. 10, fig. 88.

C.P.C. 7044 (28)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA COMPRESSA d'Orbigny,
1846; Chapman, 1909.

Cristellaria compressa d'Orbigny, 1846, p.
86, Pl. 3, figs 32, 33; Chapman, 1909,
p. 343, Pl. 16, fig. 5.

C.P.C. 7193 (26)—Hypotype
Off the Snares, S of New Zealand, at 60
fathoms, 166° 32' E

Recent

CRISTELLARIA CULTRATA (Montfort,
1808); Chapman, 1909.

Robulus cultratus Montfort, 1808, p. 214,
54e genre.

Cristellaria cultrata (Montfort), Chapman,
1909, p. 345, Pl. 16, fig. 6.

C.P.C. 7193 (27)—Hypotype
Off the Snares, S of New Zealand, at 60
fathoms, 166° 32' E, 48° 01' S

Recent

CRISTELLARIA DIADEMATA Ber-
thelin, 1880; Chapman, 1917.

Cristellaria diademata Berthelin, 1880, p.
51, Pl. 3, figs 4, 5, 12, 13; Chapman,
1917, p. 39, Pl. 10, fig. 89.

C.P.C. 7044 (29)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA GAULTINA Berthelin,
1880; Chapman, 1917.

Cristellaria gaultina Berthelin, 1880, p. 49,
Pl. 3, figs 15-19; Chapman, 1917, p. 38,
Pl. 9, fig. 85.

C.P.C. 7044 (25)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA GIBBA d'Orbigny, 1826;
Chapman, 1917.

Cristellaria gibba d'Orbigny, 1826, vol. 7,
p. 292, No. 17; Chapman, 1917, p. 37,
Pl. 9, fig. 82.

C.P.C. 7044 (22)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA GLADIUS (Philippi,
1843); Chapman, 1917.

Marginulina gladius Philippi, 1843, p. 40,
Pl. 1, fig. 37.

Cristellaria gladius (Philippi), Chapman, 1917, p. 35, Pl. 8, fig. 73.

C.P.C. 7044 (13)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA GRATA Reuss 1862;
Chapman, 1917.

Cristellaria grata Reuss, 1862, p. 70, Pl. 7, figs 14a, b; Chapman, 1917, p. 35, Pl. 8, fig. 72.

C.P.C. 7044 (12)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA ITALICA (Defrance, 1824); Chapman, 1917.

Saracenaria italica Defrance, 1824, vol. 32, p. 177; vol. 47, p. 344; *Atlas Conch.* 13, fig. 6.

Cristellaria italica (Defrance), Chapman, 1917, p. 36, Pl. 9, fig. 78.

C.P.C. 7044 (18)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA LATA (Cornuel, 1848); Chapman, 1909.

Marginulina lata Cornuel, 1848, p. 252, Pl. 1, figs 34-37.

Cristellaria lata (Cornuel), Chapman, 1909, p. 343, Pl. 16, fig. 4.

C.P.C. 7193 (25)—Hypotype
20 miles N of Auckland Island, S of New Zealand at 85 fathoms, 116° 00' E, 50° 35' S

Recent

CRISTELLARIA LATIFRONS Brady, 1884; Chapman, 1917.

Cristellaria latifrons Brady, 1884, p. 544, Pl. 68, fig. 19; Pl. 113, figs 11a, b; Chapman, 1917, p. 37, Pl. 12, fig. 122.

C.P.C. 7046 (12)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA LITUOLA Reuss, 1846;
Chapman, 1917.

Cristellaria lituola Reuss, 1846; pt. 2, p. 109, Pl. 24, fig. 47; Chapman, 1917, p. 35, Pl. 8, fig. 71

C.P.C. 7044 (11)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA NAVICULA d'Orbigny, 1840; Chapman, 1917.

Cristellaria navicula d'Orbigny, 1840, p. 27, Pl. 2, figs 19, 20; Chapman, 1917, p. 36, Pl. 9, fig. 79.

C.P.C. 7044 (19)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA OLIGOSTEGIA Reuss, 1860; Chapman, 1917.

Cristellaria oligostegia Reuss, 1860, p. 213, Pl. 8, fig. 8; Chapman, 1917, p. 37, Pl. 9, fig. 81.

C.P.C. 7044 (21)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA OVALIS Reuss, 1846;
Chapman, 1917.

Cristellaria ovalis Reuss, 1846, pt. 1, p. 34, Pl. 8, figs 49a, b; Pl. 12, figs 19a, b; Pl. 13, figs 60a-63b; Chapman, 1917, p. 35, Pl. 8, fig. 75.

C.P.C. 7044 (15)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA PLANIUSCULA Reuss, 1862; Chapman, 1917.

Cristellaria planiuscula Reuss, 1862, p. 71, Pl. 7, figs 15a, b; Chapman, 1917, p. 34, Pl. 8, fig. 70.

C.P.C. 7044 (10)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA ROTULATA (Lamarck, 1804); Chapman, 1917.

Lenticulina rotulata Lamarck, 1804, p. 188, No. 3, Tabl. method, Pl. 266, fig. 5.

Cristellaria rotulata (Lamarck), Chapman, 1917, p. 38, Pl. 9, fig. 86.

C.P.C. 7044 (26)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA ROTULATA (Lamarck)
var. MACRODISCUS Reuss, 1862;
Chapman, 1917.

Cristellaria macrodiscus Reuss, 1862, p. 78, Pl. 9, figs 5a, b.

Cristellaria rotulata (Lamarck) var. *macrodiscus* Reuss, Chapman, 1917, p. 38, Pl. 9, fig. 87.

C.P.C. 7044 (27)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA SCHLOENBACHI
Reuss, 1862; Chapman, 1917.

Cristellaria schloenbachi Reuss, 1862, p. 65, Pl. 6, figs 14, 15; Chapman, 1917, p. 36, Pl. 8, fig. 76.

C.P.C. 7044 (16)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA SUBALATA Reuss, 1854; Chapman, 1917.

Cristellaria subalata Reuss, 1854, p. 68, Pl. 25, fig. 13; Chapman, 1917, p. 38, Pl. 9, fig. 84.

C.P.C. 7044 (24)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA TRIANGULARIS
d'Orbigny, 1840; Chapman, 1917.

Cristellaria triangularis d'Orbigny, 1840, p. 27, Pl. 2, figs 21, 22; Chapman, 1917, p. 36, Pl. 9, fig. 80.

C.P.C. 7044 (20)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA TRICARINELLA
Reuss, 1862; Chapman, 1909

Cristellaria tricarinella Reuss, 1862, p. 68, Pl. 7, fig. 9; Pl. 12, figs 2-4; Chapman, 1909, p. 343, Pl. 16, fig. 3.

C.P.C. 7193 (24)—Hypotype
10 miles N of Enderby Island, NE of Auckland Island at 85 fathoms, 166° 18' E, 50° 20' S

Recent

CRISTELLARIA TRIPLEURA Reuss, 1860; Chapman, 1917.

Cristellaria tripleura Reuss, 1860, p. 211, Pl. 9, fig. 5; Chapman, 1917, p. 34, Pl. 12, fig. 120.

C.P.C. 7046 (10)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

CRISTELLARIA TRUNCULATA
Berthelin, 1880; Chapman, 1917.

Cristellaria trunculata Berthelin, 1880, p. 53, Pl. 3, figs 27a, b; Chapman, 1917, p. 34, Pl. 12, fig. 121.

C.P.C. 7046 (11)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

DENTALINA ADMODICOSTATA Belford, 1960.

See *NODOSARIA* (D.) *OBLIQUA* (Linnaeus) Chapman, 1917; *NODOSARIA PERPUSILLA* Chapman, 1917.

Nodosaria (D.) *obliqua* (Linnaeus), Chapman, 1917, p. 26, Pl. 4, fig. 9.

Nodosaria perpusilla Chapman, 1917, p. 28, Pl. 12, fig. 118.

Dentalina admodicostata Belford, 1960, p. 33, Pl. 10, figs 1-5.

C.P.C. 3175—Holotype (Pl. 10, figs 1, 2)
Scarp on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A., 15 feet above base of section

Toolonga Calcilitite

C.P.C. 3176—Paratype A (Pl. 10, fig. 3)
Same locality as above, but 7 feet above base of section

C.P.C. 3177—Paratype B (Pl. 10, figs 4, 5)
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin

At top of exposure of Toolonga Calcilitite

Upper Cretaceous (Campanian)

DENTALINA BASIPLANATA Cushman, 1938; Belford, 1960.

See *NODOSARIA* (D.) *ANNULATA* Reuss, Chapman, 1917.

Nodosaria (D.) *annulata* Reuss, Chapman, 1917, p. 24, Pl. 3, fig. 31 (not fig. 30, D.J.B.).

Dentalina basiplanata Cushman, 1938, Pl. 6, figs 6-8, Belford, 1960, p. 25, Pl. 7, figs 1-5.

C.P.C. 3147 (Pl. 7, figs 1, 2), C.P.C. 3148 (Pl. 7, figs 3, 4)—Hypotypes

Scarp on coast 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin W.A., 7 feet above base of section

Toolonga Calcilitite

C.P.C. 3149—Hypotype (Pl. 7, fig. 5)
Same locality as above, but 15 feet above base of section

Upper Cretaceous (Campanian)

DENTALINA BASITORTA Cushman, 1938; Belford, 1960.

Dentalina basitorta Cushman, 1938, p. 37, Pl. 6, figs 4, 5; Belford, 1960, p. 31, Pl. 7, figs 4, 5

C.P.C. 3168—Hypotype (Pl. 7, figs 4, 5)
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilitite

Upper Cretaceous (Santonian)

DENTALINA CATENULA (Reuss, 1860); Belford, 1960.

See *NODOSARIA* (D.) *SOLUTA* Reuss, Chapman, 1917.

Dentalina catenula Reuss, 1860, p. 185, fig. 28.

Dentalina catenula Reuss, Belford, 1960, p. 27, Pl. 8, figs 1-4.

C.P.C. 3155—Hypotype (Pl. 8, fig. 1)
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.
3 feet above Toolonga Calcilitite

C.P.C. 3157—Hypotype (Pl. 8, fig. 4)
Same locality as above, but at base of Toolonga Calcilitite

C.P.C. 3146—Hypotype (Pl. 8, figs 2, 3)
Scarp near emergency airfield, Murchison River area, 3 feet above base of Toolonga Calcilitite

Upper Cretaceous (Santonian)

DENTALINA CYLINDROIDES Reuss, 1860; Belford, 1960.

Dentalina cylindroides Reuss, 1860, p. 185, Pl. 2, fig. 14; Belford, 1960, p. 26, Pl. 7, figs 8-12.

C.P.C. 3152—Hypotype (Pl. 7, figs 8, 9)
Scarp, Yaringa North Station, Shark Bay area, Carnarvon Basin, W.A., at side of North-West Coastal Highway, 31 miles N of Hamelin turnoff

Toolonga Calcilitite, 15 feet above base of section

C.P.C. 3153—Hypotype (Pl. 7, figs 10, 11)
Same locality as above, but 15 feet above
base of section

C.P.C. 3154—Hypotype (Pl. 7, fig. 12)
Scarp, on coast 2 miles NE of Hamelin
Telegraph Station, Shark Bay area
Toolonga Calcilutite, 7 feet above base of
section

Upper Cretaceous (Campanian)

DENTALINA GRACILIS d'Orbigny,
1840; Belford, 1960.

See **NODOSARIA (D.) COMMUNIS**
d'Orbigny, Chapman, 1917.

Dentalina gracilis d'Orbigny, 1840, p. 14,
Pl. 1, fig. 5.

Nodosaria (D.) communis d'Orbigny,
Chapman, 1917, p. 24, Pl. 3, fig. 32.

Dentalina gracilis d'Orbigny, Belford, 1960,
p. 29, Pl. 9, figs 8-11.

C.P.C. 3160—Hypotype (Pl. 9, figs 8, 9)
Scarp on coast 2 miles NE of Hamelin Tele-
graph Station, Shark Bay area, Carnarvon
Basin, W.A.

Toolonga Calcilutite, 15 feet above base of
section

C.P.C. 3162—Hypotype (Pl. 9, fig. 11)
Same locality as above, but 25 feet above
base of section

C.P.C. 3161—Hypotype (Pl. 9, fig. 10)
Outcrop on Yaringa North Station, Shark
Bay area, 1½ miles E of North-West
Coastal Highway, from point 28 miles N
of Hamelin turnoff

Toolonga Calcilutite

Upper Cretaceous (Campanian)

DENTALINA LUMA Belford, 1960.

Dentalina luma Belford, 1960, p. 34, Pl.
10, figs 6-11.

C.P.C. 3178—Holotype (Pl. 10, figs 6, 7)
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

C.P.C. 3179—Paratype A (Pl. 10, figs 8, 9)
Scarp, Toolonga Point, Murchison River
area

At base of Toolonga Calcilutite

C.P.C. 3180—Paratype B (Pl. 10, fig. 10)

C.P.C. 3181—Paratype C (Pl. 10, fig. 11)
Scarp near emergency airfield, Murchison
River area

Toolonga Calcilutite, 3 feet above base

Upper Cretaceous (Santonian)

DENTALINA MARCKI Reuss, 1860;
Belford, 1960.

Dentalina marcki Reuss, 1860, p. 188, Pl. 2,
fig. 7; Belford, 1960, Pl. 9, figs 1-3.

C.P.C. 3166—Hypotype (Pl. 9, fig. 1)
Scarp on coast 2 miles NE of Hamelin Tele-
graph Station, Shark Bay area, Carnarvon
Basin, W.A.

Toolonga Calcilutite (Campanian), 7 feet
above base of section

C.P.C. 3167—Hypotype (Pl. 9, figs 2, 3)
Quarry, One Tree Hill, near Gingin, Perth
Basin, W.A.

Gingin Chalk (Santonian), 32 feet above
base

Upper Cretaceous (Santonian, Campanian)

DENTALINA MEGALOPOLITANA
Reuss, 1855; Belford, 1960.

See **NODOSARIA (D.) ANNULATA**
Reuss, Chapman, 1917; **VAGINULINA**
LEGUMEN (Linnaeus), Chapman,
1917.

Dentalina megalopolitana Reuss, 1855,
p. 167, Pl. 8, fig. 10.

Nodosaria (D.) annulata Reuss, Chapman,
1917, p. 24, Pl. 3, fig. 30 (non fig. 31,
D.J.B.).

Vaginulina legumen (Linnaeus), Chapman,
1917, p. 33, Pl. 8, fig. 67.

Dentalina megalopolitana Reuss, Belford,
1960, p. 26, Pl. 7, figs 6, 7.

C.P.C. 3150—Hypotype (Chapman, Pl. 8,
fig. 67, refigured; Belford, Pl. 7, fig. 6)

C.P.C. 3151—Hypotype (Chapman, Pl. 3, fig. 30; Belford, Pl. 7, fig. 7)
One Tree Hill, near Gingin, Perth Basin, W.A. (exact position in formation not known)
Gingin Chalk

Upper Cretaceous (Santonian)

DENTALINA PERTINENS Cushman, 1938; Belford, 1960.

Dentalina pertinens Cushman, 1938, Pl. 6, figs 15-18; Belford, 1960, p. 28, Pl. 8, figs 5-7.

C.P.C. 3158—Hypotype (Pl. 8, figs 5, 6)
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At top of exposure of Toolonga Calcilutite
C.P.C. 3159—Hypotype (Pl. 8, fig. 7)

Scarp, Yaringa North Station, Shark Bay area, Carnarvon Basin, at side of North-West Coastal Highway, 31 miles N of Hamelin turnoff

Toolonga Calcilutite, 15 feet above base of section

Upper Cretaceous (Campanian)

DENTALINA STEPHENSONI (Cushman, 1936); Belford, 1960.

Ellipsonodosaria stephensoni Cushman, 1936b, p. 52, Pl. 9, figs 10-15.

Dentalina stephensoni (Cushman), Belford, 1960, p. 30, Pl. 8, figs 12-14.

C.P.C. 3163—Hypotype (Pl. 8, fig. 12)
Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A.

8 feet above base of Toolonga Calcilutite

C.P.C. 3184 (Pl. 8, fig. 13), C.P.C. 3165 (Pl. 8, fig. 14)—Hypotypes

Scarp, Bidgie Bidgie Point, Murchison River area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

DENTALINA sp. cf. D. BASITORTA Cushman, 1938; Belford, 1960.

Dentalina basitorta Cushman, 1938, p. 37, Pl. 6, figs 4, 5.

Dentalina sp. cf. *basitorta* Cushman, Belford, 1960, p. 32, Pl. 9, figs 6-8.

C.P.C. 3169—Figured specimen (Pl. 9, figs 6, 7)

Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A.

3 feet above base of Toolonga Calcilutite

C.P.C. 3170—Figured specimen (Pl. 9, fig. 8)

Scarp, Toolonga Point, Murchison River area, 8 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

DENTALINA sp. cf. D. INORNATA d'Orbigny, 1846; Belford, 1960.

Dentalina inornata d'Orbigny, 1848, p. 44, Pl. 1, figs 50, 51.

Dentalina sp. cf. *D. inornata* d'Orbigny, Belford, 1960, p. 33, Pl. 9, figs 11-15.

C.P.C. 3172—Figured specimen (Pl. 9, fig. 11)

Scarp on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A.

Toolonga Calcilutite, 7 feet above base of section

C.P.C. 3173—Figured specimen (Pl. 9, figs 12, 13)

Same locality as above, but 15 feet above base of section

C.P.C. 3174—Figured specimen (Pl. 9, figs 14, 15)

Same locality as above, but 25 feet above base of section

Upper Cretaceous (Campanian)

DENTALINA sp. cf. D. SORORIA Reuss, 1860; Belford, 1960.

Dentalina sororia Reuss, 1860, p. 42.

Dentalina sp. cf. *D. sororia* Reuss, Belford, 1960, p. 32, Pl. 9, figs 9, 10.

C.P.C. 3171—Figured specimen (Pl. 9, figs 9, 10)

Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, W.A.

3 feet above base of Toolonga Calcilutite
Upper Cretaceous (Santonian)

DENTALINA sp.A Belford, 1960.

Dentalina sp.A Belford, 1960, p. 35, Pl. 10, figs 12-14.

C.P.C. 3182—Figured specimen (Pl. 10, fig. 12)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At top of exposure of Toolonga Calcilutite (Campanian)

C.P.C. 3183—Figured specimen (Pl. 10, figs 13, 14)

Scarp near emergency airfield, Murchison River area, 23 feet above base of Toolonga Calcilutite (Santonian)

Upper Cretaceous (Santonian, Campanian)

DENTALINA sp.B Belford, 1960.

Dentalina sp.B Belford, 1960, p. 35, Pl. 10, figs 15, 16.

C.P.C. 3184 (Pl. 10, fig. 15), C.P.C. 3185 (Pl. 10, fig. 16)—Figured specimens

Quarry, One Tree Hill, near Gingin, Perth Basin, W.A.

Gingin Chalk, 32 feet above base

Upper Cretaceous (Santonian)

DENTALINOIDES CANULINA Marie, 1941; Belford, 1960.

Dentalinoides canulina Marie, 1941, p. 208, Pl. 32, figs 306a, b; 307; Belford, 1960, p. 70, Pl. 19, figs 6-8.

C.P.C. 3319—Hypotype (Pl. 19, figs 6, 7)

Scarp on coast 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A.

Toolonga Calcilutite (Campanian), 7 feet above base of section

C.P.C. 3320—Hypotype (Pl. 19, fig. 8)

Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, 14 feet above base of Toolonga Calcilutite (Santonian)

Upper Cretaceous (Santonian, Campanian)

DENTALINOIDES sp. Belford, 1960.

Dentalinoides sp. Belford, 1960, p. 71, Pl. 19, fig 9.

C.P.C. 3321—Figured specimen

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At top of exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

DISCORBINA BICONCAVA Parker & Jones, 1865; Chapman, 1909.

Discorbina biconcava Parker & Jones, 1865, p. 422, Pl. 19, figs. 10 a-c; Chapman, 1909, p. 357, Pl. 17, figs 8 a-b.

C.P.C. 7193 (35)—Hypotype

Off the Snares, S of New Zealand, at 60 fathoms, 16° 32' E, 48° 01' S

Recent

DISCORBINA PARISIENSIS (d'Orbigny, 1826); Chapman, 1909.

Rosalina parisiensis d'Orbigny, 1826; p. 27, No. 1, Modèle No. 38.

Discorbina parisiensis (d'Orbigny), Chapman, 1909, p. 356, Pl. 17, figs 6, 7.

C.P.C. 7193 (33) (Pl. 17, fig. 6), C.P.C.

7193 (34) (Pl. 17, fig. 7)—Hypotypes
Off the Snares, S of New Zealand, at 60 fathoms, 166° 32' E, 48° 01' S

Recent

DISCORBINELLA BERTHELOTI (d'Orbigny, 1839); Belford, 1966.

Rosalina bertheloti d'Orbigny, 1839a, p. 135, Pl. 1, figs 28-30.

Discorbinella bertheloti (d'Orbigny), Belford, 1966, Pl. 12, figs 15-22; text-fig. 8: 1-2, text-fig. 9; 1-2.

C.P.C. 6362 (Pl. 12, figs 15-17), C.P.C. 6363 (Pl. 12, figs 18-20), C.P.C. 6364 (Pl. 12, fig. 21), C.P.C. 6366 (text-fig. 9; 102)—Hypotypes

C.P.C. 6365 (Pl. 12, fig. 22)—Horizontal section

Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

DISCORBINELLA SUBBERTHELOTI (Cushman, 1924); Belford, 1966.

Discorbis subbertheloti Cushman, 1924, p. 33, Pl. 10, fig. 1.

Discorbinella subbertheloti (Cushman), Belford, 1966, p. 91, Pl. 13, figs 1-5.

C.P.C. 367 (Pl. 13, figs 1-3), C.P.C. 6368 (Pl. 13, figs 4, 5)—Hypotypes
Creek N of Ibab Village, Wewak sub-district, Sepik district, New Guinea (Loc. 28, Map 8)

Pliocene

DOROTHIA BIFORMIS Finlay, 1939; Belford, 1960.

Dorothia biformis Finlay, 1939, p. 313, Pl. 24, figs 26-28; Belford, 1960, p. 19, Pl. 4, figs 14-18.

C.P.C. 3125—Hypotype (Pl. 4, figs 14-16)
Scarp on Yaringa North Station, Shark Bay area, Carnarvon Basin, W.A., 31 miles N of Hamelin turnoff
Toolonga Calcilutite, 15 feet above base of section

C.P.C. 3126—Hypotype (Pl. 4, figs 17, 18)
Scarp on coast 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin
Toolonga Calcilutite, 10 feet above base of section

Upper Cretaceous (Campanian)

DOROTHIA BULLETTA (Carsey, 1926); Belford, 1960.

See GAUDRYINA PUPOIDES d'Orbigny, Chapman, 1917.

Gaudryina pupoides d'Orbigny, Chapman, 1917, p. 21, Pl. 2, fig. 20.

Gaudryina bulletta Carsey, 1926, p. 28, Pl. 4, fig. 4.

Dorothia bulletta (Carsey), Belford, 1960, p. 18, Pl. 4, figs 8-10.

C.P.C. 3121—Hypotype (Pl. 4, figs 8, 9)
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.
At top of Toolonga Calcilutite

C.P.C. 3122—Hypotype (Pl. 4, fig. 10)
Scarp on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin
Toolonga Calcilutite

Upper Cretaceous (Campanian)

DOROTHIA CONFRAGA Belford, 1960.

See TEXTULARIA GIBBOSA d'Orbigny, Chapman, 1917.

Textularia gibbosa d'Orbigny, Chapman, 1917, p. 18, Pl. 2, fig. 11.

Dorothia confraga Belford, 1960, p. 20, Pl. 5, figs 1-7.

CPC 3217—Holotype (Pl. 5, figs 1-3)

C.P.C. 3219 (Pl. 5, fig. 6), C.P.C. 3130 (Pl. 5, fig. 7)—Thin sections
Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite (Santonian)

C.P.C. 3218—Paratype (Pl. 5, figs 4, 5)
Scarp, Bidgie Bidgie Point, Murchison River area, at top of exposure of Toolonga Calcilutite (Campanian)

Upper Cretaceous (Santonian, Campanian)

DOROTHIA CONICULA Belford, 1960.

Dorothia conicula Belford, 1960, p. 20, Pl. 5, figs 8-13.

C.P.C. 3131—Holotype

Scarp on Yaringa North Station, Shark Bay area, Carnarvon Basin, W.A., at side of North-West Coastal Highway, 31 miles N of Hamelin turn-off

Toolonga Calcilutite, 10 feet above base of section

C.P.C. 3132—Paratype (Pl. 5, figs 11-13)
Scarp on coast 2 miles NE of Hamelin Telegraph Station, Shark Bay area

Toolonga Calcilutite, 7 feet above base of section

Upper Cretaceous (Campanian)

DOROTHIA FILIFORMIS (Berthelin, 1880); Crespin, 1963.

Gaudryina filiformis Berthelin, 1880, p. 25, Pl. 1 (24), figs 8a-d.

Dorothia filiformis (Berthelin) Crespin, 1963b, p. 58, Pl. 16, fig. 8.

C.P.C. 4613—Hypotype
New (1959) Bore, Etheldale, western
Queensland

Lower Cretaceous

DOROTHIA GRANDIS Crespin, 1963.

Dorothea grandis Crespin, 1963b, p. 59,
Pl. 16, figs 9-17

C.P.C. 4614—Holotype (Pl. 16, figs 9, 10)
Union-Kern-AOG Cabawin No. 1 Well,
Queensland, at 1108 feet 4 inches (core
2)

Roma Formation

C.P.C. 4615—Paratype A (Pl. 16, figs 11,
12)

C.P.C. 4616—Paratype B (Pl. 16 fig. 13)

C.P.C. 4617—Paratype C (Pl. 16, fig. 14)

C.P.C. 4620—Paratype F (Pl. 16, fig. 17)
Dribbling Bore, Sandringham, western
Queensland, at 470-489 feet

Upper Longsight Sandstone

C.P.C. 4618—Paratype D (Pl. 11a, fig. 15)
Union-Kern-AOG Cabawin No. 1 Well,
Queensland, at 1120-1130 feet

Roma Formation

C.P.C. 4619—Paratype E (Pl. 16, fig. 16)
Same bore as above at 1109-1120 feet
Roma Formation

Lower Cretaceous

DOROTHIA PUPA (Reuss, 1860); Belford, 1960.

Textularia pupa Reuss, 1860, p. 232, Pl. 13,
figs 4a-b.

Dorothia pupa (Reuss), Belford, 1960,
p. 19, Pl. 4, figs 11-13.

C.P.C. 3123 (Pl. 4, fig. 11), C.P.C. 3124
(Pl. 4, fig. 12)—Hypotypes

Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A.

At top of exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

DRAFFANIA QUASIBILOBA Fomina, 1960; Belford, 1967.

Draffania quasibiloba Fomina, 1960, p. 166,
Pl. 1, figs 9, 15-21; Belford, 1967c,
p. 50, Pl. 6, figs 1-8, text-fig. 2.

C.P.C. 7260 (Pl. 6, figs 1, 2), C.P.C. 7261
(Pl. 61, fig. 3)—Hypotypes

C.P.C. 7262 (Pl. 6, figs 4-5)—Vertical
section

C.P.C. 7263 (Pl. 6, fig. 6)—Vertical section

C.P.C. 7264 (Pl. 6, fig. 7)—Vertical section

C.P.C. 7265 (Pl. 6, fig. 8)—Horizontal
section

C.P.C. 7266 (text-fig. 2 (1)), C.P.C.
7267 (text-fig. 2 (2)), C.P.C. 7268 (text-
fig. 2 (3)), C.P.C. 7269 (text-fig. 2 (4)),
C.P.C. 7270 (text-fig. 2 (5)), Camera
lucida outline drawings

Bonaparte No. 1 Well, Core 6, at 1842 feet-
1842 feet 6 inches; Bonaparte Gulf
Basin

Lower Carboniferous (Upper Viséan)

EHRENBERGINA SERRATA Reuss, 1849; Chapman, 1909.

Ehrenbergina serrata Reuss, 1849; p. 377,
Pl. 48, figs 7a-c; Chapman, 1909, p. 332,
Pl. 15, fig. 2.

C.P.C. 7193 (14)—Hypotype
NE of Bounty Island, at 50 fathoms, 179°
05' E, 47° 43' S

Recent

ELLIPSOIDELLA ARTICULATA (Brotzen, 1936); Belford, 1960.

Nodosarella articulata Brotzen, 1936, p.
139, Pl. 9, figs 10a-c, text-fig. 49.

Ellipsoidella articulata (Brotzen), Belford,
1960, p. 74, Pl. 19, fig. 13.

C.P.C. 3325—Typotype

Scarp, Toolonga Point, Murchison River
area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

ELLIPSOIDEA BINARYA Belford, 1960.

Ellipsoidella binaria Belford, 1960, p. 71, Pl. 19, figs 14-22.

C.P.C. 3326—Holotype (Pl. 19, figs 14, 15)

C.P.C. 3328—Paratype B (Pl. 19, figs 18, 19)

Scarp on Yaringa North Station, Shark Bay area, Carnarvon Basin, W.A., at side of North-West Coastal Highway, 31 miles N of Hamelin turnoff, 15 feet above base of section

Toolonga Calcilutite

C.P.C. 3327—Paratype A (Pl. 19, figs 16, 17)

Same locality as above, but 4 feet above base of section

C.P.C. 3329—Paratype C (Pl. 19, figs 20, 21)

Scarp on coast 2 miles NE of Hamelin Telegraph Station, Shark Bay area, 15 feet above base of section

Toolonga Calcilutite

C.P.C. 3330—Paratype D (Pl. 19, fig. 22)

Same locality as Paratype C, but 7 feet above base of section

Upper Cretaceous (Campanian)

ELLIPSOIDEA sp. cf. E. SOLIDA (Brotzen, 1936); Belford, 1960.

Nodosarella solida Brotzen, 1936, p. 140, Pl. 9, figs 11a, b.

Ellipsoidella sp. cf. *E. solida* (Brotzen), Belford, 1960, p. 73, Pl. 19, figs 10-12.

C.P.C. 3322 (Pl. 19, fig. 10), C.P.C. 3323 (Pl. 19, fig. 11)—Figured specimens

Scarp on coast 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A., 7 feet above base of section

Toolonga Calcilutite (Campanian)

C.P.C. 3324—Figured specimen (Pl. 19, fig. 12)

Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, 14 feet above base of Toolonga Calcilutite (Santonian)

Upper Cretaceous (Santonian, Campanian)

ELLIPSOIDEA sp. Belford, 1960.

Ellipsoidella sp. Belford, 1960, p. 74, Pl. 20, fig. 1.

C.P.C. 3331—Figured specimen

Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A.

3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

ELPHIDIUM ADELAIDENSE Howchin & Parr, 1938, Crespin, 1963.

Elphidium adalaidense Howchin & Parr, 1938, p. 300, Pl. 18, fig. 7; Pl. 19, figs 5, 6; Crespin, 1963a, p. 151 (lists), Pl. 22, figs 17, 18.

C.P.C. 388 (Pl. 22, fig. 17), C.P.C. 389 (Pl. 22, fig. 18)—Hypotypes

Dutton Way, Portland, Victoria

Maretimo Member, Whalers Bluff Formation

Upper Pliocene

ELPHIDIUM ADVENUM (Cushman, 1922); Crespin, 1963.

Polystomella advena Cushman, 1922, p. 56, Pl. 9, figs 11, 12.

Elphidium advenum (Cushman), Crespin, 1963a, p. 151 (lists), Pl. 22, figs 13, 14.

C.P.C. 384 (Pl. 22, fig. 13); C.P.C. 385 (Pl. 22, fig. 14)—Hypotypes

Dutton Way, Portland, Victoria

Maretimo Member, Whalers Bluff Formation

Upper Pliocene

ELPHIDIUM PSEUDONODOSUM Cushman, 1936; Crespin, 1963.

Elphidium pseudonodosum Cushman, 1936, p. 82, Pl. 14, figs 9a, b; Crespin, 1963a, p. 151 (lists), Pl. 22, figs 15, 16.

C.P.C. 386 (Pl. 22, fig. 15), C.P.C. 387 (Pl. 22, fig. 16)—Hypotypes

Dutton Way, Portland, Victoria

Maretimo Member, Whalers Bluff Formation

Upper Pliocene

EOUVIGERINA AMERICANA Cushman, 1926; Belford, 1960.

Eouvigerina americana Cushman, 1926a, p. 4, Pl. 1, figs 1a-c; Belford, 1960, p. 63, Pl. 16, figs 3-6.

C.P.C. 3288—Hypotype (Pl. 16, figs 3, 4) Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite (Santonian)

C.P.C. 3289—Hypotype (Pl. 16, figs 5, 6) Same locality as above, but at top of exposure (Campanian)

Upper Cretaceous (Santonian, Campanian)

EOUVIGERINA GRACILIS Cushman, 1926; Belford, 1960.

Eouvigerina gracilis Cushman, 1926a, p. 5, Pl. 1, figs 2a-c; Belford, 1960, p. 62, Pl. 16, figs 1, 2.

C.P.C. 3286—Hypotype (Pl. 16, fig. 1) Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

C.P.C. 3287—Hypotype (Pl. 16, fig. 2) Scarp, Toolonga Point, Murchison River area

At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

EPISTOMINELLA PATAGONICA (d'Orbigny, 1839); Crespin, 1960.

Rotalina patagonica d'Orbigny, 1839c, p. 36, Pl. 11, figs 6-8.

Epistominella patagonica (d'Orbigny), Crespin, 1960, p. 28, Pl. 2, figs 12, 13.

C.P.C. 620—Hypotype
Terrace, 120 feet above water level, near NW corner, Deep Lake, Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

EPONIDES CONCINNA Brotzen, 1936; Belford, 1960.

See **PULVINULINA CORDIERIANA** (d'Orbigny), Chapman, 1917.

Pulvinulina cordieriana (d'Orbigny), Chapman, 1917, p. 46, Pl. 11, figs 109a, b.

Eponides concinna Brotzen, 1936, p. 167, Pl. 12, figs 4a-c; Belford, 1960, p. 83, Pl. 23, figs 1-6.

C.P.C. 3362—Hypotype (Pl. 23, figs 1-3) Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A.

8 feet above base of Toolonga Calcilutite

C.P.C. 3363—Hypotype (Pl. 23, figs 4-6) Scarp, Pillarawa Hill, Murchison River area, 3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

EPONIDES DIVERSUS Belford, 1960.

Eponides diversus Belford, 1960, p. 82, Pl. 22, figs 16-26.

C.P.C. 3358—Holotype (Pl. 22, figs 16-18)

C.P.C. 3359—Paratype A (Pl. 22, figs 19-21)

C.P.C. 3360—Paratype B (Pl. 22, figs 22-24)

C.P.C. 3361—Paratype C (Pl. 22, figs 25-26)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

'EPONIDES' LABRICRASSUS Belford, 1966.

'Eponides' labricrassus Belford, 1966, p. 127, Pl. 18, figs 4-10.

C.P.C. 6483—Holotype (Pl. 18, figs 4-6)

C.P.C. 6484—Paratype A (Pl. 18, figs 7-8)

C.P.C. 6485—Paratype B (Pl. 18, fig. 9)

C.P.C. 6486—part of horizontal section (Pl. 18, fig. 10)

Tubu Area, Papua (Loc. 1b, Holotype and paratype A; Loc. 1g, paratype B, Map 1)

'Tubu Siltstone'

Upper Miocene

'EPONIDES' MARGARITIFERUS (Brady, 1881); Belford, 1966.

Truncatulina margaritifera Brady, 1881, p. 66; 1884, p. 667, Pl. 96, figs 2a-c.

'Eponides' margaritiferus (Brady), Belford, 1966, p. 126, Pl. 18, figs 11-16.

C.P.C. 6480 (Pl. 18, figs 11-13), C.P.C. 6481 (Pl. 18, figs 14-15)—Hypotypes

C.P.C. 6486 (Pl. 18, fig. 16)—part of horizontal section

E of Atemble, Lower Ramu-Atitau area, New Guinea (Loc. 37, Map 8)

Pliocene

'EPONIDES' PRAECINCTUS (Karrer, 1868); Belford, 1966.

Rotalia praecincta Karrer, 1868, p. 189, Pl. 5, fig. 7.

'Eponides' praecinctus (Karrer) Belford, 1966, p. 125, Pl. 16, figs 1-6.

C.P.C. 6477 (Pl. 16, figs 1-3), C.P.C. 6478 (Pl. 16, figs 4-5)—Hypotypes

C.P.C. 6479 (Pl. 16, fig. 6)—part of horizontal section

Tubu area, Papua (Loc. 1d, Map 1)

'Tubu Siltstone'

Upper Miocene

'EPONIDES' SUBHAIDINGERI (Parr, 1950); Belford, 1966.

Cibicides subhaidingeri Parr, 1950, p. 364, Pl. 15, figs 7a-c.

'Eponides' subhaidingeri (Parr), Belford, 1966, p. 129, Pl. 16, figs 7-13.

C.P.C. 6490 (Pl. 16, figs 7-9), C.P.C. 6491 (Pl. 16, fig. 10)—Hypotypes

C.P.C. 6493 (Pl. 16, fig. 13)—part of horizontal section

Ipowoloe Creek, Hohoro area, Papua (Loc. 15b, Map 6)

Doabea Formation

C.P.C. 6492 (Pl. 16, figs 11-12)—Hypotype
Road cutting at new residence N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

'EPONIDES' SUTURICRASSUS Belford, 1966.

'Eponides' suturicrassus Belford, 1966, p. 128, Pl. 18, figs 17-21; Pl. 19, fig. 1.

C.P.C. 6487—Holotype (Pl. 18, figs 11-13)

C.P.C. 6488—Paratype (Pl. 18, figs 20-21)

C.P.C. 6489—part of horizontal section (Pl. 19, fig. 1)

Tubu area, Papua (Loc. 1g, Map 1)

'Tubu Siltstone'

Upper Miocene

'EPONIDES' sp. cf. 'E' SUBHAIDINGERI (Parr, 1950); Belford, 1966.

'Eponides' sp. cf. 'E.' subhaidingeri (Parr), Belford, 1966, p. 130, Pl. 16, figs 14-22.

C.P.C. 6494 (Pl. 16, figs 14-16), C.P.C. 6496 (Pl. 16, figs 19-20)—Figured specimens

Creek N of Ibab Village, Wewak sub-district, Sepik district, New Guinea (Loc. 28, Map 8)

Upper Miocene

C.P.C. 6495 (Pl. 16, fig 17-18)—Figured specimen

C.P.C. 6497 (Pl. 16, fig. 22)—part of horizontal section

Forsyth Plantation, Mushu Island, Sepik district, New Guinea (Loc. 36, Map 8)

Pliocene

ESOSYRINX CURTA (Cushman & Ozawa, 1930); Crespin, 1960.

Pseudopolymorphina curta Cushman & Ozawa, 1930, p. 105, Pl. 27, figs 3a, b.

Eosyrinx curta (Cushman & Ozawa), Crespin, 1960, p. 26, Pl. 1, figs 7, 8.

C.P.C. 608—Hypotype

S Terrace, Lake Dingle (Broad Lake), Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

EUUVIGERINA ACULEATA (d'Orbigny, 1846); Belford, 1966.

Uvigerina aculeata d'Orbigny, 1846, p. 191, Pl. 11, figs 27-28.

Euuvigerina aculeata (d'Orbigny), Belford, 1966, p. 78, Pl. 7, figs 8-13.

C.P.C. 6326 (Pl. 6, figs 8, 9)—Hypotype
Kisila village, E of Josefstaal, Lower Ramu-
Atitau area, New Guinea (Loc. 39, Map
8)

C.P.C. 6327 (Pl. 6, fig. 10), C.P.C. 6328
(Pl. 6, fig. 11), C.P.C. 6329 (Pl. 6, fig.
12)—Hypotypes

Nagam River, W of Periana village, Wewak
subdistrict, Sepik district, New Guinea
(Loc. 27, Map 8)

Uppermost Miocene or Pliocene

EUUVIGERINA CRASSICOSTATA
(Schwager, 1866); Belford, 1966.

Uvigerina crassicostata Schwager, 1866, p.
248, Pl. 7, fig. 94.

Euuvigerina crassicostata (Schwager), Bel-
ford, 1966, p. 79, Pl. 7, figs 17-20.

C.P.C. 6332 (Pl. 7, figs 17-18), C.P.C.
6333 (Pl. 7, fig. 19)—Hypotypes
2½ miles NNW of Olipai River-Lakekamu
River junction, Papua (Loc. 5, Map 2)

Upper Miocene

C.P.C. 6334 (Pl. 7, fig. 20)—Hypotype
W of wharf at R.C. Mission, Yule Island
(Loc. 4, Map 3)

Lower Miocene

EUUVIGERINA FLINTII (Cushman,
1923); Belford, 1966.

Uvigerina flintii Cushman, 1923, p. 165, Pl.
42, fig. 13.

Euuvigerina flintii (Cushman), Belford,
1966, p. 80, Pl. 7, figs 21-23.

C.P.C. 6335 (Pl. 7, figs 21-22), C.P.C.
6336 (Pl. 7, fig. 23)—Hypotypes
Tubu area, Papua (Loc. 1g, Map 1)
'Tubu Siltstone'

Upper Miocene

EUUVIGERINA HISPIDA (Schwager,
1866); Belford, 1966.

Uvigerina hispida Schwager, 1866, p. 249,
Pl. 7, fig. 95.

Euuvigerina hispida (Schwager), Belford,
1966, p. 78, Pl. 7, figs 14-16.

C.P.C. 6330 (Pl. 7, figs 14-15), C.P.C.
6331 (Pl. 7, fig. 16)—Hypotypes
Upper Maipara Creek, W of Saw Mountains,
Malalaua—Saw Mountains area, Papua
(Loc. 9, Map 4)

Middle Miocene

EUUVIGERINA? NITIDULA (Schwager,
1866); Belford, 1966.

Uvigerina nitidula Schwager, 1866, p. 248,
Pl. 7, fig. 93.

Euuvigerina? nitidula (Schwager), Belford,
1966, p. 82, Pl. 8, figs 6-8.

C.P.C. 6341 (Pl. 8, figs 6-7), C.P.C. 6342
(Pl. 8, fig. 8)—Hypotypes
E of Karova Creek, Kerema-Karova Creek
area, Papua (Loc. 7, Map 3)

Middle Miocene

EUUVIGERINA PEREGRINA (Cushman,
1923); Belford, 1966.

Uvigerina peregrina Cushman, 1923, p. 166,
Pl. 42, figs 7-10.

Euuvigerina peregrina (Cushman), Belford,
1966, p. 75, Pl. 7, figs 3-7.

C.P.C. 6322 (Pl. 7, figs 3-4), C.P.C. 6323
(Pl. 7, fig. 5), C.P.C. 6324 (Pl. 7, fig.
6), C.P.C. 6325 (Pl. 7, fig. 7)—Hypo-
types
Kisila village, E of Josefstaal, Lower Ramu-
Atitau area, New Guinea (Loc. 39, Map
8)

Upper Miocene

EUUVIGERINA REINERI Belford, 1966.

Euuvigerina reineri Belford, 1966, p. 82, Pl. 8, figs 22-24.

C.P.C. 6343—Holotype (Pl. 8, figs 22-23)

C.P.C. 6344—Paratype (Pl. 8, fig. 24)

Nagam River, W of Periana village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

EUUVIGERINA SCHWAGERI (Brady, 1884); Belford, 1966.

Uvigerina schwageri Brady, 1884, p. 575, Pl. 74, figs 8-10.

Euuvigerina schwageri (Brady), Belford, 1966, p. 81, Pl. 8, figs 1-5.

C.P.C. 6337 (Pl. 8, figs 1-2), C.P.C. 6338 (Pl. 8, fig. 3)—Hypotypes

C.P.C. 6339 (Pl. 8, fig. 4), C.P.C. 6340 (Pl. 8, fig. 5)—sections

Sea cliff, 250 yards N of L.M.S. Mission, Delena, Papua (Loc. 2, Map 3)

Lower Miocene

FAVOCASSIDULINA FAVUS (Brady, 1877); Belford, 1966.

Pulvinulina favus Brady, 1877, p. 535; 1884, p. 701, Pl. 104, figs 12a-b; 13a-b; 14-16.

Favocassidulina favus (Brady), Belford, 1966, p. 145, Pl. 26, figs 28-31; text-fig. 18 : 6.

C.P.C. 6531 (Pl. 26, figs 28-29), C.P.C. 6532 (Pl. 26, fig. 30)—Hypotypes

C.P.C. 6534 (Pl. 26, fig. 31)—Horizontal section

C.P.C. 6534 (text-fig. 18 : 6)—section of pores

1 mile S of Kumil River, Lower Ramu-Atitau area, New Guinea (Loc. 42, Map 8)

Upper Miocene

FISSURINA REVERTENS (Heron-Allen & Earland, 1932); Crespin, 1960.

Lagena revertens Heron-Allen & Earland, 1932, p. 380, Pl. 11, figs 23-28.

Fissurina revertens (Heron-Allen & Earland), Crespin, 1960, p. 23, Pl. 1, figs 5, 6.

C.P.C. 600—Hypotype

Terrace, about 120 feet above water level near NW corner, Deep Lake, Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

FLABELLAMMINA ALEXANDERI Cushman, 1928; Crespin, 1963.

Flabellammina alexanderi Cushman, 1928, p. 1, figs 3, 4; Crespin, 1963b, p. 46, Pl. 12, figs 5-7.

C.P.C. 4547—Hypotype A (Pl. 12, fig. 5)

C.P.C. 4548—Hypotype B (Pl. 12, fig. 6)

C.P.C. 4549—Hypotype C (Pl. 12, fig. 7)

Broken Dam Bore, Canary Station, western Queensland, at 45-51 feet

Lower Wilgunya Formation

Lower Cretaceous

FLABELLAMMINA REYNOLDSI Crespin, 1963.

Flabellammina reynoldsi Crespin, 1963b, p. 46, Pl. 12, figs 8-11.

C.P.C. 4550—Holotype (Pl. 12, fig. 8)

C.P.C. 4551—Paratype A (Pl. 12, fig. 9)

C.P.C. 4552—Paratype B (Pl. 12, fig. 10)

Coogebung Tank, Marion Downs, western Queensland (W. 26)

Lower Wilgunya Formation

C.P.C. 4553—Paratype C (Pl. 12, fig. 11)

Mt Whelan, western Queensland (W. 40)

Lower Wilgunya Formation

Lower Cretaceous

FLABELLAMMINA VITREA Crespin, 1963.

Flabellammina vitrea Crespin, 1963b, p. 47, Pl. 12, figs 12-16.

C.P.C. 4554—Holotype (Pl. 12, fig. 12)
Hills about 6 miles NW of Marion Downs
Homestead, western Queensland (S. 156)
Lower Wilgunya Formation

C.P.C. 4555—Paratype A (Pl. 12, fig. 13)

C.P.C. 4556—Paratype B (Pl. 12, fig. 14)

C.P.C. 4557—Paratype C (Pl. 12, fig. 15)

C.P.C. 4558—Paratype D (Pl. 12, fig. 16)

Near Marion Downs Homestead, side of
track 4 miles S of junction with track
between Bucket Creek Bore and White-
wood Tank, Marion Downs Homestead,
western Queensland (W. 285)

Lower Wilgunya Formation

Lower Cretaceous

FLABELLINA INTERPUNCTATA von
der Marck, 1858; Chapman, 1917.

Flabellina interpunctata von der Marck,
1858, p. 53, Pl. 1, fig. 5; Chapman, 1917,
p. 40, Pl. 10, fig. 91.

C.P.C. 7045 (1)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FLABELLINA RUGOSA d'Orbigny, 1840;
Chapman, 1917.

See *PALMULA* sp. aff. *PALMULA*
PINULATA Cushman, Belford, 1960, p.
42.

Flabellina rugosa d'Orbigny, 1840, p. 23,
Pl. 2, figs 4, 5, 7; Chapman, 1917, p.
39, Pl. 10, fig. 90.

C.P.C. 7044 (30)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FLECTOSPIRA PRIMA Crespin &
Belford, 1957; Belford, 1968.

Flectospira prima Crespin & Belford, 1957,
p. 76, Pl. 12, figs 11-19; Belford, 1968,
Pl. 3, figs 22-24.

C.P.C. 6880—Hypotype

BMR 7, Core 16, at 1087-1095 feet, Mid-
dalya Station, Carnarvon Basin, W.A.
88 miles NE of Carnarvon, in central-
north part of Kennedy Range

Permian

FLORILUS ELONGATUS (d'Orbigny,
1852); Belford, 1966.

Nonionina elongata d'Orbigny, 1852, p. 128
(294) (*nom. nud.*).

Florilus elongatus (d'Orbigny), Belford,
1966, p. 158, Pl. 31, figs 8-12.

C.P.C. 6575 (Pl. 31, figs 8-9), C.P.C. 6576
(Pl. 31, fig. 10), C.P.C. 5677 (Pl. 31,
figs 11-12)—Hypotypes

Road cutting at new residence, N of aero-
drome, Madang, New Guinea (Loc. 17,
Map 8)

Pliocene

FLORILUS INCISUS (Cushman, 1926);
Belford, 1966.

Nonionina incisa Cushman, 1926b, p. 90,
Pl. 13, figs 13 a-c.

Florilus incisus (Cushman), Belford, 1966,
p. 157, Pl. 31, figs 5-7.

C.P.C. 6573 (Pl. 31, figs 5-6), C.P.C.
6574 (Pl. 31, fig. 7)—Hypotypes

SW flank of Wira Anticline, Puri-Purari
River area, Papua (Loc. 14b, Map 5)

Upper Miocene

FLORILUS SUBTURGIDUS (Cushman,
1924); Belford, 1966.

Nonionina suburgida Cushman, 1924, p.
47, Pl. 16, fig. 2.

Florilus suburgidus (Cushman), Belford,
1966, p. 158, Pl. 31, figs 13-15.

C.P.C. 6578 (Pl. 31, figs 13-14), C.P.C.
6579 (Pl. 31, fig. 15)—Hypotypes

Road cutting at new residence, N of aero-
drome, Madang, New Guinea (Loc. 17,
Map 8)

Pliocene

FRONDICULARIA ACLIS Morrow, 1934;
Belford, 1960.

Frondicularia aclis Morrow, 1934, p. 193,
Pl. 29, fig. 30; Belford, 1960, p. 52, Pl.
14, fig. 4.

C.P.C. 3253—Hypotype (Pl. 14, fig. 4)
Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 3 feet above
base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

FRONDICULARIA ANGUSTA Nilsson,
Reuss, 1846; Chapman, 1917.

See **FRONDICULARIA VERNEUIL-**
IANA d'Orbigny, Belford, 1960, p. 48.

Frondicularia angusta Nilsson, Reuss,
1846, p. 29, Pl. 8, figs 13, 14; Chap-
man, 1917, p. 32, Pl. 7, fig. 62.

C.P.C. 7044 (2)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA APICULATA Reuss,
1846; Chapman, 1917.

See **FRONDICULARIA VERNEUILIANA**
d'Orbigny, Belford, p. 48.

Frondicularia apiculata Reuss, 1846, p. 30,
Pl. 8, fig. 24; Chapman, 1917, p. 29,
Pl. 5, fig. 50.

C.P.C. 7043 (20)
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA ARCHIACIANA
d'Orbigny, 1840; Chapman, 1917.

See **FRONDICULARIA BULLA** Belford,
1960, p. 49.

Frondicularia archiaciana d'Orbigny, 1840,
p. 20, Pl. 1, figs 34-36; Chapman, 1917,
p. 28, Pl. 5, fig. 45.

C.P.C. 3244—Hypotype (Holotype of
Frondicularia bulla Belford, 1960)
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA ARCHIACIANA
d'Orbigny, 1840; Belford, 1960, non
Chapman, 1917.

Frondicularia archiaciana d'Orbigny, 1840,
p. 20, Pl. 1, figs 34-36; Belford, 1960,
p. 45, Pl. 12, fig. 9.

C.P.C. 3231—Hypotype
Scarp near emergency airfield, Murchison
River area, Carnarvon Basin, W.A., 3
feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

FRONDICULARIA AULAX Crespin,
1958; Belford, 1968.

Frondicularia aulax Crespin, 1958, p. 109,
Pl. 28, figs 1-4; Belford, 1968, Pl. 3, figs
12-13.

C.P.C. 6871—Hypotype (Pl. 3, fig. 12)
BMR 7, Core 16, at 1087-1895 feet, Mid-
dalya Station, Carnarvon Basin, W.A., 88
miles NE of Carnarvon, in central-north
part of Kennedy Range

Permian

FRONDICULARIA BULLA Belford,
1960.

See **FRONDICULARIA ARCHIACIANA**
d'Orbigny, Chapman, 1917.

Frondicularia archiaciana d'Orbigny, Chap-
man, 1917, p. 28, Pl. 5, fig. 45.

Frondicularia bulla Belford, 1960, p. 49,
Pl. 13, figs 9-11.

C.P.C. 3244—Holotype (Pl. 13, fig. 9)
Scarp on Yaringa North Station, Shark Bay
area, Carnarvon Basin, W.A., at side of
North-West Coastal Highway, 31 miles N
of Hamelin turnoff, 20 feet above base
of section

Toolonga Calcilutite

C.P.C. 3245—Paratype A (Pl. 13, fig. 10)

C.P.C. 3246—Paratype B (Pl. 13, fig. 11)
Scarp, Bidgie Bidgie Point, Murchison
River area, Carnarvon Basin, at top of
exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

FRONDICULARIA CHAPMANI Perner,
1897; Chapman, 1917.

Frondicularia chapmani Perner, 1897, p.
69, Pl. 4, fig. 12; Chapman, 1917, p. 29,
Pl. 5, fig. 46.

C.P.C. 7043 (16)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA CORDAI Reuss,
1846; Chapman, 1917.

Frondicularia cordai Reuss, 1846; pt. 1, p.
31, Pl. 8, figs 26-28; Pl. 13, fig. 41; pt. 2,
p. 108, Pl. 24, fig. 38; Chapman, 1917,
p. 31, Pl. 7, fig. 60.

C.P.C. 7043 (30)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA COSTULIFERA Bel-
ford, 1960.

Frondicularia costulifera Belford, 1960, p.
51, Pl. 14, figs 1-3.

C.P.C. 3250—Holotype (Pl. 14, fig. 1)
C.P.C. 3251—Paratype A (Pl. 14, fig. 2)
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A., at base of
Toolonga Calcilutite

C.P.C. 3252—Paratype B (Pl. 14, fig. 3)
Scarp, Toolonga Point, Murchison River
area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

FRONDICULARIA DECHENI Reuss,
1860; Chapman, 1917.

See **FRONDICULARIA** sp. cf. **F.**
STEINEKEI Finlay, Belford, 1960, p.
49.

Frondicularia decheni Reuss, 1860, p. 191,
Pl. 4, fig. 3; Chapman, 1917, p. 30, Pl.
6, fig. 53.

C.P.C. 7043 (23)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA DISJUNCTA Belford,
1960.

Frondicularia disjuncta Belford, 1960, p.
50, Pl. 31, figs 12-15.

C.P.C. 3247—Holotype (Pl. 31, figs 12, 13,
not 12-15 as given on p. 144)

C.P.C. 3248—Paratype A (Pl. 31, fig. 14)

C.P.C. 3249—Paratype B (Pl. 31, fig. 15)
Quarry, One Tree Hill, near Gingin, Perth
Basin, W.A., 32 feet above base
Gingin Chalk

Upper Cretaceous (Santonian)

FRONDICULARIA GAULTINA Reuss,
1860; Chapman, 1917.

See **FRONDICULARIA VERNEUILIANA**
d'Orbigny, Belford, 1960, p. 48.

Frondicularia gaultina Reuss, 1860, p. 194,
Pl. 5, fig. 5; Chapman, 1917, p. 30, Pl. 5,
figs 54-55.

C.P.C. 7043 (24) (Pl. 5, fig. 54), C.P.C.
7043 (25) (Pl. 5, fig. 55)—Hypotypes
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA GUESTPHALICA
Reuss, 1860; Chapman, 1917.

See **FRONDICULARIA MUCRONATA**
Reuss, Belford, 1960, p. 46.

Frondicularia guestphalica Reuss, 1860,
p. 195, Pl. 6, fig. 2; Chapman, 1917,
p. 31, Pl. 7, fig. 58.

C.P.C. 7043 (28)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA IMPOLITA Crespín,
1958; Belford, 1968.

Frondicularia impolita Crespín, 1958,
p. 111, Pl. 28, figs 9-12; Belford, 1968,
Pl. 3, fig. 14.

C.P.C. 6873—Hypotype
BMR 8, Core 14, at 1280-1290 feet, Byro
Station, Carnarvon Basin, W.A.
Callytharra Formation

Lower Permian

FRONDICULARIA INTERMITTENS Reuss, 1865; Chapman, 1917.

See FRONDICULARIA sp. cf. F. STEIN-
EKEI Finlay, Belford, 1960, p. 49.

Frondicularia intermittens Reuss, 1865,
p. 460 (name only), fig. 11; Chapman,
1917, p. 31, Pl. 7, fig. 59.

C.P.C. 7043 (2)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA INVERSA Reuss,
1846; Chapman, 1917.

See FRONDICULARIA VERNEUILIANA
d'Orbigny, Belford, 1960, p. 48.

Frondicularia inversa, Reuss, 1846, p. 31,
Pl. 8, figs 15-19; Chapman, 1917, p. 29,
Pl. 5, figs 48, 49.

C.P.C. 7043 (18) (Pl. 5, fig. 48), C.P.C.
7043 (19) (Pl. 5, fig. 49)—Hypotypes
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA LANCEOLA Reuss,
1860; Chapman, 1917.

Frondicularia lanceola Reuss, 1860, p. 198,
Pl. 5, fig. 1; Chapman, 1917, p. 29, Pl.
5, fig. 47.

C.P.C. 7043 (17)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA LANCEOLATA
Perner, 1892; Chapman, 1917.

Frondicularia lanceolata Perner, 1892,
p. 60, Pl. 7, figs 12a, b; Chapman, 1917,
p. 32, Pl. 7, fig. 61.

C.P.C. 7044 (1)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA MARGINATA Reuss,
1846; Chapman, 1917.

Frondicularia marginata Reuss, 1846, pt 1,
p. 30, Pl. 12, fig. 9; pt 2, p. 107, Pl. 24,
figs 39, 40; Chapman, 1917, p. 30, Pl. 6,
fig. 52.

C.P.C. 7043 (22)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA MUCRONATA Reuss,
1845; Belford, 1960.

See FRONDICULARIA UNGERI Reuss,
Chapman, 1917, and FRONDICULARIA
GUESTPHALICA Reuss, Chapman,
1917.

Frondicularia mucronata Reuss, 1845, p. 31,
Pl. 13, figs 43, 44.

Frondicularia ungeri Reuss, Chapman, 1917,
p. 31, Pl. 6, fig. 56.

Frondicularia guestphalica Reuss, Chapman,
1917, p. 31, Pl. 7, fig. 58.

Frondicularia mucronata Reuss, Belford,
1960, p. 46, Pl. 12, figs 10, 11.

C.P.C. 3232—Hypotype (Pl. 12, fig. 10)
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A., at base of
Toolonga Calcilutite (Santonian)

C.P.C. 3233—Hypotype (Pl. 12, fig. 11)
Scarp on Yaringa North Station, Shark Bay
area, Carnarvon Basin, at side of North-
West Coastal Highway, 31 miles N of
Hamelin turnoff, 10 feet above base of
section

Toolonga Calcilutite (Campanian)

Upper Cretaceous (Santonian, Campanian)

FRONDICULARIA ORNATA d'Orbigny, 1840; Chapman, 1917.

Frondicularia ornata d'Orbigny, 1840, p. 21, Pl. 1, figs 37, 38; Chapman, 1917, p. 28, Pl. 5, fig. 44.

C.P.C. 7043 (14)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA PARRI Crespín, 1945; Belford, 1968.

Frondicularia parri Crespín, 1945, p. 27, Pl. 3, figs 9-11; Belford, 1968, Pl. 3, fig. 15

C.P.C. 6874—Hypotype
BMR 7, Core 3, at 293-303 feet; Middalya Station, Carnarvon Basin, W.A., 88 miles NE of Carnarvon, in central-north part of Kennedy Range

Permian

FRONDICULARIA PEROVATA Chapman, 1894; 1917.

Frondicularia perovata Chapman, 1894a, p. 158, Pl. 4, figs 5a, b; Chapman, 1917, p. 31, Pl. 6, fig. 57.

C.P.C. 7043 (27)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA PLANIFOLIUM Chapman, 1894; Belford, 1960.

Frondicularia planifolium Chapman, 1894a, p. 158, Pl. 4, figs 1a, b; Belford, 1960, p. 46, Pl. 12, figs 12, 13.

C.P.C. 3234—Hypotype (Pl. 12, fig. 12)
Quarry, One Tree Hill, near Gingin, Perth Basin, W.A.

Gingin Chalk, 32 feet above base

C.P.C. 3235—Hypotype (Pl. 12, fig. 13)
Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

FRONDICULARIA SHERBORNI Perner, 1897; Chapman, 1917.

Frondicularia sherborni Perner, 1897, p. 68, Pl. 4, fig. 9; Chapman, 1917, p. 30, Pl. 6, fig. 51.

C.P.C. 7043 (21)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA TEURIA Finlay, 1939; Belford, 1960.

Frondicularia teuria Finlay, 1939, p. 316, Pl. 26, figs 60, 61; Belford, 1960, p. 47, Pl. 13, figs 1, 2.

C.P.C. 3236 (Pl. 13, fig. 1), C.P.C. 3237 (Pl. 13, fig. 2)—Hypotypes
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at top of exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

FRONDICULARIA UNGERI Reuss, 1862; Chapman, 1917.

See **FRONDICULARIA MUCRONATA** Reuss, Belford, 1960, p. 46.

Frondicularia ungeri Reuss, 1862, p. 54, Pl. 4, figs 11a, b; Chapman, 1917, p. 31, Pl. 6, fig. 56.

C.P.C. 7043 (26)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

FRONDICULARIA VERNEUILIANA d'Orbigny, 1840; Belford, 1960.

See **FRONDICULARIA INVERSA** Reuss, Chapman, 1917; **FRONDICULARIA APICULATA** Reuss, Chapman, 1917; **FRONDICULARIA GAULTINA** Reuss, Chapman, 1917; **FRONDICULARIA ANGUSTA** Nilsson, Chapman, 1917.

Frondicularia verneuiliana d'Orbigny, p. 20, Pl. 1, figs 32-33; Belford, 1960, p. 48, Pl. 13, figs 3-6.

C.P.C. 3238—Hypotype (Pl. 13, fig. 3)
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A., at base of
Toolonga Calcilutite

C.P.C. 3239—Hypotype (Pl. 13, fig. 4)
Scarp near emergency airfield, Murchison
River area, 3 feet above base of Toolonga
Calcilutite

C.P.C. 3240 (Pl. 13, fig. 5), C.P.C. 3241
(Pl. 13, fig. 6)—Hypotypes
Scarp, Pillarawa Hill, Murchison River area,
14 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

FRONDICULARIA WOODWARDI How-
chin, 1895; Belford, 1968.

Frondicularia woodwardi Howchin, 1895, p.
197, Pl. 10, figs 4-6; Belford, 1968, Pl.
3, fig. 16.

C.P.C. 6875—Hypotype
BMR 7, Core 5, at 397-403 feet, Middalya
Station, Carnarvon Basin, W.A., 88 miles
NE of Carnarvon, in central-north part of
Kennedy Range

Permian

FRONDICULARIA sp. cf. F. STEINEKEI
Finlay, 1939; Belford, 1960.

See **FRONDICULARIA DECHENI** Reuss,
Chapman, 1917; **FRONDICULARIA**
INTERMITTENS Reuss, Chapman,
1917.

Frondicularia decheni Reuss, Chapman,
1917, p. 30, Pl. 6, fig. 53.

Frondicularia intermittens Reuss, Chapman,
1917, p. 31, Pl. 7, fig. 59.

Frondicularia steinekei Finlay, 1939, p. 316,
Pl. 26, fig. 62.

Frondicularia sp. cf. *F. steinekei* Finlay,
Belford, 1960, p. 49, Pl. 13, figs 7, 8.

C.P.C. 3242—Figured specimen (Pl. 13,
fig. 7)

Quarry, One Tree Hill near Gingin, Perth
Basin, W.A.

Gingin Chalk, 32 feet above base

C.P.C. 3243—Figured specimen (Pl. 13,
fig. 8)

Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 14 feet above
base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

FRONDICULARIA sp. A Belford, 1960.

Frondicularia sp. A Belford, 1960, p. 52,
Pl. 14, fig. 5.

C.P.C. 3254—Figured specimen
Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 14 feet above
base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

FRONDICULARIA sp. B Belford, 1960.

Frondicularia sp. B Belford, 1960, p. 53,
Pl. 14, fig. 6.

C.P.C. 3255—Figured specimen
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A., at base of
Toolonga Calcilutite

Upper Cretaceous (Santonian)

FRONDICULARIA sp. C Belford, 1960.

Frondicularia sp. C Belford, 1960, p. 53,
Pl. 14, fig. 7.

C.P.C. 3256—Figured specimen
Quarry, One Tree Hill, near Gingin, Perth
Basin, W.A.
Gingin Chalk, 32 feet above base

Upper Cretaceous (Santonian)

FRONDICULARIA sp. D Belford, 1960.

Frondicularia sp. D Belford, 1960, p. 54,
Pl. 14, figs 8, 9.

C.P.C. 3257—Figured specimen (Pl. 14,
fig. 8)

Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 3 feet above base
of Toolonga Calcilutite

C.P.C. 3258—Figured specimen (Pl. 14,
fig. 9)

Scarp, Bidgie Bidgie Point, Murchison River
area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

FURSENKOINA SCHREIBERSIANA
Czjzek, 1848); Belford, 1966.

Virginulina schreibersiana Czjzek, 1848,
p. 147, Pl. 3, figs 18-21.

Fursenkoina schreibersiana (Czjzek),
Belford, 1966, p. 136, Pl. 9, figs 18-21.

C.P.C. 6515 (Pl. 9, figs 18-20), C.P.C.
6516 (Pl. 9, fig. 21)—Hypotypes

SE flank of Wira Anticline, Puri-Purari
River area, Papua (Loc. 14, Map 5)

Upper Miocene

GAUDRYINA AUSTRALIS Belford, 1960.

Gaudryina australis Belford, 1960, p. 11,
Pl. 2, figs 8-14.

C.P.C. 3092—Holotype (Pl. 2, figs 8-10)

C.P.C. 3093—Paratype A (Pl. 2, figs
11-13)

Scarp on Yaringa North Station, Shark Bay
area, Carnarvon Basin, W.A., at side of
North-West Coastal Highway, 31 miles
N of Hamelin turnoff, 10 feet above base
of section

Toolonga Calcilutite

C.P.C. 3094—Paratype B (Pl. 2, fig. 14)
Same locality as above, but 20 feet above
base of section

Upper Cretaceous (Campanian)

GAUDRYINA LAEVIGATA Franke,
1914; Belford, 1960.

Gaudryina laevigata Franke, 1914; p. 431,
Pl. 27, figs 1, 2; Belford, 1960, p. 12,
Pl. 2, figs 15-16.

C.P.C. 3095 (Pl. 2, fig. 15), C.P.C. 3096
(Pl. 2, fig. 16)—Hypotypes

Scarp near emergency airfield, Murchison
River area, Carnarvon Basin, W.A., 3
feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GAUDRYINA PULVINA Belford, 1960.

Gaudryina pulvina Belford, 1960, p. 10,
Pl. 2, figs 1-7.

C.P.C. 3089—Holotype (Pl. 2, figs 1-3)

Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 14 feet above
base of Toolonga Calcilutite

C.P.C. 3090—Paratype A (Pl. 2, figs 4-6)
Scarp, Bidgie Bidgie Point, Murchison River
area, at base of Toolonga Calcilutite

C.P.C. 3091—Paratype B (Pl. 2, fig. 7)
Scarp, Toolonga Point, Murchison River
area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GAUDRYINA PUPOIDES d'Orbigny,
1840; Chapman, 1917.

Gaudryina pupoides d'Orbigny, 1840, p.
44, Pl. 4, figs 22-24; Chapman, 1917, p.
21, Pl. 2, fig. 20.

C.P.C. 7042 (20)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

GAUDRYINA RUGOSA d'Orbigny, 1840;
Chapman, 1917.

Gaudryina rugosa d'Orbigny, 1840, p. 44,
Pl. 4, figs 20-21; Chapman, 1917, p. 21,
Pl. 2, fig. 21.

C.P.C. 7042 (21)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

GAUDRYINA RUGOSA d'Orbigny, 1840;
Chapman, 1917; Belford, 1960.

Gaudryina rugosa d'Orbigny, 1840; p. 44,
Pl. 4, fig. 21; Chapman, 1917, p. 21, Pl.
2, fig. 21; Belford, 1960, p. 13, Pl. 2,
figs 17-20.

C.P.C. 3097—Hypotype (Pl. 2, figs 17-19)
Scarp on coast, 2 miles NE of Hamelin
Telegraph Station, Shark Bay area, Car-
narvon Basin, W.A., 7 feet above base
of section

Toolonga Calcilutite

C.P.C. 3098—Hypotype (Pl. 2, fig. 20)
Outcrop, Meanarra Hill, Murchison River
area, Carnarvon Basin
Toolonga Calcilutite

Upper Cretaceous (Campanian)

GAVELINELLA INSCULPTA Belford, 1960.

Gavelinella insculpta Belford, 1960, p. 109, Pl. 33, figs 1-10.

C.P.C. 3466—Holotype (Pl. 33, figs 1-3)

C.P.C. 3467—Paratype A (Pl. 33, figs 4, 5)

C.P.C. 3468—Paratype B (Pl. 33, figs 6-8)

Scarp on coast 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A., 15 feet above base of section Toolonga Calcilutite (Campanian)

C.P.C. 3469—Horizontal section (Pl. 33, fig. 9)

Same locality as above, but 7 feet above base of section

Toolonga Calcilutite (Campanian)

C.P.C. 3470—Vertical section (Pl. 33, fig. 18)

Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, 14 feet above base of Toolonga Calcilutite (Santonian)

Upper Cretaceous (Santonian, Campanian)

GAVELINELLA STELLULA Belford, 1960.

See **ANOMALINA AMMONOIDES** (Reuss) Chapman, 1917; **PULVINULINA ELEGANS** (d'Orbigny) Chapman, 1917.

Anomalina ammonoides (Reuss), Chapman, 1917, p. 46, Pl. 11, fig. 107.

Pulvinulina elegans (d'Orbigny), Chapman, 1917, p. 46, Pl. 11, fig. 108.

Gavelinella stellula Belford, 1960, p. 110, Pl. 33, figs 11-18.

C.P.C. 3471—Holotype (Pl. 33, figs 11-13)

C.P.C. 3472—Paratype (Pl. 33, figs 14-16)

C.P.C. 3473—Horizontal section (Pl. 33, fig. 17)

C.P.C. 3474—Vertical section (Pl. 33, fig. 18)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GEINITZINA TRIANGULARIS Chapman & Howchin, 1905; Belford, 1968.

Geinitzina triangularis Chapman & Howchin, 1905, p. 16, Pl. 2, figs 9a, b; 10; Belford, 1968, Pl. 3, figs 17-18.

C.P.C. 6876—Hypotype (Pl. 3, fig. 17)

BMR 7, Core 5, at 398-403 feet, Middalya Station, Carnarvon Basin, 88 miles NE of Carnarvon, in central-north part of Kennedy Range

C.P.C. 6877—Hypotype (Pl. 3, fig. 18)

BMR 9, Core 11, at 1083-1093 feet, Dauri Creek, Coordewandy Station, Carnarvon Basin, W.A.

Callytharra Formation

Lower Permian

GEMINOSPIRA BRADYI Bermudez, 1952; Belford, 1966.

Geminospira bradyi Bermudez, 1952, p. 80, Pl. 13, figs 7a-b; Belford, 1966, p. 193, Pl. 37, figs 1-7; text-fig. 24:5-8.

C.P.C. 6695 (Pl. 37, figs 1-2), C.P.C. 6696 (Pl. 37, figs 3-4), C.P.C. 6697 (Pl. 37, figs 5-6), C.P.C. 6699 (text-fig. 24:5), C.P.C. 6700 (text-fig. 24:6), C.P.C. 6701 (text-fig. 24:7-8)—Hypotypes

C.P.C. 6698 (Pl. 37, fig. 7)—Horizontal section

Road cutting at new residence, N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

GIRALIARELLA TRAVESI Crespin, 1958; Belford, 1968.

Giraliarella travesi Crespin, 1958, p. 57, Pl. 9, figs 6-8; Belford, 1968, Pl. 2, figs 3-6.

C.P.C. 6848—Hypotype (Pl. 2, figs 3-4)
BMR 7, Core 5, 397-403 feet, Middalya Station, Carnarvon Basin, 88 miles NE of Carnarvon, in central-north part of Kennedy Range

C.P.C. 6949—Hypotype (Pl. 2, figs 5-6)
Locality same as above but from Core 8, at 701-711 feet

Permian

GIRALIARELLA TRILOBA Belford, 1961.

Giraliarella triloba Belford, 1961, p. 81, Pl. 3, figs 9-13.

C.P.C. 3856—Holotype (Pl. 3, figs 9-11)

C.P.C. 3857—Paratype A (Pl. 3, fig. 12)

C.P.C. 3858—Paratype B (Pl. 3, fig. 13)

BMR No. 9 Bore, Dauri Creek, Carnarvon Basin, core 11, at 1083-1093 feet
Callytharra Formation

Lower Permian

GIRALIARELLA TRILOBA Belford, 1961; 1968.

Giraliarella triloba Belford, 1961, p. 81, Pl. 3, figs 9-13; Belford, 1968, Pl. 2, figs 7-11.

C.P.C. 3856—Holotype refigured (Pl. 2, figs 7-9)

C.P.C. 3857—Paratype A (refigured) (Pl. 2, fig. 10)

C.P.C. 3858—Paratype B (refigured) (Pl. 2, fig. 11)

BMR 9, Core 11, at 1083-1093 feet, Dauri Creek, Coordewandy Station, Carnarvon Basin, W.A.

Callytharra Formation

Lower Permian

GLOBIGERINA AEQUILATERALIS Brady, 1884; Chapman, 1917.

See **GLOBIGERINELLA ASPERA** (Ehrenberg) Belford, 1960, p. 91.

Globigerina aequilateralis Brady, 1884, p. 605, Pl. 53, figs 18-21; Chapman, 1917, p. 38, Pl. 12, fig. 125.

C.P.C. 7046 (15)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

GLOBIGERINA ANGUSTIUMBILICATA Bolli, 1957; Jenkins, 1960.

Globigerina ciproensis angustiumbilocata Bolli, 1957a, p. 109, Pl. 22, figs 12-13.

Globigerina angustiumbilocata Bolli, Jenkins, 1960, p. 350, Pl. 1, figs 2a-c.

C.P.C. 4157—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 864 feet (*Globigerina woodi* zone, 996-808 feet)

Miocene

GLOBIGERINA BRADYI Wiesner, 1931; Jenkins, 1960.

Globigerina bradyi Wiesner, 1931, p. 133 (see Brady, 1884, *Globigerina* sp., p. 603, Pl. 82, figs 8-9); Jenkins, 1960, p. 350, Pl. 1, figs 3a-b.

C.P.C. 4158—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 624 feet (*Globigerinoides bispherica* zone, 632-616 feet)

Miocene

GLOBIGERINA BULLOIDES d'Orbigny, 1826; Chapman, 1917.

See **RUGOGLOBIGERINA (RUGOGLOBIGERINA) PILULA** Belford, 1960, p. 92.

Globigerina bulloides d'Orbigny, 1826, p. 277, No. 1, Modèles Nos 17, 26; Chapman, 1917, p. 43, Pl. 12, fig. 123.

C.P.C. 7046 (13)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

GLOBIGERINA BULLOIDES d'Orbigny, 1826; Belford, 1962.

Globigerina bulloides d'Orbigny, 1826, p. 277; Belford, 1962, p. 9, Pl. 1, figs 16-20

C.P.C. 4057—Hypotype A (Pl. 1, figs 16-18)

C.P.C. 4058—Hypotype B (Pl. 1, fig. 19)
Kisila village, E. of Josefstaal, Lower Ramu-Atitau area, New Guinea

C.P.C. 4059—Thin section (Pl. 1, fig. 20)
E of Moie, Josefstaal Subdistrict, Bogia District, New Guinea

Upper Miocene

GLOBIGERINA CIPEROENSIS Bolli,
subsp. **ANGUSTISUTURALIS** Bolli,
1957; Jenkins, 1960.

Globigerina ciproensis angustisuturalis
Bolli, 1957a, p. 109, Pl. 2, figs 11a-c.

Globigerina ciproensis Bolli, subsp. *angustisuturalis* Bolli, Jenkins, 1960, p. 350, Pl. 1, figs 4a-c.

C.P.C. 4160—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 988 feet (*Globigerina woodi* zone, 996-808 feet)

Miocene

GLOBIGERINA CIPEROENSIS Bolli,
subsp. **CIPEROENSIS** Bolli, 1954;
Jenkins, 1960.

Globigerina ciproensis Bolli, 1954, p. 1, text-figs 3, 3a-b.

Globigerina ciproensis Bolli, subsp. *ciproensis* Bolli, Jenkins, 1960, p. 350, Pl. 1, figs 5a-c.

C.P.C. 4159—Hypotype
Lakes Entrance Oil shaft, Gippsland, Victoria, at 1020 feet (*Globoquadrina dehiscens dehiscens* zone, 1144-1000 feet)

Miocene

GLOBIGERINA CONCINNA Reuss,
1850; Jenkins, 1960.

Globigerina concinna Reuss, 1850, p. 37, Pl. 47, fig. 8; Jenkins, 1960, p. 350, Pl. 1, figs 6a-c.

C.P.C. 4161—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 344 feet (*Globorotalia menardii* zone, 408-212 feet)

Miocene

GLOBIGERINA CRETACEA d'Orbigny,
1840; Chapman, 1917.

See **GLOBIGERINA CRETACEA**
d'Orbigny, Belford, 1960, p. 90; **RUGO-**
GLOBIGERINA (RUGOGLOBIGER-
INA) PILULA Belford, 1960, p. 62.

Globigerina cretacea d'Orbigny, 1840, p. 34, Pl. 3, figs 12-14; Chapman, 1917, p. 37, Pl. 11, fig. 102; Pl. 12, fig. 124.

C.P.C. 7045 (12) (Pl. 11, fig. 102),
C.P.C. 7046 (Pl. 12, fig. 124)—Hypotypes

One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

GLOBIGERINA CRETACEA d'Orbigny,
1840; Chapman, 1917; Belford, 1960.

Globigerina cretacea d'Orbigny, 1840, p. 34, Pl. 3, figs 12-14; Chapman, 1917, p. 43, Pl. 12, fig. 124 (not Pl. 11, fig. 102, D.J.B., 1960); Belford, 1960, p. 90, Pl. 25, figs 1-3.

C.P.C. 3386—Hypotype (Pl. 25, figs 1-3)
Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 14 feet above
base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GLOBIGERINA EAMESI Blow, 1959;
Jenkins, 1960.

Globigerina eamesi Blow, 1959, p. 176, Pl. 9, figs 39a-c; Jenkins, 1960, p. 350, Pl. 1, figs 7a-c.

C.P.C. 4162—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 1048 feet (*Globoquadrina dehiscens dehiscens* zone, 1144-1000 feet)

Miocene

GLOBIGERINA EUAPERTURA Jenkins,
1960.

Globigerina euapertura Jenkins, 1960, p. 351, Pl. 1, figs 8a-c.

C.P.C. 4163—Holotype
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 1188 feet (Pre-*Globoquadrina dehiscens dehiscens* zone, 1204-1148 feet)

Miocene

GLOBIGERINA FOLIATA Bolli, 1957; Jenkins, 1960.

Globigerina foliata Bolli, 1957a, p. 111, Pl. 24, figs 1a-c; Jenkins, 1960, p. 351, Pl. 1, figs 9a-c.

C.P.C. 4164—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 1124 feet (*Globoquadrina dehiscens dehiscens* zone, 1144-1000 feet)

Miocene

GLOBIGERINA GLUTINATA Egger, 1893; Belford, 1962.

Globigerina glutinata Egger, 1893, p. 371, Pl. 13, figs 19-21; Belford, 1962, p. 11, Pl. 2 (not Pl. 3, as in text), figs 10-16; text-fig. 2, 1-6 (C.P.C. Nos 6069-6074, should read 4069-4074)

C.P.C. 4065—Hypotype A (Pl. 2, figs 10-12)

C.P.C. 4066—Hypotype B (Pl. 2, fig. 13)

C.P.C. 4067—Hypotype C (Pl. 2, figs 4, 5)

C.P.C. 4068—Hypotype D (Pl. 2, fig. 16)

C.P.C. 4069—Hypotype E (text-fig. 2 (1))

C.P.C. 4070—Hypotype F (text-fig. 2 (2))

C.P.C. 4071—Hypotype G (text-fig. 2 (3))

C.P.C. 4072—Hypotype H (text-fig. 2 (4))

C.P.C. 4073—Hypotype I (text-fig. 2 (5))

C.P.C. 4074—Hypotype J (text-fig. 2 (6))

Pagansop village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea

Upper Miocene

GLOBIGERINA JUVENILIS Bolli, 1957; Jenkins, 1960.

Globigerina juvenilis Bolli, 1957a, p. 110, Pl. 24, figs 5a-6; Jenkins, 1960, p. 351, Pl. 1, figs 10a-c, 11a-c.

C.P.C. 4165—Hypotype A (Pl. 1, figs 10a-c)

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 968 feet

C.P.C. 4166—Hypotype B (Pl. 1, figs 11a-c)

Same locality as above but at 964 feet (both hypotypes from *Globigerina woodi* zone, 996-808 feet)

Miocene

GLOBIGERINA LINNEANA (d'Orbigny, 1839); Chapman, 1917.

See GLOBOTRUNCANA LAPPARENTI LAPPARENTI Brotzen, Belford, 1960, p. 96.

Rosalina linneana d'Orbigny, 1839a, p. 1101, Pl. 5, figs 10-12.

Globigerina linneana (d'Orbigny), Chapman, 1917, p. 44, Pl. 11, fig. 103.

C.P.C. 7045 (13)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

GLOBIGERINA MARGINATA (Reuss, 1846); Chapman, 1917.

See GLOBOTRUNCANA LAPPARENTI LAPPARENTI Brotzen, Belford, 1960, p. 96.

Rosalina marginata Reuss, 1846, p. 36, Pl. 8, figs 54, 74; Pl. 13, fig. 68.

Globigerina marginata (Reuss), Chapman, 1917, p. 44, Pl. 12, fig. 126.

C.P.C. 7046 (16)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

GLOBIGERINA MCKANNAI White, 1928; Belford, 1967.

Globigerina mckannai White, 1928, p. 194, Pl. 27, figs 16a-c; Belford, 1967a, p. 9, Pl. 4, figs 4-12.

C.P.C. 7224 (Pl. 4, figs 4-6), C.P.C. 7225 (Pl. 4, figs 7-8), C.P.C. 7226 (Pl. 4, figs 9-10)—Hypotypes

Section on Andebare River, about 2000 feet above base of measured section, SW of Laiagam, Western Highlands, New Guinea (Loc. 3d, F. 903)

Lagaip Beds

C.P.C. 7727—Hypotype (Pl. 4, figs 11-12)
Near Andebare River, about 24 miles WSW
of Laiagam, Western Highlands, New
Guinea (Loc. F. 342)
Lagaip Beds

Palaeocene

GLOBIGERINA PARVA Bolli, 1957;
Jenkins, 1960.

Globigerina parva Bolli, 1957a, p. 108, Pl.
22, figs 14a-c; Jenkins, 1960, p. 352,
Pl. 1, figs 12a-c.

C.P.C. 4167—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 1060 feet (*Globoquadrina*
dehiscens dehiscens zone, 1144-1000
feet)

Miocene

GLOBIGERINA PRAEBULLOIDES
Blow, 1959; Jenkins, 1960.

Globigerina praebulloides Blow, 1959, p.
180, Pl. 8, figs 47a-c; Pl. 9, fig. 48;
Jenkins, 1960, p. 352, Pl. 2, figs 1a-c.

C.P.C. 4168—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 900 feet (*Globigerina woodi*
zone, 996-808 feet)

Miocene

GLOBIGERINA SUBCRETACEA Lom-
nicki, 1901; Belford, 1962.

Globigerina subcretacea Lomnicki, 1901,
p. 17; Belford, 1962, p. 10, Pl. 2, figs
1-5.

C.P.C. 4060—Hypotype A (Pl. 2, figs 1-3)

C.P.C. 4061—Hypotype B (Pl. 2, fig. 4)
Kisila village, E of Josefstaal, Lower Ramu-
Atitau area, New Guinea

C.P.C. 4062—Horizontal section (Pl. 2,
fig. 5)
2 miles E of Josefstaal, Lower Ramu-
Atitau area

Upper Miocene

GLOBIGERINA sp. cf. G. EAMESI Blow,
1959; Belford, 1962.

Globigerina eamesi Blow, 1959, p. 176, Pl.
9, figs 39a-c.

Globigerina sp. cf. *G. eamesi* Blow, Belford,
1962, p. 10, Pl. 2, figs 6-9.

C.P.C. 4063—Figured specimen A (Pl. 2,
figs 7, 8)

Kisila village, E of Josefstaal, Lower Ramu-
Atitau area, New Guinea

C.P.C. 4062—Figured specimen B (Pl. 2,
fig. 9)

Pagansop village, NNE of Josefstaal, Lower
Ramu-Atitau area

Upper Miocene

GLOBIGERINA sp. Belford, 1967.

Globigerina sp. Belford, 1967a, Pl. 4, figs
20, 21.

C.P.C. 7232—sections from limestone
Limestone section at Tibini, WNW of
Laiagam, Western Highlands, New
Guinea (Loc. 4e, F. 917)

Lagaip Beds

Palaeocene

GLOBIGERINA WOODI Jenkins, 1960.

Globigerina woodi Jenkins, 1960, p. 352,
Pl. 2, figs 2a-c.

C.P.C. 4169—Holotype
Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 900 feet (*Globigerina woodi*
zone, 996-808 feet)

Miocene

GLOBIGERINELLA ASPERA (Ehren-
berg, 1854); Belford, 1960.

See **GLOBIGERINA AEQUILATERALIS**
Brady, Chapman, 1917.

Phanerostomum asperum Ehrenberg, 1854,
p. 23, Pl. 30, figs 26a-c; Pl. 32 (group
1), fig. 24; Pl. 32 (group), fig. 42.

Globigerina aequilateralis Brady, Chapman,
1917, p. 44, Pl. 12, fig. 125.

Globigerinella aspera (Ehrenberg), Belford,
1960, p. 91, Pl. 25, figs 4-6.

C.P.C. 3387—Hypotype (Pl. 25, figs 4, 5)
Quarry, One Tree Hill, near Gingin, Perth
Basin, W.A., 32 feet above base
Gingin Chalk

C.P.C. 3388—Hypotype (Pl. 25, fig. 6)
Scarp near emergency airfield, Murchison
River area, Carnarvon Basin, W.A., 3
feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GLOBIGERINATELLA (?) sp. Jenkins,
1960.

Globigerinatella (?) sp. Jenkins, 1960,
p. 354, Pl. 2, figs 10a-c.

C.P.C. 4177—Figured specimen
Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 632 feet (*Globigerinoides trilobus*
trilobus zone, 804-632 feet)

Miocene

**GLOBIGERINOIDES APERTASU-
TURALIS** Jenkins, 1960.

Globigerinoides apertasuturalis Jenkins,
1960, p. 352, Pl. 2, figs 3a-c.

C.P.C. 4170—Holotype
Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 816 feet (*Globigerina woodi*
zone, 996-808 feet)

Miocene

GLOBIGERINOIDES BISPHERICA
Todd, 1954; Jenkins, 1960.

Globigerinoides bispherica Todd, 1954,
p. 681, Pl. 1 figs 1a-c, 4; Jenkins, 1960,
p. 353, Pl. 2, figs 4a-c.

C.P.C. 4171—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 608 feet (*Globorotalia menardii*
zone, 612-604 feet)

Miocene

GLOBIGERINOIDES BOLLI Blow, 1959;
Belford, 1962.

Globigerinoides bolli Blow, 1959, p. 189,
Pl. 10, figs 95a-c; Belford, 1962, p. 20,
Pl. 5, figs 7-10.

C.P.C. 4107 (not C.P.C. 7 as in explanation
of plate)—Hypotype A (Pl. 5, figs 7-9)

C.P.C. 4108—Hypotype B (Pl. 5, fig. 10)
E of Karova Creek, Kerema-Karova area,
Papua

Middle Miocene

GLOBIGERINOIDES CONGLOBATUS
(Brady, 1879); Belford, 1962.

Globigerina conglobatus Brady, 1879b,
p. 268.

Globigerinoides conglobatus (Brady), Bel-
ford, 1962, p. 18, Pl. 4, figs 15-20; text-
fig. 3, 1-6.

C.P.C. 4094—Hypotype A (Pl. 4, figs
15-17)

C.P.C. 4095—Hypotype B (Pl. 4, fig. 18)

C.P.C. 4096—Hypotype C (Pl. 4, figs
19-20)

C.P.C. 4097—text-fig. 3 (1)

C.P.C. 4089—text-fig. 3 (2)

C.P.C. 4099—text-fig. 3 (3)

C.P.C. 4100—text-fig. 3 (4)

C.P.C. 4101—text-fig. 3 (5)

C.P.C. 4102—text-fig. 3 (6)

Kisila village, E of Josefstaal, Lower Ramu-
Atitau area, New Guinea

Upper Miocene

GLOBIGERINOIDES OBLIQUUS Bolli,
1957; Belford, 1962.

Globigerinoides obliquus Bolli, 1957a,
p. 113, Pl. 125, figs 9a-c; Belford, 1962,
p. 20, Pl. 5, figs 11-14.

C.P.C. 4109—Hypotype A (Pl. 5, figs
11-13)

C.P.C. 4410—Hypotype B (Pl. 5, fig. 14)
E of Karova Creek, Kerema-Karova area,
Papua

Middle Miocene

GLOBIGERINOIDES QUADRILOBATUS (d'Orbigny) **FISTULOSUS** (Schubert, 1910); Belford, 1962.

Globigerina fistulosa Schubert, 1910. p. 101, figs 13a-c.

Globigerinoides quadrilobatus (d'Orbigny) *fistulosus* (Schubert), Belford, 1962, p. 16, Pl. 4, figs 7-10.

C.P.C. 4090—Hypotype A (Pl. 4, fig. 7)

C.P.C. 4091—Hypotype B (Pl. 4, figs 8-10)
Nagam River, W of Periam village, Wewak Subdistrict, Sepik District, New Guinea

Uppermost Miocene or Pliocene

GLOBIGERINOIDES QUADRILOBATUS (d'Orbigny) **HYSTRICOSUS** Belford, 1962.

Globigerinoides quadrilobatus (d'Orbigny) *hystricosus* Belford, 1962, p. 17, Pl. 4, figs 11-14.

C.P.C. 4092—Holotype of subspecies (Pl. 4, figs 11-13)

C.P.C. 4093—Paratype (Pl. 4, fig. 14)
Nagam River W of Periam village, Wewak Subdistrict, Sepik District, New Guinea

Uppermost Miocene or Pliocene

GLOBIGERINOIDES QUADRILOBATUS (d'Orbigny) **IMMATURUS** LeRoy, 1939; Belford, 1962.

Globigerinoides sacculiferus (Brady) var. *immatura* LeRoy, 1939, p. 263, Pl. 3, figs 19-21.

Globigerinoides quadrilobatus (d'Orbigny) *immaturus* LeRoy, Belford, 1962, p. 13, Pl. 2, figs 22-24; Pl. 3, figs 1-4.

C.P.C. 4077—Hypotype A (Pl. 2, figs 22-25)

C.P.C. 4078—Hypotype B (Pl. 3, figs 1-2)

C.P.C. 4079—Hypotype C (Pl. 3, fig. 3)

C.P.C. 4080—Hypotype D (Pl. 3, fig. 4)
Pagansop village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea

Upper Miocene

GLOBIGERINOIDES QUADRILOBATUS (d'Orbigny) **IRREGULARIS** LeRoy, 1944; Belford, 1962.

Globigerinoides sacculiferus (Brady), var. *irregularis* LeRoy, 1944, p. 40.

Globigerinoides quadrilobatus (d'Orbigny) *irregularis* LeRoy, Belford, 1962, p. 14, Pl. 3, figs 9-13.

C.P.C. 4083—Hypotype A (Pl. 3, figs 9-11)

C.P.C. 4084—Hypotype B (Pl. 3, fig. 12)

C.P.C. 4085—Hypotype C (Pl. 3, fig. 13)
2 miles E of Josefstaal, Lower Ramu-Atitau area, New Guinea

Upper Miocene

GLOBIGERINOIDES QUADRILOBATUS QUADRILOBATUS (d'Orbigny, 1846); Belford, 1962.

Globigerina quadrilobata d'Orbigny, 1846, p. 163, Pl. 9, figs 7-10.

Globigerinoides quadrilobatus quadrilobatus (d'Orbigny), Belford, 1962, p. 12, Pl. 2, figs 17-21.

C.P.C. 4075—Hypotype A (Pl. 2, figs 17-20)

C.P.C. 4076—Hypotype B (Pl. 2, fig. 21)
Pagansop village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea

Upper Miocene

GLOBIGERINOIDES QUADRILOBATUS (d'Orbigny) **SACCULIFER** (Brady, 1877); Belford, 1962.

Globigerina sacculifera Brady, 1877, p. 535.

Globigerinoides quadrilobatus (d'Orbigny) *sacculifer* (Brady), Belford, 1962, p. 15, Pl. 3, figs 14-16, Pl. 4, figs 1-6.

C.P.C. 4086—Hypotype A (Pl. 3, figs 14-16)

C.P.C. 4087—Hypotype B (Pl. 4, figs 1-4)

C.P.C. 4088—Hypotype C (Pl. 4, fig. 5)

C.P.C. 4089—Hypotype D (Pl. 4, fig. 6)
2 miles E of Josefstaal, Lower Ramu-Atitau area, New Guinea

Upper Miocene

GLOBIGERINOIDES QUADRILOBATUS (d'Orbigny) **TRILOBUS** (Reuss, 1850); Belford, 1962.

Globigerina triloba Reuss, 1850, p. 374, Pl. 47, figs 11a-c.

Globigerinoides quadrilobatus (d'Orbigny) *trilobus* (Reuss), Belford, 1962, Pl. 3, figs 5-8.

C.P.C. 4081—Hypotype A (Pl. 3, figs 5-7)

C.P.C. 4082—Hypotype B (Pl. 3, fig. 8)

E of Karova Creek, Kerema-Karova Creek area, Papua

Middle Miocene

GLOBIGERINOIDES RUBER (d'Orbigny, 1834); Belford, 1962.

Globigerina rubra d'Orbigny, 1834, p. 82, Pl. 4, figs 12-14.

Globigerinoides ruber (d'Orbigny), Belford, 1962, p. 19, Pl. 5, figs. 1-6.

C.P.C. 4103—Hypotype A (Pl. 5, figs 1-3)

C.P.C. 4104—Hypotype B (Pl. 5, fig. 4)

E of Atemble, Lower Ramu-Afitau area, New Guinea

Pliocene

C.P.C. 4105—Hypotype C (Pl. 5, fig. 5)

Pagansop, NNE of Josefstaal, Lower Ramu-Afitau area, New Guinea

C.P.C. 4106—Hypotype D (Pl. 5, fig. 6)

E of Moie, Josefstaal Subdistrict, Bogia District, New Guinea

Upper Miocene

GLOBIGERINOIDES RUBRA (d'Orbigny, 1839); Jenkins, 1960.

Globigerina rubra d'Orbigny, 1839, p. 82, Pl. 4, figs 12-14.

Globigerinoides rubra (d'Orbigny), Jenkins, 1960, p. 353, Pl. 2, figs 8a-c, 9a-c.

C.P.C. 4172 (Pl. 2, figs 8a-c), C.P.C. 4173 (Pl. 2, figs 9a-c)—Hypotypes

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 592 feet (*Candorbulina glomerosa curva* zone, 600-592 feet)

Miocene

GLOBIGERINOIDES TRILOBA (Reuss) subsp. **ALTIAPERTURA** Bolli, 1957; Jenkins, 1960.

Globigerinoides triloba altiapertura Bolli, 1957a, p. 113, Pl. 25, figs 7a-8, text-fig. 21, No. 3.

Globigerinoides triloba (Reuss) subsp. *altiapertura* Bolli, Jenkins, 1960, p. 353, Pl. 2, figs 6a-c.

C.P.C. 4175—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 348 feet (*Globorotalia menardii miotumida* zone, 408-212 feet)

Miocene

GLOBIGERINOIDES TRILOBA (Reuss) var. **IMMATURA** LeRoy, 1939; Jenkins, 1960.

Globigerinoides sacculiferus (Brady) var. *immatura* LeRoy, 1939, p. 263, Pl. 3, figs 19-21.

Globigerinoides triloba (Reuss) var. *immatura* LeRoy, Jenkins, 1960, p. 353, Pl. 2, figs 7a-c.

C.P.C. 4176—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 604 feet (*Globorotalia menardii praemenardii* zone, 612-604 feet)

Miocene

GLOBIGERINOIDES TRILOBA (Reuss) subsp. **TRILOBA** Reuss, 1850; Jenkins, 1960.

Globigerina triloba Reuss, 1850, p. 374, Pl. 4, figs 11a-d.

Globigerinoides triloba (Reuss) subsp. *triloba* Reuss, Jenkins, 1960, p. 353, Pl. 2, figs 5a-c.

C.P.C. 4174—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 600 feet (*Candorbulina glomerosa curva* zone, 600-592 feet)

Miocene

GLOBOBULIMINA sp. A Belford, 1966

Globobulimina sp. A Belford, 1966, Pl. 7, figs 1-2.

C.P.C. 6290 (Pl. 7, fig. 1), C.P.C. 6291 (Pl. 7, fig. 2)—Figured specimens NW flank of Wira Anticline, Puri-Purari River area, Papua, at base of section (Loc. 13a, Map 5)

Upper Miocene

GLOBOCASSIDULINA BICORNIS (Brady, 1888); Belford, 1966.

Ehrenbergina bicornis Brady, 1888, p. 5, Pl. 1, figs 8a-b.

Globocassidulina bicornis (Brady), Belford, 1966, p. 154, Pl. 25, figs 17-18.

C.P.C. 6567—Hypotype E of Karova Creek, Kerema-Karova Creek area, Papua (Loc. 7, Map 3)

Middle Miocene

GLOBOCASSIDULINA CRASSA (d'Orbigny, 1839); Belford, 1966.

Cassidulina crassa d'Orbigny, 1839c, p. 56, Pl. 7, figs 18-20.

Globocassidulina crassa (d'Orbigny), Belford, 1966, p. 151, Pl. 26, figs 5-9; text-fig. 17:9-10.

C.P.C. 6559 (Pl. 26, figs 5-7), C.P.C. 6560 (Pl. 26, figs 8-9)—Hypotypes Nagam River W of Periamia village, Wewak subdistrict, Sepik district (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6561 (text-fig. 17:9-10)—Hypotype Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

GLOBOCASSIDULINA GEMMA (Todd, 1954); Belford, 1966.

Cassidulina gemma. Todd, 1954, p. 366 Pl. 90, figs 26-27.

Globocassidulina gemma (Todd), Belford, 1966, p. 147, Pl. 24, figs 22-25; text-fig. 16:11-12.

C.P.C. 6538 (Pl. 24, figs 22-24), C.P.C. 6540 (text-fig. 16: 11-12)—Hypotypes Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

C.P.C. 6539 (Pl. 24, fig. 25)—Hypotype Pagansop village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 40, Map 8)

Upper Miocene

GLOBOCASSIDULINA MURRHYN (Schwager, 1866); Belford, 1966.

Sphaeroidina murrhyna Schwager, 1866, p. 250, Pl. 7, fig. 97.

Globocassidulina murrhyna (Schwager), Belford, 1966, p. 15, Pl. 26, figs 10-13; text-fig. 17:11-12; text-fig. 18:5.

C.P.C. 6562 (Pl. 26, figs 10-12), C.P.C. 6563 (Pl. 26, fig. 13), C.P.C. 6564 (text-fig. 17:11), C.P.C. 6565 (text-fig. 17:12)—Hypotypes

C.P.C. 6566 (text-fig. 18:5)—section showing pores

Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

GLOBOCASSIDULINA OBLONGA (Reuss, 1850); Belford, 1966.

Cassidulina oblonga Reuss, 1850, p. 376, Pl. 48, figs 5a-b; 6a-b.

Globocassidulina oblonga (Reuss), Belford, 1966, p. 150, Pl. 26, figs 1-4; text-fig. 17:7-8.

C.P.C. 6556 (Pl. 26, figs 1-3), C.P.C. 6557 (Pl. 26, fig. 4)—Hypotypes W of Yangoru, Maprik subdistrict, Sepik district, New Guinea (Loc. 31, Map 8)

C.P.C. 6558 (text-fig. 17:7-8)—Hypotype E of Yekimbolje Village, Maprik subdistrict, Sepik district (Loc. 30, Map 8)

Upper Miocene

GLOBOCASSIDULINA ORIANGULATA

Belford, 1966.

Globocassidulina oriangulata Belford, 1966, p. 148, Pl. 25, figs 1-5; text-fig. 16: 13-14.

C.P.C. 6541—Holotype (Pl. 25, figs 1-3)

C.P.C. 6542—Paratype (Pl. 25, figs 4-5)

Nuru Valley, New Guinea between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

C.P.C. 6543—Paratype (text-fig. 16: 13-14)

E of Yekimbolje Village, Maprik subdistrict, Sepik district, New Guinea (Loc. 30, Map 8)

Upper Miocene**GLOBOCASSIDULINA ORIBUNDA**

Belford, 1966.

Globocassidulina oribunda Belford, 1966, p. 148, Pl. 25, figs 6-10; text-fig. 16:15-16

C.P.C. 6544—Holotype (Pl. 25, figs 6-8)

C.P.C. 6545—Paratype (Pl. 25, figs 9-10)

C.P.C. 6546—Paratype (text-fig. 16:15-16)
Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)**Upper Miocene****GLOBOCASSIDULINA ORNATA** (Cushman, 1927); Belford, 1966.*Cassidulina subglobosa* Brady var. *ornata* Cushman, 1927b, p. 167, Pl. 6, fig. 6.*Globocassidulina ornata* (Cushman), Belford, 1966, p. 146, Pl. 24, figs 19-21, text-fig. 16:9-10.

C.P.C. 6535 (Pl. 24, figs 19, 20),

C.P.C. 6536 (Pl. 24, fig. 21), C.P.C. 6537 (text-fig. 16:9-10)—Hypotypes

Pagansop Village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 40, Map 8)

Upper Miocene**GLOBOCASSIDULINA SUBGLOBOSA**

(Brady, 1881); Belford, 1966.

Cassidulina subglobosa Brady, 1881, p. 60; 1884, p. 430, Pl. 54, figs 17a-c.*Globocassidulina subglobosa* (Brady), Belford, 1966, p. 149, Pl. 25, figs 11-16, text-fig. 17:1-6; text-fig. 18:1-4.

C.P.C. 6547 (Pl. 25, figs 11-13), C.P.C.

6548 (Pl. 25, figs 14-15, not 16 as on

Pl. 25), C.P.C. 6549 (Pl. 25, fig. 16),

C.P.C. 6549 fig. 16 omitted on Pl. 25),

C.P.C. 6551 (text-fig. 17:3-4), C.P.C.

6552 (text-fig. 17:5-6), C.P.C. 6554

(text-fig. 18:3), C.P.C. 6555 (text-fig.

18:4)—Hypotypes

Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

C.P.C. 6550 (text-fig. 17:1-2)—Hypotype

C.P.C. 6553 (text-fig. 18:1-2)—sections of pores

'Challenger' station 120 off Pernambuco

Recent**GLOBOQUADRINA ALTISPIRA** (Cushman & Jarvis, 1936), **subsp. ALTISPIRA**

Cushman & Jarvis) Jenkins, 1960.

Globigerina altispira Cushman & Jarvis, 1936, p. 5, Pl. 1, figs 13a-c; 14.*Globoquadrina altispira* (Cushman & Jarvis) subsp. *altispira* Cushman & Jarvis, Jenkins, 1960, p. 355, Pl. 3, figs 5a-c.

C.P.C. 4180—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 684 feet (*Globigerinoides triloba triloba* zone, 804-622 feet)**Miocene****GLOBOQUADRINA ALTISPIRA ALTI-****SPIRA** (Cushman & Jarvis, 1936); Belford, 1962.*Globigerina altispira* Cushman & Jarvis, 1936, p. 5, Pl. 1, figs 13a-c; 14 (p. 5 omitted in text and Plate a should read Pl. 1).

Globoquadrina altispira altispira (Cushman & Jarvis), Belford, 1962, p. 21, Pl. 5, figs 19-24.

C.P.C. 4114—Hypotype A (Pl. 5, figs 19-21)

C.P.C. 4115—Hypotype B (Pl. 5, figs 22, 23)

C.P.C. 4116—Hypotype C (Pl. 5, fig. 24)
Nagam River, W of Periana village, Wewak Subdistrict, Sepik District, New Guinea

Uppermost Miocene or Pliocene

GLOBOQUADRINA DEHISCENS (Chapman, Parr, & Collins, 1935) subsp. **ADVENA** Bermudez, 1949; Jenkins, 1960.

Globoquadrina quadriana Cushman & Ellisor var. *advena* Bermudez, 1949, p. 287, Pl. 22, figs 36-38.

Globoquadrina dehiscens (Chapman, Parr, & Collins) subsp. *advena* Bermudez, Jenkins, 1960, p. 355, Pl. 3, figs 4a-c.

C.P.C. 4179—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 696 feet (*Globigerinoides triloba triloba* zone, 804-632 feet)

Miocene

GLOBOQUADRINA DEHISCENS (Chapman, Parr, & Collins) subsp. **DEHISCENS** (Chapman, Parr, & Collins, 1935); Jenkins, 1960.

Globorotalia dehiscens Chapman, Parr, & Collins, 1935, p. 569, Pl. 11, figs 36a-c.

Globoquadrina dehiscens (Chapman, Parr, & Collins) subsp. *dehiscens* (Chapman, Parr, & Collins), Jenkins, 1960, p. 354, Pl. 3, figs 3a-c.

C.P.C. 4178—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 1144 feet (*Globoquadrina dehiscens dehiscens* zone, 1144-1000 feet)

Miocene

GLOBOQUADRINA LARMUEI Akers, 1955; Jenkins, 1960.

Globoquadrina larmuei Akers, 1955, p. 661, Pl. 65, figs 2A-C; Jenkins, 1960, p. 355, Pl. 3, figs 1a-c, 2a-c.

C.P.C. 4181—Hypotype (Pl. 3, figs. 1a-c)
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 1036 feet (*Globoquadrina dehiscens dehiscens* zone, 1144-1000 feet)

C.P.C. 4182—Hypotype (Pl. 3, figs 2a-c)
Same locality as above but at 636 feet (*Globigerinoides triloba triloba* zone, 804-632 feet)

Miocene

GLOBOQUADRINA VENEZUELANA (Hedberg, 1937); Belford, 1962.

Globigerina venezuelana Hedberg, 1937, p. 681, Pl. 92, figs 7a-b.

Globoquadrina venezuelana (Hedberg), Belford, 1962, p. 22, Pl. 6, figs 1-6.

C.P.C. 4117—Hypotype A (Pl. 6, figs 1-3)

C.P.C. 4118—Hypotype B (Pl. 6, figs 4, 5)

C.P.C. 4119—Horizontal section (Pl. 6, fig. 6)

Pagansop village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea

Upper Moicene

GLOBOQUADRINA sp. Belford, 1962.

Globoquadrina sp. Belford, 1962, p. 22, Pl. 6, figs 7-11.

C.P.C. 4120—Figured specimen (Pl. 6, figs 7-9)

C.P.C. 4121—Figured specimen (Pl. 6, fig. 10)

C.P.C. 4122—Horizontal section (Pl. 6, fig. 11)

About 1 mile N of mouth of Masaweng River, N of Finschhafen, New Guinea

Upper Miocene

GLOBOROTALIA ACOSTAENSIS Blow,
1959; Jenkins, 1960.

Globorotalia acostaensis Blow, 1959, p. 208,
Pl. 17, figs 106a-c; 107; Jenkins, 1960,
p. 358, Pl. 4, figs 1a-c.

C.P.C. 4190—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 224 feet (*Globorotalia menardii*
miotumida zone, 408-212 feet)

Miocene

GLOBOROTALIA AEQUA AEQUA
Cushman & Renz, 1942; Belford, 1967.

Globorotalia crassata var. *aequa* Cushman
& Renz, 1942, p. 12, Pl. 3, figs 3a-c.

Globorotalia aequa aequa Cushman & Renz,
Belford, 1967a, p. 13, Pl. 2, figs 13-18.

C.P.C. 7208 (Pl. 2, figs 13-15), C.P.C.
7209 (Pl. 2, figs 16-18)—Hypotypes
Section at Tibinini, Western Highlands, New
Guinea, about 400 feet above base of
measured section (Loc. 4a, F. 915)

Lagaip Beds

Palaeocene

GLOBOROTALIA ARCHEOMENARDII
Bolli, 1957; Belford, 1967.

Globorotalia archeomenardii Bolli, 1957a,
p. 119, Pl. 28, figs 11a-c; Belford, 1967b,
p. 38, Pl. 5, figs 6-8.

C.P.C. 7236—Hypotype

On sea-cliff, 250 yards N of the L.M.S. Mis-
sion, Delena, Papua (Loc. 3, see Belford,
1966)

Lower Miocene (Burdalian)

GLOBOROTALIA BARISANENSIS
LeRoy, 1939; Jenkins, 1960.

Globorotalia barisanensis LeRoy, 1939,
p. 265, Pl. 1, figs 8-10; Jenkins, 1960,
p. 358, Pl. 4, figs 2a-c.

C.P.C. 4191—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 512 feet (*Orbulina universa*
zone, 568-452 feet)

Miocene

GLOBOROTALIA CHAPMANI Parr,
1938; Belford, 1967.

Globorotalia chapmani, Parr, 1938, p. 87,
Pl. 3, figs 8-9; Belford, 1967a, p. 12, Pl.
2, figs 1-6.

C.P.C. 7204 (Pl. 2, figs 1-3), C.P.C. 7205
(Pl. 2, figs 4-6)—Hypotypes

Section on Andebare River, about 4000 feet
above base of measured section, SW of
Laiagam, Western Highlands, New Guinea
(Loc. 3d, F. 903)

Lagaip Beds

Palaeocene

GLOBOROTALIA CONCINNA Jenkins,
1960.

Globorotalia concinna Jenkins, 1960, p. 358,
Pl. 4, figs 3a-c.

C.P.C. 4192—Holotype

Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 576 feet (*Candorbulina*
glomerosa circularis zone, 588-572 feet)

Miocene

GLOBOROTALIA CRASSAFORMIS
(Galloway & Wissler, 1927); Belford,
1967.

Globigerina crassaformis Galloway &
Wissler, 1927, p. 41, Pl. 7, fig. 12.

Globorotalia crassaformis (Galloway &
Wissler), Belford, 1967b, p. 37, Pl. 5,
figs 1-3.

C.P.C. 7234 (Pl. 5, figs 1-3), C.P.C. 7235
(Pl. 5, figs 4-5)—Hypotypes

2 miles E of Josefstaal, Lower Ramu-Atitau
area, New Guinea (Loc. 38, Belford,
1966)

Upper Miocene

GLOBOROTALIA CULTRATA
(d'Orbigny, 1839); Belford, 1962.

Rotalina (Rotalina) cultrata d'Orbigny,
1839, p. 76; Pl. 5, figs 7-9.

Globorotalia cultrata (d'Orbigny), Belford,
1962, p. 24, Pl. 6, figs 18-22.

C.P.C. 4127—Hypotype A (Pl. 6, figs 18-20)

C.P.C. 4128—Hypotype B (Pl. 6, figs 21, 22)

At Atemble, Lower Ramu-Atitau area, New Guinea

Pliocene

GLOBOROTALIA EXTANS Jenkins, 1960.

Globorotalia extans Jenkins, 1960, p. 360, Pl. 4, figs 4a-c; 5a-c.

C.P.C. 4193—Holotype (Pl. 4, figs 4a-c)

C.P.C. 4194—Paratype (Pl. 4, figs 5a-c) (designated I.C.)

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 1124 feet (*Globoquadrina dehiscens dehiscens* zone, 1144-1000 feet)

Miocene

GLOBOROTALIA FOHSI FOHSI Cushman & Ellisor, 1939; Belford, 1962.

Globorotalia fohsi Cushman & Ellisor, 1939, p. 12, Pl. 2, fig. 6.

Globorotalia fohsi fohsi Cushman & Ellisor, Belford, 1962, p. 28, Pl. 8, figs 7-11.

C.P.C. 4140—Hypotype A (Pl. 8, figs 7-9)

C.P.C. 4141—Hypotype 8 (Pl. 8, figs 10, 11)

Hells Gate Creek, about $\frac{1}{2}$ mile from junction with Tauri River, Papua

Lower Miocene

GLOBOROTALIA FOHSI Cushman & Ellisor, **BARISANENSIS** LeRoy, 1939; Belford, 1962.

Globorotalia barisanensis LeRoy, 1939, p. 265, Pl. 1, figs 8-10.

Globorotalia fohsi Cushman & Ellisor, *barisanensis* LeRoy, Belford, 1962, p. 28, Pl. 8, figs 1-6.

C.P.C. 4137—Hypotype A (Pl. 8, figs 1-3) Upper Maipora Creek, W of Saw Mountains, Papua

Middle Miocene

C.P.C. 4138—Hypotype B (Pl. 8, figs 4, 5)

C.P.C. 4139—Hypotype C (Pl. 8, fig. 6)

W of wharf at Roman Catholic Mission, Yule Island Papua

Lower Miocene

GLOBOROTALIA HIRSUTA (d'Orbigny, 1839); Belford, 1962.

Rotalina hirsuta d'Orbigny, 1839, p. 131, Pl. 1, figs 37-39.

Globorotalia hirsuta (d'Orbigny), Belford, 1962, p. 27, Pl. 7, figs 16-21.

C.P.C. 4135—Hypotype A (Pl. 7, figs 16, 17)

C.P.C. 4136—Hypotype B (Pl. 7, figs 18-21)

Sample from Tubu Siltstone, Tubu area, Papua

Upper Miocene

GLOBOROTALIA MAYERI Cushman & Ellisor, 1939; Jenkins, 1960.

Globorotalia mayeri Cushman & Ellisor, 1939, p. 11, Pl. 2, figs 4a-c; Jenkins, 1960, p. 360, Pl. 4, figs 6a-c.

C.P.C. 4195—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 444 feet (*Globorotalia mayeri* zone 448-412 feet)

Miocene

GLOBOROTALIA MENARDII (d'Orbigny, 1826), **subsp. MENARDII** d'Orbigny, Jenkins, 1960.

Rotalia (Rotalia) menardii d'Orbigny, 1826, p. 275, modèle No. 10.

Globorotalia menardii (d'Orbigny), subsp. *menardii* d'Orbigny, Jenkins, 1960, p. 362, Pl. 4, figs 8a-c.

C.P.C. 4197—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 276 feet (*Globorotalia menardii* *miotumida* zone, 276-228 feet)

Miocene

GLOBOROTALIA **MENARDII**
(d'Orbigny), **subsp. MIOCENICA**
Palmer, 1945; Jenkins, 1960.

Globorotalia menardii (d'Orbigny) **subsp. miocenica** Palmer, 1945, p. 70, figs 10a-c; Jenkins, 1960, p. 362, Pl. 4, figs 7a-c.

C.P.C. 4196—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 428 feet (*Globorotalia menardii* *miotumida* zone, 428-228 feet)

Miocene

GLOBOROTALIA **MENARDII**
(d'Orbigny) **subsp. MIOTUMIDA** Jenkins, 1960.

Globorotalia menardii (d'Orbigny) **subsp. miotumida** Jenkins, 1960, p. 362, Pl. 4, figs 9a-c.

C.P.C. 4198—Holotype of subspecies
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 380 feet (*Globorotalia menardii* *miotumida* zone 408-212 feet) (see p. 348, also in text p. 362, zone is 408-170-200 feet)

Miocene

GLOBOROTALIA **MENARDII**
(d'Orbigny), **subsp. PANDA** Jenkins, 1960.

Globorotalia menardii (d'Orbigny), **subsp. panda** Jenkins, 1960, p. 364, Pl. 4, figs 10a-c.

C.P.C. 4199—Holotype of subspecies
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 408 feet (*Globorotalia menardii* *miotumida* zone, 408-212 feet)

Miocene

GLOBOROTALIA **MENARDII**
(d'Orbigny), **subsp. PRAEMENARDII**
Cushman & Stainforth, 1945, Jenkins, 1960.

Globorotalia praemenardii Cushman & Stainforth, 1945, p. 70, Pl. 13, figs 13a-c.

Globorotalia menardii (d'Orbigny), **subsp. praemenardii** Cushman & Stainforth, Jenkins, 1960, p. 364, Pl. 5, figs 1a-c.

C.P.C. 4200—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 608 feet (*Globorotalia menardii* *praemenardii* zone, 612-604 feet)

Miocene

GLOBOROTALIA OBESA Bolli, 1957; Jenkins, 1960.

Globorotalia obesa Bolli, 1957a, p. 119, Pl. 29, figs 2a-c; 3; Jenkins, 1960, p. 364, Pl. 5, figs 2a-c.

C.P.C. 4201—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 1120 feet (*Globoquadrina dehiscens dehiscens* zone, 144-1000 feet)

Miocene

GLOBOROTALIA OPIMA Bolli, **subsp. CONTINUOSA** Blow, 1959; Jenkins, 1960.

Globorotalia opima Bolli, **subsp. continuosa** Blow, 1959, p. 218, Pl. 19, figs 125a-c; Jenkins, 1960, p. 366, Pl. 5, figs 4a-c, 5a-c.

C.P.C. 4203—Hypotype (Pl. 5, figs 4a-c)
Lakes Entrance Oil Shaft, Gippsland, Victoria, at 816 feet (*Globigerina woodi* zone, 996-808 feet)

C.P.C. 4204—Hypotype (Pl. 5, figs 5a-c)
Same locality as above, but at 348 feet (*Globorotalia menardii* *miotumida* zone, 408-212 feet)

Miocene

GLOBOROTALIA OPIMA Bolli, **subsp. OPIMA** Bolli, 1957; Jenkins, 1960.

Globorotalia opima opima Bolli, 1957a, p. 117, Pl. 28, figs 1a-c; 2.

Globorotalia opima Bolli, **subsp. opima** Bolli, Jenkins, 1960, p. 366, Pl. 5, figs 3a-c.

C.P.C. 4202—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Victoria at 1164 feet (*Pre-Globoquadrina dehiscens dehiscens* zone, 1204-1148 feet)

Miocene

GLOBOROTALIA PASIONENSIS (Bermudez, 1961); Belford, 1967.

Pseudogloborotalia pasionensis Bermudez, 1961, p. 1345, Pl. 16, figs 8a-b.

Globorotalia pasionensis (Bermudez), Belford, 1967a, p. 15, Pl. 3, figs 1-9.

C.P.C. 7214 (Pl. 3, figs 1-3), C.P.C. 7215 (Pl. 3, figs 4-6), C.P.C. 7216 (Pl. 3, figs 7-8)—Hypotypes

Section at Tibinini, about 350 feet above base of measured section, WNW of Laiagam, Western Highlands, New Guinea (Loc. 4, F. 914)

Lagaip Beds

Palaeocene

GLOBOROTALIA PSEUDOMENARDII Bolli, 1957; Belford, 1967.

Globorotalia pseudomenardii Bolli, 1957b, p. 77, Pl. 20, figs 14-17; Belford, 1967a, p. 10, Pl. 1, figs 12-23.

C.P.C. 7199 (Pl. 1, figs 13-15), C.P.C. 7200 (Pl. 1, figs 16-17)—Hypotypes

Section on Andebare River, about 2000 feet above base of measured section, SW of Laiagam, Western Highlands, New Guinea (Loc. 3d, F. 903)

Lagaip Beds

C.P.C. 7201 (Pl. 1, figs 18-20), C.P.C. 7202 (Pl. 1, figs 21-23)—Hypotypes

Section at Tibinini, about 400 feet above base of measured section, WNW of Laiagam, Western Highlands, New Guinea (Loc. 4c, F. 915)

Lagaip Beds

Palaeocene

GLOBOROTALIA PUSILLA PUSILLA Bolli, 1957; Belford, 1967.

Globorotalia pusilla pusilla Bolli, 1957b, p. 78, Pl. 20, figs 8-10; Belford, 1967a, p. 14, Pl. 3, figs 10-14.

C.P.C. 7218 (Pl. 3, figs 10-12), C.P.C. 7219 (Pl. 3, figs 13-14)—Hypotypes

Near the Andebare River, about 24 miles WSW of Laiagam, Western Highlands, New Guinea (Loc. 2, F. 342)

Lagaip Beds

Palaeocene

GLOBOROTALIA SCITULA (Brady, 1882); Belford, 1962.

Pulvinulina scitula Brady, 1882 (not 1884 as in text, p. 27), 716.

Globorotalia scitula (Brady), Belford, 1962, p. 27, Pl. 7, figs 10-15 (figs 14-15 C.P.C. 4134, omitted on explanation of Plate 7).

C.P.C. 4133—Hypotype A (Pl. 7, figs 10-13)

C.P.C. 4134—Hypotype B (Pl. 7, figs 14-15)

Kisila village, E of Josefstaal, Lower Ramu-Atitau area, New Guinea

Upper Miocene

GLOBOROTALIA SCITULA (Brady) subsp. **PRAESCITULA** Blow, 1959; Jenkins, 1960.

Globorotalia scitula (Brady) subsp. *praescitula* Blow, 1959, p. 221, Pl. 19, fig. 128; Jenkins, 1960, p. 366, Pl. 5, figs 6a-c.

C.P.C. 4205—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 684 feet (*Globigerinoides triloba triloba* zone, 804-632 feet)

Miocene

GLOBOROTALIA SIAKENSIS (LeRoy, 1939); Jenkins, 1960.

Globigerina siakensis LeRoy, 1939, p. 262, Pl. 4, figs 20-22.

Globorotalia siakensis (LeRoy), Jenkins, 1960, p. 366, Pl. 5, figs 7a-c.

C.P.C. 4206—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 648 feet (*Globigerinoides triloba triloba* zone, 804-632 feet)

Miocene

GLOBOROTALIA sp. cf. G. ANGULATA (White, 1928); Belford, 1967.

Globorotalia angulata White, 1928, p. 191, Pl. 27, figs 13a-c.

Globorotalia sp. cf. *G. angulata* (White), Belford, 1967a, p. 15, Pl. 1, figs 24-26.

C.P.C. 7203—Figured specimen
Near Andebare River, about 24 miles WSW
of Laiagam, Western Highlands, New
Guinea (Loc. 2)
Lagaip Beds

Palaeocene

GLOBOROTALIA sp. cf. **G. APANTHESMA** Loeblich & Tappan, 1957;
Belford, 1967.

Globorotalia apantesma Loeblich &
Tappan, 1957a, p. 187, Pl. 48, figs 1a-c.

Globorotalia sp. cf. *G. apantesma* Loeblich
& Tappan, Belford, 1967a, p. 14, Pl. 4,
figs 1-3.

C.P.C. 7223—Figured specimen
Section on Andebare River, about 2000 feet
above the base of the measured section,
SW of Laiagam, Western Highlands, New
Guinea (Loc. 3d, F. 903)

Lagaip Beds

Palaeocene

GLOBOROTALIA sp. cf. **G. KOLCHIDICA** Morozova, 1961; Belford,
1967.

Globorotalia sp. cf. *G. kolchidica* Morozova,
Belford, 1967a, p. 16, Pl. 2, figs 19-27.

C.P.C. 7210 (Pl. 2, figs 19-21), C.P.C.
7211 (Pl. 2, figs 22-24), C.P.C. 7212
(Pl. 2, figs 25, 26)—Figured specimens

C.P.C. 7213 (Pl. 2, fig. 27)—Vertical
section

Section at Tibinini about 350 feet above
base of measured section, WNW of
Laiagam, Western Highlands, New
Guinea (Loc. 4b, F. 914)

Lagaip Beds

Palaeocene

GLOBOROTALIA sp. Belford, 1967.

Globorotalia sp. Belford, 1967a, p. 17, Pl.
3, figs 15-22.

C.P.C. 7220 (Pl. 3, figs 15-17), C.P.C.
7221 (Pl. 3, figs 18-19), C.P.C. 7222
(Pl. 3, figs 20-22)—Figured specimens

Near Andebare River, about 24 miles WSW
of Laiagam, Western Highlands, New
Guinea (Loc. 2, F. 342)

Lagaip Beds

Palaeocene

GLOBOROTALIA sp. Belford, 1967.

Globorotalia sp. Belford, 1967a, Pl. 4, figs
22, 23.

C.P.C. 7232 (Pl. 4, fig. 22), C.P.C. 7233
(Pl. 4, fig. 23)—thin sections in lime-
stone

Limestone section at Tibinini, WNW of
Laiagam, Western Highlands, New
Guinea (Loc. 42, F. 917)

Lagaip Beds

Palaeocene

GLOBOROTALIA TESTARUGOSA Jen-
kins, 1960.

Globorotalia testarugosa Jenkins, 1960,
p. 368, Pl. 5, figs 8a-c.

C.P.C. 4207—Holotype
Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 1192 feet (Pre-*Globoquadrina*
dehiscens dehiscens zone, 1204-1148
feet)

Miocene

**GLOBOROTALIA TRUNCATULIN-
OIDES** (d'Orbigny, 1839); Belford, 1962.
Rotalina truncatulinoides d'Orbigny,
1839, p. 132, Pl. 2, figs 25-27.

Globorotalia truncatulinoides (d'Orbigny),
Belford, 1962, p. 26, Pl. 7, figs 6-9.

C.P.C. 4131—Hypotype A (Pl. 7, figs 6-8)

C.P.C. 4132—Hypotype B (Pl. 7, fig. 9)
Kisila village, E of Josefstaal, Lower Ramu-
Atitau area, New Guinea

Upper Miocene

GLOBOROTALIA TUMIDA (Brady,
1877); Belford, 1962.

Pulvinulina menardii (d'Orbigny) var.
tumida Brady, 1877, p. 535.

Globorotalia tumida (Brady), Belford, 1962, p. 25, Pl. 7, figs 1-5.

C.P.C. 4129—Hypotype A (Pl. 7, figs 1-3)

C.P.C. 4130—Hypotype B (Pl. 7, figs 4-5)
1 mile S of Kumil River, Lower Ramu-
Atitau area, New Guinea

Upper Miocene

GLOBOROTALIA VELASCOENSIS
OCCLUSA Loeblich & Tappan, 1957;
Belford, 1967.

Globorotalia occlusa Loeblich & Tappan,
1957, p. 191, Pl. 55, figs 3a-c, Pl. 64,
figs 3a-c.

Globorotalia velascoensis occlusa Loeblich
& Tappan, Belford, 1967a, p. 12, Pl. 2,
figs 7-12.

C.P.C. 7206 (Pl. 2, figs 7-9), C.P.C. 7207
(Pl. 2, figs 10-12)—Hypotypes

Section on Andebare River about 2000 feet
above base of measured section SW of
Laiagam, Western Highlands, New
Guinea

Lagaip Beds

Palaeocene

GLOBOROTALIA VELASCOENSIS
VELASCOENSIS (Cushman, 1925);
Belford, 1967.

Pulvinulina velascoensis Cushman, 1925,
p. 19, Pl. 3, figs 5a-c.

Globorotalia velascoensis velascoensis
(Cushman), Belford, 1967a, p. 11, Pl. 1,
figs 6-12.

C.P.C. 7196 (Pl. 1, figs 6-8), C.P.C. 7197
(Pl. 1, figs 9-10), C.P.C. 7198 (Pl. 1,
figs 11-12)—Hypotypes

Section on the Andebare River, about 2000
feet above base of measured section, SW
of Laiagam, Western Highlands, New
Guinea (Loc. 3d, F. 903)

Lagaip Beds

Palaeocene

GLOBOROTALIA ZEALANDICA Horni-
brook, 1958; Jenkins, 1960.

Globorotalia zealandica Hornibrook, 1958,
p. 667, figs 18, 19, 30; Jenkins, 1960,
p. 368, Pl. 5, figs 9a-c.

C.P.C. 4208—Hypotype
Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 776 feet (*Globigerinoides triloba*
zone, 804-632)

Miocene

GLOBOROTALITES CONICUS (Carsey,
1926); Belford, 1960.

Truncatulina refulgens Montfort var. *conica*
Carsey, 1926, p. 46, Pl. 4, figs 15a, b.

Globorotalites conicus (Carsey), Belford,
p. 100, Pl. 30, figs 8-13.

C.P.C. 3430 (Pl. 30, figs 8-10), C.P.C.
3431 (Pl. 30, figs 11, 12)—Hypotypes

C.P.C. 3432—Vertical section (Pl. 30,
fig. 13)

Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 14 feet above
base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GLOBOROTALITES UMBILICATUS
(Loetterle, 1937); Belford, 1960.

Globorotalia umbilicata Loetterle, 1937,
p. 43, Pl. 6, figs 9a-c.

Globorotalites umbilicatus (Loetterle), Bel-
ford, 1960, p. 101, Pl. 30, figs 14-17

C.P.C. 3433 (Pl. 30, figs 14, 15), C.P.C.
3434 (Pl. 30, figs 16, 17)—Hypotypes

Scarp, Toolonga Point, Murchison River
area, Carnarvon Basin, W.A., 8 feet
above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GLOBOROTALOIDES VARIABILIS
Bolli, 1957; Belford, 1962.

Globorotaloides variabilis, Bolli, 1957a,
p. 117, Pl. 27, figs 15a-b; 16a-b; 17a-b;
18a-b; 19a-c; Belford, 1962, p. 29, Pl. 8,
figs 12-16.

C.P.C. 4142—Hypotype A (Pl. 8, figs 12-14)

C.P.C. 4143—Hypotype B (Pl. 8, fig. 15)

C.P.C. 4144—Hypotype C (Pl. 8, fig. 16)

Upper Maipora Creek, W of Saw Mountains, Papua

Middle Miocene

GLOBOTRUNCANA GLOBIGERINOIDES Brotzen, 1936; Belford, 1960.

Globotruncana globigerinoides Brotzen, 1936, p. 177, Pl. 12, figs 3a-c; Pl. 13, fig. 3; Belford, 1960, p. 99, Pl. 29, figs 12-14.

C.P.C. 3425—Hypotype (Pl. 29, figs 12-14)
New No. 6 Bore, Coburn Station, Shark Bay area, Carnarvon Basin, W.A., at depth of about 300 feet
Toolonga Calcilutite

Upper Cretaceous (Campanian)

GLOBOTRUNCANA LAPPARENTI Brotzen, 1936, **BULLOIDES** Vogler, 1941; Belford, 1960.

Rosalina linnei d'Orbigny, type 3 de Lapparent, 1918, p. 7, figs 1, h; 2, a, e, g.

Globotruncana lapparenti Brotzen, 1936, p. 175.

Globotruncana lapparenti Brotzen *bulloides* Vogler, 1941, p. 287, Pl. 23, figs 32-39; Belford, 1960, p. 97, Pl. 28, figs 7-13.

C.P.C. 3415 (Pl. 28 figs 7-9), C.P.C. 3416 (Pl. 28, fig. 10)—Hypotypes

C.P.C. 3417—Vertical section (Pl. 28, fig. 11)

Scarp, emergency airfield, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite

C.P.C. 3418—Vertical section (Pl. 28, fig. 13)

Scarp, Pillarawa Hill, Murchison River area, 14 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GLOBOTRUNCANA LAPPARENTI Brotzen, 1936; Belford, 1960.

See **GLOBIGERINA MARGINATA** Chapman, 1917; **GLOBIGERINA LINNAEANA** (d'Orbigny) Chapman, 1917.

Globigerina marginata Reuss, Chapman, 1917, p. 44, Pl. 12, fig. 126.

Globigerina linnaeana (d'Orbigny), Chapman, 1917, p. 44, Pl. 11, fig. 103.

Globotruncana lapparenti Brotzen, 1936 p. 175.

Globotruncana lapparenti lapparenti Bolli nom. nov. Bolli, 1944, p. 230, Pl. 9, fig. 11, text-fig. 1 (15, 16); Belford, 1960, p. 96, Pl. 27, figs 6-12.

C.P.C. 3408 (Pl. 27, figs 6-8), C.P.C. 3409 (Pl. 27, figs 9, 10)—Hypotypes

C.P.C. 3410—Vertical section (Pl. 27, fig. 11)

Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite

C.P.C. 3411—Vertical section (Pl. 27, fig. 12)

Scarp, Toolonga Point, Murchison River area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GLOBOTRUNCANA LAPPARENTI Brotzen **TRICARINATA** (Quereau, 1893); Belford, 1960.

Pulvinulina tricarinata Quereau, 1893, p. 89, Pl. 5, fig. 3a.

Globotruncana lapparenti Brotzen *tricarinata* (Quereau), Belford, 1960, p. 97, Pl. 28, figs 1-6.

C.P.C. 3412 (Pl. 28, figs 1-3), C.P.C. 3413 (Pl. 28, figs 4, 5)—Hypotypes

C.P.C. 3414—Vertical section (Pl. 28, fig. 6)

Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GLOBOTRUNCANA LAPPARENTI
Brotzen, **subsp.** Belford, 1960.

Globotruncana lapparenti Brotzen, 1936,
p. 175.

Globotruncana lapparenti Brotzen, **subsp.**
Belford, 1960, p. 98, Pl. 29, figs 1-4.

C.P.C. 3419—Figured specimen (Pl. 29,
figs 1-3)

C.P.C. 3420—Vertical section (Pl. 29,
fig. 4)

Scarp, Toolonga Point, Murchison River
area, Carnarvon Basin, W.A., at base of
Toolonga Calcilutite

Upper Cretaceous (Santonian)

GLOBOTRUNCANA MARGINATA
(Reuss, 1845); Belford, 1960.

Rosalina marginata Reuss, 1845, p. 36, Pl.
8, figs 54, 74; Pl. 13, fig. 68.

Globotruncana marginata (Reuss), Belford,
1960, p. 100, Pl. 30, figs 1-7.

C.P.C. 3426 (Pl. 30, figs 1-3), C.P.C. 3427
(Pl. 30, figs 4, 5)—Hypotypes

C.P.C. 3428—Vertical section (Pl. 30,
fig. 6)

Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 3 feet above base
of Toolonga Calcilutite

C.P.C. 3429—Vertical section (Pl. 30, fig.
7)

Scarp near emergency airfield, Murchison
River area, 3 feet above base of Toolonga
Calcilutite

Upper Cretaceous (Santonian)

GLOBOTRUNCANA VENTRICOSA
White, 1928; Belford, 1960.

Globotruncana canaliculata (Reuss) **var.**
ventricosa White, 1928, p. 284.

Globotruncana ventricosa White, Belford,
1960, p. 98, Pl. 29, figs 5-11.

C.P.C. 3421—Hypotype (Pl. 29, figs 5-7)
Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, W.A., 3 feet above base
of Toolonga Calcilutite

C.P.C. 3422—Hypotype (Pl. 29, figs 8, 9)

C.P.C. 3424—Vertical section (Pl. 29, fig.
11)

Scarp near emergency airfield, Murchison
River area, 3 feet above base of Toolonga
Calcilutite

C.P.C. 2423—Vertical section (Pl. 29, fig.
10)

Scarp, Toolonga Point, Murchison River
area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GLOMOSPIRA NYEI Crespin, 1958;
Belford, 1968.

Glomospira nyei Crespin, 1958, p. 70, Pl.
13, figs 1-5.

C.P.C. 6846—Hypotype (Pl. 2, fig. 1)
BMR 7, Core 5, 397-403 feet, Middalya
Station, Carnarvon Basin, 88 miles NE
of Carnarvon, in central-north part of
Kennedy Range

C.P.C. 6847—Hypotype (Pl. 2, fig. 2)
BMR 9, Core 11, at 1083-1093 feet, Dauri
Creek, Coordewandy Station, Carnarvon
Basin

Permian

GLOMOSPIRELLA GAULTINA (Ber-
thelin, 1880); Crespin, 1963.

Ammodiscus gaultinus Berthelin, 1880,
p. 19, Pl. 1 (24), figs 3a, b.

Glomospirella gaultina (Berthelin), Crespin,
1963b, p. 27, Pl. 2, fig. 10.

C.P.C. 4456—Hypotype
Gaffneys Tank No. 1, Herbert Downs,
Western Queensland

Lower Wilgunya Formation, 2-3 feet above
base

Lower Cretaceous

GOESELLA CHAPMANI Cushman, 1936;
Belford, 1960.

See *CLAVULINA COMMUNIS* d'Orbigny,
Chapman, 1917.

Clavulina communis d'Orbigny, Chapman,
1917, p. 21, Pl. 2, fig. 22.

Goëssella chapmani Cushman, 1936a, p. 33, Pl. 5, figs 61-b; Belford, 1960, p. 21, Pl. 5, figs 14-18.

C.P.C. 3133—Hypotype (Pl. 5, figs 16, 17) Quarry, at top of One Tree Hill, near Gingin, Perth Basin, W.A., 32 feet above base

Gingin Chalk

C.P.C. 3134—Hypotype (Pl. 5, figs 16, 17) Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite

C.P.C. 3135—Thin section (Pl. 5, fig. 18) Scarp, Pillarawa Hill, Murchison River area, 14 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GUEMBELINA GLOBIFERA (Reuss, 1860); Chapman, 1917.

See RUGOGLOBIGERINA (RUGOGLOBIGERINA) BULBOSA Belford, 1960, p. 94.

Textularia globifera Reuss, 1860, p. 232, Pl. 13, figs 7a, b, 8.

Guembelina globifera (Reuss), Chapman, 1917, p. 20, Pl. 2, fig. 18.

C.P.C. 7042 (18)—Hypotype One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

GUEMBELINA GLOBULOSA (Ehrenberg, 1840); Chapman, 1917.

See GÜMBELINA GLOBULOSA (Ehrenberg), Belford, 1960, p. 59.

Textularia globulosa Ehrenberg, 1840 (for 1838), p. 135, Pl. 4, fig. 2B, 4B, 5B, 7B, 8B.

Guembelina globulosa (Ehrenberg), Chapman, 1917, p. 20, Pl. 2, fig. 17.

C.P.C. 7042 (17)—Hypotype One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

GÜMBELINA GLOBULOSA (Ehrenberg, 1840); Chapman, 1917; Belford, 1960.

Textularia globulosa Ehrenberg, 1840 (for 1838), p. 135, Pl. 4, figs 2B, 4B, 5B, 7B, 8B.

Guembelina globulosa (Ehrenberg), Chapman, 1917, p. 20, Pl. 2, fig. 17.

Gümbelina globulosa (Ehrenberg), Belford, 1960, p. 59, Pl. 15, figs 10, 11.

C.P.C. 3278—Hypotype (Pl. 15, fig. 10) Scarp on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A., 7 feet above base of section

Toolonga Calcilutite (Campanian)

C.P.C. 3279—Hypotype (Pl. 15, fig. 11) Scarp near emergency airfield, Murchison River area, Carnarvon Basin, 3 feet above base of Toolonga Calcilutite (Santonian)

Upper Cretaceous (Santonian, Campanian)

GÜMBELINA PAPULA Belford, 1960.

Gümbelina papula Belford, 1960, p. 57, Pl. 15, figs 6-9; text-fig. 3 (1-6).

C.P.C. 3270—Holotype (Pl. 15, figs 6-8)

C.P.C. 3271—Paratype A (Pl. 15, fig. 1)

C.P.C. 3272—Paratype B (text-fig. 3 (1))

C.P.C. 3273—Paratype C (text-fig. 3 (2))

C.P.C. 3274—Paratype D (text-fig. 3 (3))

C.P.C. 3275—Paratype E (text-fig. 3 (4))

C.P.C. 3276—Paratype F (text-fig. 3 (5))

C.P.C. 3277—Paratype G (text-fig. 3 (6))

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GUEMBELINA POLYSTROPHA (Reuss, 1846); Chapman, 1917.

See VERNEUILINA PARRI Cushman, Belford, 1960, p. 9.

Bulimina polystropha Reuss, 1846, p. 109, Pl. 24, fig. 53.

Guembelina polystropha (Reuss), Chapman, 1917, p. 21, Pl. 2, fig. 19.

C.P.C. 7042 (19)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

GYROIDINA ACUTA Boomgaart, 1949;
Belford, 1966.

Gyroidina neosoldanii Brotzen var. *acuta*
Boomgaart, 1949, p. 125, Pl. 14, figs
1a-c.

Gyroidina acuta Boomgaart, Belford, 1966,
p. 165, Pl. 28, figs 1-9; text-fig. 21:6-7.

C.P.C. 6602 (Pl. 28, figs 1-3), C.P.C. 6603
(Pl. 28, figs 4-6; fig. 6 not included in list
of figures on Pl. 25), C.P.C. 6606 (text-
fig. 21:6), C.P.C. 6607 (text-fig. 21:7)—
Hypotypes

C.P.C. 6604 (Pl. 28, figs 7,9)—Horizontal
section

C.P.C. 6605 (Pl. 28, fig. 8)—Vertical
section

Kisila Village, E of Josefstaal, Lower Ramu-
Atitau area, New Guinea (Loc. 39, Map
8)

Upper Miocene

GYROIDINA BROECKHIANA (Karrer,
1878); Belford, 1966.

Rotalia broeckhiana Karrer, 1878, p. 98,
Pl. 5, fig. 26.

Gyroidina broeckhiana (Karrer), Belford,
1966, p. 167, Pl. 29, figs 1-7; text-fig. 21:
10-11.

C.P.C. 6608 (Pl. 29, figs 1-3), C.P.C. 6609
(Pl. 29, figs 4-5)—Hypotypes

C.P.C. 6610 (Pl. 29, fig. 6)—Horizontal
section

C.P.C. 6611 (Pl. 29, fig. 7)—Vertical
section

E of Amaimon between Gogol River and
Amaimon, New Guinea (Loc. 18, Map
8)

C.P.C. 6612 (text-fig. 21: figs 10-11)—
Hypotype

Nuru Valley, New Guinea, between Diduella
and Old Bauri, on hill with garden plot
(Loc. 21, Map 8)

Upper Miocene

GYROIDINA CUSHMANI Boomgaart,
1949; Belford, 1966.

Gyroidina cushmani Boomgaart, 1949, p.
124, Pl. 9, figs 9a-c; Belford, 1966,
p. 164, Pl. 29, figs 8-16; text-fig. 21:
12-13.

C.P.C. 6621 (Pl. 29, figs 8-10), C.P.C.
6623 (Pl. 29, figs 13-14)—Hypotypes
Nagam River W of Periana Village, Wewak
subdistrict, Sepik district, New Guinea
(Loc. 27, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6622 (Pl. 29, figs 11-12), C.P.C.
6626 (text-fig. 21-12), C.P.C. 6627
(text-fig. 21-13)—Hypotypes

C.P.C. 6624 (Pl. 29 fig. 15)—Horizontal
section

C.P.C. 6625 (Pl. 29, fig. 16)—Vertical
section

NW flank of Wira Anticline, Puri-Purari
River area, Papua (Loc. 13a, Map 5
hypotypes; Loc. 13b—sections)

Upper Miocene

GYROIDINA EXSERTA Belford, 1960.

Gyroidina exserta Belford, 1960, p. 80, Pl.
22, figs 1-6.

C.P.C. 3351—Holotype (Pl. 22, figs 1-3)

C.P.C. 3352—Paratype (Pl. 22, figs 4-6)
Scarp, Toolonga Point, Murchison River
area, Carnarvon Basin, W.A., 8 feet
above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GYROIDINA GLOBOSA (Hagenow,
1842); Belford, 1960.

Nonionina globosa Hagenow, 1842, p. 574.

Gyroidina globosa (Hagenow), Belford,
1960, p. 78, Pl. 21, figs 4-9.

C.P.C. 3343 (Pl. 21, figs 4-6), C.P.C. 3344
(Pl. 21, figs 7-9)—Hypotypes

Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, W.A., 14 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GYROIDINA NODA Belford, 1960.

Gyroidina noda Belford, 1960, p. 79, Pl. 21, figs 16-27.

C.P.C. 3347—Holotype (Pl. 21, figs 16-18) Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

C.P.C. 3348—Paratype A (Pl. 21, figs 19-21)

Same locality as holotype, but 8 feet above base of Toolonga Calcilutite

C.P.C. 3349—Paratype B (Pl. 21, figs 22-24)

C.P.C. 3350—Paratype C (Pl. 21, figs 25-27)

Scarp, Bidgie Bidgie Point, Murchison River area at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

GYROIDINA NODA Belford, 1960; 1966.

Gyroidina noda, Belford, 1960, p. 79, Pl. 21, figs 16-27; 1966, p. 163, text-fig. 20:4.

C.P.C. 6592—part of horizontal section Murchison River area, W.A. Toolonga Calcilutite

Upper Cretaceous

GYROIDINA ORBICULARIS d'Orbigny, 1826; Belford, 1966

Gyroidina orbicularis d'Orbigny, 1826, p. 278, modèle No. 13; Belford, 1966, p. 164, Pl. 27, figs 7-14; text-fig. 19:1-2; text-fig. 21:1-5.

C.P.C. 6593 (Pl. 27, figs 7-9), C.P.C. 6594 (Pl. 27, fig. 10), C.P.C. 6595 (Pl. 27, fig. 11), C.P.C. 6599 (text-fig. 21:3), C.P.C. 6600 (text-fig. 21:4, not C.P.C. 6500 as given in explanation of plate), C.P.C. 6601 (text-fig. 21:5)—Hypotypes
C.P.C. 6596 (Pl. 27, figs 12, 14)—Horizontal section

C.P.C. 6597 (Pl. 27, fig. 13)—Vertical section

Kisila Village, W. of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 38, Map 8)

Upper Miocene

C.P.C. 6588 (text-fig. 19:1-2)—part of horizontal section

'Goldseeker' haul 135, 61° 34' N, 02° 04' E, at 370 metres

Recent

GYROIDINA sp. cf. G. GIRARDANA (Reuss, 1851); Belford, 1960.

Rotalina girardana Reuss, 1851b, p. 73, Pl. 5, fig. 34.

Gyroidina sp. cf. *G. girardana* (Reuss), Belford, 1960, p. 78, Pl. 21, figs 10-15.

C.P.C. 3345 (Pl. 21, figs 10-12), C.P.C. 3346 (Pl. 21, figs 13-15)—Figured specimens

Quarry, One Tree Hill, near Gingin, Perth Basin, W.A., 32 feet above base

Gingin Chalk

Upper Cretaceous (Santonian)

GYROIDINA TORULUS Belford, 1966.

Gyroidina torulus Belford, 1966, p. 168, Pl. 28, figs 10-20; text-fig. 21:8-9.

C.P.C. 6614—Holotype (Pl. 28, figs 10-12)

C.P.C. 6615—Paratype A (Pl. 28, figs 13-14)

C.P.C. 6619—Paratype (text-fig. 21:8-9) Nagam River W. of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6620—Paratype B (Pl. 28, figs 15-17)

C.P.C. 6617 (Pl. 28, fig. 18)—Vertical section

C.P.C. 6618 (Pl. 28, figs 19-20, not fig. 10 as in explanation of plate)—Horizontal section

Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

HAERELLA CONICA Belford, 1960.

Haerella conica Belford, 1960, p. 115, Pl. 35, figs 1-12.

C.P.C. 2337—Holotype (Pl. 35, figs 1-3)

Outcrop on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A., 7 feet above base of section

Toolonga Calcilutite

C.P.C. 2338—Paratype A (Pl. 35, figs 4, 5)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, at top of exposure of Toolonga Calcilutite

C.P.C. 2339—Paratype B (Pl. 35, figs 6, 7)

C.P.C. 2340—Paratype C (Pl. 35, figs 8, 9)

Outcrop, Yaringa North Station, Shark Bay area, Carnarvon, 1½ miles E of North-West Coastal Highway from a point 28 miles N of Hamelin turnoff

Toolonga Calcilutite

C.P.C. 2341—Vertical section (Pl. 35, fig. 10)

C.P.C. 2342—Horizontal section (Pl. 35, figs 11, 12)

Same locality and level as holotype

Upper Cretaceous (Campanian)

HAERELLA GLOBOSA Belford, 1960.

Haerella globosa Belford, 1960, p. 116, Pl. 35, figs 13-20.

C.P.C. 2343—Holotype (Pl. 35, figs 13, 14)

C.P.C. 2346—Paratype C (Pl. 35, fig. 20)

Outcrop on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A., 7 feet above base of section

Toolonga Calcilutite

C.P.C. 2344—Paratype A (Pl. 35, figs 15, 16)

C.P.C. 2345—Paratype B (Pl. 35, figs 17, 18)

Same locality as above but 15 feet above base of section

Toolonga Calcilutite

C.P.C. 2347—Vertical section (Pl. 35, fig. 20)

Same locality and level as holotype

Upper Cretaceous (Campanian)

HAPLOPHRAGMIUM AGGLUTINANS (d'Orbigny, 1846); Chapman, 1917.

See **SPIROPLECTINATA COMPRESSIUSCULA** (Chapman), Belford, 1960, p. 15.

Spirolina agglutinans d'Orbigny, 1846, 137, Pl. 7, figs 10-12.

Haplophragmium agglutinans (d'Orbigny), Chapman, 1917, p. 16, Pl. 2, fig. 10.

C.P.C. 7042 (10)—Hypotype

One Tree Hill, Gingin, Perth, W.A.

Gingin Chalk

Upper Cretaceous

HAPLOPHRAGMIUM CANARIENSE (d'Orbigny, 1839); Chapman, 1909.

Nonionina canariensis d'Orbigny, 1839b, p. 128, Pl. 12, figs 33, 34.

Haplophragmium canariense (d'Orbigny), Chapman, 1909, p. 327, Pl. 14, fig. 6.

C.P.C. 7193 (8)—Hypotype

Off the Snares, S of New Zealand, at 60 fathoms, 166° 32' E, 48° 01' S

Recent

HAPLOPHRAGMOIDES ARENATUS Crespin, 1963.

Haplophragmoides arenatus Crespin, 1963b, p. 28, Pl. 5, figs 1-4.

C.P.C. 4462—Holotype (Pl. 5, figs 1, 2)

Mt Whelan, western Queensland (W. 40)

Lower Wilgunya Formation

C.P.C. 4463—Paratype A (Pl. 5, fig. 3)

11 miles SW of 8 Mile Yard near track to Whitewood Tank on Herbert Downs, western Queensland (W 206a)

Lower Wilgunya Formation

C.P.C. 4464—Paratype B (Pl. 5, fig. 4)

Netting Bore, Paton Downs, western Queensland, at 0-5 feet

Lower Wilgunya Formation

Lower Cretaceous

HAPLOPHRAGMOIDES CHAPMANI

Crespin, 1944; 1963.

Haplophragmoides chapmani Crespin, 1944, p. 19, Pl. 1, figs 2a, b; 3; 1963b, p. 29, Pl. 5, figs 5-16.

C.P.C. 4465—Hypotype A (Pl. 5, figs 5, 6, 7)

Hills about 16 miles W of Marion Downs Homestead, western Queensland (S. 156)
Lower Wilgunya Formation

C.P.C. 4466—Hypotype B (Pl. 5, figs 8, 9)

C.P.C. 4467—Hypotype C (Pl. 5, figs 10, 11)

C.P.C. 4468—Hypotype D (Pl. 5, figs 12, 13)

1 mile W of gate along fence 5 miles NW of Hilary Dam, Marion Downs, western Queensland (W 26)

Lower Wilgunya Formation

C.P.C. 4469—Hypotype E (Pl. 5, fig. 14)

Bungeworgorai Creek, 5 miles W of Roma, Queensland, on S side of Great Western railway line

Roma Formation

C.P.C. 4470—Hypotype F (Pl. 5, fig. 15)

W.C. and I.C. Bore 6763, D. Murray, Gool-
amble, Bourke, northern New South
Wales, at 266-275 feet

C.P.C. 4471—Hypotype G (Pl. 5, fig. 16)

W.C. and I.C. Bore 8303, J. J. Doohan,
Yarralee, Wanaaring, northern New South
Wales, at 750 feet

Lower Cretaceous

HAPLOPHRAGMOIDES cf. CONCAVUS
(Chapman, 1892); Crespin, 1963.

Trochammina concava Chapman, 1892, p. 327, Pl. 6, fig. 14.

Haplophragmoides cf. *concavus* (Chap-
man), Crespin, 1963b, p. 30, Pl. 6, figs
3, 4.

C.P.C. 4772—Figured specimen

11 miles SW of 8 Mile Yard near track to
Whitewood Tank on Herbert Downs,
western Queensland (W 206a)

Lower Wilgunya Formation

Lower Cretaceous

HAPLOPHRAGMOIDES CUSHMANI

Loeblich & Tappan, 1946; Crespin, 1963.

Haplophragmoides cushmani Loeblich &
Tappan, 1946, p. 244, Pl. 35, figs 4a, b;
Crespin, 1963b, p. 30, Pl. 6, figs 1, 2.

C.P.C. 4473—Hypotype

11 miles SW of 8 Mile Yard near track
to Whitewood Tank on Herbert Downs,
western Queensland (W 206a)

Lower Wilgunya Formation

Lower Cretaceous

HAPLOPHRAGMOIDES DICKINSONI

Crespin, 1953; 1963.

Haplophragmoides dickinsoni Crespin,
1953, p. 29, Pl. 5, fig. 5; 1963b, p. 31,
Pl. 6, figs 5-8.

C.P.C. 4474—Hypotype A (Pl. 6, fig. 5)

4 miles NNW of Kidmans Bore, Marion
Downs, western Queensland (W. 80)

Lower Wilgunya Formation

C.P.C. 4475—Hypotype B (Pl. 6, fig. 6)

Coogiebung Tank, Marion Downs (W. 26)

Lower Wilgunya Formation

C.P.C. 4476—Hypotype C (Pl. 6, figs 7, 8)

Hills about 16 miles NW of Marion Downs
Homestead (S. 156)

Lower Wilgunya Formation

Lower Cretaceous

HAPLOPHRAGMOIDES GIGAS Cush-
man, 1927; Crespin, 1963.

Haplophragmoides gigas Cushman, 1927b,
p. 129, Pl. 1, fig. 5; Crespin, 1963b,
p. 31, Pl. 6, figs 9-17.

C.P.C. 4477—Hypotype A (Pl. 6, fig. 9)

C.P.C. 4478—Hypotype B (Pl. 6, fig. 10)

C.P.C. 4479—Hypotype C (Pl. 6, fig. 11)

C.P.C. 4482—Hypotype F (Pl. 6, fig. 15)

Dribbling Bore, Sandringham, western
Queensland, at 470-489 feet

Upper Longsight Sandstone

C.P.C. 4480—Hypotype D (Pl. 6, fig. 12)

C.P.C. 4481—Hypotype E (Pl. 6, figs 13,
14)

Hills 16 miles NW of Marion Downs Home-
stead, western Queensland (S. 156)

Lower Wilgunya Formation

C.P.C. 4483—Hypotype G (Pl. 6, figs 16, 17)

1 mile W of gate along fence, 5 miles NW of Hilary Dam, Marion Downs

Lower Wilgunya Formation

Lower Cretaceous

HAPLOPHRAGMOIDES WILGUNYAENSIS Crespin, 1963.

Haplophragmoides wilgunyaensis Crespin, 1963b, p. 32, Pl. 7, figs 1-10.

C.P.C. 4484—Holotype (Pl. 7, figs 1, 2)

C.P.C. 4486—Paratype B (Pl. 7, figs 5, 6)
Marion Downs Homestead, side of track 4 miles S of junction with track between Bucket Creek Bore and Whitewood Tank, western Queensland (W. 285)

Lower Wilgunya Formation

C.P.C. 4485—Paratype A (Pl. 7, figs 3, 4)
12 Mile Tank, Marion Downs, 0-4 feet above base (GAB. 304a)

Lower Wilgunya Formation

C.P.C. 4487—Paratype C (Pl. 7, figs 7, 8)

C.P.C. 4488—Paratype D (Pl. 7, figs 9, 10)

Batavia Downs Station Well, northern Queensland

Blackdown Formation

Lower Cretaceous

HAPLOPHRAGMOIDES sp. A. Crespin, 1963.

Haplophragmoides sp. A, Crespin, 1963b, p. 33, Pl. 7, figs 11, 12.

C.P.C. 4489—Figured specimen A (Pl. 7, fig. 11)

C.P.C. 4490—Figured specimen B (Pl. 7, fig. 12)

W.C. and I.C. Bore 8302, J. J. Doohan, Yarralee, Wanaaring, northern New South Wales, at 700 feet

Lower Cretaceous

HAPLOPHRAGMOIDES sp. B Crespin, 1963.

Haplophragmoides sp. B, Crespin, 1963b, Pl. 7, figs 13, 14.

C.P.C. 4491—Figured specimen A (Pl. 7, fig. 13)

C.P.C. 4492—Figured specimen B (Pl. 7, fig. 14)

Hills about 16 miles NW of Marion Downs Homestead, western Queensland (S. 156)

Lower Wilgunya Formation

Lower Cretaceous

HAPLOPHRAGMOIDES sp. Belford, 1960.

Haplophragmoides sp., Belford, 1960, p. 14, Pl. 3, figs 5-6.

C.P.C. 3102—Figured specimen
Scarp on Yaringa North Station, Shark Bay area, Carnarvon Basin, W.A., at side of North-West Coastal Highway, 31 miles N of Hamelin turnoff, 25 feet above base of section

Toolonga Calcilitite

Upper Cretaceous (Campanian)

HAPLOSTICHE SOLDANII (Jones & Parker, 1860); Chapman, 1917.

Lituola soldanii Jones & Parker, 1860, p. 307, No. 184.

Haplostiche soldanii (Jones & Parker), Chapman, 1917, p. 17, Pl. 1, fig. 6.

C.P.C. 7042 (6)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

HASTIGERINA AEQUILATERALIS AEQUILATERALIS (Brady, 1870); Belford, 1962.

Globigerina aequilateralis Brady, 1879b, p. 285.

Hastigerina aequilateralis aequilateralis (Brady), Belford, 1962, p. 21, Pl. 5, figs 15-18.

C.P.C. 4111—Hypotype A (Pl. 5, figs 15, 16)

E of Atemble, Lower Ramu-Atitau area, New Guinea

Pliocene

C.P.C. 4112—Hypotype B (Pl. 5, fig. 17)
C.P.C. 4112—Hypotype C (thin section)
Kisila village, E of Josefstaal, Lower Ramu-
Atitau area

Upper Miocene

HASTIGERINA cf. AEQUILATERALIS
(Brady, 1884); Jenkins, 1960.

Globigerina aequilateralis Brady, 1884,
p. 605, Pl. 80, figs 18a-b, 19a-b, 20-21.

Hastigerina cf. *aequilateralis* (Brady),
Jenkins, 1960, p. 349, Pl. 1, figs 1a-c.

C.P.C. 4156—Figured specimen
Lakes Entrance Oil Shaft, Gippsland, Vic-
toria, at 444 feet (*Globorotalia mayeri*
zone, 448-412 feet)

Miocene

HEMIGORDIUS HARLTONI Cushman &
Waters, 1928; Belford, 1968.

Hemigordius harltoni Cushman & Waters,
1928, p. 43, Pl. 5, figs 8, 9; Belford,
1968, Pl. 2, figs 14-16.

C.P.C. 6852—Hypotype (Pl. 2, fig. 14)
BMR 7, Core 5, 397-403 feet, Middalya
Station, Carnarvon Basin, 88 miles NE
of Carnarvon, on central-north part of
Kennedy Range

C.P.C. 6853 (Pl. 2, fig. 15), C.P.C. 6854
(Pl. 2, fig. 16)—Hypotypes
BMR 9, Core 11, 1083-1093 feet, Dauri
Creek, Coordewandy Station, Carnarvon
Basin, W.A.
Callytharra Formation

Lower Permian

HETEROLEPA CAVUS Belford, 1966.

Heterolepa cavus Belford, 1966, p. 182, Pl.
34, figs 7-13.

C.P.C. 6670—Holotype (Pl. 34, figs 7-9)

C.P.C. 6671—Paratype (Pl. 34, figs 10-12)

C.P.C. 6672 (Pl. 34, fig. 13)—Horizontal
section

E of Karova Creek, Kerema-Karova Creek
area, Papua (Loc. 7, Map 3)

Middle Miocene

HETEROLEPA MEDIOCRIS (Finlay,
1940); Belford, 1966.

Cibicides mediocris Finlay, 1940, p. 464,
Pl. 67, figs 198-199.

Heterolepa mediocris (Finlay), Belford,
1966, p. 181, Pl. 23, figs 10-14; text-fig.
15:14.

C.P.C. 6666 (Pl. 23, figs 10-12), C.P.C.
6667 (Pl. 23, fig. 13)—Hypotypes
Kisila Village, E of Josefstaal, Lower Ramu-
Atitau area, New Guinea (Loc. 39,
Map 8)

C.P.C. 6668 (Pl. 23, fig. 14)—part of hori-
zontal section

C.P.C. 6669 (text-fig. 15:14)—section
showing pores
Nuru Valley, New Guinea, between Diduella
and Old Bauri, on hill with garden plot
(Loc. 21, Map 8)

Upper Miocene

HOEGLUNDINA ELEGANS (d'Orbigny,
1826); Belford, 1966.

Rotalia elegans d'Orbigny, 1826, p. 276
(figured Parker, Jones, & Brady, 1871,
p. 12, fig. 142).

Hoeglundina elegans (d'Orbigny), Belford,
1966, p. 190, Pl. 36, figs 8-13.

C.P.C. 6692 (Pl. 36, figs 8-10)—Hypotype
Kisila Village, E of Josefstaal, Lower Ramu-
Atitau area, New Guinea (Loc. 39,
Map 8)

C.P.C. 6693 (Pl. 36, fig. 11)—Hypotype
2 miles W of Josefstaal (Loc. 38, Map 8)

C.P.C. 6694 (Pl. 36, figs 12, 13)—Vertical
section

Nuru Valley, New Guinea, between Diduella
and Old Bauri, on hill with garden plot
(Loc. 21, Map 8)

Upper Miocene

HYALINEA BALTHICA (Gmelin, 1791);
Belford, 1966.

Nautilus balthicus Gmelin, 1791, p. 3370.

Hyalina balthica (Gmelin, not Schroeter as
given under text-fig. 13), Belford, 1966,
p. 124, Pl. 14, figs 1-8; text-fig. 13:1-3.

C.P.C. 6473 (Pl. 14, figs 1-3), C.P.C. 6474 (Pl. 14, figs 4-5)—Hypotypes

C.P.C. 6475 (Pl. 14, figs 6, 7)—horizontal section

C.P.C. 6476 (fig. 8)—part of horizontal section

Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6471 (text-fig. 13:1), C.P.C. 6472 (text-fig. 13:2-3)—horizontal sections 'Goldseeker' Fry Net Haul, 8209, Station 9, 61° 34' N, 02° 04' E, at 330 metres

Recent

HYPERAMMINA cf. BARKSDALEI (Tappan, 1957); Crespin, 1963.

Hyperamminoides barksdalei Tappan, 1957, p. 202, Pl. 65, figs 6-12.

Hyperammina cf. *barksdalei* (Tappan), Crespin, 1963b, p. 23, Pl. 2, fig. 5.

C.P.C. 4425—Figured specimen Kopperammina Bore, northeast South Australia, at 1907 feet
Equivalent of Roma or Tambo Formation

Lower Cretaceous

HYPERAMMINA DEVONIANA Crespin, 1961.

Hyperammina devoniana Crespin, 1961, p. 406, Pl. 64, figs 1-6.

C.P.C. 419—Holotype (Pl. 64, fig. 1)

C.P.C. 420—Paratype A (Pl. 64, fig. 2)

C.P.C. 421—Paratype B (Pl. 64, fig. 4)

C.P.C. 422—Paratype C (Pl. 64, fig. 6)

C.P.C. 423—Paratype D (Pl. 64, fig. 5)

C.P.C. 424—Paratype E (Pl. 64, fig. 3)
Section SE end of Bugle Gap, Fitzroy Basin, W.A., 66-88 feet above base of section Virgin Hills Formation

Upper Devonian

HYPERAMMINA ELEGANS (Cushman & Waters, 1928); Belford, 1968.

Hyperamminoides elegans Cushman & Waters 1928, p. 36, Pl. 4, fig. 34.

Hyperammina elegans (Cushman & Waters), Belford 1968, Pl. 1, figs 19-20.

C.P.C. 6839—Hypotype (Pl. 1, fig. 19)
BMR 7, Core 5, 397-403 feet, Middalya Station, Carnarvon Basin, W.A., 88 miles NE of Carnarvon, in central-north part of Kennedy Range

C.P.C. 6840—Hypotype (Pl. 1, fig. 20)
BMR 8, Core 13, at 1199-1207 feet, Byro Station, Carnarvon Basin, W.A.
Callytharra Formation

Lower Permian

HYPERAMMINA ELEGANTISSIMA Plummer, 1945; Belford, 1968.

Hyperammina elegantissima Plummer, 1945, p. 222, Pl. 15, figs 17-25; Belford, 1968, Pl. 1, fig. 23.

C.P.C. 6842—Hypotype
BMR 8, Core 13, at 199-1207 feet, Byro Station, Carnarvon Basin, W.A.
Callytharra Formation

Lower Permian

HYPERAMMINA EXPANSA (Plummer, 1945); Belford, 1968.

Hyperamminoides expansa Plummer, 1945, p. 223, Pl. 16, figs 1-6.

Hyperammina expansa (Plummer), Belford, 1968, Pl. 1, figs 13-15.

C.P.C. 6833—Hypotype (Pl. 1, fig. 13)
BMR 7, Core 23, at 1793-1802 feet, Middalya Station, Carnarvon Basin, W.A., 88 miles NE of Carnarvon, in central-north part of Kennedy Range

C.P.C. 6834 (Pl. 1 fig. 14), C.P.C. 6835 (Pl. 1, fig. 15)—Hypotypes
BMR 8, Core 32, at 2994-3004 feet, Byro Station, Carnarvon Basin, W.A.
Callytharra Formation

Lower Permian

HYPERAMMINA FUSTA Crespin, 1958; Belford, 1968.

Hyperammina fusta Crespin, 1958, p. 51, Pl. 4, figs 6-8; Belford, 1968, Pl. 1, figs 21, 22.

C.P.C. 6841 (Pl. 1, fig. 21), C.P.C. 6842 (Pl. 1, fig. 22)—Hypotypes
BMR 7, Core 16, at 1087-1095 feet, Middalya Station, Carnarvon Basin, W.A., 88 miles NE of Carnarvon in central-north part of Kennedy Range

Permian

HYPERAMMINA HADZELI Crespin, 1958; Belford, 1968.

Hyperammina hadzeli Crespin, 1958, p. 51, Pl. 5, figs 6-10; Belford, 1968, Pl. 1, fig. 24.

C.P.C. 6844—Hypotype
BMR 8, Core 13, 1199-1207 feet, Byro Station, Carnarvon Basin, W.A.
Callytharra Formation

Lower Permian

HYPERAMMINA sp. A Crespin, 1963.

Hyperammina sp. A, Crespin, 1963b, p. 23, Pl. 2, fig. 1.

C.P.C. 4426—Figured specimen
Union-Kern-A.O.G., Cabawin No. 1 Well, Queensland, at 700-710 feet
Roma Formation

Lower Cretaceous

HYPERAMMINA sp. B Crespin, 1963.

Hyperammina sp. B, Crespin, 1963b, p. 23, Pl. 2, figs 2, 3.

C.P.C. 4427—Figured specimen (Pl. 2, fig. 2)

C.P.C. 4428—Figured specimen (Pl. 2, fig. 3)

FBH No. 1 Wyaaba Well, northern Queensland, core 3, at 2229 feet
Equivalent of Blackdown Formation

Lower Cretaceous

HYPERAMMINA sp. C Crespin, 1963.

Hyperammina sp. C, Crespin, 1963b, p. 23, Pl. 2, fig. 4.

C.P.C. 4429—Figured specimen
FBH No. 1 Wyaaba Well, northern Queensland, core 3, at 2232 feet
Equivalent of Blackdown Formation

Lower Cretaceous

HYPERAMMINOIDES COLEYI Parr, 1942; Belford, 1968.

Hyperamminoides coleyi Parr, 1942, p. 104, Pl. 2, fig. 3; Belford, 1968, Pl. 1, figs 16-18.

C.P.C. 6836—Hypotype (Pl. 1 fig. 16)
BMR 7, Core 2, at 204-214 feet, Middalya Station, Carnarvon Basin, W.A., 88 miles NE of Carnarvon in central-north part of Kennedy Range

C.P.C. 6837—Hypotype (Pl. 1, fig. 17)
BMR 6, Core 8, 701-711 feet, same locality as above

C.P.C. 6838—(Pl. 1, fig. 18)
BMR 8, Core 13, 119-1207, Byro Station, Carnarvon Basin, W.A.

Permian

INVOLUTINA CRETACEA (Reuss, 1845); Belford, 1960.

See **AMMODISCUS INCERTUS** d'Orbigny, Chapman, 1917; **AMMODISCUS GAULTINUS** Berthelin, Chapman, 1917.

Operculina cretacea Reuss, 1845, p. 35, Pl. 13, figs 64, 65.

Ammodiscus incertus (d'Orbigny), Chapman, 1917, p. 17, Pl. 1, fig. 7.

Ammodiscus gaultinus Berthelin, Chapman, 1917, p. 18, Pl. 1, fig. 8.

Involutina cretacea (Reuss), Belford, 1960, p. 22, Pl. 6, fig. 1.

C.P.C. 3136—Hypotype
Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A.
At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

LACAZINELLA WICHMANNI (Schlumberger, 1894); Crespin, 1962.

Lacazina wichmanni Schlumberger, 1894, p. 294, Pl. 12, figs 2-5, text-fig. 1.

Lacazinella wichmanni (Schlumberger). Crespin, 1962, p. 337, Pl. 1, figs 1-9, Pl. 2, figs 1-15; text-figs 2A, B.

- C.P.C. 4230—Horizontal section (Pl. 2, fig. 1)
- C.P.C. 4231—Horizontal section (Pl. 2, fig. 3a)
- C.P.C. 4232—Oblique section (Pl. 2, fig. 3b)
- C.P.C. 4233—Horizontal section (Pl. 2, fig. 5)
- C.P.C. 4234—Oblique section (Pl. 2, fig. 6)
- C.P.C. 4235—Horizontal section (Pl. 2, fig. 7)
- C.P.C. 119—Horizontal section (Crespin, 1938, refigd.) (Pl. 2, fig. 4)
- C.P.C. 120—Horizontal section (Crespin, 1938, refigd.) (Pl. 2, fig. 8)
- C.P.C. 121—Horizontal section (Crespin, 1938, refigd.) (Pl. 2, fig. 2)
- C.P.C. 124—Oblique section (Crespin, 1938, refigd.) (Pl. 2, fig. 9)
- C.P.C. 125—Vertical section (Crespin, 1938, refigd.) (Pl. 2, fig. 10)
- Limestone in small creek near Chimbu Aerodrome forming steep escarpments with an elevant of 5000 feet above sea level, along Bismarck Range, on N side of Wahgi Valley, Eastern Highlands, Territory of New Guinea
- C.P.C. 4236—Hypotype, external view (Pl. 2, fig. 11)
- C.P.C. 4237—Hypotype, external view (Pl. 2, fig. 12)
- C.P.C. 4328—Hypotype, external view (Pl. 2, fig. 13)
- C.P.C. 4239—Hypotype, external view (Pl. 2, fig. 14)
- C.P.C. 4240—Hypotype, external view (Pl. 2, fig. 15)
- C.P.C. 4241—Vertical section (Pl. 1, fig. 1)
- C.P.C. 4242—Vertical section (Pl. 1, fig. 2)
- C.P.C. 4243—Vertical section (Pl. 1, fig. 3)
- C.P.C. 4244—Vertical section (Pl. 1, fig. 4; text-fig. B)
- C.P.C. 4245—Vertical section (Pl. 1, fig. 5)
- C.P.C. 4246—Tangential section (Pl. 1, fig. 8)
- C.P.C. 4247—Vertical section (Pl. 1, fig. 9)
- Limestone from gorge of Chimbu River, Wahgi Valley, Territory of New Guinea
- Upper Eocene ('b' stage)**
- LAGENA AMPHORA** Reuss var. **PAUCICOSTA** Franke, 1928; Belford, 1960.
- Lagen a amphora* Reuss, f. *paucicosta* Franke, 1928, p. 87, Pl. 7, fig. 38.
- Lagen a amphora* Reuss var. *paucicosta* Franke, Belford, 1960, p. 54, Pl. 14, figs 10, 11.
- C.P.C. 3259 (Pl. 14, fig. 10), C.P.C. 3260 (Pl. 14, fig. 11)—Hypotypes
- Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at top of exposure of Toolonga Calcilutite
- Upper Cretaceous (Campanian)**
- LAGENA APICULATA** (Reuss, 1851); Chapman, 1917.
- Oolina apiculata* Reuss, 1851a, p. 22, Pl. 1, fig. 1.
- Lagen a apiculata* (Reuss), Chapman, 1917, p. 22, Pl. 3, fig. 24.
- C.P.C. 7042 (24)—Hypotype
- One Tree Hill, Gingin, Perth Basin, W.A.
- Gingin Chalk
- Upper Cretaceous**
- LAGENA ASPERA** Reuss, 1862; Chapman, 1917.
- Lagen a aspera* Reuss, 1862, p. 305, Pl. 1, fig. 5; Chapman, 1917, p. 23, Pl. 3, fig. 25.
- C.P.C. 7042 (25)—Hypotype
- One Tree Hill, Gingin, Perth Basin, W.A.
- Gingin Chalk
- Upper Cretaceous**
- LAGENA BIANCAE** (Seguenza, 1862); Chapman, 1909.
- Fissurina biancae* Seguenza, 1862b, p. 57, Pl. 1, figs 48-50.
- Lagen a biancae* (Seguenza), Chapman, 1909, p. 337, Pl. 15, figs 8a, b.

C.P.C. 7193 (20)—Hypotype
10 miles N of Enderby Island, at NE end
of Auckland Island at 85 fathoms,
166° 18' E, 50° 20' S

Recent

LAGENA ENDERBIENSIS Chapman,
1909.

Lagena enderbiensis Chapman, 1909,
p. 339 Pl 16, figs 1a, b.

C.P.C. 2320 (2)—Holotype
10 miles N of Enderby Island, NE of
Auckland Island, at 85 fathoms, 166°
18' E, 50° 20' S

Recent

LAGENA GLOBOSA (Montagu, 1803);
Chapman, 1917.

Vermiculum globosum Montagu, 1803,
p. 523.

Lagena globosa (Montagu), Chapman,
1917, p. 22, Pl. 3, fig. 23.

C.P.C. 7042 (23)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

LAGENA GRACILLIMA (Seguenza,
1862); Crespin, 1960.

Amphorina gracillima Seguenza, 1862a,
p. 51, Pl. 1, fig. 37.

Lagena gracillima (Seguenza) Crespin,
1960, p. 23, Pl. 1, fig. 14.

C.P.C. 617—Hypotype
Terrace about 120 feet above water level,
NW corner, Deep Lake, Vestfold Hills,
Princess Elizabeth Land, Antarctica

Recent

LAGENA HEXAGONA (Williamson,
1848); Belford, 1960.

Entosolenia squamosa (Montagu) var.
hexagona Williamson, 1848, p. 20, Pl. 2,
fig. 23.

Lagena hexagona (Williamson) Belford,
1960, p. 55, Pl. 14, figs 14, 15.

C.P.C. 3263 (Pl. 14, fig. 14), C.P.C. 3264
(Pl. 14, fig. 15)—Hypotypes
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A., at top of
exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

LAGENA LAGENOIDES (Williamson)
var. **NUDA** Chapman, 1909.

Lagena lagenoides (Williamson) var. *nuda*
Chapman, 1909, p. 338, Pl. 15, fig. 9.

C.P.C. 2320 (1)—Holotype of var.
10 miles N of Enderby Island, NE of end
of Auckland Island, at 85 fathoms,
166° 18' E, 50° 20' S

Recent

LAGENA LINEATA (Williamson, 1848);
Chapman, 1909.

Entosolenia lineata Williamson, 1848, p. 18,
Pl. 2, fig. 18.

Lagena lineata (Williamson), Chapman,
1909, p. 334, Pl. 15, fig. 3.

C.P.C. 7193 (15)—Hypotype
Off the Snares, S of New Zealand, at 60
fathoms, 166° 32' E, 48° 01' S

Recent

LAGENA MARGINATA (Walker & Boys,
1784); Chapman, 1909.

Serpula (Lagena) marginata Walker &
Boys, 1784, p. 2, Pl. 1, fig. 7.

Lagena marginata (Walker & Boys), Chap-
man, 1909, p. 335, Pl. 15, fig. 6.

C.P.C. 7193 (18)—Hypotype
Off the Snares, S of New Zealand, at 60
fathoms, 166° 32' E, 48° 01' S

Recent

LAGENA ORBIGNYANA (Seguenza,
1862); Chapman, 1909.

Fissurina orbignyana Seguenza, 1862, Pl. 7,
figs 65, 66.

Lagena orbignyana (Seguenza), Chapman,
1909, p. 337, Pl. 15, fig. 10.

C.P.C. 7193 (21)—Hypotype
Off the Snares, S of New Zealand, at 60
fathoms, 166° 32' E, 48° 01' S

Recent

LAGENA ORBIGNYANA (Sequenza)
var. CLATHRATA Brady, 1884; Chap-
man, 1909.

Lagena clathrata Brady, 1884, p. 485, Pl.
60, fig. 4.

Lagena orbignyana (Sequenza), **var.**
clathrata Brady, Chapman, 1909, p. 338,
Pl. 15, fig. 11.

C.P.C. 7193 (22)—Hypotype
20 miles N of Auckland Island, at 85 fath-
oms, 166° 00' E, 50° 15' S

Recent

LAGENA PERLUCIDA (Montagu, 1803);
Crespin, 1963.

Vermiculum perlucidum Montagu, 1803, p.
525, Pl. 14, fig. 3.

Lagena perlucida (Montagu), Crespin,
1963a, p. 150 (lists), Pl. 22, fig. 6 (not
fig. 4 as in explanation of plate).

C.P.C. 375—Hypotype
Dutton Way, Portland, Victoria
Maretimo Member, Whalers Bluff Forma-
tion

Upper Pliocene

LAGENA aff. PLUMIGERA Brady, 1884;
Crespin, 1963.

Lagena plumigera, Brady, 1884, p. 58, figs
25-27.

Lagena aff. *plumigera* Brady, Crespin,
1963a, p. 150 (lists), Pl. 22, figs 4-5
(not fig. 6 as in explanation of plate).

C.P.C. 376 (Pl. 22, fig. 5), C.P.C. 377
(Pl. 22, fig. 4, not fig. 6)—Hypotypes
Dutton Way, Portland, Victoria
Maretimo Member, Whalers Bluff Forma-
tion

Upper Pliocene

LAGENA ? PROTEA Chaster, 1892;
Crespin, 1960.

Lagena protea Chaster, 1892, p. 62, Pl. 1,
fig. 14.

Lagena ? protea Chaster, Crespin, 1960,
p. 23, Pl. 1, figs 9-11.

C.P.C. 597—Hypotype A (Pl. 1, fig. 9)

C.P.C. 598—Hypotype B (Pl. 1, fig. 10)

C.P.C. 599—Hypotype C (Pl. 1, fig. 11)
S terrace, Lake Dingle (Broad Lake),
Vestfold Hills, Princess Elizabeth Land,
Antarctica

Recent

LAGENA QUADRATA (Williamson) **var.**
CARINATA Chapman, 1909.

Lagena quadrata (Williamson) **var. carinata**
Chapman, 1909, p. 339, Pl. 15, fig. 12.

C.P.C. 2320—Holotype of **var.**

Off the Snares, S of New Zealand, at 60
fathoms, 166° 32' E, 48° 01' S

Recent

LAGENA SCHLICHTI (Silvestri, 1902);
Chapman, 1909.

Fissurina schlichti Silvestri, 1902, p. 14,
woodcuts 9-11.

Lagena schlichti (Silvestri), Chapman,
1909, p. 337, Pl. 15, figs 7a, b.

C.P.C. 7193 (19)—Hypotype
Off the Snares, S of New Zealand, at 60
fathoms, 166° 32' E, 48° 01' S

Recent

LAGENA SQUAMOSA (Montagu, 1803);
Chapman, 1909.

Verneuilina squamosa Montagu, 1803, p.
526, Pl. 14, fig. 2.

Lagena squamosa (Montagu), Chapman,
1909, p. 335, Pl. 15, fig. 5.

C.P.C. 7193 (17)—Hypotype
10 miles N of Enderby Island, off NE end
of Auckland Island, at 85 fathoms. 166°
18' E, 50° 30' S

Recent

LAGENA SULCATA (Walker & Jacob, 1798); Chapman, 1909.

Serpula (Lagena) sulcata Walker & Jacob, 1798; p. 63, Pl. 14, fig. 5.

Lagena sulcata (W. & J.), Chapman, 1909, p. 333, Pl. 15, fig. 4.

C.P.C. 7193 (16)—Hypotype
20 miles N of Auckland Island, at 85 fathoms, 160° 00'E, 50° 35'S

Recent

LAGENA SULCATA (Walker & Jacob, 1798); Belford, 1960.

Serpula (Lagena) sulcata, Walker & Jacob, 1798, p. 63, Pl. 14, fig. 5.

Lagena sulcata (Walker & Jacob), Belford, 1960, p. 55, Pl. 14, figs 12, 13.

C.P.C. 3261 (Pl. 14, fig. 12), C.P.C. 3262 (Pl. 14, fig. 13)—Hypotypes
Quarry, One Tree Hill, near Gingin, Perth Basin, W.A.

Gingin Chalk, 32 feet above base

Upper Cretaceous (Santonian)

LAGENA sp. Belford, 1960.

Lagena sp. Belford, 1960, p. 56, Pl. 14, fig. 16.

C.P.C. 3265—Figured specimen
Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

LAGENAMMINA AMPULLACEA Crespin, 1961.

Lagenammina ampullacea Crespin, 1961, p. 404, Pl. 66, figs 6-8.

C.P.C. 412—Holotype (Pl. 66, fig. 6)

C.P.C. 413—Paratype A (Pl. 66, fig. 7)

C.P.C. 414—Paratype B (Pl. 66, fig. 8)

Section SE end of Bugle Gap, Fitzroy Basin, W.A., 66-88 feet above base of section
Virgin Hills Formation

Upper Devonian

LAMARCKINA SCABRA (Brady, 1884); Belford, 1966.

Pulvinulina oblonga (Williamson) var. *scabra* Brady, 1884, p. 689, Pl. 106, figs 8a-c.

Lamarckina scabra (Brady), Belford, 1966, p. 189, Pl. 35, figs 15-17; text-fig. 24: 3-4.

C.P.C. 6688 (Pl. 35, figs 15-17), C.P.C. 6689 (text-fig. 24: 3-4)—Hypotypes
Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

LAMARCKINA VENTRICOSA (Brady, 1884); Belford, 1966.

Discorbina ventricosa Brady, 1884, p. 654, Pl. 91, figs 7a-c.

Lamarckina ventricosa (Brady), Belford, 1966, p. 189, Pl. 35, figs 10-14.

C.P.C. 6690 (Pl. 35, figs 10-12), C.P.C. 6691 (Pl. 35, figs 13-14)—Hypotypes
Tubu area. Papua (Loc. 1d, Map 1)
'Tubu Siltstone'

Upper Miocene

LARYNGOSIGMA ANTARCTICA Crespin, 1960.

Laryngosigma antarctica Crespin, 1960, p. 24, Pl. 1, figs 15, 16.

C.P.C. 603—Holotype (Pl. 1, fig. 15)

C.P.C. 604—Paratype (Pl. 1, fig. 16)

S terrace, Lake Dingle (Broad Lake), Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

LARYNGOSIGMA HYALASCIDEA Loeblich & Tappan, 1953; Crespin, 1960.

Laryngosigma hyalascidea Loeblich & Tappan, 1953, p. 83, Pl. 15, figs 6-8; Crespin, 1960, p. 25, Pl. 1, fig. 17.

C.P.C. 605—Hypotype
Terrace, about 120 feet above water level
near NW corner, Deep Lake, Vestfold
Hills, Princess Elizabeth Land, Antarc-
tica

Recent

LARYNGOSIGMA LIQUIDA Crespin,
1960.

Laryngosigma liquida Crespin, 1960, p. 25,
Pl. 1, figs 18, 19.

C.P.C. 606—Holotype (Pl. 1, fig. 18)

C.P.C. 607—Paratype (Pl. 1, fig. 19)

S terrace, Lake Dingle (Broad Lake), Vest-
fold Hills, Princess Elizabeth Land,
Antarctica

Recent

LATEROSTOMELLA VOLUTA Belford,
1966.

Laterostomella voluta Belford, 1966, p. 44,
Pl. 3, figs 14-16; text-fig. 1:2.

C.P.C. 6216—Holotype (Pl. 3, figs 14-15)

C.P.C. 6217—Paratype (Pl. 3, fig. 16)

C.P.C. 6218—Paratype (text-fig. 1:2)

Yamuiti Creek, Malalaua-Saw Mountains
area, Papua, 400 feet below top of sec-
tion (Loc. 12c, Map 4)

'Murua Mudstone'

Upper Miocene

LATICARINA PAUPERATA (Parker &
Jones, 1865); Belford, 1966.

Pulvinula repanda var. *menardii*, subvar.
pauperata Parker & Jones, 1865, p. 395,
Pl. 16, figs 50-51.

Laticarina pauperata (Parker & Jones),
Belford, 1966, p. 92, Pl. 14, figs 9-13.

C.P.C. 6369 (Pl. 14, figs 9-10)—Hypotype
2 miles E of Josefstal, Lower Ramu-
Atitau area, New Guinea (Loc. 38, Map
8)

C.P.C. 6370 (Pl. 14, figs 11-12)—Hypotype
W of Yangoru, Maprik subdistrict, Sepik dis-
trict, New Guinea (Loc. 31, Map 8)

C.P.C. 6371 (Pl. 14, fig. 13)—Vertical
section

Ipowoloe Creek, Hohoro area, Papua (Loc.
15b, Map 6)

'Doabea Formation'

Upper Miocene

LINGULINA TRANSLUCIDA Heron-
Allen & Earland, 1932; Crespin, 1960.

Lingulina translucida Heron-Allen &
Earland, 1932, p. 387, Pl. 12, figs 9-11;
Crespin 1960, p. 23, Pl. 1, fig. 13.

C.P.C. 596—Hypotype

Terrace, about 120 feet above water level,
NW corner, Deep Lake, Vestfold Hills,
Princess Elizabeth Land, Antarctica

Recent

LITUOTUBA ADHAERENS (Parr, 1942);
Belford, 1968.

Glomospira adhaerens Parr, 1942, p. 103,
Pl. 1, fig. 2.

Lituotuba adhaerens (Parr), Belford, 1968,
p. 6, Pl. 2, fig. 13.

C.P.C. 6851—Hypotype (Pl. 2, fig. 13)

BMR 8, Core 13, at 1199-1207 feet Coor-
dewandy Station, Carnarvon Basin, W.A.

Callytharra Formation

Lower Permian

MARGINULINA COSTATA (Batsch,
1791); Chapman, 1917.

Nautilus (Orthoceras) costatus Batsch,
1791, Pl. 1, figs 1a-g.

Marginulina costata (Batsch), Chapman,
1917, p. 32, Pl. 7, fig. 63.

C.P.C. 7044 (3)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A.

Gingin Chalk

Upper Cretaceous

MARGINULINA COSTATA (Batsch), var.
Chapman, 1917.

Marginulina costata (Batsch), var.
Chapman, 1917, p. 32, Pl. 7, fig. 64.

C.P.C. 7044 (64)—Figured specimen

One Tree Hill, Gingin, Perth Basin, W.A.

Gingin Chalk

Upper Cretaceous

MARGINULINA GLABRA d'Orbigny, 1826; Chapman, 1917.

Marginulina glabra d'Orbigny, 1826, p. 259, No. 6; Modèle No. 55; Chapman, 1917, p. 33, Pl. 7, fig. 65.

C.P.C. 7044 (5)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

MARGINULINA INAEQUALIS Reuss, 1860; Chapman, 1917.

Marginulina inaequalis Reuss, 1860, p. 59, Pl. 7, fig. 3; Chapman, 1917, p. 33, Pl. 7, fig. 66.

C.P.C. 7044 (6)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

MARSIPELLA sp. Crespin, 1961.

Marsipella sp. Crespin, 1961, p. 401, Pl. 65, fig. 9.

C.P.C. 400—Figured specimen

Section between Margaret River and Needle Eye Rocks, Bugle Gap area, Fitzroy Basin, W.A.

Virgin Hills Formation

Upper Devonian

MARSONELLA ELLISORAE Cushman, 1936; Belford, 1960.

Marsonella ellisorae Cushman, 1936a, p. 44, Pl. 4, figs 11a, b; Belford, 1960, p. 17, Pl. 4, figs 4-7.

C.P.C. 3118—Hypotype (Pl. 4, figs 4, 5)

Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A.

8 feet above base of Toolonga Calcilutite

C.P.C. 3119—Hypotype (Pl. 4, fig. 6)

Same locality as above but at base of Toolonga Calcilutite

C.P.C. 3120—Vertical section (Pl. 4, fig. 7)

Scarp near emergency airfield, Murchison River area, 3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

MARSONELLA OXYCONA (Reuss, 1860); Belford, 1960.

See **TEXTULARIA TURRIS** d'Orbigny, Chapman, 1917.

Gaudryina oxycona Reuss, 1860, p. 227, Pl. 12, fig. 3.

Textularia turris d'Orbigny, Chapman, 1917, p. 18, Pl. 1, fig. 9.

Marsonella oxycona (Reuss), Belford, 1960, p. 16, Pl. 14, figs 1-3.

C.P.C. 3116—Hypotype (Pl. 3, figs 1, 2)

Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, W.A.

3 feet above base of Toolonga Calcilutite

C.P.C. 3117—Hypotype (Pl. 4, fig. 3)

Locality as above, but 14 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

MASSILINA GINGINENSIS Chapman, 1917.

See **MASSILINA GINGINENSIS** Chapman, Belford, 1960, p. 23.

Massilina ginginensis Chapman, 1917, p. 16, Pl. 1, fig. 3.

C.P.C. 3137—Holotype (designated by Belford, 1960, p. 23)

One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

MASSILINA GINGINENSIS Chapman, 1917; Belford, 1960.

Massilina ginginensis Chapman, 1917, p. 16, Pl. 1, fig. 3; Belford, 1960, p. 23, Pl. 6, figs 2-7.

C.P.C. 3137—Holotype (Chapman, Pl. 1, fig. 3; refigured Belford, Pl. 6, fig. 2)

One Tree Hill, near Gingin, Perth Basin, W.A.

Gingin Chalk (height above base of Gingin Chalk not known)

C.P.C. 3138 (Pl. 6, figs 3, 4), C.P.C. 3139 (Pl. 6, fig. 5)—Hypotypes

C.P.C. 3140 (Pl. 6, fig. 6), C.P.C. 3141 (Pl. 6, fig. 7)—Thin sections

Quarry, One Tree Hill, Gingin, Perth Basin, 32 feet above base of Gingin Chalk

Upper Cretaceous (Santonian)

MEANDROSPIRA AUSTRALAE (Crespin & Belford, 1957); Belford, 1968.

Streblospira australae Crespin & Belford, 1957, p. 75, Pl. 12, figs 10-13.

Meandrosira australae (Crespin & Belford), Belford, 1968, p. 6, Pl. 3, figs 19-20.

C.P.C. 6878—Hypotype

BMR 9, Core 10, at 992-1002 feet, Coordewandy Station, Carnarvon Basin, W.A.

Callytharra Formation

Lower Permian

MELONIS AFFINIS (Reuss, 1851); Belford, 1966.

Nonionina affine Reuss, 1851b, p. 72, Pl. 5, figs 32a-b.

Melonis affinis (Reuss), Belford, 1966, p. 184, Pl. 31, figs 1-4.

C.P.C. 6676 (Pl. 31, figs 1-2), C.P.C. 6677 (Pl. 31, fig. 3)—Hypotypes

E of Yekimbolje Village, Maprik subdistrict, Sepik district, New Guinea (Loc. 30, Map 8)

C.P.C. 6678 (Pl. 31, fig. 4)—part of horizontal section

Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

MELONIS POMPILIOIDES (Fichtel & Moll, 1798); Belford, 1966.

Nautilus pompilioides Fichtel & Moll, 1798, p. 31, Pl. 2.

Melonis pompilioides (Fichtel & Moll), Belford, 1966, p. 183, Pl. 30, figs 17-20.

C.P.C. 6673 (Pl. 30, figs 17-18), C.P.C. 6674 (Pl. 30, fig. 19)—Hypotypes

C.P.C. 6675 (Pl. 30, fig. 20)—part of horizontal section

Masaweng River, N. of Finschhafen, New Guinea (Loc. 16d, Map 7, section; Loc. 16f, hypotypes)

Upper Miocene

MILIAMMINA SPROULEI Nauss var. **GIGANTEA** Mellon & Wall, 1956; Crespin, 1963.

Miliammina sproulei Nauss var. *gigantea* Mellon & Wall, 1956, p. 21, Pl. 1, fig. 1; Crespin, 1963b, p. 60, Pl. 15, figs 13-18.

C.P.C. 4621—Hypotype A (Pl. 15, figs 13, 14)

C.P.C. 4622—Hypotype B (Pl. 15, figs 15, 16)

C.P.C. 4623—Hypotype C (Pl. 15, figs 17, 18)

W.C. and I.C. Bore 6763, D.L.J. Murray, Goolgamble, Bourke, northern New South Wales, at 277 feet

Lower Cretaceous

MILIOLINA ANGULATA Williamson, 1858; Chapman, 1909.

Miliolina bicornis (W. & J.), var. *angulata* Williamson, 1858, p. 88, Pl. 7, fig. 196.

Miliolina angulata Williamson, Chapman, 1909, p. 321, Pl. 13, fig. 5.

C.P.C. 7193 (3)—Hypotype

Off the Snares, S of New Zealand, at 65 fathoms, 166° 32' E, 48° 01' S

Recent

MILIOLINA CHRYSOSTOMA Chapman, 1909.

Miliolina chrysostoma Chapman, 1909, p. 322, Pl. 13, figs 8-10, Pl. 14, figs 1, 4.

C.P.C. 2327—Holotype (Pl. 13, figs 9a, b) (designated by I.C., 1968)

C.P.C. 2326 (1)—Paratype A (Pl. 13, fig. 8)

C.P.C. 2326 (2)—Paratype B (Pl. 13, fig. 10)

C.P.C. 2326 (3)—Paratype C (Pl. 14, fig. 1)

(Thin section shown in Pl. 14, fig. 4 is missing)

10 miles N of Enderby Island at 85 fathoms, NE end of Auckland Island, 166° 18' W, 58° 20' S

Recent

MILIOLINA CIRCULARIS (Bornemann)
var. **SUBLINEATA** Brady, 1884;
Chapman, 1909.

Miliolina circularis (Bornemann) var.
sublineata Brady, 1884, p. 169, Pl. 9,
figs 7a-c; Chapman, 1909, p. 319, Pl.
13, fig. 7.

C.P.C. 7193 (5)—Hypotype
10 miles N of Enderby Island, near NE end
of Auckland Island, at 85 fathoms, 166°
18' E, 50° 20' S

Recent

MILIOLINA POLYGONA (d'Orbigny,
1839); Chapman, 1909.

Quinqueloculina polygona d'Orbigny,
1839a, p. 198, Pl. 12, figs 21-23.

Miliolina polygona (d'Orbigny), Chapman,
1909, p. 321, Pl. 13, fig. 6.

C.P.C. 7193 (4)—Hypotype
10 miles N of Enderby Island, near NE
end of Auckland Island, at 85 fathoms,
166° 18' E, 50° 20' S

Recent

MILIOLINA VENUSTA (Karrer, 1868);
Chapman, 1917.

Quinqueloculina venusta Karrer, 1868, p.
147, Pl. 2, fig. 6.

Miliolina venusta (Karrer), Chapman,
1917, p. 15, Pl. 1, fig. 2; Pl. 12, fig. 112.

C.P.C. 7042 (2) (Pl. 1, fig. 2)—Hypotype

C.P.C. 7046 (2) (Pl. 12, fig. 112)—Hypo-
type

One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NEOECONIDES BERTHELOTIANUS
(d'Orbigny, 1839); Belford, 1966.

Rotalia berthelotiana d'Orbigny 1839c, p.
130, Pl. 1, figs 31-33.

Neoeponides berthelotianus (d'Orbigny),
Belford, 1966, p. 117, Pl. 17, figs 1-6.

C.P.C. 6447 (Pl. 17, figs 1-3), C.P.C.
6448 (Pl. 17, figs 4-5)—Hypotypes

C.P.C. 6449 (Pl. 17, fig 6)—Part of hori-
zontal section
Tubu area, Papua (Loc. 1d, Map 1)
Tubu Siltstone

Upper Miocene

NEOECONIDES PARANTILLARUM
(Galloway & Hemingway, 1941); Bel-
ford, 1966.

Eponides parantillarum Galloway &
Hemingway, 1941, p. 374, Pl. 18, figs
1a-c.

Neoeponides parantillarum (Galloway &
Hemingway), Belford, 1966, p. 118, Pl.
17, figs 13-15; Pl. 18, figs 1-3.

C.P.C. 6453 (Pl. 17, figs 13-15), C.P.C.
6454 (Pl. 18, figs 1, 2)—Hypotypes

C.P.C. 6455 (Pl. 18, fig. 3)—Part of hori-
zontal section

Tubu area, Papua (Hypotypes, Loc. 1b, 1a,
Map 1; section Loc. 1g)

'Tubu Siltstone'

Upper Miocene

NEOECONIDES SUBORNATUS (Cush-
man, 1921); Belford, 1966.

Pulvinulina berthelotiana d'Orbigny, var.
subornata Cushman, 1921, p. 333.

Neoeponides subornatus (Cushman),
Belford, 1966, p. 118, Pl. 17, figs 7-12.

C.P.C. 6450 (Pl. 17, figs 7-9), C.P.C. 6451
(Pl. 17, figs 10-11)—Hypotypes

C.P.C. 6452 (Pl. 17, fig. 12)—Part of
horizontal section

Tributary of Kaukomba Creek, Lower
Ramu-Atitau area, New Guinea (Loc.
41, Map 8)

Upper Miocene

NEOFLABELLINA PRAERETICULATA
Hiltermann, 1953; Belford, 1960.

Neoflabellina praereticulata Hiltermann,
1953, p. 53, text-fig. 3, fig. 37; Belford,
1960, p. 43, Pl. 12, figs 7, 8; text-fig. 2
(1-6).

C.P.C. 3223 (Pl. 12, fig. 7), C.P.C. 3227 (text-fig. 3 (3)), C.P.C. 3228 (text-fig. 2 (4))—Hypotypes

Scarp on coast 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A.

Toolonga Calcilutite, 7 feet above base of section

C.P.C. 3224 (Pl. 12, fig. 8), C.P.C. 3225 3225 (text-fig. 2 (1)), C.P.C. 3226 (text-fig. 2 (2))—Hypotypes

Scarp on Yaringa North Station, Shark Bay area, at side of North-West Coastal Highway, 31 miles N of Hamelin turnoff, 4 feet above base of section

Toolonga Calcilutite

C.P.C. 3229 (text-fig. 2 (5)), C.P.C. 3230 (text-fig. 2 (6))—Hypotypes

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, at top of exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

NODOSARELLA GRACILLIMA, Cushman, 1933; Belford, 1960.

Nodosarella gracillima Cushman, 1933, p. 64, Pl. 7, figs 14a, b; Belford, 1960, p. 75, Pl. 20, fig. 2.

C.P.C. 3332—Hypotype

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at top of exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

NODOSARIA CONICO-DENSESTRIATA Paalzow, 1935; Belford, 1968.

Nodosaria conico-densestriata Paalzow, 1935, p. 38, Pl. 14, figs 21-23; Belford, 1968, Pl. 3, fig. 9.

C.P.C. 6868—Hypotype

BMR 7, Core 5, at 397-403 feet, Middalya Station, Carnarvon Basin, 88 miles NE of Carnarvon in central-north part of Kennedy Range

Permian

NODOSARIA IRWINENSIS Howchin, 1895; Belford, 1968.

Nodosaria irwinensis Howchin, 1895, p. 196, Pl. 10, figs 7-8; Belford, 1968, Pl. 3, fig. 10.

C.P.C. 6869—Hypotype

BMR 9, Core 11, at 1083-1093 feet, Coordewandy Station, Carnarvon Basin, W.A. Callytharra Formation

Lower Permian

NODOSARIA LIMBATA d'Orbigny, 1840; Belford, 1960.

Nodosaria limbata d'Orbigny, 1840, p. 12, Pl. 1, fig. 1; Belford, 1960, p. 30, Pl. 11, figs 7-9.

C.P.C. 3207—Hypotype (Pl. 11, fig. 7)

Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite (Santonian)

C.P.C. 3208—Hypotype (Pl. 11, fig. 8)

Scarp on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, 7 feet above base of section

Toolonga Calcilutite (Campanian)

C.P.C. 3209—Hypotype (Pl. 11, fig. 9)

Same locality as C.P.C. 3208, but 20 feet above base of section (Campanian)

Upper Cretaceous (Santonian, Campanian)

NODOSARIA OBSCURA Reuss, 1845; Chapman 1917; Belford, 1960.

Nodosaria obscura Reuss, 1845, p. 26, Pl. 13, figs 7-9; Chapman, 1917, p. 27, Pl. 4, fig. 42; Belford, 1960, p. 36, Pl. 11, figs 1-2; text-fig. 1 (1-15).

C.P.C. 3186 (Pl. 11, fig. 1), C.P.C. 3187 (Pl. 11, fig. 2), C.P.C. 389 (text-fig. (7)), C.P.C. 3190 (text-fig. 1 (2)), C.P.C. 3191 (text-fig. 1 (3)), C.P.C. 3192 (text-fig. 1 (4)), C.P.C. 3193 (text-fig. 1 (5)), C.P.C. 3194 (text-fig. 1 (6)), C.P.C. 3195 (text-fig. 1 (7)), C.P.C. 3196 (text-fig. 1 (8)), C.P.C. 3201 text-fig. 1 (13)), C.P.C. 3202 (text-fig. 1 (14)), C.P.C. 3203 (text-fig. 1 (15))—Hypotypes

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Chalk (Santonian)

C.P.C. 3188 (Pl. 11, fig. 3), C.P.C. 3197 (text-fig. 1 (9)), C.P.C. 3198 (text-fig. 1 (10)), C.P.C. 3199 (text-fig. 1 (11))—Hypotypes

Same locality as above, but 10 feet below top of exposure of Toolonga Calcilutite (Campanian)

C.P.C. 3200—Hypotype (text-fig. 1 (12))
Scarp, Toolonga Point, Murchison River area, at base of Toolonga Calcilutite (Santonian)

Upper Cretaceous (Santonian, Campanian)

NODOSARIA OBSCURA Reuss, 1846; Chapman, 1917.

See *NODOSARIA OBSCURA* Reuss, Belford, 1960, p. 36.

Nodosaria obscura Reuss, 1846, p. 26, Pl. 3, figs 7-9; Chapman, 1917, p. 27, Pl. 4, fig. 42.

C.P.C. 7043 (12)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA PERPUSILLA Chapman, 1893; 1917.

See *DENTALINA ADMODICOSTATA* Belford, 1960, p. 33.

Nodosaria perpusilla Chapman, 1893, p. 591, Pl. 9, fig. 6; Chapman, 1917, p. 28, Pl. 12, fig. 118.

C.P.C. 7046 (8)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA PRISMATICA Reuss, 1860; Chapman, 1917.

See *NODOSARIA PRISMATICA* Reuss, Belford, 1960.

Nodosaria prismatica Reuss, 1860, p. 180, Pl. 2, fig. 2; Chapman, 1917, p. 28, Pl. 4, fig. 43.

C.P.C. 7043 (13)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA PRISMATICA Reuss, 1860; Chapman, 1917; Belford, 1960.

Nodosaria prismatica Reuss, 1860, Pl. 2, fig. 2; Chapman, 1917, p. 28, Pl. 4, fig. 43; Belford, 1960, p. 38, Pl. 11, figs 4-6.

C.P.C. 3204 (Pl. 11, fig. 4), C.P.C. 3205 (Pl. 11, fig. 5)—Hypotypes
Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

C.P.C. 3206—Hypotype (Pl. 11, fig. 6)
Scarp, Bidgie Bidgie Point, Murchison River area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

NODOSARIA RAGGATTI Crespin, 1958; Belford, 1968.

Nodosaria raggatti Crespin, 1958, p. 104, Pl. 27, figs 1-5; Belford, 1968, Pl. 3, figs 5-7.

C.P.C. 6864—Hypotype (Pl. 3, fig. 5)
BMR 7, Core 16, at 1087-1095 feet, Mid-dalya Station, Carnarvon Basin, W.A., 88 miles NE of Carnarvon in central-north part of Kennedy Range

C.P.C. 6865 (Pl. 3, fig. 6), C.P.C. 6866 (Pl. 3, fig. 7)—Hypotypes
BMR, Core 11, 1083-1093, Dauri Creek, Coondewandy Station, Carnarvon Basin
Callytharra Formation

Lower Permian

NODOSARIA SUBRADICULA Schwager, 1866; Chapman, 1909.

Nodosaria subradicula Schwager, 1866, p. 222, Pl. 5, fig. 50. Chapman, 1909, p. 340, Pl. 16, fig. 2.

C.P.C. 7193 (23)—Hypotype
10 miles N of Enderby Island, near NE end of Auckland Island, at 85 fathoms, 166° 18' E, 50° 20' S

Recent

NODOSARIA SUBTERTENUATA Schwager, 1866; Chapman, 1917.

Nodosaria subtertenuata Schwager, 1866, p. 235, Pl. 6, fig. 74; Chapman, 1917, p. 27, Pl. 12, fig. 117.

C.P.C. 7046 (7)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA sp. cf. N. AFFINIS Reuss, 1845; Belford, 1960.

Nodosaria affinis Reuss, 1845, p. 26, Pl. 13, figs 16a, b.

Nodosaria sp. cf. *N. affinis* Reuss, Belford, 1960, p. 39, Pl. 11, figs 10-12.

C.P.C. 3210—Figured specimen (Pl. 11, fig. 10)

Quarry, One Tree Hill, near Gingin, Perth Basin, W.A.

Gingin Chalk (Santonian), 32 feet above base

C.P.C. 3211—Figured specimen (Pl. 11, fig. 11)

Scarp near emergency airfield, Murchison River area, Carnarvon Basin, 3 feet above base of Toolonga Calcilutite (Santonian)

C.P.C. 3212—Figured specimen (Pl. 11, fig. 12)

Scarp, Bidgie Bidgie Point, Murchison River area, at top of exposure of Toolonga Calcilutite (Campanian)

Upper Cretaceous (Santonian, Campanian)

NODOSARIA sp. cf. N. STRIATELLA (Paalzow, 1935); Belford, 1968.

Dentalina striatella Paalzow, 1935, p. 38, Pl. 4, fig. 24.

Nodosaria sp. cf. *N. striatella* (Paalzow), Belford, 1968, Pl. 3, fig. 8.

C.P.C. 6867—Figured specimen
BMR 7, Core 16, at 1087-1095 feet, Midalya Station, Carnarvon Basin, W.A., 88 miles NE of Carnarvon, in central-north part of Kennedy Range

Permian

NODOSARIA sp. Belford, 1960.

See **NODOSARIA (D.) PAUPERCULA** Reuss, Chapman, 1917.

Nodosaria (D.) paupercula Reuss, Chapman, 1917, p. 27, Pl. 4, fig. 41.

Nodosaria sp. Belford, 1960, p. 40, Pl. 11, fig. 13.

C.P.C. 3231—Figured specimen
Quarry, One Tree Hill, near Gingin, Perth Basin, W.A.

Gingin Chalk, 32 feet above base

Upper Cretaceous (Santonian)

NODOSARIA (DENTALINA) ANNU-LATA Reuss, 1844; Chapman, 1917.

See **DENTALINA MEGALOPOLITANA** Reuss, Belford, 1960, p. 26.

Nodosaria (Dentalina) annulata Reuss, 1844, p. 27, Pl. 8, figs 4, 67; Pl. 13, fig. 21; Chapman, 1917, p. 24, Pl. 3, fig. 30.

C.P.C. 3150—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) ANNU-LATA Reuss, 1844; Chapman, 1917.

See **DENTALINA BASIPLANATA** Cushman, Belford, 1960, p. 25.

Nodosaria (Dentalina) annulata Reuss, 1844, p. 27, Pl. 8, figs 4, 67; Pl. 13, fig. 21; Chapman, 1917, p. 24, Pl. 3, fig. 31.

C.P.C. 7043 (1)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) COMMUNIS d'Orbigny, 1840; Chapman, 1917.

See **DENTALINA GRACILIS** d'Orbigny, Belford, 1960, p. 29.

Dentalina communis d'Orbigny 1840, p. 13, Pl. 1, fig. 4.

Nodosaria (Dentalina) communis d'Orbigny, Chapman, 1917, p. 24, Pl. 3, fig. 32.

C.P.C. 7043 (2)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) CONSOBRINA d'Orbigny, var. **EMACIATA** Reuss, 1851; Chapman, 1917.

Dentalina emaciata Reuss, 1851, p. 63, Pl. 3, fig. 9.

Nodosaria (Dentalina) consobrina var. *emaciata* Reuss, Chapman, 1917, p. 24, Pl. 23, fig. 33.

C.P.C. 7043 (3)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) COSTELLATA Reuss, 1846; Chapman, 1917.

Nodosaria costellata Reuss, 1846, p. 27, Pl. 13, fig. 18.

Nodosaria (Dentalina) costellata Chapman, 1917, p. 26, Pl. 4, fig. 38.

C.P.C. 7043 (8)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) DISTINCTA Reuss, 1860; Chapman, 1917.

Dentalina distincta Reuss, 1860, p. 184, Pl. 2, fig. 5.

Nodosaria (Dentalina) distincta Reuss, Chapman, 1917, p. 23, Pl. 3, fig. 27.

C.P.C. 7042 (27)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) FILIFORMIS d'Orbigny, 1826; Chapman, 1917.

Nodosaria filiformis d'Orbigny, 1826, p. 253, No. 14.

Nodosaria (Dentalina) filiformis d'Orbigny, Chapman, 1917, p. 25, Pl. 4, fig. 35.

C.P.C. 7043 (5)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) INTERCELLULARIS Brady, 1884; Chapman, 1917.

Nodosaria (Dentalina) intercellularis Brady, 1884, p. 515, Pl. 65, figs 1-4; Chapman, 1917, p. 26, Pl. 4, fig. 37.

C.P.C. 7043 (7)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) LEGUMEN Reuss, 1846; Chapman, 1917.

Nodosaria (Dentalina) legumen Reuss, 1846, pt. 1, p. 28, Pl. 13, figs 23, 24; Chapman, 1917, p. 25, Pl. 12, fig. 119.

C.P.C. 7046 (9)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) LORNEIANA, d'Orbigny, 1840; Chapman, 1917.

Dentalina lorneiana d'Orbigny, 1840, p. 14, Pl. 1, figs 8, 9.

Nodosaria (Dentalina) lorneiana d'Orbigny, Chapman, 1917, p. 25, Pl. 4, fig. 34.

C.P.C. 7043 (4)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) OBLIQUA (Linnaeus, 1758); Chapman, 1917.

See **DENTALINA ADMODICOSTATA** Belford, 1960, p. 33.

Nautilus obliquus Linnaeus, 1758, 711.

Nodosaria (Dentalina) obliqua (Linnaeus), Chapman, 1917, p. 26, Pl. 4, fig. 39.

C.P.C. 7043 (9)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) PAUPER-ATA d'Orbigny, 1846; Chapman, 1917.

Dentalina pauperata d'Orbigny, 1846, p. 46, Pl. 1, figs 57, 58.

Nodosaria (Dentalina) pauperata d'Orbigny, Chapman, 1917, p. 23, Pl. 3, fig. 26.

C.P.C. 7042 (16)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) PAUPER-CULA Reuss, 1846; Chapman, 1917.

See **NODOSARIA** sp. Belford, 1960, p. 40.

Nodosaria paupercula Reuss, 1846, p. 26, Pl. 12, fig. 12.

Nodosaria (Dentalina) paupercula Reuss, Chapman, 1917, p. 27, Pl. 4, fig. 41.

C.P.C. 7043 (11)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) RET-RORSA (Reuss, 1864); Chapman, 1917.

Dentalina retrorsa Reuss, 1864, p. 46, Pl. 3, fig. 27.

Nodosaria (Dentalina) retrorsa (Reuss), Chapman, 1917, p. 25, Pl. 4, fig. 36.

C.P.C. 7043 (6)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) SOLUTA (Reuss, 1851); Chapman, 1917.

See **DENTALINA CATENULA** Reuss, Belford, 1960, p. 27.

Dentalina soluta Reuss, 1851b, p. 60, Pl. 3, figs 4a-b.

Nodosaria (Dentalina) soluta Reuss, Chapman, 1917, p. 23, Pl. 3, fig. 28.

C.P.C. 7042 (28)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) SOLUTA var. **DISCREPANS** Reuss, 1860; Chapman, 1917.

Dentalina discrepans Reuss, 1860, p. 184, Pl. 3, fig. 7.

Nodosaria (Dentalina) soluta var. *discrepans* Reuss, Chapman, 1917, p. 24, Pl. 3, fig. 29.

C.P.C. 7042 (29)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NODOSARIA (DENTALINA) SULCATA Nilsson, 1827; Chapman, 1917.

Nodosaria sulcata Nilsson, 1827, p. 8, Pl. 9, fig. 19.

Nodosaria (Dentalina) sulcata Nilsson, Chapman, 1917, p. 26, Pl. 4, fig. 40.

C.P.C. 7043 (10)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

NONIONELLA AMPHILABRATA Belford, 1966.

Nonionella amphilabrata Belford, 1966, p. 159, Pl. 31, figs 16-20.

C.P.C. 6580—Holotype (Pl. 31, figs 16-18)
C.P.C. 6581—Paratype (Pl. 31, figs 19-20)
Road cutting at new residence, N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

NONIONELLA IRIDEA Heron-Allen & Earland, 1932; Crespin, 1960.

Nonionella iridea Heron-Allen & Earland, 1932, p. 438, Pl. 16, figs 14-16; Crespin, 1960, p. 26, Pl. 3, fig. 16.

C.P.C. 610—Hypotype

Terrace about 120 feet above water level, near NW corner, Deep Lake, Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

NONIONELLA sp.A Belford, 1966.

Nonionella sp.A Belford, 1966, p. 160, Pl. 31, figs 21-31.

C.P.C. 6582—Figured specimen

Road cutting at new residence, N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

NUTTALLIDES TRUMPYI (Nuttall, 1930); Belford, 1966.

Eponides trumpyi Nuttall, 1930, p. 287, Pl. 24, figs 9, 13, 14.

Nuttallides trumpyi (Nuttall), Belford, 1966, p. 106, text-fig. 11 : 1-4.

C.P.C. 6402 (text-fig. 11 : 1); C.P.C. 6403 (text-fig. 11 : 2), C.P.C. 6404 (text-fig. 11 : 3)—sections showing internal portion

C.P.C. 6405 (text-fig. 11 : 4)—section along partition

Tampica region, Mexico

Aragon Formation

NUTTALLINELLA CORONULA (Belford, 1958); Belford, 1960.

Nuttallina coronula Belford, 1958, p. 97, Pl. 19, figs 1-14, text-fig. 4:

Nuttallinella coronula (Belford), Belford, 1960, p. 84, Pl. 23, figs 7-12.

C.P.C. 1530—Holotype (refigured, Pl. 23, figs 7-9)

Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, W.A., 14 feet above base of Toolonga Calcilutite (Santonian)

C.P.C. 1533—Paratype C (refigured, Pl. 23, figs 10, 11)

C.P.C. 1540—Vertical section (refigured, Pl. 23, fig. 12)

Outcrop, 7 Miles ENE of No. 10 Bore, Cardabia, Carnarvon Basin, 23 feet above base of Korojon Calcarenite (Upper Campanian)

Upper Cretaceous (Santonian, Upper Campanian)

ORBULINA UNIVERSA d'Orbigny, 1839; Jenkins, 1960.

Orbulina universa d'Orbigny, 1839a, p. 2, Pl. 1, fig. 1; Jenkins, 1960, p. 356, Pl. 2, fig. 12.

C.P.C. 4185—Hypotype

Lakes Entrance Oil Shaft, Gippsland, Victoria, at 380 feet (*Globorotalia menardii* *miotumida* zone, 408-212 feet)

Miocene

ORBULINA UNIVERSA d'Orbigny, 1839; Belford, 1962.

Orbulina universa d'Orbigny, 1839a, p. 3, Pl. 1, fig. 1; Belford, 1962, p. 6, Pl. 1, figs 1-15.

C.P.C. 4042—Hypotype A (Pl. 1, fig. 1)

C.P.C. 4043—Hypotype B (Pl. 1, fig. 2)

C.P.C. 4044—Hypotype C (Pl. 1, fig. 3)

C.P.C. 4047—Hypotype D (Pl. 1, fig. 6)

C.P.C. 4048—Hypotype E (Pl. 1, fig. 7)

C.P.C. 4049—(Pl. 1, fig. 8), C.P.C. 4050 (Pl. 1, fig. 9), C.P.C. 4051 (Pl. 1, fig. 10), C.P.C. 4052 (Pl. 1, fig. 11), C.P.C. 4053 (Pl. 1, fig. 12), C.P.C. 4054 (Pl. 1, fig. 13), C.P.C. 4055 (Pl. 1, fig. 14)—Thin sections

Locality E of Karova Creek, Kerema-Karova Creek area, Papua

Middle Miocene

C.P.C. 4045—Hypotype F (Pl. 1, fig. 4)
Upper Maipora Creek, W of Saw
Mountains, Papua

Middle Miocene

C.P.C. 4046—Hypotype H (Pl. 1, fig. 5),
C.P.C. 4056—Thin Section (Pl. 1, fig.
15)

On Hells Gate Creek, $\frac{1}{2}$ mile from junction
of Tauri River, Papua

Lower Miocene (Burdigalian)

ORIDORSALIS PAUCIAPERTURA Belford, 1966.

Oridorsalis pauciapertura Belford, 1966, p.
173, Pl. 30, figs 7-13; text-fig. 22: 3.

C.P.C. 6639—Holotype (Pl. 30, figs 7-9)

C.P.C. 6640—Paratype (Pl. 30, figs 10-11)

C.P.C. 6641—Horizontal section (Pl. 30,
figs 12-13)

C.P.C. 6642—Paratype (text-fig. 22: 3)
Nuru Valley, New Guinea, between
Diduella and Old Bauri, on hill with
garden plot (Loc. 21, Map 8)

Upper Miocene

ORIDORSALIS UMBONATUS (Reuss, 1851); Belford, 1966.

Rotalia umbonata Reuss, 1951b, p. 75, Pl.
5, figs 35a-c.

Oridorsalis umbonatus (Reuss), Belford,
1966, p. 172, Pl. 30, figs 1-6; text-fig.
22: 4-5.

C.P.C. 6634 (Pl. 30, figs 1-3), C.P.C. 6635
(Pl. 30, figs 4-5), C.P.C. 6637 (text-fig.
22: 4), C.P.C. 6638 (text-fig. 22: 5)
—Hypotypes

W of Nangoru, Maprik subdistrict, Sepik
district, New Guinea (Loc. 21, Map 8)

C.P.C. 6636 (Pl. 30, fig. 6)—Horizontal
section

Nuru Valley, New Guinea, between
Diduella and Old Bauri, on hill with
garden plot (Loc. 21, Map 8)

Upper Miocene

ORIDORSALIS VARIAPERTURA Belford, 1966.

Oridorsalis variapertura Belford, 1966, p.
171, Pl. 29, figs 17-23; text-fig. 22: 1-2.

C.P.C. 6628—Holotype (Pl. 29, figs 17-19)

C.P.C. 6629—Paratype (Pl. 29, figs 20-21)

C.P.C. 6632—Paratype (text-fig. 22: 1-2)

C.P.C. 6630—Horizontal section (Pl. 29,
fig. 22)

C.P.C. 6631—Part of horizontal section
(Pl. 29, fig. 23)

Kisila Village, E of Josefstaal, Lower
Ramu-Atitau area, New Guinea (Loc.
39, Map 8)

Upper Miocene

OSANGULARIA BENGALENSIS (Schwager, 1866); Belford, 1966.

Anomalina bengalensis Schwager, 1866, p.
259, Pl. 7, fig. 111.

Osangularia bengalensis (Schwager), Bel-
ford, 1966, p. 176, Pl. 35, figs 6-9.

C.P.C. 6645 (Pl. 35, figs 6-8)—Hypotype

C.P.C. 6646 (Pl. 35, fig. 9)—Horizontal
section

E of Karova Creek, Kerema-Karova Creek
area, Papua (Loc. 7a, Map 3)

Middle Miocene

OSANGULARIA CULTER (Parker & Jones, 1865); Belford, 1966.

Planorbulina farcata (Fichtel & Moll) var.
ungeriana (d'Orbigny), subvar. *culter*
Parker & Jones, 1865, p. 382, Pl. 19,
figs 1a-b.

Osangularia culter (Parker & Jones), Bel-
ford, 1966, p. 175, Pl. 35, figs 1-5.

C.P.C. 6643 (Pl. 35, figs 35, figs 1-3),
C.P.C. 6644 (Pl. 35, figs 4-5)—Hypo-
types (C.P.C. and figure numbers omitted
from explanation of plate)

Nagam River, W of Periana Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

PALMULA sp. aff. **P. PILULATA** Cushman, 1938; Belford, 1960.

See **FLABELLINA RUGOSA** d'Orbigny, Chapman, 1917.

Flabellina rugosa d'Orbigny, Chapman, 1917, p. 39, Pl. 10, fig. 90.

Palmula pilulata Cushman, 1938, p. 37, Pl. 6, fig. 2.

Palmula sp. aff. *P. pilulata* Cushman, Belford, 1960, p. 42, Pl. 12, figs 4-6.

C.P.C. 3220 (Pl. 12, fig. 4), C.P.C. 3221 (Pl. 12, fig. 5)—Figured specimens Quarry, One Tree Hill near Gingin, Perth Basin, W.A.

Gingin Chalk (Santonian), 32 feet above base

C.P.C. 3222—Figured specimen (Pl. 12, fig. 6)

Scarp on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin

Toolonga Calcilutite (Campanian), 7 feet above base of section

Upper Cretaceous (Santonian, Campanian)

PARAFISSURINA FUSULIFORMIS Loeblich & Tappan, 1953; Crespin, 1960.

Parafissurina fusuliformis Loeblich & Tappan, 1953, p. 79, Pl. 14, figs 18, 19; Crespin, 1960, p. 24, Pl. 1, fig. 12.

C.P.C. 601—Hypotype

Terrace, about 120 feet above water level near NW corner, Deep Lake, Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

PARAFISSURINA SUBOVATA Parr, 1950; Crespin, 1960.

Parafissurina subovata Parr, 1950, p. 139, Pl. 10, figs 12-14; Crespin, 1960, p. 24, Pl. 1, fig. 4.

C.P.C. 602—Hypotype

S terrace, Lake Dingle (Broad Lake), Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

PARRELLINA IMPERATRIX (Brady, 1884); Crespin, 1963.

Polystomellina imperatrix Brady, 1884, p. 788, Pl. 110, figs 13-15.

Parrellina imperatrix (Brady), Crespin, 1963a, p. 151 (Lists), Pl. 22, figs 19-21.

C.P.C. 390 (Pl. 22, fig. 19), C.P.C. 391 (Pl. 22, fig. 20), C.P.C. 392 (Pl. 22, fig. 21)—Hypotypes

Dutton Way, Portland, Victoria

Maretime Member, Whalers Bluff Formation

Upper Pliocene

PARRELLOIDES BRADYI (Trauth, 1918); Belford, 1966.

Truncatulina bradyi Trauth, 1918, p. 235.

Parrelloides bradyi (Trauth), Belford, 1966, p. 100, Pl. 11, figs 10-19.

C.P.C. 6388 (Pl. 11, figs 10-12), C.P.C. 6389 (Pl. 1, figs 13-14)—Hypotypes E of Amaimon, between Gogol River and Amaimon, New Guinea (Loc. 18, Map 8)

Upper Miocene

C.P.C. 6390 (Pl. 11, figs 15-16; C.P.C. number omitted on explanation of plate) Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6391 (Pl. 11, figs 17-18)—Horizontal section

C.P.C. 6392 (Pl. 11, fig. 19)—Vertical section

Nuru Valley, New Guinea, between Diduella and Old Bauri, on hill with garden plot (Loc. 21, Map 8)

Upper Miocene

PARRELLOIDES OKINAWAENSIS (LeRoy, 1964); Belford, 1966.

Cibicides okinawaensis LeRoy, 1964, p. 44, Pl. 9, figs 1-3.

Parrelloides okinawaensis (LeRoy), Belford, 1966, p. 103, Pl. 12, figs 8-14.

C.P.C. 6397 (Pl. 12, figs 8-10; not holotype as on explanation of plate), C.P.C. 6398 (Pl. 12, figs 11-12; not paratype A as on plate), C.P.C. 6399 (Pl. 12, fig. 13; not paratype B as on plate)—Hypotypes
C.P.C. 6400 (Pl. 12, fig. 14)—Horizontal section

Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

PARRELLOIDES SOENDAENSIS (LeRoy, 1964); Belford, 1966.

Cibicides soendaensis LeRoy, 1941, p. 119, Pl. 2, figs 1-3.

Parrelloides soendaensis (LeRoy), Belford, 1966, p. 102, Pl. 12, figs 1-7.

C.P.C. 6393 (Pl. 12, figs 1-3), C.P.C. 6394 (Pl. 12 figs 4-5), C.P.C. 6395 (Pl. 12, fig. 6; not C.P.C. 6396 as shown on explanation of plate)—Hypotypes

C.P.C. 6396 (Pl. 12, fig. 7)—Horizontal section

Road cutting at new residence, N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

PARVICARININA ALTOCAMERATA (Heron-Allen & Earland, 1922); Belford, 1966.

Truncatulina tenuimargo var. *altocamerata* Heron-Allen & Earland, 1922, p. 209, Pl. 7, figs 24-27.

Parvicarinina altocamerata (Heron-Allen & Earland); Belford, 1966, p. 93, Pl. 14, figs 14-16.

C.P.C. 6372—Hypotype

Nagam River, W of Periana Village, Wewak subdistrict, Sepik District, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

PELOSINA AMPULLA Crespin, 1958; Belford, 1968.

Pelosina ampulla Crespin, 1958, p. 42, Pl. 3, figs 1-3; Belford, 1968, Pl. 1, fig. 1.

C.P.C. 6822—Hypotype

BMR 7, Core 23, at 1793-1802 feet, Mid-dalya Station, Carnarvon Basin, 88 miles NE of Carnarvon, in central-north part of Kennedy Range

Permian

PELOSINA LAGENOIDES Crespin, 1953; Crespin, 1963.

Pelosina lagenoides Crespin, 1953, p. 28, Pl. 5, fig. 1; 1963b, p. 22, Pl. 1, figs 19, 21.

C.P.C. 4422—Hypotype A (Pl. 1, fig. 19) FBH No. 1 Bore, Wyaaba, northern Queensland, core 3, at 2229 feet Blackdown Formation

C.P.C. 4423—Hypotype B (Pl. 1, fig. 20) Broken Dam Bore, Canary Station, western Queensland, at 51-53 feet Lower Wilgunya Formation

Lower Cretaceous

PLACOPSILINA CENOMANA d'Orbigny, 1847; Chapman, 1917.

Placopsilina cenomana d'Orbigny, 1847 (see Reuss, 1854, p. 71, Pl. 28, figs 4, 5); Chapman, 1917, p. 17, Pl. 1, fig. 5.

C.P.C. 7042 (5)—Hypotype One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

PLANISPIRINA ANTARCTICA Chapman, 1909.

Planispirina antarctica Chapman, 1909, p. 324, Pl. 14, figs 5a, b.

C.P.C. 2324—Holotype

10 miles N of Enderby Island, near NE end of Auckland Island, at 85 fathoms, 166° 18' E, 50° 20' S

Recent

PLANISPIRINA BUCCULENTA (Brady, 1884); Chapman, 1909.

Miliolina bucculenta Brady, 1884, p. 170, Pl. 114, figs 3a, b.

Planispirina bucculenta (Brady), Chapman, 1909, p. 324, Pl. 14, fig. 2.

C.P.C. 7193 (6)—Hypotype
10 miles N of Enderby Island, near NE
end of Auckland Island, at 85 fathoms,
166° 18' E, 50° 20' S

Recent

PLANULINA PLANA Belford, 1966.

Planulina plana Belford, 1966, p. 127, Pl. 10, figs 14-19.

C.P.C. 6463—Holotype (Pl. 10, figs 14-16)

C.P.C. 6464—Paratype (Pl. 10, figs 17-18)

C.P.C. 6465—(Pl. 10, fig. 19)—part of
horizontal section. Nagam River, W of
Periama Village, Wewak subdistrict,
Sepik district, New Guinea (Loc. 27,
Map 8)

Uppermost Miocene or Pliocene

PLANULINA RETIA Belford, 1966.

Planulina retia Belford, 1966, p. 123, Pl. 11, figs 1-9 (not text-fig. 32: 4, 5 as given in text, p. 123).

C.P.C. 6466—Holotype (Pl. 11, figs 1-3)

C.P.C. 6467—Paratype A (Pl. 11, figs 4-6)

C.P.C. 6468—Paratype B (Pl. 11, fig. 7)

C.P.C. 6469 (Pl. 11, fig. 8), C.P.C. 6470
(not 6476 as on explanation of plate)
(Pl. 11, fig. 9)—parts of horizontal
section. E of Karova Creek, Kerema-
Karova Creek area, Papua (Loc. 7a,
Map 3)

Middle Miocene

PLANULINA UNGERIANA (d'Orbigny, 1846); Belford, 1966.

Rotalia ungeriana d'Orbigny, 1846, p. 157, Pl. 8, figs 16-18.

Planulina ungeriana (d'Orbigny), Belford, 1966, p. 121, Pl. 10, figs 7-13.

C.P.C. 6459 (Pl. 10, figs 7-9), C.P.C. 6460
(Pl. 10, figs 10-11)—Hypotypes
Nagam River, W of Periama Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6461 (Pl. 10, fig. 12), C.P.C. 6462
(Pl. 10, fig. 13)—parts of horizontal
section

On a tributary of Kaukomba Creek, Lower
Ramu-Atitau area, New Guinea (Loc. 41,
Map 8)

Upper Miocene

PLANULINA WUELLERSTORFI (Schwager); Belford, 1966.

Anomalina wuellerstorfi Schwager, 1866, p. 258, Pl., figs 105-107.

Planulina wuellerstorfi (Schwager), Belford, 1966, p. 120, Pl. 10, figs 1-6.

C.P.C. 6456 (Pl. 10, figs 1-3), C.P.C. 6457
(Pl. 10, figs 4-5)—Hypotypes

Nuru Valley, New Guinea, between Didu-
eila and Old Bauri on hill with garden
plot (Loc. 21, Map 8)

Upper Miocene

C.P.C. 6458 (Pl. 10, fig. 6)—part of hori-
zontal section

Nagam River, W of Periama Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

PLEUROSATOMELLA SUBNODOSA
Reuss, 1860; Belford, 1960.

Pleurostomella subnodosa Reuss, 1860, p. 204, Pl. 8, figs 2a, b; Belford, 1960, p. 70, Pl. 19, figs 3-5.

C.P.C. 3317—Hypotype (Pl. 19, figs 3, 4)
Scarp, Toolonga Point, Murchison River
area, Carnarvon Basin, W.A., at base of
Toolonga Calcilutite

C.P.C. 3318—Hypotype (Pl. 19, fig. 5)
Scarp, Bidgie Bidgie Point, Murchison River
area, at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

POLYMORPHINA ANGUSTA Egger, 1857, Chapman, 1917.
Specimen missing from slide (I.C.)

POLYMORPHINA COMMUNIS
d'Orbigny, 1826; Chapman, 1917.

Polymorphina (Guttulina) communis,
d'Orbigny, 1826, p. 266, Pl. 2, figs 1-4;
Modèle No. 62.

Polymorphina communis d'Orbigny,
Chapman, 1917, p. 41, Pl. 10, fig. 95.

C.P.C. 7045 (5)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

POLYMORPHINA COMPRESSA
d'Orbigny, 1846; Chapman, 1917.

Polymorphina compressa d'Orbigny, 1846,
p. 233, Pl. 12, figs 32-34; Chapman,
1917, p. 40, Pl. 10, fig. 94.

C.P.C. 7045 (4)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

POLYMORPHINA GIBBA d'Orbigny,
fistulose var. RACEMOSA Jones &
Chapman, 1896; Chapman, 1909.

Polymorphina gibba d'Orbigny, *fistulose* var.
racemosa Jones & Chapman, 1896, pp.
497, 504, figs 17, 18; Chapman, 1909,
p. 348, Pl. 17, fig. 1.

C.P.C. 7193 (30)—Hypotype
Off the Snares, S of New Zealand, at 60
fathoms, 166° 32' E, 48° 01' S

Recent

POLYMORPHINA LACTEA (Walker &
Jacob, 1798); Chapman, 1917.

Serpula lactea Walker & Jacob, 1798, p.
634, Pl. 24, fig. 4.

Polymorphina lactea (Walker & Jacob),
Chapman, 1917, p. 41, Pl. 10, fig. 96.

C.P.C. 7045 (6)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

POLYMORPHINA LACTEA (Walker &
Jacob) **fistulose var. DIFFUSA** Jones &
Chapman, 1896; Chapman, 1909.

Polymorphina lactea (Walker & Jacob) var.
diffusa Jones & Chapman, 1896, pp. 499,
505, fig. 28; Chapman, 1909, p. 346, Pl.
16, fig. 7.

C.P.C. 7193 (28)—Hypotype
NE of Bounty Island at 50 fathoms, 170° 05'
E, 47° 43' S

Recent

POLYMORPHINA SORORIA Reuss,
1862; Chapman, 1917.

Polymorphina (Guttulina) sororia Reuss,
1862, p. 121, Pl. 2, figs 25-29.

Polymorphina sororia Reuss, Chapman,
1917, p. 40, Pl. 10, fig. 92.

C.P.C. 7045 (2)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

PRAEBULIMINA OVULUM (Reuss,
1844); Belford, 1960.

Bulimina ovulum Reuss, 1844, p. 215.

Praebulimina ovulum (Reuss), Belford,
1960, p. 64, Pl. 16, figs 7-9.

C.P.C. 3290 (Pl. 16, figs 7, 8), C.P.C.
3291 (Pl. 16, fig. 9)—Hypotypes
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A., at top of
exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

PRAEGLOBOBULIMINA SPINESCENS
(Brady, 1884); Belford, 1966.

Bulimina pyrula d'Orbigny, var. *spinescens*
Brady, 1884, p. 400, Pl. 50, figs 11-12.

Praeglobobulimina spinescens (Brady),
Belford, 1966, p. 73, Pl. 6, figs 19-21;
text-fig. 6:7-8.

C.P.C. 6318 (Pl. 6, figs 19-20), C.P.C. 6319 (Pl. 6, fig. 21)—Hypotypes
Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 21, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6320 (text-fig. 6: 7)—Hypotype
Yekimbolje Village, Maprik subdistrict, Sepik district, New Guinea (Loc. 30, Map 8)

Upper Miocene

PROTEONINA sp. Crespin, 1961.

Proteonina sp. Crespin, 1961, p. 404, Pl. 65, fig. 8.

C.P.C. 411—Figured specimen
SE end of Bugle Gap, Fitzroy Basin, W.A., between 0-22 feet above base of section
Probably Gogo Formation

Upper Devonian

PROTOGLOBOBULIMINA AFFINIS (d'Orbigny, 1839); Belford, 1966.

Bulimina affinis d'Orbigny, 1839, p. 105, Pl. 2, figs 25-26.

Protoglobobulimina affinis (d'Orbigny), Belford, 1966, p. 69, Pl. 6, figs 14-16; text-fig. 6:3-4; text-fig. 7:12.

C.P.C. 6303 (Pl. 6, figs 14-15), C.P.C. 6304 (Pl. 6, fig. 16)—Hypotypes
E of Karova Creek, Kerema-Karova Creek area, Papua (Loc. 7, Map 3)

Middle Miocene

C.P.C. 6302 (text-fig. 7:12)—section showing pores

C.P.C. 6305 (text-fig. 6:3), C.P.C. 6306 (text-fig. 6:4)—Hypotypes
Kisila Village, E of Josefstal, Lower Ramu-Atitau area, New Guinea (Loc. 39, Map 8)

Upper Miocene

PROTOGLOBOBULIMINA MICROLONGISTRIATA (LeRoy, 1941); Belford, 1966.

Bulimina microlongistriata LeRoy, 1941, p. 32, Pl. 1, figs 97-98.

Protoglobobulimina microlongistriata (LeRoy), Belford, 1966, p. 70, Pl. 6, figs 17-18; text-fig. 6: 5-6; text-fig. 7: 13-15.

C.P.C. 6308 (Pl. 6, fig. 17), C.P.C. 6309 (Pl. 6, fig. 18), C.P.C. 6310 (text-fig. 6:5-6)—Hypotypes

C.P.C. 6311 (text-fig. 7:13-15)—section showing pores

Tubu area, Papua (Loc. 1d, Map 1)
'Tubu Siltstone'

Upper Miocene

PROTOGLOBOBULIMINA OVATA (d'Orbigny, 1846); Belford, 1966.

Bulimina ovata d'Orbigny, 1846, p. 185, Pl. 11, figs 13-14.

Protoglobobulimina ovata (d'Orbigny), Belford, 1966, p. 68, Pl. 6, figs 6-9; text-fig. 5:15-16; text-fig. 7:9.

C.P.C. 6296 (Pl. 6, fig. 6), C.P.C. 6297 (Pl. 6, fig. 7), C.P.C. 6298 (Pl. 6, fig. 8), C.P.C. 6299 (Pl. 6, fig. 9)—Hypotypes

C.P.C. 6302 (text-fig. 7:9)—section showing pores

Tubu area, Papua (Loc. 1g, Map 1)
'Tubu Siltstone'

Upper Miocene

C.P.C. 6300 (text-fig. 5:15); C.P.C. 6301 (text-fig. 5:16)—Hypotypes

In Creek of Ibab Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 28, Map 8)

Pliocene

PROTOGLOBOBULIMINA PUPOIDES (d'Orbigny, 1846); Belford, 1966.

Bulimina pupoides d'Orbigny, 1846, p. 185, Pl. 11, figs 11-12.

Protoglobobulimina pupoides (d'Orbigny), Belford, 1966, p. 67, Pl. 6, figs 4-5; text-fig. 5:13-14; text-fig. 7:8.

C.P.C. 6292 (Pl. 6, fig. 4), C.P.C. 6293 (Pl. 6, fig. 5), C.P.C. 6294 (text-fig. 5: 13-14)—Hypotypes

C.P.C. 6295 (text-fig. 7:8)—section showing pores

E of Amaimon, between Gogol River and Amaimon, New Guinea (Loc. 18, Map 8)

Upper Miocene

PROTOGLOBOBULIMINA sp. A Belford, 1966.

Protoglobobulimina sp. A Belford, 1966, p. 71, Pl. 6, figs 10-13; text-fig. 6:1-2; text-fig. 7:10.

C.P.C. 6312 (Pl. 6, fig. 10)—Figured specimen

Tubu area, Papua (Loc. 1d, Map 1)
'Tubu Siltstone'

C.P.C. 6313 (Pl. 6, fig. 11), C.P.C. 6314 (Pl. 6, fig. 12), C.P.C. 6315 (Pl. 6, fig. 13), C.P.C. 6316 (text-fig. 6:1-2)—Figured specimens

C.P.C. 6317 (text-fig. 7:10)—section showing pores

Kisila Village, E of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 39, Map 8)

Upper Miocene

PSAMMINOPELTA cf. **BOWSHERI** Tappan, 1957; Crespín, 1963.

Psamminopelta cf. *bowsheri* Tappan, 1957, p. 211, Pl. 67, figs 11-18.

Psamminopelta cf. *bowsheri* Tappan, Crespín, 1963b, p. 60, Pl. 15, figs 19, 20.

C.P.C. 4624—Figured specimen A (Pl. 15, fig. 19)

C.P.C. 4625—Figured specimen (Pl. 15, fig. 20)

BMR 4, Wallal Bore, Canning Basin, core 9 at 888-898 feet

Upper Jurassic or Lower Cretaceous

PSAMMOSPHAERA **PARVA** Crespín, 1963.

Psammospaera parva Crespín, 1963b, p. 20, Pl. 1, figs 4-9.

C.P.C. 4409—Holotype (Pl. 1, figs 4, 5)

C.P.C. 4410—Paratype A (Pl. 1, fig. 6)

C.P.C. 4411—Paratype B (Pl. 1, fig. 7)

C.P.C. 4412—Paratype C (Pl. 1, fig. 8)

C.P.C. 4413—Paratype D (Pl. 1, fig. 9)

Dribbling Bore, Sandringham, western Queensland, at 470-489 feet

Upper Longsight Sandstone

Lower Cretaceous

PSAMMOSPHAERA **PUSILLA** Parr, 1942; Belford, 1968.

Psammospaera pusilla Parr, 1942, p. 106, Pl. 1, figs 6, 7; Belford, 1968, Pl. 1, figs 2, 3.

C.P.C. 6823—Hypotype (Pl. 1, fig. 2)

BMR 7, Core 23, at 1793-1802 feet, Mid-dalya Station, Carnarvon Basin, 88 miles NE of Carnarvon, in central-north part of Kennedy Range

C.P.C. 6824—Hypotype (Pl. 1, fig. 3)

BMR 8, Core 13, at 1197-1207 feet, Byro Station, Carnarvon Basin, W.A.

Callytharra Formation

Lower Permian

PSEUDOBULIMINA **CHAPMANI** (Heron-Allen & Earland, 1922); Crespín, 1960.

Bulimina chapmani Heron-Allen & Earland, 1922, p. 130, Pl. 4, figs 18-20.

Pseudobulimina chapmani (Heron-Allen & Earland), Crespín, 1960, p. 26, Pl. 3, figs 14-15.

C.P.C. 611 (not 610 as in text)—Hypotype

S terrace, Lake Dingle (Broad Lake), Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

PSEUDOGUMBELINA **STRIATA** (Ehrenberg, 1840); Belford, 1960.

Textularia striata Ehrenberg, 1840, p. 135, Pl. 4, figs 1, 1a, 2a, 3, 9a.

Pseudogumbelina striata (Ehrenberg), Belford, 1960, p. 60, Pl. 15, figs 12, 13.

C.P.C. 3280 (Pl. 15, fig. 12), C.P.C. 3281 (Pl. 15, fig. 13)—Hypotypes
Scarp, Bidgie Bidgie Point, Murchison
River area, Carnarvon Basin, W.A., at
top of exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

**PSEUDOHYPERAMMINA RADIO-
STOMA** Crespin, 1958; Belford, 1968.

Pseudohyperammina radiostoma Crespin,
1958, p. 55, Pl. 8, figs 1-7; Belford,
1968, Pl. 1, fig. 25.

C.P.C. 6845—Hypotype
BMR 7, Core 3, at 293-303 feet, Middalya
Station, Carnarvon Basin, W.A., 88 miles
NE of Carnarvon in central-north part of
Kennedy Range

Permian

PSEUDOPOLYMORPHINA HOWCHINI
(Cushman & Ozawa, 1930); Crespin,
1963.

Polymorphina howchini Cushman and
Ozawa, 1930, p. 121, Pl. 31, figs 9a, b.

Pseudopolymorphina howchini (Cushman
& Ozawa), Crespin, 1963a, p. 151
(lists), Pl. 22, figs 1, 2.

C.P.C. 373 (Pl. 22, fig. 1), C.P.C. 373 (Pl.
22, fig. 2)—Hypotypes
Monument section, Portland Foreshore,
Victoria
Maretime Member, Whalers Bluff Forma-
tion

Upper Pliocene

PSEUDOROTALIA CATELLIFORMIS
(Thalmann, 1934); Belford, 1966.

Rotalia catelliformis Thalmann, 1934, p.
437, Pl. 11, figs 1-2, 3a-d.

Pseudorotalia catelliformis (Thalmann),
Belford, 1966, p. 114, Pl. 21, figs 4-10.

C.P.C. 6430 (Pl. 21, figs 4-6), C.P.C. 6431
(Pl. 21, figs 7-8)—Hypotypes
Ipowoloe Creek, Hohoro area, Papua (Loc.
15d, Map 6)
Vaiviri Formation

C.P.C. 6432 (Pl. 21, fig. 9)—Vertical
section

C.P.C. 6433 (Pl. 21, fig. 10)—part of hori-
zontal section
Doabea Creek, Hohoro area, Papua (Loc.
15a, Map 6)
'Vaiviri Formation'

Pliocene

PSEUDOROTALIA GAIMARDI
(d'Orbigny, 1826); Belford, 1966.

Rotalia (Turbinulina) gaimardi d'Orbigny,
1826, p. 275, no. 46 (nom. nud.).

Pseudorotalia gaimardi (d'Orbigny), Bel-
ford, 1966, p. 115, Pl. 20, figs 5-11.

C.P.C. 6434 (Pl. 20, figs 5-7), C.P.C. 6435
(Pl. 20, figs 8-9)—Hypotypes

C.P.C. 6436 (Pl. 20, fig. 10)—Horizontal
section

C.P.C. 6437 (Pl. 20, fig. 11)—Vertical
section

Creek near Wibiti I Village, Maprik sub-
district, Sepik district, New Guinea (Loc.
32, Map 8)

Pliocene

PSEUDOROTALIA PAPUAENSIS Bel-
ford, 1966.

Pseudorotalia papuaensis Belford, 1966, p.
116, Pl. 21, figs 11-13; Pl. 22, figs 1-6.

C.P.C. 6438—Holotype (Pl. 21, figs 11-13)

C.P.C. 6439—Paratype (Pl. 22, figs 1-2)

C.P.C. 6440 (Pl. 22, fig. 3)—Vertical
section

C.P.C. 6441 (Pl. 22, fig. 4)—part of hori-
zontal section

C.P.C. 6442 (Pl. 22, fig. 5)—section across
umbilical area

C.P.C. 6443 (Pl. 22, fig. 6)—section across
umbilical area

Doabea Creek, Hohoro area, Papua (Loc.
15a, Map 6)
'Vaiviri Formation'

Pliocene

PSEUDOROTALIA SCHROETERIANA (Parker & Jones, 1862); Belford, 1966.

Rotalia schroeteriana Parker & Jones, 1862, p. 213, Pl. 13, figs 7-9.

Pseudorotalia schroeteriana (Parker & Jones), Belford, 1966, p. 114, Pl. 20, figs 12-16, Pl. 21, figs 1-3.

C.P.C. 6425 (Pl. 20, figs 12-14), C.P.C. 6426 (Pl. 20, figs 15-16)—Hypotypes

C.P.C. 6427 (Pl. 21, fig. 1)—Vertical section

C.P.C. 6428 (Pl. 21, fig. 2)—Horizontal section

C.P.C. 6429 (Pl. 21, fig. 3)—part of horizontal section

Ipowoloe Creek, Hohoro area, Papua (Hypotypes, Loc. 15c, Map 6; sections, figs 1 and 3, Loc. 15a; fig. 2, Loc. 15d) 'Vaiviri Formation'

Pliocene

PSEUDOROTALIA sp. A Belford, 1966.

Pseudorotalia sp. A. Belford, 1966, p. 117 ('A' omitted after *P. sp.* under 'Occurrence'), Pl. 2, figs 7-11.

C.P.C. 6444 (Pl. 22, figs 7-9)—Figured specimen

C.P.C. 6445 (Pl. 22, fig. 10)—Vertical section

C.P.C. 6446 (Pl. 22, fig. 11)—part of horizontal section

Madang area, New Guinea, exact location unknown

Upper Miocene

PULLENIA AMERICANA Cushman, 1936; Belford, 1960.

Pullenia americana Cushman, 1936c, p. 76, Pl. 13, figs 4a-b, 5a-b; Belford, 1960, p. 89, Pl. 24, figs 16-18.

C.P.C. 3382—Hypotype (Pl. 24, fig. 16) Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., 10 feet below top of exposure of Toolonga Calcilutite

C.P.C. 3383—Hypotype (Pl. 24, figs 17, 18)

Scarp on Yaringa North Station, Shark Bay area, Carnarvon Basin, at side of North-West Coastal Highway, 31 miles N of Hamelin turnoff, 15 feet above base of section

Toolonga Calcilutite

Upper Cretaceous (Campanian)

PULLENIA CRETACEA Cushman, 1936; Belford, 1960.

Pullenia cretacea Cushman, 1936c, p. 75, Pl. 13, figs 8a, b; Belford, 1960, p. 88, Pl. 24, figs 13-15.

C.P.C. 3380—Hypotype (Pl. 24, figs 13, 14)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

C.P.C. 3381—Hypotype (Pl. 24, fig. 15) Scarp, Pillarawa Hill, Murchison River area, 14 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

PULLENIA REUSSI Cushman & Todd, 1943; Belford, 1960.

Pullenia reussi Cushman & Todd, 1943, p. 4, Pl. 1, figs 10a, b; 11a, b; 12a, b; Belford, 1960; p. 90, Pl. 24, figs 19-21.

C.P.C. 3384—Hypotype (Pl. 24, figs 19, 20)

Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

PULLENIATINA OBLIQUILOCULATA (Parker & Jones, 1865); Belford, 1962.

Pullenia sphaeroides (d'Orb.) var. *obliquiloculata* Parker & Jones, 1865, pp. 365, 368, Pl. 19, figs 4a-b.

Pulleniatina obliquiloculata (Parker & Jones), Belford, 1962, p. 23, Pl. 6, figs 12-17.

C.P.C. 4123—Hypotype A (Pl. 6, figs 12-14)

C.P.C. 4124—Hypotype B (omitted in text) (Pl. 6, fig. 15)

C.P.C. 4125 (Pl. 6, fig. 16), C.P.C. 4126 (Pl. 6, fig. 17)—Thin sections Pagansop Village, NNE of Josefstal, Lower Ramu-Atitau area, New Guinea

Pliocene

PULVINULINA CORDIERIANA (d'Orbigny, 1840); Chapman, 1917.

See **EPONIDES CONCINNA** Brotzen, Belford, 1960, p. 83.

Rotalina cordieriana d'Orbigny, 1840, p. 33, Pl. 3, figs 9-11.

Pulvinulina cordieriana (d'Orbigny), Chapman, 1917, p. 40, Pl. 11, figs 109a, b.

C.P.C. 7045 (19)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

PULVINULINA ELEGANS (d'Orbigny, 1826); Chapman, 1917.

See **GAVELINELLA STELLULA** Belford, 1960, p. 110.

Rotalina (Turbulina) elegans d'Orbigny, 1826, p. 276, No. 554.

Pulvinulina elegans (d'Orbigny), Chapman, 1917, p. 46, Pl. 11, fig. 108.

C.P.C. 7045 (18)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

PULVINULINA SPINULIFERA (Reuss, 1862); Chapman, 1917.

Rotalina spinulifera Reuss, 1862, p. 93, Pl. 13, figs 3a, b; 4a-c; 5a-c.

Pulvinulina spinulifera (Reuss), Chapman, 1917, p. 47, Pl. 11, fig. 110.

C.P.C. 7045 (20)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

PYRGO PATAGONICA (d'Orbigny, 1839); Crespin, 1960.

Biloculina patagonica d'Orbigny, 1939, p. 65, Pl. 3, figs 15-17.

Pyrgo patagonica (d'Orbigny), Crespin, 1960, p. 22, Pl. 1, fig. 1.

C.P.C. 393—Hypotype
S terrace, Lake Dingle (Broad Lake), Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

PYRGO PERUVIANA (d'Orbigny, 1839); Crespin, 1960.

Biloculina peruviana d'Orbigny, 1839, p. 68, Pl. 9, figs 1-3.

Pyrgo peruviana (d'Orbigny), Crespin, 1960, p. 23, Pl. 1, figs 2, 3.

C.P.C. 596 (Pl. 1, fig. 2), C.P.C. 595 (Pl. 1, fig. 3)—Hypotypes
S terrace, Lake Dingle (Broad Lake), Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

PYRULA CYLINDROIDES (Roemer, 1838); Belford, 1960.

Polymorphina (Polymorphina) cylindroides Roemer, 1838, p. 385, Pl. 3, figs 26a, b.

Pyrulina cylindroides (Roemer), Belford, 1960, p. 56, Pl. 15, fig. 1.

C.P.C. 3266—Hypotype
Scarp on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin, W.A.

Toolonga Calcilutite, 7 feet above base of section

Upper Cretaceous (Campanian)

QUADRIMORPHINA ALLOMORPHINOIDES (Reuss, 1860); Belford, 1960.

See **BULIMINA VARIABILIS** d'Orbigny, Chapman, 1917; **SPHAEROIDINA BULLOIDES** d'Orbigny, Chapman, 1917.

Valvulina allomorphinoides Reuss, 1860, p. 223, Pl. 11, figs 6a-c.

Bulimina variabilis d'Orbigny, Chapman, 1917; p. 22, Pl. 12, fig. 115.

Sphaeroidina bulloides d'Orbigny, Chapman, 1917, p. 45, Pl. 12, fig. 127.

Quadrimorphina allomorphinoides (Reuss), Belford, 1960, p. 87, Pl. 24, figs 9-12.

C.P.C. 3378—Hypotype (Pl. 24, figs 9-11)
Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A.
8 feet above base of Toolonga Calcilutite (Santonian)

C.P.C. 3379—Hypotype (Pl. 24, fig. 12)
Scarp on coast, 2 miles NE of Hamelin Telegraph Station, Shark Bay area, Carnarvon Basin.
7 feet above base of section; Toolonga Calcilutite (Campanian)

Upper Cretaceous (Santonian, Campanian)

QUADRIMORPHINA LAEVIGATA (Phleger & Parker, 1951); Belford, 1966.

Valvulineria laevigata Phleger & Parker, 1951, p. 25, Pl. 13, figs 11a-b, 12a-b.

Quadrimorphina laevigata (Phleger & Parker), Belford, 1966, p. 155, Pl. 37, figs 21-25.

C.P.C. 6569 (Pl. 37, figs 21-23)—Hypotype
E of Yekimbolje Village, Maprik subdistrict, Sepik district, New Guinea (Loc. 30, Map 8)

C.P.C. 6570 (Pl. 37, figs 24-25)—Hypotype
E of Yangoru, Maprik subdistrict, Sepik district (Loc. 31, Map 8)

Upper Miocene

QUINQUELOCULINA SERRA Crespin, 1960.

Quinqueloculina serra Crespin, 1960, p. 22, Pl. 2, figs 1-3.

C.P.C. 590—Holotype (Pl. 2, fig. 1)

C.P.C. 591—Paratype A (Pl. 2, fig. 2)

C.P.C. 592—Paratype B (Pl. 2, fig. 3)
S terrace, Lake Dingle (Broad Lake), Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

RAMULINA ACULEATA Wright, 1886; Chapman, 1917.

Ramulina aculeata Wright, 1886, p. 331, Pl. 27, fig. 11; Chapman, 1917, p. 42, Pl. 10, fig. 100.

C.P.C. 7045 (10)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

RAMULINA sp.A Belford, 1960.

Ramulina sp.A Belford, 1960, p. 56, Pl. 15, fig. 2.

C.P.C. 3267—Figured specimen
Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

RAMULINA sp.B Belford, 1960.

Ramulina sp.B Belford, 1960, p. 57, Pl. 15, fig. 3.

C.P.C. 3268—Figured specimen
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

RECTOBOLIVINA BIFRONS (Brady, 1881); Belford, 1966.

Sagrina bifrons Brady, 1881, p. 64; 1884, p. 582, Pl. 75, figs 18-20.

Rectobolivina bifrons (Brady), Belford, 1966, p. 45, Pl. 9, figs 13-14.

C.P.C. 6219 (Pl. 9, fig. 13), C.P.C. 6220 (Pl. 9, fig. 14)—Hypotypes
Sample Jt. 21 Madang area, New Guinea, exact locality not known

Upper Miocene or Pliocene

RECTOBOLIVINA COLUMELLARIS (Brady, 1881); Belford, 1966.

Sagrina columellaris Brady, 1881, p. 64; 1884, p. 581, Pl. 75, figs 15-17.

Rectobolivina columellaris (Brady), Belford, 1966, Pl. 9, figs 9-12.
Nagam River, W of Periam Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 26, Map 8)

Uppermost Miocene or Pliocene

RECTOBOLIVINA DIMORPHA (Parker
& Jones, 1865); Belford, 1966.

Uvigerina (Sagrina) dimorpha Parker &
Jones, 1865, p. 364, Pl. 18, fig. 18.

Rectobolivina dimorpha (Parker & Jones),
Belford, 1966, p. 47, Pl. 9, figs 7-8.

C.P.C. 6223 (Pl. 9, fig. 7), C.P.C. 6224
(Pl. 9, fig. 8)—Hypotypes
Nagam River, W. of Periam Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 26, Map 9)

Uppermost Miocene or Pliocene

RECTOBOLIVINA FASCIATA Belford,
1966.

Rectobolivina fasciata Belford, 1966, p. 52,
Pl. 4, figs 22-23; text-fig. 4: 5.

C.P.C. 6234—Holotype (Pl. 4, fig. 22)

C.P.C. 6244—Paratype A (Pl. 4, fig. 23)

C.P.C. 6245—Paratype B (text-fig. 4: 5)

Nagam River, W of Periam Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

RECTOBOLIVINA INDICA (LeRoy,
1941); Belford, 1966.

Siphogenerina indica LeRoy, 1941, p. 37,
Pl. 2, figs 64-65.

Rectobolivina indica (LeRoy), Belford,
1966, p. 46, Pl. 9, figs 5-6.

C.P.C. 6221 (Pl. 9, fig. 5), C.P.C. 6222
(Pl. 9, fig. 6)—Hypotypes

Tubu area, Papua (Loc. 1a, Map 1)
'Tubu Siltstone'

Upper Miocene of Pliocene

RECTOBOLIVINA LIMBATA (Brady,
1881); Belford, 1966.

Bolivina limbata Brady, 1881, p. 27; 1884,
p. 419, Pl. 52, figs 26-28.

Rectobolivina limbata (Brady), Belford,
1966, p. 49, Pl. 4, figs 12-15; text-fig.
4: 1.

C.P.C. 6232 (Pl. 4, figs 12-13), C.P.C.
6233 (Pl. 4, fig. 14)—Hypotypes
Road cutting at new residence, N of aero-
drome, Madang, New Guinea (Loc. 17,
Map 8)

Pliocene

C.P.C. 6234 (Pl. 4, fig. 15), C.P.C. 6235
(text-fig. 4: 1)—Hypotypes
Nagam River, W of Periam Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

RECTOBOLIVINA PAPULA Belford,
1966.

Rectobolivina papula Belford, 1966, p. 50,
Pl. 4, figs 16-19; text-fig. 4: 3.

C.P.C. 6236—Holotype (Pl. 4, figs 16-17)

C.P.C. 6237—Paratype A (Pl. 4, fig. 18)

C.P.C. 6238—Paratype B (Pl. 4, fig. 19)

C.P.C. 6239—Paratype C (text-fig. 4: 3)

Sea Cliff, 250 yards N of L.M.S. Mission,
Delena, Papua (Loc. 3, Map 3)

Lower Miocene

RECTOBOLIVINA TENUICOSTATA
Belford, 1966.

Rectobolivina tenuicostata Belford, 1966, p.
48, Pl. 4, figs 10-11; text-fig. 4: 2.

C.P.C. 6229—Holotype (Pl. 4, fig. 10)

C.P.C. 6230—Paratype (Pl. 4, fig. 11)

C.P.C. 6231—Paratype (text-fig. 4: 2)

Road cutting at new residence, N of aero-
drome, Madang, New Guinea (Loc. 17,
Map 8)

Pliocene

RECTOBOLIVINA sp. cf. **R. CARINATA** (Millett, 1900); Belford, 1966.

Bolivina karreriana Brady, var. *carinata* Millett, 1900, p. 546, Pl. 4, figs 8a-b.

Rectobolivina sp. cf. *R. carinata* (Millett), Belford, 1966, p. 51, Pl. 4, figs 20-21, text-fig. 4: 4.

C.P.C. 6240 (Pl. 4, fig. 20)—Figured specimen
Nagam River, W of Periana Village,
Wewak subdistrict, Sepik district, New
Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6241 (Pl. 4, fig. 21), C.P.C. 6242
(text-fig. 4: 4)—Figured specimens
Tubu area, Papua (fig. 21, Loc. 1g, Map
1; text-fig. 4: 4, Loc. 1d)
'Tubu Siltstone'

Upper Miocene

**RECTOGLANDULINA SEROCOLDEN-
SIS** (Crespin, 1945); Belford, 1968.

Nodosaria serocoldensis Crespin, 1945, p.
107, Pl. 27, figs 6-10.

Rectoglandulina serocoldensis (Crespin),
Belford, 1968, Pl. 3, fig. 11.

C.P.C. 6870—Hypotype
BMR 7, Core 2, at 204-214, Middalya
Station, Carnarvon Basin, W.A., 88 miles
NE of Carnarvon, in central-north part of
Kennedy Range

Permian

RECTUVIGERINA STRIATA (Schwager,
1866), Belford, 1966.

Dimorphina striata Schwager, 1866, p. 251,
Pl. 7, figs 2, 99.

Rectuvigerina striata (Schwager), Belford,
1966, p. 84, Pl. 9, figs 1-2.

C.P.C. 6345 (Pl. 9, fig. 1), C.P.C. 6345
(Pl. 9, fig. 2)—Hypotypes
Yamuti Creek, Malalaua-Saw Mountains
area, Papua (Loc. 12, Map 4)
'Murua Mudstone'

Upper Miocene

RECTUVIGERINA sp. A Belford, 1966.

Rectuvigerina sp. A Belford, 1966, p. 84,
Pl. 8, fig. 25.

C.P.C. 6347—Figured specimen
E of Karova Creek, Kerema-Karova Creek
area, Papua (Loc. 7, Map 3)

Middle Miocene

REUSSELLA ACULEATA Cushman,
1965; Belford, 1966.

Reussella aculeata Cushman, 1945, p. 41, Pl.
7, figs 10-11; Belford, 1966, p. 75, Pl. 9,
fig. 15.

C.P.C. 6321—Hypotype
Road Cutting at new residence, N of aero-
drome, Madang, New Guinea (Loc. 17,
Map 8)

Pliocene

REUSSELLA SZAJNOCHAE (Grzybowski,
1896); subsp. Belford, 1960.

Verneuilina szajnochae Grzybowski, 1896,
p. 287, Pl. 9, figs 19a, b.

Reussella szajnochae (Grzybowski), subsp.
Belford, 1960, p. 66, Pl. 16, figs 16-19;
Pl. 17, figs 1-13.

C.P.C. 3296 (Pl. 16, figs 16-18), C.P.C.
3297 (Pl. 16, fig. 19), C.P.C. 3298 (Pl.
17, fig. 1)—Hypotypes
Scarp, Bidgie Bidgie Point, Murchison
River area, Carnarvon Basin, W.A., 10
feet below top of exposure of Toolonga
Calculutite (Campanian)

C.P.C. 3299—Hypotype (Pl. 17, figs 2-4)
Scarp, Pillarawa Hill, Murchison River
area, 3 feet above base of Toolonga
Calculutite (Santonian)

C.P.C. 3300 (Pl. 17, fig. 5), C.P.C. 3301
(Pl. 17, fig. 6)—Hypotypes
Scarp, Bidgie Bidgie Point, Murchison River
area at top of exposure of Toolonga Cal-
culutite (Campanian)

C.P.C. 3303 (Pl. 17, fig. 8), C.P.C. 3304
(Pl. 17, fig. 9), 3305 (Pl. 17, fig. 10),
C.P.C. 3306 (Pl. 17, fig. 11), C.P.C.
3307 (Pl. 17, fig. 12), C.P.C. 3308 (Pl.
17, fig. 13)—Hypotypes

Same locality as immediately above, at base of Toolonga Calcilutite (Santonian)
C.P.C. 3302—Hypotype (Pl. 17, fig. 7)

Upper Cretaceous (Santonian, Campanian)

REUSSELLA sp. cf. R. PSEUDOSPINULOSA Troelsen, 1937; Belford, 1960.

Reussella pseudospinulosa Troelsen, 1937, p. 261* (nomen nudum).

Reussella pseudospinulosa Troelsen, Brotzen, 1945, p. 46, Pl. 1, fig. 6.

Reussella sp. cf. *R. pseudospinulosa* Troelsen, Belford, 1960, p. 67, Pl. 18, figs 1-5.

C.P.C. 3309—Figured specimen (Pl. 18, figs 1, 2)

Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A., 23 feet above base of Toolonga Calcilutite (Santonian)

C.P.C. 3310—Figured specimen (Pl. 18, figs 3-5)

Scarp, Bidgie Bidgie Point, Murchison River area, 10 feet below top of exposure of Toolonga Calcilutite (Campanian)

Upper Cretaceous (Santonian, Campanian)

REUSSELLA sp. A. Belford, 1960.

Reussella sp. A Belford, 1960, p. 68, Pl. 18, figs 6-8.

C.P.C. 3311—Figured specimen

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at top of exposure of Toolonga Calcilutite

Upper Cretaceous (Campanian)

REUSSELLA sp. B Belford, 1960.

Reussella sp. B Belford, 1960, p. 68, Pl. 18 figs 9-11.

C.P.C. 3312—Figured specimen

Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

REUSSELLA sp. C Belford, 1960.

Reussella sp. C Belford, 1960, p. 68, Pl. 18, figs 12-15.

C.P.C. 3313 (Pl. 18, figs 12-14), C.P.C. (Pl. 18, fig. 15)—Figured specimens
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

REOPHAX DECKERI Tappan, 1940; Crespin, 1963.

Reophax deckeri Tappan, 1940, p. 94, Pl. 14, figs 3a, b; Crespin, 1963b, p. 23, Pl. 3, figs 1-10.

C.P.C. 4430—Hypotype A (Pl. 3, fig. 1)

C.P.C. 4431—Hypotype B (Pl. 3, fig. 2)

C.P.C. 4434—Hypotype E (Pl. 3, fig. 6)
Coogiebung Tank, Marion Downs, western Queensland

Lower Wilgunya Formation

C.P.C. 4432—Hypotype C (Pl. 3, fig. 3)
Peanungra Well, Glenormiston, western Queensland

Lower Wilgunya Formation

C.P.C. 4433—Hypotype D (Pl. 3, fig. 4)
12 Mile Tank, Marion Downs, western Queensland, 0-4 feet above base
Lower Wilgunya Formation

C.P.C. 4435—Hypotype F (Pl. 3, fig. 5)
WAPET Rough Range No. 4 Well, Carnarvon Basin, W.A., core 12, at 3440 feet

Muderong Shale

Lower Cretaceous

C.P.C. 4436—Hypotype G (Pl. 3, fig. 7)

C.P.C. 4437—Hypotype H (Pl. 3, fig. 8)

C.P.C. 4438—Hypotype I (Pl. 3, fig. 9)

C.P.C. 4439—Hypotype J (Pl. 3, fig. 10)
BMR 4 Wallal Bore, Canning Basin, W.A., core 9 at 888-898 feet

Upper Jurassic or Lower Cretaceous

REOPHAX TORUS, Crespin, 1963

Reophax torus Crespin, 1963b, p. 24, Pl. 4, figs 1-7.

C.P.C. 4440—Holotype (Pl. 4, fig. 1)

C.P.C. 4441—Paratype A (Pl. 4, fig. 2)

C.P.C. 4442—Paratype B (Pl. 4, fig. 3)

Middalya Station, Carnarvon Basin, W.A.,
18 miles S of Homestead and 19½ miles
NE from Hill Springs Homestead, Lat.
24° 09' 24" S, Long. 114° 45' 45" E

Muderong Shale

C.P.C. 4443—Paratype C (Pl. 4, fig. 4)

WAPET Rough Range No. 4 Well, Carnarvon Basin, core 17, at 3715 feet

Muderong Shale

C.P.C. 4444—Paratype D (Pl. 4, fig. 5)

Coogiebung Tank, Marion Downs, western
Queensland

Lower Wilgunya Formation

Lower Cretaceous

C.P.C. 4445—Paratype E (Pl. 4, fig. 6)

C.P.C. 4446—Paratype F (Pl. 4, fig. 7)

BMR 4, Wallal Bore, Canning Basin, W.A.,
core 9, at 888-898 feet

Upper Jurassic or Lower Cretaceous

REOPHAX sp. A Crespin, 1963.

Reophax sp. A Crespin, 1963b, p. 25, Pl. 4, fig. 8.

C.P.C. 4447—Figured specimen

W.C. and I.C. Bore 8271, K. Robinson,
Talyeale, Hungerford, northern New
South Wales, at 1000 feet

Lower Cretaceous

REOPHAX sp. B Crespin, 1963.

Reophax sp. B Crespin, 1963b, p. 26, Pl. 4, figs 9, 10.

C.P.C. 4448—Figured specimen A (Pl. 4,
fig. 9)

C.P.C. 4449—Figured specimen B (Pl. 4,
fig. 10)

Coogiebung Tank, Marion Downs western
Queensland

Lower Wilgunya Formation

Lower Cretaceous

REOPHAX sp. C Crespin, 1963.

Reophax sp. C Crespin, 1963b, p. 26, Pl. 4, figs 11-12.

C.P.C. 4450—Figured specimen A (Pl. 4,
fig. 11)

C.P.C. 4451—Figured specimen B (Pl. 4,
fig. 12)

BMR 4, Wallal Bore, Canning Basin, W.A.,
core 9, at 888-898 feet

Upper Jurassic or Lower Cretaceous

RHABDAMMINA VIRGATA Crespin, 1961.

Rhabdammina virgata Crespin, 1961, p. 400, Pl. 64, figs 7-10; Pl. 65, figs 1, 2.

C.P.C. 394—Holotype (Pl. 64, fig. 7)

C.P.C. 396—Paratype B (Pl. 64, fig. 8)

C.P.C. 397—Paratype C (Pl. 65, fig. 1)

Locality between Margaret River and
Needle Eye Rocks, Bugle Gap area, Fitzroy Basin, W.A.

Virgin Hills Formation

C.P.C. 395—Paratype A (Pl. 64, fig. 10)

C.P.C. 398—Paratype D (Pl. 65, fig. 2)

C.P.C. 399—Paratype E (Pl. 64, fig. 9)

Section SE end of Bugle Gap, Fitzroy
Basin, 44-66 feet above base of section
Virgin Hills Formation

Upper Devonian

RHIZAMMINA INDIVISA Brady, 1884;
Chapman, 1917.

Rhizammina indivisa Brady, 1884, p. 277,
Pl. 29, figs 5-7; Chapman, 1917, p. 16,
Pl. 1, fig. 4.

C.P.C. 7042 (4)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous.

RHIZAMMINA sp. Crespin, 1963.

Rhizammina sp. Crespin, 1963b, p. 19, Pl. 1, figs 2, 3.

C.P.C. 4406—Figured specimen A (Pl. 1,
fig. 2)

C.P.C. 4407—Figured specimen B (Pl. 1, fig. 3)

Coogiebung Tank, Marion Downs, western Queensland

Lower Wilgunya Formation

Lower Cretaceous

ROBERTINOIDES OCEANICUS (Cushman & Parker, 1947); Belford, 1966.

Robertina oceanica Cushman & Parker 1947, p. 75, Pl. 18, fig. 18.

Robertinoides oceanicus (Cushman & Parker), Belford, 1966, p. 195, Pl. 37, figs 8-10; text-fig. 25: 1-2.

C.P.C. 6702 (Pl. 37, figs 8-9), C.P.C. 6703 (Pl. 37, fig. 10)—Hypotypes

Nagam River, W of Periana Village, Wewak subdistrict, Sepik District, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

C.P.C. 6704 (text-fig. 25: 1)—Horizontal section

C.P.C. 6705 (text-fig. 25:2)—Camera lucida drawing of section

New Zealand Govt Trawling Expedition, 1907, at Dredge Station C, 60 miles E of Lyttleton, New Zealand, at 100 fathoms

Recent

ROBULUS PONDI Cushman, 1931; Belford, 1960.

Robulus pondi Cushman, 1931, p. 25, Pl. 2, figs 9a, b; Belford, 1960, p. 24, Pl. 6, figs 14, 15.

C.P.C. 3146—Hypotype

Scarp, near emergency airfield, Murchison River area, Carnarvon Basin, W.A., 3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

ROSALINA PONTICULUS Belford, 1966.

Rosalina ponticulus Belford, 1966, p. 94, Pl. 13, figs 12-16; text-fig. 9:3.

C.P.C. 6373—Holotype (Pl. 13, figs 12-14)

C.P.C. 6374—Paratype A (Pl. 13, figs 15-16)

C.P.C. 6375—Paratype 8 (text-fig. 9:3) (internal structure)

Road cutting at new residence, N of aerodrome, Madang, New Guinea (Loc. 17, Map 8)

Pliocene

ROTALIA SOLDANII d'Orbigny, var. **NITIDA** Reuss, 1844; Chapman, 1917.

Rotalia nitida Reuss, 1844, p. 214; 1846, Pl. 1, fig. 35, Pl. 8, fig. 52; Pl. 12, figs 8, 20.

Rotalia soldanii d'Orbigny, var. *nitida* Reuss, Chapman, 1917, p. 47, Pl. 11, fig. 111.

C.P.C. 7046 (1)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

ROTAMORPHINA MINUTA (Schubert, 1904); Belford, 1966.

Discorbina rugosa (d'Orbigny), var. *minuta* Schubert, 1904; p. 420.

Rotamorphina minuta (Schubert), Belford, 1966, p. 156, Pl. 37, figs 11-15.

C.P.C. 6571 (Pl. 37, figs 11-13), C.P.C. 6572 (Pl. 37, figs 14-15)—Hypotypes

Nagam River, W. of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

RUGOGLOBIGERINA (RUGOGLOBIGERINA) BULBOSA Belford, 1960.

See *GUEMBELINA GLOBIFERA* (Reuss) Chapman, 1917.

Guembelina globifera (Reuss), Chapman, 1917, p. 20, Pl. 2, fig. 18.

Rugoglobigerina (Rugoglobigerina) bulbosa Belford, 1960, p. 94, Pl. 26, figs 1-10; text-fig. 7 (1-8).

C.P.C. 3395—Holotype (Pl. 26, figs 1-3)

C.P.C. 3396—Paratype A (Pl. 26, figs 4, 5)

C.P.C. 3397—Paratype B (text-fig. 7 (1-3))

C.P.C. 3398—Paratype C (text-fig. 7 (4, 5))

C.P.C. 3401—Vertical section (Pl. 26, fig. 9)

Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, W.A., 14 feet above base of Toolonga Calcilutite

C.P.C. 3399—Paratype D (Pl. 26, figs 6-8)

C.P.C. 3400—Paratype E (text-fig. 7 (6-8))

C.P.C. 3402—Vertical section (Pl. 26, fig. 10)

Quarry, One Tree Hill near Gingin, Perth Basin, W.A., 32 feet above base
Gingin Chalk

Upper Cretaceous (Santonian)

RUGOGLOBIGERINA (RUGOGLOBIGERINA) PLANA Belford, 1960.

Rugoglobigerina (Rugoglobigerina) plana Belford, 1960, p. 95, Pl. 27, figs 1-5, text-fig. 8 (1-6).

C.P.C. 3403—Holotype (Pl. 27, figs 1-3)

C.P.C. 3404—Paratype A (Pl. 27, fig. 4)

C.P.C. 3405—Paratype B (text-fig. 8 (1-3))

C.P.C. 3406—Paratype C (text-fig. 8 (4-6))

C.P.C. 3407—Vertical section (Pl. 27, fig. 5)

Scarp, Toolonga Point, Murchison River area, Carnarvon Basin, W.A., 8 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

SACCAMMINA ALEXANDERI (Loeblich & Tappan, 1950); Crespin, 1963.

Proteonina alexanderi Loeblich & Tappan, 1950, p. 5, Pl. 1, figs 1a, b; 2a, b.

Saccammina alexanderi (Loeblich & Tappan), Crespin, 1963b, p. 20, Pl. 1, figs 10-12.

C.P.C. 4414—Hypotype A (Pl. 1, fig. 10)

C.P.C. 4415—Hypotype B (Pl. 1, fig. 11)
WAPET Rough Range No. 4 Well, Carnarvon Basin, core 13, at 3640 feet
Muderong Shale

C.P.C. 4416—Hypotype C (Pl. 1, fig. 12)
Netting Bore, Paton Downs, Western
Queensland

Lower Cretaceous

SACCAMMINA GLENISTERI Crespin, 1961.

Saccammina glenisteri Crespin, 1961, p. 401, pl. 65, figs 3-7.

C.P.C. 401—Holotype (Pl. 63, fig. 3)

C.P.C. 402—Paratype A (Pl. 65, fig. 5)

C.P.C. 403—Paratype B (Pl. 65, fig. 6)
Section SE end of Bugle Gap, Fitzroy Basin,
W.A., 66-88 feet above base of section
Virgin Hills Formation

C.P.C. 405—Paratype D (Pl. 65, fig. 7)
Same locality as above but 0-22 feet above
base of section

Probably Gogo Formation

C.P.C. 404—Paratype C (Pl. 65, fig. 4)
Section between Margaret River and Needle
Eye Rocks, Bugle Gap area, Fitzroy
Basin
Virgin Hills Formation

Upper Devonian

SACCAMMINA GLOBOSA Crespin, 1963.

Saccammina globosa Crespin, 1963b, p. 21, Pl. 1, figs 13-17.

C.P.C. 4417—Holotype (Pl. 1, fig. 13)

C.P.C. 4419—Paratype B (Pl. 1, figs 15, 16)

Coogiebung Tank, Marion Downs, western Queensland

Lower Wilgunya Formation

C.P.C. 4418—Paratype A (Pl. 1, fig. 14)

W of Momedah Anticline, S side of Momedah Creek, 4 miles NNW of Little Bore, western Queensland

Lower Wilgunya Formation

C.P.C. 4420—Paratype C (Pl. 1, fig. 17)

Mount Whelan, western Queensland

Lower Wilgunya Formation

Lower Cretaceous

SACCAMMINA sp. aff. **LAGENARIA** (Berthelin, 1880); Crespin, 1963.

Haplophragmium lagenarium Berthelin, 1880, p. 21, Pl. 1, figs 2a, b.

Saccamina sp. aff. *lagenarium* (Berthelin), Crespin, 1963b, p. 22, Pl. 1, fig. 18.

C.P.C. 4421—Figured specimen (Pl. 1, fig. 18)

11 miles SW of 8 Mile Yard near track to Whitewood Tank on Herbert Downs, western Queensland

Lower Wilgunya Formation

Lower Cretaceous

SACCULINELLA sp. Crespin, 1963.

Sacculinella sp. Crespin, 1963b, p. 22, Pl. 1, figs 21, 22.

C.P.C. 4423—Figured specimen (Pl. 1, figs 21, 22)

1 Mile Creek, 7 miles WSW along fence from Rocky Waterhole on Sherbrooke (Jewelry) Creek, western Queensland

Lower Wilgunya Formation

Lower Cretaceous

SAGRAINA ASPERULA Chapman, 1896; 1917.

Sagraina asperula Chapman, 1896, p. 581, Pl. 12, fig. 1; 1917, p. 42, Pl. 10, fig. 98.

C.P.C. 7045 (8)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

SAGRAINA MAITLANDIANA Chapman, 1917.

See **STILOSTOMELLA ASPERA** (Reuss), Belford, 1960, p. 69.

Sagraina maitlandiana Chapman, 1917, p. 41, Pl. 10, fig. 97.

C.P.C. 7045 (7)—Holotype

One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

SAGRAINA MONILE Chapman, 1917.

Sagraina monile Chapman, 1917, p. 42, Pl. 10, fig. 99.

C.P.C. 7045 (9)—Holotype

One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

SIGMAVIRGULINA TORTUOSA (Brady, 1881); Belford, 1966.

Bulimina (Bolivina) tortuosa Brady, 1881, p. 57.

Bolivina tortuosa Brady, 1884, p. 420, Pl. 52, figs 31-32 (not figs 33-34).

Sigmavirgulina tortuosa (Brady), Belford, 1966, p. 137, Pl. 9, figs. 22-23; text-fig. 1:9.

C.P.C. 6517 (Pl. 9, figs 22-23)—Hypotype
Tubu area, Papua (Loc. 1f, Map 1)
'Tubu Siltstone'

C.P.C. 6518 (text-fig. 1-9)—Hypotype
Yamuiti Creek area, Papua (Loc. 12c, Map 4)
'Murua Mudstone'

Upper Miocene

SIGMOIDELLA KAGAENSIS Cushman & Ozawa, 1930; Crespin, 1963.

Sigmoidella kagaensis Cushman & Ozawa, 1930, p. 141, Pl. 39, figs 3, 5; Crespin, 1963a, p. 151 (lists), Pl. 22, fig. 3.

C.P.C. 374—Hypotype

Dutton Way, Portland, Victoria

Maretime Member, Whalers Bluff Formation

Upper Pliocene

SIPHOGENERINA COSTATA Schlumberger, 1883; Belford, 1966.

Siphogenerina costata Schlumberger, 1883, p. 118, fig. B; Belford, 1966, p. 86, Pl. 9, figs 3-4.

C.P.C. 6348 (Pl. 9, fig. 3; not 6398 as in explanation of plate), C.P.C. 6349 (Pl. 9, fig. 4)—Hypotypes

Forsayth Plantation, Mushu Island, Sepik district, New Guinea (Loc. 35, Map 8)

Pliocene

SIPHOUVIGERINA INTERRUPTA (Brady, 1879); Belford, 1966.

Uvigerina interrupta Brady, 1879a, p. 60, Pl. 8, figs 17-18.

Siphouvigerina interrupta (Brady), Belford, 1966, p. 86, Pl. 8, figs 9-11.

C.P.C. 6350 (Pl. 8, fig. 9), C.P.C. 6351 (Pl. 8, fig. 10), C.P.C. 6352 (Pl. 8, fig. 11)—Hypotypes

Tubu area, Papua (Loc. 1d (fig. spec. 1), Loc. 1a (fig. specs, 2, 3), Map 1)) 'Tubu Siltstone'

Upper Miocene

SIPHOUVIGERINA PROBOSCIDEA (Schwager, 1886); Belford, 1966.

Uvigerina proboscidea Schwager, 1886, p. 250, Pl. 7, fig. 96.

Siphouvigerina proboscidea (Schwager), Belford, 1966, p. 87, Pl. 8, figs 12-18.

C.P.C. 6353 (Pl. 8, figs 12-13), C.P.C. 6354 (Pl. 8, fig. 14), C.P.C. 6355 (Pl. 8, fig. 15)—Hypotypes

Kisila Village, E of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 39, Map 8)

C.P.C. 6356 (Pl. 8, figs 16-17), C.P.C. 6357 (Pl. 8, fig. 18)—Hypotypes

2½ miles NNW of Olipai-Lakekamu River junction, Papua (Loc. 5, Map 2)

Upper Miocene

SIPHOUVIGERINA (?) sp. cf. S. (?) UNISERIALIS (LeRoy, 1944); Belford, 1966.

Uvigerina uniserialis LeRoy 1944, p. 32, Pl. 8, figs 19-21.

Siphouvigerina (?) sp. cf. S. (?) uniserialis (LeRoy), Belford, 1966, p. 88, Pl. 8, figs 19-21.

C.P.C. 6358 (Pl. 8, figs 19-20), C.P.C. 6359 (Pl. 8, fig. 21)—Figured specimens Nagam River, W of Periana Village, Wewak subdistrict, Sepik district, New Guinea (Loc. 27, Map 8)

Uppermost Miocene or Pliocene

SOROSPHAERA ADHAERENS Crespin, 1961.

Sorosphaera adhaerens Crespin, 1961, p. 403, Pl. 66, figs 1-6.

C.P.C. 406—Holotype (Pl. 66, fig. 1)

C.P.C. 407—Paratype A (Pl. 66, fig. 2)

C.P.C. 408—Paratype B (Pl. 66, fig. 3)

C.P.C. 409—Paratype C (Pl. 66, fig. 5)

C.P.C. 410—Paratype D (Pl. 66, fig. 4)

Section SE end of Bugle Gap, Fitzroy Basin, W.A., between 66-88 feet above base of section

Virgin Hills Formation

Upper Devonian

SPHAEROIDINA BULLOIDES d'Orbigny, 1826; Chapman, 1917.

See **QUADRIMORPHINA ALLOMORPHINOIDES** (Reuss), Belford, 1960, p. 87.

Sphaeroidina bulloides d'Orbigny, 1826, p. 267, No. 1—Modèle No. 65; Chapman, p. 45, Pl. 12, fig. 127.

C.P.C. 7046 (17)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk.

Upper Cretaceous

SPHAEROIDINELLA DEHISCENS (Parker & Jones, 1865); Belford, 1967.

Sphaeroidina dehiscens Parker & Jones, 1865, p. 369, Pl. 19, figs 5a-c.

Sphaeroidinella dehiscens (Parker & Jones), Belford, 1967b, p. 39, Pl. 5, fig. 19.

C.P.C. 7243—Thin section

Kisila Village, NNE of Josefstaal, Lower Ramu-Atitau area, New Guinea (Loc. 39, see Belford, 1966)

Upper Miocene

SPHAEROIDINELLA DEHISCENS
DEHISCENS (Parker & Jones, 1865); Belford, 1962.

Sphaeroidina bulloides d'Orbigny var. *dehiscens* Parker & Jones, 1865, p. 369, Pl. 19, figs 5a-c.

Sphaeroidinella dehiscens dehiscens (Parker & Jones), Belford, 1962, Pl. 8, figs 19-21.

C.P.C. 4147—Hypotype A (Pl. 8, figs 19, 20)

C.P.C. 4148—Hypotype B (Pl. 8, fig. 21)
Kisila Village, E of Josefstaal, Lower Ramu-Atitau area, New Guinea

Upper Miocene

SPHAEROIDINELLOPSIS KOCKI
(Caudri, 1934); Belford, 1967.

Globigerina kocki Caudri, 1934, p. 144.

Sphaeroidinellopsis kocki (Caudri), Belford, 1967b, p. 41, Pl. 5, figs 9-17.

C.P.C. 7237 (Pl. 5, figs 9-11), C.P.C. 7238 (Pl. 5, figs 12-13), C.P.C. 7239 (Pl. 5, fig. 14)—Hypotypes

C.P.C. 7241—Thin sections (Pl. 5, figs 16-17)

E of the Ekiere Fault, Aipa Hills area, Papua (Loc. 8, see Belford, 1966)

Middle Miocene

C.P.C. 7240 (Pl. 5, fig. 15)—Hypotype 1 mile S of Kumil River, Lower Ramu-Atitau area, New Guinea (Loc. 42, see Belford, 1966)

Upper Miocene

SPHAEROIDINELLOPSIS SEMINULUM SEMINULUM (Schwager, 1866); Belford, 1962.

Globigerina seminula Schwager, 1866, p. 256, Pl. 7, figs 1, 2.

Sphaeroidinellopsis seminulum seminulum (Schwager), Belford, 1962, p. 31, Pl. 8, figs 22-25.

C.P.C. 4149—Hypotype A (Pl. 8, figs 22, 23)

C.P.C. 4150—Hypotype N (Pl. 8, fig. 24)
E of Karova Creek, Papua

C.P.C. 4151—Hypotype C (Pl. 8, fig. 25)
Upper Maipora Creek, W of Saw Mountains, Papua

Middle Miocene

SPHAEROIDINELLOPSIS SUBDEHISCENS (Blow, 1959); Belford, 1962.

Sphaeroidinella dehiscens subdehiscens Blow, 1959, p. 195, figs 71a-b, 72.

Sphaeroidinellopsis subdehiscens (Blow), Belford, 1962, p. 30, Pl. 8, figs 26-28.

C.P.C. 4152—Hypotype A (Pl. 8, figs 26, 27)

Upper Maipora Creek, W of Saw Mountains, Papua

C.P.C. 4153—Hypotype B (Pl. 8, fig. 28)
E of Karova Creek, Papua

Middle Miocene

SPHAEROIDINELLOPSIS SUBDEHISCENS Blow, 1959; Belford, 1967.

Sphaeroidinella dehiscens subdehiscens Blow, 1959, p. 195, Pl. 12, figs 71a-c, 72.

Sphaeroidinellopsis subdehiscens Blow, Belford, 1967b, p. 39, Pl. 5, fig. 18.

C.P.C. 7242 (Pl. 5, fig. 18)—Thin section
E of Karova Creek, Kerema-Karova Creek area, Papua (Loc. 7b, see Belford, 1966)

Middle Miocene

SPIRILLINA DENTICULO-GRANULATA Chapman, 1907; 1909.

Spirillina denticulo-granulata Chapman, 1907, p. 133, Pl. 10, figs 6a-c; 1909, p. 354, Pl. 17, figs 31, b.

C.P.C. 7193 (32)—Hypotype
Off the Snares, S of New Zealand, at 60 fathoms, 166° 32' E, 48° 01' S

Recent

SPIRILLINA LIMBATA var. **DENTICULATA** Brady, 1884; Chapman, 1909.

Spirillina limbata var. *denticulata* Brady, 1884, p. 632, Pl. 85, fig. 17; Chapman, 1909, p. 354, Pl. 17, fig. 2.

C.P.C. 7193 (31)—Hypotype

Off the Snares S of New Zealand, at 60 fathoms, 166° 32' E, 48° 01' S

Recent

SPIRILLINA NOVAE-ZEALANDIAE Chapman, 1909.

Spirillina novae-zealandiae Chapman, 1909, p. 352, Pl. 17, figs 4a, b; 5.

C.P.C. 2321—Holotype (Pl. 17, figs 4a, b) designated by I.C., 1968

C.P.C. 2321 (1)—Paratype (Pl. 17, fig. 5) designated by I.C., 1968

Off the Snares, S of New Zealand, at 60 fathoms, 166° 32' E, 48° 01' S

Recent

SPIROLOCULINA ASPERULA Karrer, 1868; Chapman, 1917.

See **SPIROLOCULINA** sp. cf. **SPIROLOCULINA CRETACEA** Reuss, Belford, 1960

Spiroloculina asperula Karrer, 1868, p. 136, Pl. 1, fig. 10; Chapman, 1917, p. 15, Pl. 1, fig. 1.

C.P.C. 7042 (1)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

SPIROLOCULINA sp. cf. **S. CRETACEA** Reuss, 1854; Belford, 1960.

See **SPIROLOCULINA ASPERULA** Karrer, Chapman, 1917.

Spiroloculina cretacea Reuss, 1854, p. 72, Pl. 26, figs 9a, b.

Spiroloculina asperula Karrer, Chapman, 1917, p. 15, Pl. 1, fig. 1.

Spiroloculina sp. cf. *S. cretacea* Reuss, Belford, 1960, p. 24, Pl. 6, figs 8-13.

C.P.C. 3142 (Pl. 6, figs 8-10), C.P.C. 3143 (Pl. 6, fig. 11)—Hypotypes

C.P.C. 3144—Thin section (Pl. 6, fig. 12) Quarry, One Tree Hill, near Gingin, Perth Basin W.A., 32 feet above base Gingin Chalk (Santonian)

C.P.C. 3145—Thin section (Pl. 6, fig. 13) Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, at top of exposure of Toolonga Calcilutite (Campanian)

Upper Cretaceous (Santonian, Campanian)

SPIROPLECTA ANCEPS (Reuss, 1846); Chapman, 1917.

See **SPIROPLECTAMMINA LAEVIS** (Roemer) var. **CRETOSA** Cushman, 1932; Belford, 1960, p. 8.

Textularia anceps Reuss, 1846, p. 39, Pl. 8, fig. 79; Pl. 13, fig. 2.

Spiropecta anceps (Reuss), Chapman, 1917, p. 20, Pl. 2, fig. 16; Pl. 12, fig. 114.

C.P.C. 7042 (16) (Pl. 2, fig. 16), C.P.C. 7046 (4) (Pl. 12, fig. 114)—Hypotypes One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

SPIROPLECTA PRAELONGA (Reuss, 1846); Chapman, 1917.

Textularia praelonga Reuss, 1846, p. 39, Pl. 12, fig. 14.

Spiropecta praelonga (Reuss), Chapman, 1917, p. 20, Pl. 12, fig. 113.

C.P.C. 7046 (3)—Hypotype

One Tree Hill, Gingin, Perth Basin, W.A. Gingin Chalk

Upper Cretaceous

SPIROPLECTA SAGITTULA (Defrance, 1824); Chapman, 1917.

Textularia sagittula Defrance, 1824, p. 238; Pl. 6, fig. 16.

Spiropecta sagittula (Defrance), Chapman, 1917, p. 19, Pl. 2, fig. 15.

C.P.C. 7042 (15)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

SPIROPLECTAMMINA AEQUABILIS
Crespin, 1963.

Spiroplectammina aequabilis Crespin,
1963b, p. 49, Pl. 13, figs 1-4.

C.P.C. 4561—Holotype (Pl. 13, fig. 1)

C.P.C. 4562—Paratype A (Pl. 13, fig. 2)

C.P.C. 4563—Paratype B (Pl. 13, fig. 3)
Near Marion Downs Homestead, western
Queensland, at side of track 4 miles S
of junction with track between Bucket
Creek Bore and Whitewood Tank
(W. 285)

Lower Wilgunya Formation

C.P.C. 4564—Paratype C (Pl. 13, fig. 4)
Hills about 16 miles NW of Marion Downs
Homestead (S. 156)

Lower Wilgunya Formation

Lower Cretaceous

SPIROPLECTAMMINA CUSHMANI
Crespin, 1944; 1963.

Spiroplectammina cushmani Crespin, 1944,
p. 19, Pl. 1, fig. 7; 1963, p. 50, Pl. 13,
figs 5-7.

C.P.C. 4565—Hypotype A (Pl. 13, fig. 5)

C.P.C. 4566—Hypotype B (Pl. 13, fig. 6)

C.P.C. 4567—Hypotype C (Pl. 13, fig. 7)

Union-Kern-A.O.G., Cabawin No. 1 Well,
Queensland, at 1090-1099 feet

Roma Formation

Lower Cretaceous

SPIROPLECTAMMINA EDGELLI
Crespin, 1953; 1963.

Spiroplectammina edgelli Crespin, 1953,
p. 30, Pl. 5, fig. 10; 1963b, p. 50, Pl. 13,
figs 8-12.

C.P.C. 4568—Hypotype A (Pl. 13, fig. 8)
Netting Bore, Paton Downs, western
Queensland

Lower Wilgunya Formation

C.P.C. 4569—Hypotype B (Pl. 13, fig. 9)

C.P.C. 4570—Hypotype C (Pl. 13, fig. 10)
12 Mile Tank, Marion Downs, western
Queensland, at 0-4 feet from base
(GAB304A)

Lower Wilgunya Formation

C.P.C. 4571—Hypotype D (Pl. 13, fig. 11)
Broken Dam Bore, Canary Station, western
Queensland, at 45-50 feet

Lower Wilgunya Formation

C.P.C. 4572—Hypotype C (Pl. 13, fig. 12)
Coogiebung Tank, Marion Downs, western
Queensland (W. 26)

Lower Wilgunya Formation

Lower Cretaceous

SPIROPLECTAMMINA ENODIS Crespin,
1963.

Spiroplectammina enodis Crespin, 1963b,
p. 51, Pl. 13, figs 13-16.

C.P.C. 4573—Holotype (Pl. 13, fig. 13)

C.P.C. 4574—Paratype A (Pl. 13, fig. 16)
Dribbling Bore, Sandringham, western
Queensland, at 460-489 feet

Upper Longsight Sandstone

C.P.C. 4575—Paratype B (Pl. 13, fig. 15)

C.P.C. 4576—Paratype C (Pl. 13, fig. 14)
Union-Kern-A.O.G., Cabawin No. 1 Well,
Queensland, at 1090-1099 feet

Roma Formation

Lower Cretaceous

SPIROPLECTAMMINA GRZYBOWSKII
Frizzell, 1943; Belford, 1960.

Spiroplectammina grzybowskii Frizzell,
1943, p. 337, figs 12a, b; 13; Belford,
1960, p. 7, Pl. 1, figs 4-6.

C.P.C. 3078—Hypotype (Pl. 1, fig. 4)

Scarp on Yaringa North Station, Shark Bay
area, Carnarvon Basin, W.A., at side of
North-West Coastal Highway, 31 miles
N of Hamelin turnoff, 4 feet above base
of section

Toolonga Calcilitite

C.P.C. 3079 (Pl. 1, fig. 5), C.P.C. 3080
(Pl. 1, fig. 6)—Hypotypes

Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, at top of exposure
of Toolonga Calcilitite

Upper Cretaceous (Campanian)

SPIROPLECTAMMINA LAEVIS
(Roemer) var. **CRETOSA** Cushman,
1932; Belford, 1960.

See **SPIROPLECTA ANCEPS** (Reuss),
Chapman, 1917.

Spiroplecta anceps (Reuss), Chapman,
1917, p. 20, Pl. 2, fig. 16; Pl. 12, fig. 14.

Spiroplectammina laevis (Roemer) var.
cretosa Cushman, 1932, p. 87, Pl. 11,
figs 3a, b; Belford, 1960, p. 8, Pl. 1,
figs 7-10.

C.P.C. 3081—Hypotype (Pl. 1, figs 7, 8)
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, W.A., 10 feet
below top of exposure of Toolonga Cal-
cilitite

C.P.C. 3082—Hypotype (Pl. 1, figs 9, 10)
Locality as above but at top of exposure of
Toolonga Calcilitite

Upper Cretaceous (Campanian)

SPIROPLECTAMMINA PAULA Belford,
1960.

Spiroplectammina paula Belford, 1960, p. 8,
Pl. 1, figs 11-13.

C.P.C. 3083—Holotype (Pl. 1, figs 11, 12)
Scarp on Yaringa North Station, Shark Bay
area, Carnarvon Basin, W.A., at side of
North-West Coastal Highway, 31 miles
N of Hamelin turnoff, 10 feet above base
of section
Toolonga Calcilitite

C.P.C. 3084—Paratype (Pl. 1, fig. 13)
Scarp, Bidgie Bidgie Point, Murchison River
area, Carnarvon Basin, at top of exposure
of Toolonga Calcilitite

Upper Cretaceous (Campanian)

SPIROPLECTINATA COMPRES-
SIUSCULA (Chapman, 1917), emended
Belford, 1960.

See **BIGENERINA COMPRESSIUSCULA**
Chapman, 1917; **HAPLOPHRAG-**
MOIDES AGGLUTINANS (d'Orbigny),
Chapman, 1917.

Haplophragmoides agglutinans (d'Orbigny),
Chapman, 1917, p. 16, Pl. 2, fig. 10.

Bigenerina compressiuscula Chapman,
1917, p. 19, Pl. 2, figs 13, 14.

Spiroplectinata compressiuscula (Chap-
man), Belford, 1960, p. 14, Pl. 3, figs
9-19.

C.P.C. 3103—Holotype (Chapman, Pl. 2,
fig. 13; refigured Belford, Pl. 3, fig. 7)

C.P.C. 3104—Paratype (Chapman, Pl. 2,
fig. 14; refigured Belford, Pl. 3, fig. 8)
One Tree Hill, near Gingin, Perth Basin,
W.A.

Gingin Chalk (height above base of forma-
tion not known)

C.P.C. 3105 (Belford, Pl. 3, fig. 9), C.P.C.
3106 (Pl. 3, fig. 10), C.P.C. 3107 (Pl.
3, fig. 11)—Hypotypes

Scarp, Toolonga Point, Murchison River
area, Carnarvon Basin, W.A., at base
of Toolonga Calcilitite

C.P.C. 3108 (Pl. 3, fig. 12), C.P.C. 3109
(Pl. 3, fig. 13)—Hypotypes

C.P.C. 3112 (Pl. 3, fig. 16), C.P.C. 3113
(Pl. 3, fig. 17), C.P.C. 3114 (Pl. 3, fig.
18), C.P.C. 3115 (Pl. 3, fig. 19)—Thin
sections

Quarry, One Tree Hill, near Gingin, Perth
Basin, W.A., 32 feet above base

Gingin Chalk

C.P.C. 3110 (Pl. 3, fig. 14)—Thin sections
Scarp, Pillarawa Hill, Murchison River area,
Carnarvon Basin, 3 feet above base of
Toolonga Calcilitite

C.P.C. 3111 (Pl. 3, fig. 15)—Thin section
Scarp, Bidgie Bidgie Point, Murchison River
area, at base of Toolonga Calcilitite

Upper Cretaceous (Santonian)

SPIROTECTA PELLICULA Belford,
1961.

Spiropecta pellicula Belford, 1961, p. 81,
Pl. 3, figs 1-8.

C.P.C. 3851—Holotype (Pl. 3, figs 1-3)

C.P.C. 3853—Horizontal section (Pl. 3,
fig. 6)

CY. Creek, Carnarvon Basin, W.A., lat.
25° 5' S, long. 114° 07' E; type locality
of Korojon Calcarenite, 96 feet above
base of formation

Upper Cretaceous (Maestrichtian)

STAINFORTHIA CONCISA Crespin, 1960.

Stainforthia concisa Crespin, 1960, p. 27, Pl. 2, figs 7, 8.

C.P.C. 615—Holotype (Pl. 2, fig. 8)

C.P.C. 616—Paratype (Pl. 2, fig. 7)

Terrace, 120 feet above water level near NW corner of Deep Lake, Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

STAINFORTHIA VESTFOLDENSIS Crespin, 1960.

Stainforthia vestfoldensis Crespin, 1960, p. 27, Pl. 2, figs 4, 5, 6.

C.P.C. 612—Holotype (Pl. 2, fig. 4)

S terrace, Lake Dingle (Broad Lake), Vestfold Hills, Princess Elizabeth Land, Antarctica

C.P.C. 613—Paratype A (Pl. 2, fig. 5)

C.P.C. 614—Paratype B (Pl. 2, fig. 6) (not C.P.C. 164 as in text)

Terrace, 120 feet above water level, NW corner, Deep Lake, Vestfold Hills, Princess Elizabeth Land, Antarctica

Recent

STENSIOINA TRUNCATA Belford, 1960.

Stensioina truncata Belford, 1960, p. 81, Pl. 22, figs 7-15.

C.P.C. 3353—Holotype (Pl. 22, figs 7-9)

C.P.C. 3354—Paratype A (Pl. 22, figs 10, 11)

C.P.C. 3355—Paratype B (Pl. 22, figs 12, 13)

C.P.C. 3356—Paratype C (Pl. 22, fig. 14)

C.P.C. 3357—Horizontal section (Pl. 22, fig. 15)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

STILOSTOMELLA ASPERA (Reuss, 1845); Belford, 1960.

See *SAGRINA MAITLANDIANA* Chapman, 1917.

Stilostomella aspera Reuss, 1845, p. 26, Pl. 13, figs 14, 15.

Sagrina maitlandiana Chapman, 1917, p. 41, Pl. 10, fig. 97.

Stilostomella aspera (Reuss), Belford, 1960, p. 69, Pl. 19, figs 1, 2.

C.P.C. 3315—Hypotype (Pl. 19, fig. 1)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A., at base of Toolonga Calcilutite

C.P.C. 3316—Hypotype (Pl. 19, fig. 2)

Scarp, Pillarawa Hill, Murchison River area, 14 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

SUBBOTINA TRILOCULINOIDES (Plummer, 1926); Belford, 1967.

Globigerina triloculinoides Plummer, 1926, p. 134, Pl. 8, figs 10a-c.

Subbotina triloculinoides (Plummer), Belford, 1967a, p. 7, Pl. 1, figs 1-5.

C.P.C. 7194 (Pl. 1, figs 1-3), C.P.C. 7195 (Pl. 1, figs 4, 5)—Hypotypes

Section of Andebare River, about 2000 feet above base of the measured section, SW of Laiagam, Western Highlands, New Guinea (Loc. 3d, F903)

Lagaip Beds

Paleocene

TETRATAXIS CONICA Ehrenberg, 1854; Belford, 1968.

Tetrataxis conica Ehrenberg, 1854, p. 106; Belford, 1968, Pl. 3, fig. 4.

C.P.C. 6863—Hypotype

BMR 9, Core 10, at 992-1002 feet, Dauri Creek, Coordewandy Station, Carnarvon Basin, W.A.

Callytharra Formation

Lower Permian

TEXTULARIA ANACOORAENSIS Crespin, 1953; 1963.

Textularia anacooraensis Crespin, 1953, p. 31, Pl. 5, fig. 15; 1963b, p. 52, Pl. 14, figs 1-4.

C.P.C. 4584—Hypotype A (Pl. 14, fig. 1)

C.P.C. 4584—Hypotype B (Pl. 14, fig. 2)
Basal beds in hills S of track, 5 miles from
Snake Creek Bore, on track to Junction
Bore, Alderley, western Queensland
(G. 158)

Lower Wilgunya Formation

C.P.C. 4586—Hypotype C (Pl. 14, fig. 3)
Kingdom Bore, western Queensland
Lower Wilgunya Formation

C.P.C. 4587—Hypotype D (Pl. 14, fig. 4)
Cook Bore, Eucla Basin, South Australia,
at 422 feet

Lower Cretaceous

TEXTULARIA GIBBOSA d'Orbigny,
1826; Chapman, 1917.

See DOROTHIA CONFRAGA Belford,
1960, p. 20.

Textularia gibbosa, d'Orbigny, 1826, No. 6,
Modèle No. 28; Chapman, 1917, p. 18,
Pl. 2, fig. 11.

C.P.C. 7042 (11)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

TEXTULARIA GIBBOSA var.
TUBEROSA d'Orbigny, 1826; Chapman,
1909.

Textularia tuberosa d'Orbigny, 1826, p. 263,
No. 26

Textularia gibbosa var. *tuberosa* d'Orbigny,
Chapman, 1909, p. 238, Pl. 14, fig. 7.

C.P.C. 7193 (9)—Hypotype
20 miles N of Auckland Island at 85
fathoms, 166° 00' E, 50° 15' S

Recent

TEXTULARIA GRAMEN d'Orbigny,
1846; Chapman, 1909.

Textularia gramen d'Orbigny, 1846, p. 248,
Pl. 15, figs 4-6; Chapman, 1909, p. 328,
Pl. 14, fig. 8.

C.P.C. 7193 (10)—Hypotype
10 miles N of Enderby Island, near NE
end of Auckland Island, at 85 fathoms,
166° 18' E, 50° 20' S

Recent

TEXTULARIA GRAMEN d'Orbigny,
1846; Chapman, 1917.

Textularia gramen d'Orbigny, 1846, p. 248,
Pl. 15, figs 4-6; Chapman, 1917, p. 19,
Pl. 2, fig. 12.

C.P.C. 7042 (12)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

TEXTULARIA GRAMEN d'Orbigny var.
JUGOSA Jones, 1899; Chapman, 1909.

Textularia gramen d'Orbigny var. *jugosa*
Jones, in Millet, 1899, p. 561, Pl. 7,
fig. 8; Chapman, 1909, p. 329, Pl. 14,
fig. 9.

C.P.C. 7193 (11)—Hypotype
Off the Snares, S of New Zealand, at 60
fathoms, 166° 32' E, 48° 01' S

Recent

TEXTULARIA TURRIS d'Orbigny, 1840;
Chapman, 1917.

See MARSSONELLA OXYCONA
(Reuss), Belford, 1960, p. 16.

Textularia turris d'Orbigny, 1840, p. 48,
Pl. 4, figs 27, 28; Chapman, 1917, p. 18,
Pl. 1, fig. 9.

C.P.C. 7042 (9)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

TEXTULARIA WILGUNYAENSIS Cres-
pin, 1963.

Textularia wilgunyaensis Crespin, 1963b,
p. 53, Pl. 14, figs 5-11.

C.P.C. 4588—Holotype (Pl. 14, figs 6, 7, 8)

C.P.C. 4591—Paratype C (Pl. 14, fig. 10)
Dry Bore Creek Tank, Marion Downs,
western Queensland (GAB. 23)

Lower Wilgunya Formation

C.P.C. 4589—Paratype A (Pl. 14, fig. 5)

C.P.C. 4590—Paratype B (Pl. 14, fig. 9)

C.P.C. 4592 (not 4591 as in text, p. 54)—
Paratype B (Pl. 14, fig. 11)

Near Marion Downs Homestead, at side of track 4 miles S of junction with track between Bucket Creek Bore and White-wood Tank (W.285)

Lower Wilgunya Formation

Lower Cretaceous

THURAMMINOIDES SPHAEROIDALIS Plummer, 1945; Belford, 1968.

Thuramminoides sphaeroidalis Plummer, 1945, p. 218, Pl. 15, figs 4-10; Belford, 1968, Pl. 1, fig. 4.

C.P.C. 6825—Hypotype

BMR 6, Core 8, at 701-711 feet, Middalya Station, Carnarvon Basin, W.A., 88 miles NE of Carnarvon, in central-north part of Kennedy Range

Permian

TOLYPAMMINA HELINA Crespín, 1961.

Tolypammina helina Crespín, 1961, p. 407, Pl. 67, figs 1-5

C.P.C. 425—Holotype (Pl. 67, figs 1, 2)

C.P.C. 484—Paratype A (Pl. 67, figs 3, 4)

C.P.C. 485—Paratype B (Pl. 67, fig. 5)

Section 200 yards S of SE end of Bugle Gap, Fitzroy Basin, W.A., 88-100 feet above base of section

Virgin Hills Formation

Upper Devonian

TOLYPAMMINA NEXUOSA Crespín,

Tolypammina nexuosa Crespín, 1961, p. 407, Pl. 67, figs 6-8.

C.P.C. 486—Holotype (Pl. 67, fig. 6)

C.P.C. 487—Paratype A (Pl. 67, fig. 7)

Section SE end of Bugle Gap, Fitzroy Basin, W.A., 66-88 feet above base of section

Virgin Hills Formation

C.P.C. 488—Paratype B (Pl. 67, fig. 8)

200 yards S of SE end of Bugle Gap—44-66 feet above base of section

Virgin Hills Formation

Upper Devonian

TREPEILOPSIS AUSTRALIENSIS Crespín, 1958; Belford, 1968.

Trepeilopsis australiensis Crespín, 1958, p. 86, Pl. 18, figs 1-4; Pl. 22, figs 1, 3, 5-8; Belford, 1968, Pl. 3, figs 1-3.

C.P.C. 6860 (Pl. 3, fig. 1), C.P.C. 6861 (Pl. 3, fig. 2)—Hypotypes

BMR 9, Core 11, at 1083-1093 feet, Dauri Creek, Coordewandy Station, Carnarvon Basin

Callytharra Formation

C.P.C. 6862—Thin section (Pl. 3, fig. 3)

BMR 8, Core 14, at 1280-1290 feet, Byro Station, Carnarvon Basin

Callytharra Formation

Lower Permian

TRIFARINA BRADYI Cushman, 1923; Belford, 1966.

Trifarina bradyi Cushman, 1923, p. 99, Pl. 22, figs 3a, b, 4a, b, 5-8, 9a-b; Belford, 1966, p. 88, Pl. 9, figs 16-17.

C.P.C. 6360 (Pl. 9, fig. 16), C.P.C. 6361 (Pl. 9, fig. 17)—Hypotypes

Karova Creek, Kerema-Karova Creek area, Papua (Loc. 7, Map 3)

Middle Miocene

TRIPLASIA AUSTRALIAE Crespín, 1963.

Triplasia australiae Crespín, 1963b, p. 48, Pl. 12, figs 1-4.

C.P.C. 4559—Holotype (Pl. 12, figs 1-3)

4 miles NW of Kidmans Bore, Marion Downs, western Queensland (W. 80)

Lower Wilgunya Formation

C.P.C. 4560—Paratype (Pl. 12, fig. 4)

11 miles SW of 8 Mile Yard near track to Whitehead Tank on Herbert Downs, western Queensland (W. 206)

Lower Wilgunya Formation

Lower Cretaceous

TROCHAMMINA DELICATULA Crespín, 1963.

Trochammina delicatula Crespín, 1963b, p. 61, Pl. 17, figs 1-10.

C.P.C. 4626—Holotype (Pl. 17, figs 1-3)
At foot of hills 100 yards W of Hilary Tank,
Tank, 66 miles N of Bedourie, western
Queensland (GAB 1205)
Upper Wilgunya Formation

C.P.C. 4627—Paratype A (Pl. 17, figs 6, 7,
8)

C.P.C. 4628—Paratype B (Pl. 17, figs 4-5)

C.P.C. 4629—Paratype C (Pl. 17, figs 9,
10)

About 4 miles NE of northernmost of the
Three Sisters, Breadalbane, western
Queensland (GAB. 66a)

Upper Wilgunya Formation

Lower Cretaceous

TROCHAMMINA DEPRESSA Lozo,
1944; Crespín, 1963.

Trochammina depressa Lozo, 1944, p. 552,
Pl. 2, figs 4a, b, 5; Crespín, 1963b, p. 61,
Pl. 17, figs 11-21.

C.P.C. 4630—Hypotype A (Pl. 17, figs
11, 12, 13)

C.P.C. 4631—Hypotype B (Pl. 17, figs 14,
15, 16)

C.P.C. 4632—Hypotype C (Pl. 17, figs 20,
21)

12 Mile Tank, Marion Downs, western
Queensland, 0-4 feet above base (GAB.
304a)

Lower Wilgunya Formation

C.P.C. 4633—Hypotype D (Pl. 17, figs 17,
18, 19)

Woolshed, Jynoomah Station, Queensland
Tambo Formation

Lower Cretaceous

TROCHAMMINA MINUTA Crespín,
1953; 1963.

Trochammina minuta Crespín, 1953, p. 32,
Pl. 5, figs 19a, b; 1963b, p. 62, Pl. 18,
figs 1-5.

C.P.C. 4634—Hypotype A (Pl. 18, figs
1-2)

Lower Gidyea Bore, Lorna Downs, western
Queensland

Lower Wilgunya Formation

C.P.C. 4635—Hypotype B (Pl. 18, figs 3,
4, 5)

Cook Bore, Eucla Basin, near Trans-
Continental Railway line, South Aus-
tralia, at 604 feet

Lower Cretaceous

TROCHAMMINA RAGGATTI Crespín,
1944; 1963.

Trochammina raggatti Crespín, 1944, Pl. 1,
figs 4a-c, 5; 1963b, p. 62, Pl. 18, figs
6-10.

C.P.C. 4636—Hypotype A (Pl. 18, 6, 7, 8)
Dribbling Bore, Sandringham, western
Queensland, at 470-489 feet

Upper Longsight Sandstone

C.P.C. 4637—Hypotype B (Pl. 18, fig. 9)

C.P.C. 4638—Hypotype C (Pl. 18, fig. 10)
Sandy Creek Well, Herbert Downs Station,
N of Badalia Homestead, western
Queensland (B. 417)

Upper Longsight Sandstone

Lower Cretaceous

TROCHAMMINA SUBINFLATA
Crespín, 1963.

Trochammina subinflata Crespín, 1963b,
p. 63, Pl. 18, figs 11-19.

C.P.C. 4639—Holotype (Pl. 18, 11, 12,
13)

C.P.C. 4641—Paratype B (Pl. 18, figs 17,
18, 19)

SOE Scout Bore No. 3 Gumbra, southwest
Queensland, at 1500 feet

C.P.C. 4640—Paratype A (Pl. 18, 14, 15,
16)

W.C. and I.C. Bore 8302, J. J. Doohan,
Yarralee, Wanaaring, northern New
South Wales, at 600 feet

Lower Cretaceous

TROCHAMMINA SUBOBTUSA Parr,
1942; Belford, 1968.

Trochammina subobtusa Parr, 1942, p. 109,
Pl. 1, figs 14-a-c; Belford, 1969, Pl. 1,
figs 11-12.

C.P.C. 6832—Hypotype (Pl. 1, fig. 11,
ventral view; Pl. 1, fig. 12, dorsal view)

BMR 7, Core 16, at 1087-1095 feet,
Middalya Station, Carnarvon Basin,
W.A., 88 miles NE of Carnarvon in
north-central part of Kennedy Range

Permian

TROCHAMMINA sp. nov. Crespin, 1963.

Trochammina sp. nov. Crespin, 1963b, p.
64, Pl. 18, figs 20-22.

C.P.C. 4642—Figured specimen
Union-Kern-A.O.G. Cabawin No. 1 well,
Queensland, at 1120-1130 feet
Roma Formation

Lower Cretaceous

TRUNCATULINA CONVEXA Reuss,
1851; Chapman, 1917.

See **CIBICIDES EXCAVATA** Brotzen,
Belford, 1960, p. 111.

Truncatulina convexa Reuss, 1851a, p. 36,
Pl. 3, fig. 4; Chapman, 1917, p. 45, Pl.
11, figs 105a, b.

C.P.C. 7045 (15a, b)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

TRUNCATULINA LOBATULA (Walker
& Jacob, 1798); Chapman, 1917.

See **CIBICIDES RIBBINGI** Brotzen, Bel-
ford, 1960, p. 111.

Nautilus lobatulus Walker & Jacob, 1798,
p. 20, Pl. 3, fig. 71.

Truncatulina lobatulata (Walker & Jacob),
Chapman, 1917, p. 45, Pl. 11, figs 104a,
-b.

C.P.C. 7045 (14)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Lower Cretaceous

TRUNCATULINA WUELLERSTORFI
(Schwager, 1866); Chapman, 1917.

Anomalina wuellerstorfi Schwager, 1866,
p. 258, Pl. 7, figs 105, 107.

Truncatulina wuellerstorfi (Schwager),
Chapman, 1917, p. 46, Pl. 11, fig. 107.

C.P.C. 7045 (196)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

VAGINULINA COMITINA Berthelin,
1880; Chapman, 1917.

Vaginulina comitina Berthelin, 1880, p. 38,
Pl. 1, figs 21a-d; Chapman, 1917, p. 33,
Pl. 8, fig. 68.

C.P.C. 7044 (8)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

VAGINULINA LEGUMEN (Linnaeus,
1758), Chapman, 1917.

See **DENTALINA MEGALOPOLITANA**
Reuss, Belford, 1960, p. 26.

Nautilus legumen Linnaeus, 1758, p. 1164,
No. 288.

Vaginulina legumen (Linnaeus), Chapman,
1917, p. 23, Pl. 8, fig. 67.

C.P.C. 3151—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

VAGINULINA STRIGILLATA (Reuss,
1845); Chapman, 1917.

See **CITHARINA SUTURALIS**
(Cushman), Belford, 1960, p. 41.

Citharina strigillata Reuss, 1846, pt. 2, p.
106, Pl. 24, fig. 29.

Vaginulina strigillata (Reuss), Chapman,
1917, p. 34, Pl. 8, fig. 69.

C.P.C. 7044 (9)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

VALVULINERIA ERUGATA Belford,
1960.

Valvulineria erugata Belford, 1960, p. 76,
Pl. 20, figs 11-18.

C.P.C. 3336—Holotype (Pl. 20, figs
11-13)

C.P.C. 3337—Paratype A (Pl. 20, figs 14-16)

C.P.C. 3338—Paratype B (Pl. 20, fig. 17)

C.P.C. 3339—Thin section (Pl. 20, fig. 18)

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

VALVULINERIA JAVANA LeRoy, 1944; Belford, 1966.

Valvulineria javana LeRoy, 1944, p. 88, Pl. 7, figs 4-6; Belford, 1966, p. 98, Pl. 37, figs 16-20.

C.P.C. 6383 (Pl. 37, figs 16-18)—Hypotype

Tubu area, Papua (Loc. 1d, Map 1)

'Tubu Siltstone'

Upper Miocene

C.P.C. 6384 (Pl. 37, figs 19-20)—Hypotype

Seacliff below L.M.S. Mission, Delena, Papua (Loc. 2, Map 3)

Lower Miocene

VALVULINERIA LENTICULA (Reuss, 1845); Belford, 1960.

Rotalina lenticula Reuss, 1845, p. 35, Pl. 12, figs 17a-c.

Valvulineria lenticula (Reuss), Belford, 1960, p. 75, Pl. 20, figs 3-10.

C.P.C. 3333 (Pl. 20, figs 3-5), C.P.C. 3334 (Pl. 20, figs 6, 7)—Hypotypes

Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

C.P.C. 3335—Hypotype (Pl. 20, figs 8-10)

Scarp, Toolonga Point, Murchison River area

At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

VALVULINERIA UNDULATA Belford, 1960.

Valvulineria undulata Belford, 1960, p. 76, Pl. 20, figs 19-24.

C.P.C. 3340—Holotype (Pl. 20, figs 19-20)

C.P.C. 3341—Paratype (Pl. 20, figs 22-24)
Scarp, Bidgie Bidgie Point, Murchison River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

VALVULINERIA sp. Belford, 1960.

Valvulineria sp. Belford, 1960, p. 77, Pl. 21, figs 1-3.

C.P.C. 3342—Figured specimen (Pl. 21, figs 1-3)

Scarp, Pillarawa Hill, Murchison River area, Carnarvon Basin, W.A.

3 feet above base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

VERNEUILINA HOWCHINI Crespin, 1953; 1963.

Verneuilina howchini Crespin, 1953, p. 31, Pl. 5, fig. 16; Crespin, 1963b, p. 56, Pl. 15, figs 1-3.

C.P.C. 4601—Hypotype A (Pl. 15, fig. 1)
Mt Whelan, western Queensland (W. 40)
Lower Wilgunya Formation

C.P.C. 4602—Hypotype B (Pl. 15, fig. 2)

C.P.C. 4602—Hypotype C (Pl. 15, fig. 3)
Marion Downs Homestead, side track 4 miles S of junction with track between Bucket Creek Bore and Whitewood Tank, western Queensland

Lower Wilgunya Formation

Lower Cretaceous

VERNEUILINA PARRI Cushman, 1936; Belford, 1960.

See **GUEMBELINA POLYSTROPHA** (Reuss), Chapman, 1917.

Guembelina polystropha (Reuss), Chapman, 1917, p. 21, Pl. 2, fig. 19.

Verneuilina parri Cushman, 1936a, p. 2, Pl. 1, figs 3a, b; Belford, 1960, p. 9, Pl. 1, figs 14-19.

C.P.C. 3085—Hypotype (Pl. 1, figs 14, 15)
Scarp near emergency airfield, Murchison River area, Carnarvon Basin, W.A.

3 feet above base of Toolonga Calcilutite (Santonian)

C.P.C. 3086—Hypotype (Pl. 1, fig. 16)
Scarp, Toolonga Point, Murchison River
area

At base of Toolonga Calcilutite (Santonian)

C.P.C. 3086—Hypotype (Pl. 1, fig. 16)

C.P.C. 3087—Hypotype (Pl. 1, fig. 17)

Same locality as C.P.C. 3086, but 8 feet
above base of Toolonga Calcilutite
(Santonian)

C.P.C. 3088—Hypotype (Pl. 1, figs 18, 19)

Scarp, Bidgie Bidgie Point, Murchison River
area

At top of exposure of Toolonga Calcilutite
(Campanian)

Upper Cretaceous (Santonian, Campanian)

VERNEULINOIDES ASPERULUS
Crespin, 1963.

Verneulinoides asperulus Crespin, 1963, p.
57, Pl. 15, figs 8-12.

C.P.C. 4604—Holotype (Pl. 15, fig. 8)
Mt Whelan, western Queensland (W. 40)

Lower Wilgunya Formation

C.P.C. 4605—Paratype A (Pl. 15, fig. 9)

11 miles SW of 8 Mile Yard, near track to
Whitewood Tank on Herbert Downs,
western Queensland (W. 206)

Lower Wilgunya Formation

C.P.C. 4606—Paratype B (Pl. 15, fig. 10)

C.P.C. 4607 (not 4608 as in text)—Para-
type C (Pl. 15, fig. 11)

Breadalbane No. 3 Bore, 20 miles W of
Breadalbane Homestead, western Queens-
land (GAB. 218)

Lower Wilgunya Formation

C.P.C. 4608—Paratype D (Pl. 15, fig. 12)

A.A.O. No. 8, Karumba Well, Northern
Queensland, at 2095-2100 feet

Blackdown Formation

Lower Cretaceous

VERNEULINOIDES KANSASSENSIS
Loeblich & Tappan, 1950; Crespin,
1963.

Verneulinoides kansasensis Loeblich &
Tappan, 1950, p. 10, Pl. 2, figs 1a, b,
2a, b; Crespin, 1963, p. 57, Pl. 15, figs
4-7.

C.P.C. 4609—Hypotype A (Pl. 15, fig. 4)

C.P.C. 4610—Hypotype B (Pl. 15, fig. 5)

W.C. and I.C. Bore 8302, J. J. Doohan,
Yarralée, Wanaaring, northern New
South Wales at 600 feet

C.P.C. 4611—Hypotype C (Pl. 15, fig. 6)

Shaly beds from lowest point of No. 2
Tank, Springvale, western Queensland
Upper Wilgunya Formation

C.P.C. 4612—Hypotype D (Pl. 15, fig. 7)

Jacks (New Limestone) Bore, Canary
Station, western Queensland

Lower Wilgunya Formation

Lower Cretaceous

VITRIWEBBINA LAEVIS (Sollas, 1877);
Chapman, 1917.

Webbina laevis Sollas, 1877, p. 103, Pl. 6,
figs 1-3.

Vitriwebbina laevis (Sollas), Chapman,
1917, p. 43, Pl. 11, fig. 101.

C.P.C. 7045 (11)—Hypotype
One Tree Hill, Gingin, Perth Basin, W.A.
Gingin Chalk

Upper Cretaceous

VITRIWEBBINA sp. Belford, 1960.

Vitriwebbina sp. Belford, 1960, p. 57, Pl.
15, figs 4, 5.

C.P.C. 3269—Figured specimen (Pl. 15,
figs 4, 5)

Scarp, Bidgie Bidgie Point, Murchison
River area, Carnarvon Basin, W.A.

At base of Toolonga Calcilutite

Upper Cretaceous (Santonian)

RADIOLARIA

ACTINOMMA (ACTINOMMA) sp. Lloyd, 1967.

Actinomma (Actinomma) sp. Lloyd, 1967, p. 121, Pl. 17, fig. 6; Pl. 18, fig. 5.

C.P.C. 6989—Figured specimen, thin section (Pl. 17, fig. 6)

Lee Point, 10 miles N of Darwin, Northern Territory

Mullaman Beds

C.P.C. 7181—Figured specimen, thin section (Pl. 18, fig. 5)

8 miles NNE of Shandon Downs Homestead near Newcastle Waters, Northern Territory

Mullaman Beds

Lower Cretaceous

ARACHNOSPHERA EXILIS (Hinde, 1893); Lloyd, 1967.

Lithocyclus exilis Hinde, 1893, p. 223, Pl. 5, fig. 8.

Arachnosphaera exilis (Hinde), Lloyd, 1967, p. 121, Pl. 16, figs 1, 3-10; Pl. 18, figs 1, 2 (not 3 as in text, p. 121)

C.P.C. 6922—Thin section (Pl. 16, fig. 1)
Southeast Canning Basin, W.A.

Bejah Beds

C.P.C. 6974—Thin section (Pl. 16, figs 3, 4)

Larrakeyah Quarry, Darwin, Northern Territory

Mullaman Beds

C.P.C. 6976—(Pl. 16, figs 5, 6), C.P.C. 6977 (Pl. 16, fig. 7)—free tests

C.P.C. 6978—(Pl. 16, fig. 8), C.P.C. 6979 (Pl. 16, fig. 9), C.P.C. 6980 (Pl. 16, fig. 10)—Thin sections

Lee Point, 10 miles N of Darwin, Northern Territory

Mullaman Beds

C.P.C. 7178—(Pl. 18, fig. 1), C.P.C. 7179 (Pl. 18, fig. 2)—Thin sections

19 Miles NE of Beetaloo Homestead, near Newcastle Waters, Northern Territory

Mullaman Beds

Lower Cretaceous

? ARACHNOSPHERA EXILIS (Hinde, 1893); Lloyd, 1967.

? *Arachnosphaera exilis* (Hinde), Lloyd, 1967, p. 122, Pl. 16, figs 2, 11, 12, 13; Pl. 18, fig. 3.

C.P.C. 6973—Thin section (Pl. 16, fig. 2)
Southeast Canning Basin, W.A.

Bejah Beds

C.P.C. 6981—(Pl. 16, fig. 11), C.P.C. 6982 (Pl. 16, fig. 12), C.P.C. 6983 (Pl. 16, fig. 13)—Thin sections

Lee Point, 10 Miles N of Darwin, Northern Territory

Mullaman Beds

C.P.C. 7180—Thin section (Pl. 18, fig. 3)
10 miles NE of Beetaloo Homestead, near Newcastle Waters, Northern Territory

Mullaman Beds

Lower Cretaceous

COSCINOMMA (COSCINOMMA) sp. Lloyd, 1967.

Coscinomma (Coscinomma) sp. Lloyd, 1967, p. 120, Pl. 17, figs 1-4.

C.P.C. 6984—Figured specimen (free specimen) (Pl. 17, fig. 1)

C.P.C. 6985 (Pl. 17, fig. 2), C.P.C. 6986 (Pl. 17, fig. 3), C.P.C. 6987 (Pl. 17, fig. 4)—Thin sections

Lee Point, 10 miles N of Darwin, Northern Territory

Mullaman Beds

Lower Cretaceous

DICTYOMITRA (DICTYOMITRELLA) sp.A, Lloyd, 1967.

Dictyomitra (Dictyomitrella) sp.A, Lloyd, 1967, p. 123, Pl. 17, fig. 11.

C.P.C. 6994—Figured specimen (free test)
Lee Point, 10 miles N of Darwin, Northern Territory

Mullaman Beds

Lower Cretaceous

DICTYOMITRA (DICTYOMITRELLA)
sp.B, Lloyd, 1967.

Dictyomitra (Dictyomitrella) sp.B, Lloyd,
1967, p. 123, Pl. 17, figs 12-16; Pl. 18,
figs 6-8.

C.P.C. 6995—Thin section (Pl. 17, fig. 12)

C.P.C. 6996 (Pl. 17, fig. 13), C.P.C. 6997
(Pl. 17, fig. 14), C.P.C. 6998 (Pl. 17,
fig. 15), C.P.C. 6999 (Pl. 17, fig. 16)—
Free specimens

Lee Point, 10 miles N of Darwin, Northern
Territory

Mullaman Beds

C.P.C. 7182 (Pl. 18, fig. 6), C.P.C. 7191
(Pl. 18, fig. 7), C.P.C. 7192 (Pl. 18, fig.
8)—Thin sections

8 miles NNE of Shandon Downs Home-
stead, near Newcastle Waters, Northern
Territory

Mullaman Beds

Lower Cretaceous

**DIPLOSPHAERA (DIPLOSPHAE-
RELLA) sp. Lloyd, 1967.**

Diplosphaera (Diplosphaerella) sp. Lloyd,
1967, p. 119, Pl. 17, fig. 5; Pl. 18, fig. 4.

C.P.C. 6988—Thin section (Pl. 17, fig. 5)
Lee Point, 10 Miles N of Darwin, Northern
Territory

Mullaman Beds

C.P.C. 7190—Thin section (Pl. 18, fig. 4)
8 miles NNE of Shandon Downs Home-
stead, near Newcastle Waters, Northern
Territory

Mullaman Beds

Lower Cretaceous

?LITHOCAMPE (LITHOCAMPE) sp.
Lloyd, 1967.

?Lithocampe (Lithocampe) sp. Lloyd,
1967, p. 124, Pl. 17, figs 8, 9.

C.P.C. 6991 (Pl. 17, fig. 7), C.P.C. 6992
(Pl. 17, fig. 8)—Thin sections

Lee Point, 10 Miles N of Darwin, Northern
Territory

Mullaman Beds

Lower Cretaceous

?LITHOCAMPE (LITHOCAMPIUM) sp.
Lloyd, 1967.

?Lithocampe (Lithocampium) sp. Lloyd,
1967, p. 124, Pl. 17, fig. 10.

C.P.C. 6993—Thin section

Lee Point, 10 Miles N of Darwin, Northern
Territory

Mullaman Beds

Lower Cretaceous

XIPHOSPHAERA (XIPHOSPHAERA) sp.
Lloyd, 1967.

Xiphosphaera (Xyphosphaera) sp. Lloyd,
1967, p. 119, Pl. 17, fig. 7.

C.P.C. 6990—Thin section

Lee Point, 10 Miles N of Darwin, Northern
Territory

Mullaman Beds

Lower Cretaceous

TINTINNINA

CALPIONELLA SCHNEEBERGERI

Brunnschweiler, 1960.

Calpionella schneebergeri Brunnschweiler, 1960, p. 12, text-figs 7, 8.

The thin section containing this species was lost in the Bureau fire, April, 1953. A new section was made from the original rock specimen (R.7886), which is registered under C.P.C. 573. *C. schneebergeri* is very abundant in this rock.

Langey Crossing, Lower Fitzroy River,
Dampier Peninsula, W.A.

Langey Beds

Upper Jurassic

CALPIONELLA cf. C. UNDELLOIDES

Colom, 1948; Brunnschweiler, 1960.

Calpionella undelloides Colom, 1948, p. 242, text-fig. 11-3, 34, 47, 49, 55.

Calpionella cf. *C. undelloides* Colom, Brunnschweiler, 1960, p. 13, text-figs 7, 9.

(On same slide as *C. schneebergeri*, described above)

Langey Crossing, Lower Fitzroy River,
Dampier Peninsula, W.A.

Langey Beds

Upper Jurassic

REFERENCES

FORAMINIFERA

- AKERS, W. H., 1955—Some planktonic foraminifera of the American Gulf Coast and suggested correlations with the Caribbean Tertiary. *J. Paleont.* 29(4), 647-64.
- BARTENSTEIN, H., and BRAND, E., 1951—Mikropaläontologische Untersuchungen zur Stratigraphie des nordwestdeutschen Valendi. *Abh. senck. naturf. Ges.* 485, 239-336.
- BATSCH, A. J. B. K., 1791—Conchylien des Deedands. *Jena.*
- BELFORD, D. J., 1960—Upper Cretaceous Foraminifera from the Toolonga Calcilutite and Gingin Chalk, Western Australia. *Bur. Miner. Resour. Aust. Bull.* 57, 198 pp.
- BELFORD, D. J., 1961—*Spiropecta pellicula* n. gen., n. sp., from the Upper Cretaceous and *Giraliarella triloba* n. sp., from the Permian of Western Australia. *Contr. Cushman Fdn.* 12(3), 81-2.
- BELFORD, D. J., 1962—Miocene and Pliocene planktonic Foraminifera, Papua-New Guinea. *Bur. Miner. Resour. Aust. Bull.* 62, 1-50.
- BELFORD, D. J., 1966—Miocene and Pliocene smaller Foraminifera from Papua and New Guinea. *Bur. Miner. Resour. Aust. Bull.* 79, 306 pp.
- BELFORD, D. J., 1967a—Paleocene planktonic Foraminifera from Papua and New Guinea. *Bur. Miner. Resour. Aust. Bull.* 92, 1-33.
- BELFORD, D. J., 1967b—Additional Miocene and Pliocene planktonic Foraminifera from Papua and New Guinea. *Bur. Miner. Resour. Aust. Bull.* 92, 35-47.
- BELFORD, D. J., 1967c—Occurrence of the genus *Draffania* Cummings in Western Australia. *Bur. Miner. Resour. Aust. Bull.* 92, 49-54.
- BELFORD, D. J., 1968—Permian Foraminifera from BMR Bores, 6, 7, 8, and 9, Western Australia. *Bur. Miner. Resour. Aust. Bull.* 80, 1-13.
- BERMUDEZ, P. J., 1949—Tertiary smaller Foraminifera of the Dominican Republic. *Contr. Cushman Lab. spec. Publ* 25, 1-322
- BERMUDEZ, P. J., 1952—Estudio sistematico de los Foraminiferos rotaaliformes. *Bol. geol. Caracas*, 2 (4), 1-152.
- BERMUDEZ, P. J., 1961—Contribucion al estudio de las Globigerinidae de la region Caribe-Antillana (Paleoceno-Reciente). *Mem. 3rd Congr. Geol. Venez., Bol. Geol.* 3, *Publ. espec.* 3, 1119-1393.
- BERTHELIN, G., 1880—Mémoire sur les Foraminifères fossiles de L'Etage Albien de Montecley (Doubs). *Mém. géol. Soc. France*, ser. 3, 1(5), 1-84.
- BLOW, W. H., 1956—Origin and evolution of the foraminiferal genus *Orbulina*. *Micro-paleontology*, 2(1), 57-70.
- BLOW, W. H., 1959—Age, correlation and biostratigraphy of the Upper Tocuyo (San Lorenzo) and Pozon Formations, Eastern Falcon, Venezuela. *Bull. Amer. Paleont.*, 39 (178), 1-251.
- BOLLI, H., 1944—Zur Stratigraphie der Oberen Kriede in den höheren helvetischen Decken. *Ecl. geol. Helv.*, 37(2), 217-83.
- BOLLI, H., 1951—Notes on the direction of coiling of rotalid Foraminifera. *Contr. Cushman Fdn.* 2(4), 139-43.
- BOLLI, H., 1954—Note on *Globigerina concinna* Reuss, 1850. *Contr. Cushman Fdn.* 5(1), 1-3.
- BOLLI, H., 1957a—Planktonic Foraminifera from the Oligocene-Miocene Cipero and Lengua Formations of Trinidad, B.W.I. *Bull. U.S. nat. Mus.*, 215, 97-123.
- BOLLI, H., 1957b—The genera *Globigerina* and *Globorotalia* in the Paleocene-Lower Eocene Lizard Springs Formation of Trinidad, B.W.I. *Bull. U.S. nat. Mus.*, 215, 61-81.
- BOLLI, H., LOEBLICH, A. R., and TAPPAN, H., 1957—Planktonic foraminiferal families Hantkeninidae, Orbulinidae, Globorotaliidae, and Globotruncanidae. *Bull. U. S. nat. Mus.*, 215, 3-50.

- BOOMGAART, L., 1949—Smaller Foraminifera from Bodjonegoro (Java). *Min. geol. Inst. Rijks Univ. Utrecht*, 1-175.
- BRADY, H. B., 1877—Supplementary note on the Foraminifera of the Chalk (?) of the New Britain Group, *Geol. Mag.*, n.s. dec. 2, 4(12), 534-6.
- BRADY, H. B., 1879a—Notes on some of the Reticularian Rhizopoda of the 'Challenger' Expedition. Part I. On new or little-known arenaceous types. *Quart. J. micro. soc. Lond.*, n.s. 19, 20-63.
- BRADY, H. B., 1879b—Notes of some of the Reticularian Rhizopoda of the 'Challenger' Expedition. Part II. Addition to the knowledge of porcellaneous and hyaline types. *Quart. J. micro. Soc. Lond.*, n.s. 19, 261-99.
- BRADY, H. B., 1881—Notes on some of the Reticularian Rhizopoda of the 'Challenger' Expedition, Part III. *Quart. J. micro, Soc. Lond.* n.s. 21, 31-71.
- BRADY, H. B., 1882—Foraminifera in TIZARD and MURRAY's Exploration of the Faroë Channel—Ship 'Knight Errant'. *Proc. Roy. Soc. Edinburgh*, 11, 708-17.
- BRADY, H. B., 1884—Report on the Foraminifera dredged by H.M.S. 'Challenger' during the years 1873-1876. *Challenger Reports. Zool.*, Lond. 9, 1-814.
- BRADY, H. B., 1888—Note on the so-called 'Soapstone' of Fiji, *Quart. J. geol. Soc. Lond.*, 44, 1-10.
- BROTZEN, F., 1936—Foraminiferen aus dem Schwedischen untersten Senon von Eridsdal in Schonen, *Sver. geol. Unders.*, Ser. c (396), 5-206.
- BROTZEN, F., 1945—De geologiska resultaten från borrhningarna vid Höllviken; Preliminär rapport—Del. I: Kritan. *Sver. geol. Unders.*, ser. c, 465, 38(7), 45.
- CARSEY, D. O., 1926—Foraminifera of the Cretaceous of Central Texas. *Univ. Texas Bull.* 2612, 1-56.
- CAUDRI, C. M. B., 1934—Tertiary deposits of Soemba. *Amsterdam, H. J. Paris*.
- CHAPMAN, F., 1892—On Microzoa from the phosphatic chalk of Taplow. *Quart. J. geol. Soc. Lond.*, 48, 514-8.
- CHAPMAN, F., 1893—Foraminifera from the Gault of Folkestone: Part 4. *J. Roy. micro. Soc.*, 565-75.
- CHAPMAN, F., 1894a—The Foraminifera of the Gault of Folkestone: Part V. *J. Roy. micro. Soc.*, 153-63.
- CHAPMAN, F., 1894b—The foraminifera of the Gault of Folkestone: Part 6. *J. Roy. micro. Soc.*, 421-7.
- CHAPMAN, F., 1894c—The Foraminifera of the Gault of Folkestone: Part 7. *J. Roy. micro. Soc.*, 645-54.
- CHAPMAN, F., 1896—The Foraminifera of the Gault of Folkestone: Part IX. *J. Roy. micro. microscop. Club*, 2 (10), 117-46.
- CHAPMAN, F., 1907—Recent Foraminifera from Victoria; some littoral gatherings. *J. Quekett Microscop. Club*, 2 (10), 117-146.
- CHAPMAN, F., 1909—Report on the Foraminifera from the sub-Antarctic islands of New Zealand. In THE SUB-ANTARCTIC ISLANDS OF NEW ZEALAND, Article 15, 312-71. *Wellington*.
- CHAPMAN, F., 1917—Monograph of the Foraminifera and Ostracoda of the Gingen Chalk. *Geol. Surv. W. Aust. Bull.* 72, 9-59.
- CHAPMAN, F., and HOWCHIN, W., 1905—A monograph of the Foraminifera of the Permo-Carboniferous limestone of New South Wales. *Geol. Surv. NSW, palaeont. Mem.* 14, 1-22.
- CHAPMAN, F., and PARR, W. J., 1937—Foraminifera. *Australian Antarctic Exped.* 1911-1914, *Sci. Repts*, ser. C, 1 (2), 1-190.
- CHAPMAN, F., PARR, W. J., and COLLINS, A. C., 1935—Tertiary Foraminifera of Victoria, Australia—The Balcombian deposits of Port Phillip. Part III. *J. Linn. Soc. Lond.—Zool.* 38 (262) 553-7.
- CHASTER, G. W., 1892—Report upon the Foraminifera of the Southport Society of Natural Science District. *1st Rep. Southport Soc. Nat. Sci.* 1890-1 (Southport, 1892), 54-72.
- CORNUEL, J., 1848—Description de nouveaux fossiles microscopiques du terrain crétacé inférieur du département de la Haute-Marne. *Mém. Soc. géol. France*, 2 (3), 341-63.

- CRESPIN, I., 1944—Some Lower Cretaceous Foraminifera from bores in the Great Artesian Basin, northern New South Wales. *J. Roy. Soc. NSW*, 79, 17-24.
- CRESPIN, I., 1945—Some Permian Foraminifera from eastern Australia. *Proc. Roy. Soc. Qld*, 56(3), 23-30.
- CRESPIN, I., 1953—Lower Cretaceous Foraminifera from the Great Artesian Basin, Australia. *Contr. Cushman Fdn foram. Res.*, 4(1), 26-36.
- CRESPIN, I., 1958—Permian Foraminifera of Australia. *Bur. Miner. Resour. Aust. Bull.* 48.
- CRESPIN, I., 1960—Some Recent Foraminifera from Vestfold Hills, Antarctica. *Sci. Rep. Tohoku Univ. Sendai, Japan, 2nd ser. (geol.) Spec. Vol. 4 (Haozawa Mem. vol.)*, 9-31.
- CRESPIN, I., 1961—Upper Devonian Foraminifera from Western Australia. *Palaeontology*, 3 (4), 397-409.
- CRESPIN, I., 1962—*Lacazinella*, a new genus of trematophore foraminifera. *Micropaleontology*, 8(3), 337-42.
- CRESPIN, I., 1963a—Micropalaeontology of the Maretimo Member, Whaler's Bluff Formation, Portland, Victoria. Appendix 2 in Boutakoff, *Geol. Surv. Vic. Mem.* 22, 148-52.
- CRESPIN, I., 1936b—Lower Cretaceous arenaceous Foraminifera of Australia. *Bur. Miner. Resour. Aust. Bull.* 66.
- CRESPIN, I., and BELFORD, D. J., 1957—New genera and species of Foraminifera from the Lower Permian of Western Australia. *Contr. Cushman. Fdn* 8 (2), 73-6.
- CUSHMAN, J. A., 1921—Foraminifera from the Philippine and adjacent seas, *Bull. U.S. nat. Mus.*, 100 (4), 1-488.
- CUSHMAN, J. A., 1922—A shallow-water Foraminifera from the Tortugas region. *Publ. Carnegie Instn Washington*, 311.
- CUSHMAN, J. A., 1924—The Foraminifera of the Atlantic Ocean. Part 4. Lagenidae. *Bull. U.S. nat. Mus.*, 104, 1-228.
- CUSHMAN, J. A., 1924—Samoan Foraminifera. *Publ. Carneg. Instn*, 342 (*Dep. Marine Biol. Pap.* 21), 1-75.
- CUSHMAN, J. A., 1925—Some new Foraminifera from the Velasco Shale of Mexico. *Contr. Cushman Lab.*, 1(1), 18-22.
- CUSHMAN, J. A., 1926a—*Eouvigerina*, a new genus from the Upper Cretaceous. *Contr. Cushman Lab.*, 2 (1), 3-6.
- CUSHMAN, J. A., 1926b—Some Pliocene Bolivinas from California. *Contr. Cushman Lab.*, 2 (2), 29-51.
- CUSHMAN, J. A., 1927a—American Upper Cretaceous species of *Bolivina* and related genera. *Contr. Cushman Lab.*, 2(4), 85-91.
- CUSHMAN, J. A., 1927b—Recent Foraminifera from off the west coast of America. *Bull. Scripps Instn, tech. Ser.*, 1 (10), 119-88.
- CUSHMAN, J. A., 1927c—Some Foraminifera from the Cretaceous of Canada. *Trans. Roy. Soc. Canada*, 3 (21), 4, 127-32.
- CUSHMAN, J. A., 1928—Additional genera of the Foraminifera. *Contr. Cushman Lab.* 4 (1), 1-5.
- CUSHMAN, J. A., 1930—The Foraminifera of the Choctawhatchee Formation of Florida. *Bull. Florida geol. Surv.*, 4, 1-89
- CUSHMAN, J. A., 1931—A preliminary report on the Foraminifera of Tennessee. *Tenn. Geol. Div. Bull.* 41, 1-62.
- CUSHMAN, J. A., 1932—*Textularia* and related forms from the Cretaceous. *Contr. Cushman Lab.*, 8 (4), 86-97.
- CUSHMAN, J. A., 1933—Some new Recent Foraminifera from the tropical Pacific. *Contr. Cushman Lab.*, 9(4), 77-95.
- CUSHMAN, J. A., 1936a—New genera and species of the families Verneulinidae and Valvulinidae and of the subfamily Virgulininae. *Spec. Publ. Cushman Lab.*, 6, 1-71.
- CUSHMAN, J. A., 1936b—Some American Cretaceous species of *Ellipsonodosaria* and *Chrysalogonium*. *Contr. Cushman Lab.*, 12 (3), 51-5.

- CUSHMAN, J. A., 1936c—Cretaceous Foraminifera of the Family Chilostomellidae. *Contr. Cushman Lab.*, 12, 71-8.
- CUSHMAN, J. A., 1937a—A few new species of American Lower Cretaceous Foraminifera. *Contr. Cushman Lab.*, 13 (4), 100-105.
- CUSHMAN, J. A., 1937b—A monograph of the foraminiferal family Valvulinidae. *Spec. Publ. Cushman Lab.*, 8, 1-20.
- CUSHMAN, J. A., 1938—Additional new species of American Cretaceous Foraminifera. *Contr. Cushman Lab.*, 14, 31-50.
- CUSHMAN, J. A., 1945—The species of the subfamily Reussellinae of the foraminiferal family Buliminidae. *Contr. Cushman Lab.*, 21, 41.
- CUSHMAN, J. A., and ALEXANDER, C. I., 1930—Some Vaginulines and other foraminifera from the Lower Cretaceous of Texas. *Contr. Cushman Lab.*, 6 (1), 1-10.
- CUSHMAN, J. A., and APPLIN, E. R., 1947—Some new Foraminifera from the American Cretaceous. *Contr. Cushman Lab.*, 10 (2), 37-44.
- CUSHMAN, J. A., and ELLISOR, A., 1939—New species of Foraminifera from the Oligocene and Miocene. *Contr. Cushman Lab.*, 15 (1), 1-14.
- CUSHMAN, J. A., and HARRIS, R. W., 1927—Some notes on the genus *Ceratobulimina*. *Contr. Cushman Lab.*, 3 (4), 171-9.
- CUSHMAN, J. A., and JARVIS, P. W., 1928—Cretaceous Foraminifera from Trinidad. *Contr. Cushman Lab.*, 4 (4), 85-105.
- CUSHMAN, J. A., and JARVIS, P. W., 1936—Three new Foraminifera from the Miocene Bowden Marl, Jamaica. *Contr. Cushman Lab.*, 12 (1), 3-5.
- CUSHMAN, J. A., and OZAWA, Y., 1930—A monograph of the foraminiferal family Polymorphinidae, Recent and fossil. *Proc. U.S. nat. Mus.* 77 (6), 1-185.
- CUSHMAN, J. A., and PARKER, F. L., 1936—Some American Cretaceous Buliminas. *Contr. Cushman Lab.*, 11 (4), 96-101.
- CUSHMAN, J. A., and PARKER, F. L., 1947—*Bulimina* and related foraminiferal genera. *Prof. Pap. U.S. geol. Surv.* 210-D, 55-176.
- CUSHMAN, J. A., and RENZ, H. H., 1942—Eocene, Midway, Foraminifera from Soldada Rock, Trinidad. *Contr. Cushman Lab.*, 18 (1), 1-14.
- CUSHMAN, J. A., and STAINFORTH, R. M., 1945—The Foraminifera of the Cipero Marl Formation of Trinidad, B.W.I. *Contr. Cushman Lab.*, spec. Publ. 14, 3-75.
- CUSHMAN, J. A., and STEWART, R. E., 1930—Tertiary Foraminifera from Humboldt County, California. *Trans. San Diego Soc. nat. Hist.*, 6 (2), 41-94.
- CUSHMAN, J. A., and TODD, R., 1943—The genus *Pullenia* and its species. *Contr. Cushman Lab.*, 19, 4.
- CUSHMAN, J. A., and WATERS, J. A., 1928—Some Foraminifera from the Pennsylvanian and Permian of Texas. *Contr. Cushman Lab.*, 4 (2), 31-55.
- CZJZEK, J., 1848—Beitrag zur Kenntniss der fossilen Foraminiferen des Wiener Beckens. *Naturw. Abh.*, 2 (1).
- DEFRANCE, J. L. M., 1824—Dictionnaire des Sciences naturelles. *Strassburg*.
- EGGER, J. G., 1857—Die Foraminiferen der Miocän-schichten bei Ortenburg im Nieder-Bayern. *Neues Jb. für Min.*, 255-311.
- EGGER, J. G., 1893—Foraminiferen aus Meersgrundproben, gelothet von 1874 bis 1876 von D. M. Sch. 'Gazelle'. *Abh. K. bayer. Akad. Wiss.*, 18 (1895), (2), 195-458.
- EHRENBERG, C. G., 1840—Ueber die Bildung der Kriedefelsen und des Kreidemergels durch unsichtbare Organismen. *Abh. K. Akad. Wiss.* (for 1838), 39-147.
- EHRENBERG, C. G., 1854—Mikrogeologie. Das Wirken des unsichtbaren kleinen Lebens auf der Erde. 2 vols. *Leipzig*.
- EICHER, D. L., 1960—Stratigraphy and micropaleontology of the Thermopolis Shale. *Bull. Peabody Mus. nat. Hist.* 15.
- ELEY, H., 1859—Geology in the Garden, or the Fossils in Flint Pebbles. *London*.
- FICHTEL, L. VON, and MOLL, J. P. C. VON, 1798 (1803 reprint)—Testacea microscopica aliquae minuta ex generibus *Argonauta* et *Nautilus* ad naturum delineata et descripta. *Vienna*, 124 pp.

- FINLAY, H. J., 1939—New Zealand Foraminifera; key species in stratigraphy. No. 3. *Trans. Roy. Soc. N.Z.*, 69 (3), 309-29.
- FINLAY, H. J., 1940—New Zealand Foraminifera; key species in stratigraphy. No. 4. *Trans. Roy. Soc. N.Z.*, 69, 448-72.
- FOMINA, E. V., 1960—Some new species of foraminifera from the Visean deposits of the Sub-Moscow Basin. *Mat. geol. polezn. iskop. centralnii Rayon Europeiskoi Yast SSSR*, 114-9.
- FRANKE, A., 1928—Die Foraminiferen der Oberen Kreide Nord-und Mitteldeutschlands. *Abh. preuss. geol. Landesanst.*, n.s., 111, 1-207.
- FRIZZELL, D. J., 1943—Upper Cretaceous Foraminifera from Northwestern Peru. *J. Paleont.*, 17, 331-53.
- GALLOWAY, J. J., and HEMINGWAY, C. E., 1941—The Tertiary Foraminifera of Porto Rico. *N. Y. Acad. Sci., Sci. Surv. Porto Rico and Virgin Islands*, 3 (4), 275-491.
- GALLOWAY, J. J., and WISSLER, S. G., 1927—Pleistocene Foraminifera from the Lomita Quarry, Palos Verdes Hills, California. *J. Paleont.*, 1 (1), 35-87.
- GERMERAAD, J. H., 1946—Geology of the Central Seran, in RUTTEN, L., and HOLTZ, W., Geological, petrological and palaeontological results of exploration carried out from September 1917 till June 1919, in the Island Ceram. Ser. 3 (Geol.) 2, 7-135. *Amsterdam, Bussy*.
- GLAESSNER, M. F., 1937—Studien über Foraminiferen aus der Kreide und dem Tertiär des Kaukasus, 1. Foraminiferen der ältesten Tertiärschichten der Nordwest-Kaukasus. *Prob. Palaeont. Moscow Univ.*, 2-3, 349-408.
- GMELIN, J. F., 1791—In LINNAEUS, C., *SYSTEMA NATURAE*, 13th ed. *Leipzig*.
- GRZYBOWSKI, J., 1896—Ot wornice czerwonych itow z Wadowic. *Akad. Umiej Krakowie, przyn., Rozpr.* 30 (ser. 3, Vol. 10), 261-308.
- GUMBEL, C. W., 1868 (1870)—Beiträge zur Foraminiferenfauna der nordalpinen Eocen-Geol. *Pref.*, 528-75.
- HAGENOW, F., 1842—Monographie der Rugen'schen Kriede-Versteinerung. *Neues Jb. Min. Geogn. Geol. Petref.*, 528-75.
- HEDBERG, H., 1937—Foraminifera of the Middle Tertiary Carapita Formation of North-eastern Venezuela, *J. Palaeont.*, 11 (8), 661-97.
- HERON-ALLEN, E., and EARLAND, A., 1914—The Foraminifera of the Kerimba Archipelago (Portuguese East Africa)—Part I. *Trans. zool. Soc. Lond.* 20 (12), 263-794.
- HERON-ALLEN, E., and EARLAND, A., 1922—Protozoa: Part II—Foraminifera. Brit. Antarctic ('Terra Nova') Exped. 1910. *Nat. Hist. Rep. Brit. Mus. (nat. Hist.) Zool.*, 6 (2), 25-268.
- HERON-ALLEN, E., and EARLAND, A., 1932—Foraminifera. Part 1. The ice-free area of the Falkland Islands and adjacent seas. *Discovery Rep.*, 4, 291-460.
- HILTERMANN, H., 1953—Stratigraphische Fragen des Campan und Maastricht unter besonderer Berücksichtigung der Micropaläontologie. *Geol. Jb.*, 67, 47-66.
- HOFKER, J., 1951—The Foraminifera of the 'Siboga' Expedition, Part 3. Monogr. 4a, I-XII, 1-513. *Leiden*.
- HOGLUND, H., 1947—Foraminifera in the Gullmar Fjord and the Skagerak. *Zool. Bidrag. Uppsala*, 26, 1-328.
- HORNIBROOK, N. DE B., 1958—New Zealand Foraminifera: key species in stratigraphy. No. 6, *N.Z. geol. geogr. J.*, 1 (4), 653-76.
- HOWCHIN, W., 1895—Carboniferous Foraminifera of Western Australia with descriptions of new species. *Trans. Roy. Soc. S. Aust.*, 19, 194-198.
- HOWCHIN, W., 1895—Two new species of Cretaceous Foraminifera. *Trans. Roy. Soc. S. Aust.*, 19, 198-200.
- HOWCHIN, W., and PARR, W. J., 1938—Notes on the geological features and foraminiferal fauna of the metropolitan Abattoirs Bore, Adelaide. *Trans. Roy. Soc. S. Aust.*, 62 (2), 287-317.
- JEDLITSCHKA, H., 1934—Über *Candorbulina*, eine neue Foraminiferen-Gattung, und zwei neue *Candeina*-Arten. *Naturf. Ver. Brunn Verh.*, 65, 17-26.
- JENKINS, D. G. 1960—Planktonic Foraminifera from the Lakes Entrance Oil Shaft, Victoria, Australia. *Micropaleontology*, 6 (4), 345-71.

- JENNINGS, P. H., 1936—A microfauna from the Monmouth and basal Rancocas Groups of New Jersey. *Bull. Amer. Paleont.*, 23 (78), 3-76.
- JONES, T. R., and CHAPMAN, F., 1896—On the fistulose Polymorphinae, and the genus *Ramulina*, *J. Linn. Soc. Lond. Zool.* 25, 486-516.
- JONES, T. R., and PARKER, W. K., 1860—On the rhizopodal fauna of the Mediterranean compared with that of the Italian and other Tertiary deposits. *Quart. J. geol. Soc. Lond.*, 14, 292-307.
- KARRER, F., 1868—Die Miocene Foraminiferen Fauna von Kostež im Banat. *Sitz. Akad., Wiss. Wien, Math-naturw. Kl.*, 58 (1), 3-193.
- KARRER, F., 1878—Die Foraminiferen der Tertiären Thone von Luzon, in DRASCHE, R. VON, Fragmente zu einer Geologie der Insel Luzon (Philippinen), 75-99. *Vienna*.
- LAMARCK, J. B., 1804—Suite des Mémoires sur les Fossiles des Environs de Paris. *Ann. Mus.*, 5, 179-80, 237-45, 349-57.
- LAPPARENT, J. DE, 1918—Etude lithologique des terrains crétacés de la région d'Hendraye. *Mer Cart. géol. France*, 40.
- LEROY, L. W., 1939—Some small Foraminifera, Ostracoda and otoliths from the Neogene ('Miocene') of the Rokan-Topaneoli area, central Sumatra. *Naturk. Tijdschr. Nederl. Indie*, 99 (6), 215-96.
- LEROY, L. W., 1941—Some small Foraminifera from the type locality of the Bantamien Substage, Bodjong Beds, Bantam Residency, West Java, Netherlands East Indies. *Quart. J. Colo. School Mines*, 36 (1), pt 1, 1-62.
- LEROY, L. W., 1944—Small Foraminifera from the Miocene of West Java, Netherlands East Indies. *Quart. J. Colo. School Mines*, 39 (3), 71-113.
- LEROY, L. W., 1964—Smaller Foraminifera from the Late Tertiary of Southern Okinawa. *Prof. Pap. U.S. geol. Surv.* 454-F, 1-58.
- LINNAEUS, C., 1758—SYSTEMA NATURAE, sive regnatris naturae systematice proposita per classes, ordines, genera et species. 10th Ed., 2 vols. *Stockholm*.
- LLOYD, A. R., 1968—Possible Miocene marine transgression in Northern Australia. *Bur. Miner. Resour. Aust. Bull.* 80, 85-104.
- LOEBLICH, A. R., and TAPPAN, M., 1946—New Washita Foraminifera. *J. Paleont.*, 20 (3), 238-58.
- LOEBLICH, A. R., and TAPPAN, H., 1949—Foraminifera from Walnut Formation (Lower Cretaceous of northern Texas and southern Oklahoma. *J. Paleont.*, 23 (3), 245-66.
- LOEBLICH, A. R., and TAPPAN, H., 1950—Foraminifera from the type Kiowa Shale, Lower Cretaceous of Kansas. *Univ. Kansas Paleont. Contr.—Protozoa*, Art. 3, 1-15.
- LOEBLICH, A. R., and TAPPAN, H., 1953—Studies of Arctic Foraminifera. *Smithsonian Mus. Colln*, 121 (7), 1-142.
- LOEBLICH, A. R., JR, and TAPPAN, H., 1957—Planktonic Foraminifera of Paleocene and early Eocene age from the Gulf and Atlantic Coastal Plains. *Bull. U.S. nat. Mus.*, 215, 173-98.
- LOETTERLE, G. J., 1937—The micropaleontology of the Niobrara Formation in Kansas, Nebraska, and South Dakota. *Bull. geol. Surv. Nebraska*, 2nd ser., 12, 1-73.
- LOMNICKI, J. L. M., 1901—Einige Bemerkungen zum Aufsatz die Miocänen Foraminifera der Umbelung von Kolomea., *Abh. Naturf. Ver. Brunn Vern.* 39.
- LOZO, F. E., 1944—Biostratigraphic relations of some north Texas Trinity and Fredericksburg (Comanchean) Foraminifera. *Amer. Mid. Nat.*, 31 (3), 513-82.
- MARCK, W. VON DER, 1858—Die organischen Reste des Diluvial-lieses von Hamm. *Verh. Nat. Ver. preuss. Rheinlands*, 15, 48-76.
- MARIE, P., 1941—Les foraminifères de la craie à *Belemnitella mucronata* du bassin de Paris. *Mem. Mus. nat. Hist. Nat.*, n.s. 12.
- MARSSON, T., 1878—Die Foraminiferen der weissen Schreibkreide der Inseln Rügen. *Mitth. nat. Ver. Neu-Vorpom. und Rugen, Jahrg.*, 10, 115-96.
- MELLON, G. B., and WALL, J. H., 1956—Geology of the McMurray Formation. Part I. Foraminifera of the Upper McMurray and Basal Clearwater Formation. *Res. Council Alberta, Rep.* 72, 2-24.

- MILLET, F. W., 1900—Report on the Recent Foraminifera of the Malay Archipelago, collected by Mr A. Durrand; part VIII. *J. Roy. Micro. Soc. Lond.*, 273-82.
- MONTAGU, G. 1803—TESTACEA BRITANNICA; or Natural History of British Shells, Marine, Land and Freshwater, etc. *London*.
- MONTFORT, P. D. DE, 1808—CONCHYLIOLOGIE SYSTEMATIQUE ET CLASSIFICATION METHODIQUE DE COQUILLES. Vol. 1. *Paris*.
- MOROZOVA, V. G., 1961—Planktonic Foraminifera Danian-Montian of the Southern U.S.S.R. *Palaeont. Zh. Akad. Nauk SSSR*, 1/2, 8-19 (in Russian).
- MORROW, A. L., 1934—Foraminifera and Ostracoda from the Upper Cretaceous of Kansas. *J. Paleont.*, 8, 186-205.
- NILSSON, S., 1827—Petrificata suecana formationis cretaceae, descripta et iconibus illustrata, Pt. 1. *Lund, Londini Gotherum*, 39 pp.
- NORMAN, A. M., 1881—In Brady, H. B., 1884—Type reference (*Cassidulinoides bradyi*), p. 59; Type figure.
- NUTTAL, W. L. F., 1930—Eocene Foraminifera from Mexico. *J. Paleont.*, 4 (3), 271-93.
- D'ORBIGNY, A., 1826—Tableau méthodique de la classe des Céphalopodes. *Ann. Sci. nat. Paris*, ser. 1, 7, 96-314.
- D'ORBIGNY, A., 1839a—Foraminifères, in SAGRA, R. DE LA, HISTOIRE PHYSIQUE, POLITIQUE ET NATURELLE DE L'ILE DE CUBA. *Paris, A. Bertrand*, 224 pp.
- D'ORBIGNY, A., 1839b—Histoire naturelle des Iles Canaries. *Paris*. 11 (2), 119-46.
- D'ORBIGNY, A., 1839c—Foraminifères. Voyage dans l'Amérique méridionale. 5 (5). *Strasbourg, P. Bertrand*, 86 pp.
- D'ORBIGNY, A., 1840—Mémoire sur les Foraminifères de la Craie blanche de Bassin de Paris. *Mém. Soc. géol. France*, 4, 1-51.
- D'ORBIGNY, A., 1846—Foraminifères fossiles du Bassin tertiaire de Vienne (Autriche). *Paris: Gide et Comp.* 312 pp.
- PAALZOW, R., 1935—Die Foraminiferen im Zechstein des östlichen Thüringen. *Jb. preuss. geol. Landesanst.*, 56, 26-45.
- PALMER, K., 1945—Notes on the Foraminifera from Bowden, Jamaica. *Bull. Amer. Paleont.*, 29 (115).
- PARKER, W. K., and JONES, T. R., 1857—Descriptions of some Foraminifera from the coast of Norway. *Amer. Mag. nat. Hist.*, 2 (19), 273-303.
- PARKER, W. K., and JONES, T. R., 1862—In CARPENTER, W. B., INTRODUCTION TO THE STUDY of the foraminifera. *Lond. Roy. Soc.*, 319 pp.
- PARKER, W. K., and JONES, T. R., 1865—On some Foraminifera from the North Atlantic and Arctic Oceans, including Davis Strait and Baffin's Bay. *Phil. Trans.*, 155, 325-441.
- PARR, W. J., 1932—Victorian shallow water Foraminifera. *Proc. Roy. Soc. Vic.*, n.s., 44 (1), 1-14.
- PARR, W. J., 1938—Upper Eocene Foraminifera from deep borings in King's Park, Perth, Western Australia. *J. Roy. Soc. W. Aust.*, 24, 69-101.
- PARR, W. J., 1942—Foraminifera and a tubiculous worm from the Permian of North-West Division of Western Australia. *J. Roy. Soc. W. Aust.*, 27, 97-115.
- PARR, W. J., 1950—Foraminifera. *B.A.N.Z. Antarctic Res. Exped. 1929-1931 Rep.*, ser., B, 5 (6), 233-392.
- PERNER, J., 1892—Über die Foraminiferen des böhmischen Cenomans. *Ceska Akad. Cisare Franfiska Josefa, Pal. Bohemiae*, 2, 1, 49-65.
- PERNER, J., 1897—Foraminifery vravev belohoskych. *Ceska Akad. Cisare Franfiska Josefa, Pal. Bohemiae*, 2, 4, 1-57.
- PHILIPPI, R. A., 1843—Beiträge zur Kenntniss der Tertiärversteinerungen des nordwestlichen Deutschlands. *Cassel*. 85 pp.
- PHLEGER, F. B., and PARKER, F. L., 1951—Ecology of Foraminifera, North-West Gulf of Mexico. Part 2. Foraminifera distribution. *Mem. geol. Soc. Amer.*, 46, 1-64.
- PLUMMER, H. J., 1926—Foraminifera of the Midway Formation in Texas. *Bull. Univ. Texas. Bur. econ. Geol.* 2644, 1-206.

- PLUMMER, H. J., 1945—Foraminifera in the Marble Falls, Smithwick, and lower Strawn Strata around the Llano Uplift in Texas. *Bull. Univ. Texas Bur. econ. Geol.*, 4401, 209-91.
- QUEREAU, E. C., 1893—Die Klippenregion von Iberg (Sihlthal). *Beitr. feol. Karte Schweiz*, 33, 3-153.
- REUSS, A. E., 1844—Geognostische Skizzen aus Böhmen. Band II, Part i. Die Kreidegebilde westlichen Böhmens. *Prague*. 304 pp.
- REUSS, A. E., 1845-6.—Die Versteinerungen der böhmischen Kreideformation. *Stuttgart*.
- REUSS, A. E., 1850—Neue Foraminiferen aus der Schichten des Österreichischen Tertiärbeckens. *Denkschr. Akad. Wiss. Wien, math-naturw. Kl.* 1, 365-90.
- REUSS, A. E., 1851a—Die Foraminiferen und Entomostracen des Kreidemergels von Lemberg. *Haidinger's Naturw. Abh.*, 4, 17-52.
- REUSS, A. E., 1851b—Über die fossilen Foraminiferen und Entomostracen der Septarienthone der Emgegend von Berlin. *Zeit. deutsch. geol. Ges.*, 3, 49-92.
- REUSS, A. E., 1854—Beiträge zur Charakteristik der Kreideschichten in den Ostalpen, besonders im Gosauthale und am Wolfgangsee. *Denkschr. Akad. Wiss. Wien*, 7 (1), 1-156.
- REUSS, A. E., 1855—Ein Beitrag zur genauen Kenntnis der Kreidegebildes Mcklenburgs. *Zeit. deutsch. geol. Ges.*, 7, 261-92.
- REUSS, A. E., 1860—Die Foraminiferen der westphalischen Kreideformation. *Sitz. Akad. Wiss. Wien*, 40, 147-238.
- REUSS, A. E., 1862—Die Foraminiferen des norddeutschen Hils und Gault. *Sitz. Akad. Wiss. Wien*, 46 (1), 5-100.
- REUSS, A. E., 1864—Beiträge der Kenntnis der Tertiären Foraminiferen Fauna. *Sitz. Akad. Wiss. Wien*, 48, 36-69.
- REUSS, A. E., 1865—Die Foraminiferen und Ostrakoden der Kreide am Kanara-See, bei Kustendsche. *Sitz. Akad. Wiss. Wien*, 1, 445-70.
- ROEMER, F. A., 1838—Die Cephalopoden des norddeutschen tertiären Meeressandes. *Neues Jb. Geog. Geol. Petref. Kunde*, 381-94.
- ROEMER, F., 1841—Die Versteinerungen des norddeutschen Kreidegebirges. *Hannover*.
- SCHLUMBERGER, C., 1883—Note sur quelques Foraminifères nouveaux ou peu connus du golfe, de Gascogne; Campagne du Travailleur, 1880. *Feuille Jeunes Nat., Paris*, 154, 117-20.
- SCHLUMBERGER, C., 1891—Révision des Biloculines des Grands Fonds. *Mém. Soc. Zool. France*, 4, 155-91.
- SCHLUMBERGER, C., 1894—Note sur *Lacazina wichmanni*. *Bull. Soc. géol. France*, 3 (22), 295-8.
- SCHUBERT, R. J., 1904—Die Ergebnisse der mikroskopischen Untersuchung der bei der ararischen Tiefbohrung zu Wels durchteuften Schichten. *Geol. Reichsanst. Jahrb. Wien*, 53 (3), 420.
- SCHUBERT, R. J., 1910—Die fossilen Foraminiferen der Bismarckarchipels und einiger andere Inseln. *Abh. geol. Reichanst.*, 20 (4), 1-30.
- SCHWAGER, C., 1866—Fossile Foraminiferen von Kar Nikobar. *Novara Exped., Wien*, 1857-1859, *Geol. Theil.*, 2 (2), 187-286.
- SEGUENZA, G., 1862a—Prime ricerche intorno ai rizopodi fossili della argille Pleistoceniche dei dintorni di Catania. *Accad. Gioenia Sci. nat. Catania*, 2 (18), 84-126.
- SEGUENZA, G., 1862b—Descrizione dei Foraminiferi Monotalamici della Marne Mioceniche del Distretto di Messina. *Messina*. 84 pp.
- SILVESTRI, A., 1902—Contribuzione allo studio dei Foraminiferi adriatici—Lageninae del Mare Tireno. *Mem. Pont. Accad. linnei*, 19, 133-72.
- SOLLAS, W. J., 1877—On the perforate character of the genus *Webbina*, with a notice of two new species, *W. laevis* and *W. tuberculata*, from Cambridge, Greensand. *Geol. Mag.*, 5 (11), 214-22, 255-64, 289-96.
- TAPPAN, H., 1940—Foraminifera from the Grayson Formation of north Texas. *J. Paleont.* 14 (2), 93-126.
- TAPPAN H., 1957—New Cretaceous index Foraminifera from northern Alaska. *Bull. U.S. nat. Mus.*, 215, 201-32.

- THALMANN, H. E., 1934—Mitteilungen über Foraminiferen, I. *Ecl. geol. Helv.*, 27, (2), 428-40.
- TODD, R., 1954—Probable occurrence of Oligocene on Saipan, in TODD, R., CLOUD, P. E., LOW, D., and SCHMIDT, R. G., *Amer. J. Sci.*, 252, 675-82.
- TODD, R., and POST, R., 1954—Smaller Foraminifera from Bikini drill holes. *Prof. Pap. U.S., geol. Surv.*, 260 N, 546-68.
- TRAUTH, F., 1918—Das Eozänvorkommen bei Radstadt im Pnogau Beziehungen zu den gleichalterungen Ablagerungen bei Kirchberg am Wechsel und Wimpassing am Leithgebirge. *Denkschr. Akad. Wiss. Wien, math-naturw. Kl.*, 95, 171-278.
- TROELSEN, J., 1937—Om den stratigraphic Inddeling af Skrivekridtel i Dammark. *Medd. Dansk geol. Foren.* 9.
- VOGLER, J., 1941—Ober-Jura und Kreide von Misol (Niederlandisch-Ostindien), in BOEHM, G., and WANNER, J., Beiträge zur Geologie von Nederlandisch-Indien *Palaeontographica, Suppl.* Bd 4, Abt. 4, 243-93.
- WALKER, G., and BOYS, W., 1784—Testacea minuta rariora, nuperrime detecta in Arena Littoris Sandicensis a Gul. *London.*
- WALKER, G., and JACOB E., 1798—In KANMACHER, F., ADAM'S ESSAYS ON THE MICROSCOPE. 2nd ed. with considerable additions and improvements. *London.*
- WHITE, M. P., 1928—Some index Foraminifera of the Tampico Embayment area of Mexico. *J. Paleont.*, 2 (3), 117-215.
- WIESNER, H., 1931—Foraminiferen der Deutsche Sudpolar Expedition, 1900-1903. *Deutsche Sudpolar Exped.* 20 (Zool.), 53-165.
- WILLIAMSON, W. C., 1848—On the Recent British species of the genus *Lagena*. *Amer. Mag. nat. Hist.*, 2 (1), 1-20.
- WILLIAMSON, W. C., 1858—On the Recent Foraminifera of Great Britain. *Ray. Soc. Lond.*, 1-107.
- WRIGHT, J., 1886—Cretaceous Foraminifera of Keady Hill, Co. Derry. *Proc. Belf. Nat. F. Club*, 1885-1886. *Appendix*, 327-32.

RADIOLARIA

- HINDE, G. J., 1893—Note on a radiolarian rock from Fanny Bay, Darwin, Australia. *Quart. J. geol. Soc. Lond.*, 40, 221-6.
- LLOYD, A. R., 1967—Lower Cretaceous Radiolaria from the Northern Territory of Australia. *Bur. Miner. Resour. Aust. Bull.* 92, 115-32.

TINTINNINA

- BRUNNSCHWEILER, R. O., 1960—Marine Fossils from the Upper Jurassic and Lower Cretaceous of Dampier Peninsula, Western Australia. *Bur. Miner. Resour. Aust. Bull.* 59.
- COLOM, G., 1948—Fossil tintinnidis; loricated Infusoria of the order Oligotricha. *J. Paleont.* 22 (2).