Western Interior Basin Late Cretaceous Calcareous Nannofossil Data

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World Data Center for Paleoclimatology, Boulder
and
NOAA Paleoclimatology Program

NOTE: PLEASE CITE ORIGINAL REFERENCE WHEN USING THIS DATA!!!!!

NAME OF DATA SET:
Western Interior Basin Late Cretaceous Calcareous Nannofossil Data

LAST UPDATE: 4/2009 (Original receipt by WDC Paleo)
CONTRIBUTOR: David Watkins, University of Nebraska Lincoln
IGBP PAGES/WDCA CONTRIBUTION SERIES NUMBER: 2009-040

WDC PALEO CONTRIBUTION SERIES CITATION:
Blair, S.A. and D.K. Watkins. 2009.
Western Interior Basin Late Cretaceous Calcareous Nannofossil Data.
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Data Contribution Series # 2009-040.
NOAA/NCDC Paleoclimatology Program, Boulder CO, USA.

ORIGINAL REFERENCE:
Blair, S.A. and D.K. Watkins. 2009.
High-resolution calcareous nannofossil biostratigraphy for the
Coniacian/Santonian Stage boundary, Western Interior Basin.
Cretaceous Research, Vol. 30, Issue 2, pp. 367-384, April 2009.
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ABSTRACT:
The Ten Mile Creek area (Dallas, Texas) is a proposed Global Stratotype Section and Point (GSSP) candidate for the Coniacian/Santonian Stage boundary. The Santonian Working Group has designated the first appearance of Inoceramus (Cladoceramus) undulatoplicatus as the diagnostic macrofossil bioevent for the base of the Santonian Stage. Calcareous nannofossils were examined from sediments of the Bruceville Marl at the proposed GSSP site and from well-preserved sediments of the coeval Smoky Hill Member-type area (northwestern Kansas) of the Niobrara Formation. Nannofossil bioevents were correlated with the lowest stratigraphic occurrence of I. undulatoplicatus to create a high resolution biostratigraphic framework and stratigraphic proxy for the Coniacian/Santonian Stage transition.

Six bioevents are useful for recognition of the Coniacian/Santonian transition within the Bruceville Marl and Smoky Hill Member. The first appearance datums (FADs) of Prediscosphaera desiderograndis, n. sp. and Amphizygus megalops, n. sp. as well as the FADs of two rare taxa, Orastrum campanensis and Tortolithus dodekachelyon, n. sp., are in close stratigraphic proximity to the lowest occurrence of I. undulatoplicatus. In addition, two nannofloral acmes occur near the boundary: Watznaueria quadriradiata and Zeugrhabdotus scutula.

This study describes eight new species from the Smoky Hill Chalk type area; Amphizygus megalops, Bifidalithus phenax, Pharus evanescens, Gartnerago margaritatus, Helicolithus tectufissus, Tortolithus dodekachelyon, Prediscosphaera desiderograndis and Helicolithus varolii. Light microscope images are provided for rare and well-preserved specimens of Reinhardtites clavicaviformis Varol, 1991, Orastrum campanensis (Cepek) Wind & Wise, 1977, Rhombolithus rhombicum (Bukry) Black, 1973, and Gartnerago clarusora Varol, 1991. This study extends the ranges of several species from those documented in previous literature.

GEOGRAPHIC REGION: Western Interior Basin, central North America
PERIOD OF RECORD: Late Cretaceous, Coniacian/Santonian boundary, ~85.8 MMYrBP

FUNDING SOURCES:
Ed Picou Grant from GCSSEPM (Gulf Coast Section of SEPM);
AAPG (American Association of Petroleum Geologists);
Yatkola-Edwards Scholarship from the Nebraska Geological Society

DESCRIPTION:
High-resolution calcareous nannofossil assemblage count data from two sections in the Cretaceous Western Interior Basin, across the late cretaceous Coniacian/Santonian Stage boundary.

The study materials are from upper Coniacian to lower Santonian strata. They were collected from 65 samples in the proposed Coniacian/Santonian stage boundary stratotype at Ten Mile Creek (Dallas, TX), and 133 samples from the type area for the Smoky Hill Member in western Kansas (Locality 13).

Bruceville Marl (Austin Group), Ten Mile Creek, Dallas, Texas: 32°20'N, 96°48'W
Smoky Hill Member (Niobrara Formation), Gove County, Kansas: 38°57'N, 100°29'W

DATA:

1a. Ten Mile Creek calcareous nannofossil census data, part 1 of 5

Column 1: Section Height (m)
Column 2: Ahmuellerella octoradiata
Column 3: Amphizygus brooksii
Column 4: Amphizygus megalops
Column 5: Arkhangelskiella confusa
Column 6: Arkhangelskiella cymbiformis
Column 7: Axopodorhabdid sp.
Column 8: Biscutum blacki
Column 9: Biscutum constans
Column 10: Biscutum dissimilis
Column 11: Biscutum hattneri
Column 12: Biscutum notaculum
Column 13: Biscutum zulloi
Column 14: Braarudosphaera bigelowii
Column 15: Broinsonia matalosa
Column 16: Broinsonia signata
Column 17: Bukrylithus ambiguus
Column 18: Calculites obscurus
Column 19: Calculites ovalis
Column 20: Chiastozygus amphipons
Column 21: Chiastozygus litterarius
Column 22: Corrollithion ellipticum
Column 23: Corollithion exiguum
Column 24: Corollithion madagascarensis
Column 25: Corollithion signum
Column 26: Cretarhadus conicus
Column 27: Cribrosphaera circula
Column 28: Cribrosphaerella ehrenbergii
Column 29: Cribrosphaerella pelta
Column 30: Cyclogelosphaera margharelli
Column 31: Cyclogelosphaera rotaclypeata
Column 32: Cylindralithus nudus
Column 33: Discorhabdus ignotus
Column 34: Eiffellithus eximius

SectiAhmuellAmphizyAmphizyArkhangArkhangAxopodoBiscutuBiscutuBiscutuBiscutuBiscutuBiscutuBraarudBroinsoBroinsoBukryliCalculiCalculiChiastoChiastoCorrollCorolliCorolliCorolliCretarhCribrosCribrosCribrosCyclogeCyclogeCylindrDiscorhEiffell
1.25 0.7 0.0 0.0 0.4 0.0 0.0 0.2 10.9 0.0 0.0 0.0 1.7 0.0 0.0 0.2 0.0 1.7 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.0 0.0 0.2 1.7 0.7 0.2 0.0 2.8 4.4
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1.45 0.2 0.0 0.2 0.0 0.0 0.2 0.0 9.6 0.0 0.2 0.0 3.7 0.0 0.0 1.1 0.0 0.7 0.2 0.2 0.2 0.0 0.0 0.0 0.9 0.0 0.0 1.1 0.4 0.4 0.0 0.0 3.1 3.1
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7.25 0.4 0.0 0.0 0.0 0.0 0.0 0.2 10.5 0.0 0.0 0.0 1.8 0.0 0.0 0.7 0.0 0.2 0.0 0.2 0.0 0.2 0.2 1.3 0.0 0.0 0.7 0.0 0.0 0.0 0.0 3.5 3.3
7.35 0.9 0.0 0.0 0.2 0.0 0.0 0.9 10.3 0.0 0.0 0.0 1.3 0.4 0.0 0.9 0.0 0.4 0.7 0.2 0.0 0.2 0.0 0.0 1.5 0.0 0.0 0.0 0.7 0.0 0.2 0.0 3.9 1.8
7.45 1.1 0.0 0.0 0.2 0.0 0.0 0.0 9.0 0.0 0.0 0.0 2.6 0.0 0.2 0.0 0.0 0.2 0.4 0.4 0.0 0.0 0.0 0.0 1.3 0.0 0.0 0.7 0.4 0.2 0.0 0.0 4.2 3.3
7.55 0.9 0.0 0.0 0.2 0.0 0.0 0.0 7.7 0.0 0.0 0.0 1.5 0.0 0.0 0.2 0.0 0.4 0.4 0.2 0.0 0.2 0.0 0.0 0.9 0.0 0.0 0.9 0.2 0.4 0.0 0.0 6.6 2.9

1b. Ten Mile Creek calcareous nannofossil census data, part 2 of 5

Column 1: Section Height (m)
Column 2: Eiffellithus gorkae
Column 3: Eiffellithus turriseiffelii
Column 4: Gaarderella granulifera
Column 5: Gartnerago clarusora
Column 6: Gartnerago costatum
Column 7: Gartnerago margaritatus
Column 8: Gartnerago segmentatum
Column 12: Helicolithus compactus
Column 13: Helicolithus anceps
Column 14: Helicolithus stellafissus
Column 15: Helicolithus trabeculatus
Column 16: Helicolithus turonicus
Column 17: Bifidalithus phenax
Column 18: Kamptnerius magnificus
Column 19: Kamptnerius punctata
Column 23: Loxolithus armilla
Column 24: Lucianorhabdus cayeuxii
Column 25: Lucianorhabdus maleformis
Column 26: Manivitella pemmatoidea
Column 27: Marthasterites sp.
Column 28: Marthasterites crassus
Column 29: Marthasterites furcatus
Column 30: Microrhabdulus belgicus

Column 9: Glaukolithus bicrescenticus
Column 10: Glaukolithus biperforatus
Column 11: Grantnarhabdus coronadventis
Column 20: Lithastrinus grillii
Column 21: Lithastrinus septenarius
Column 22: Lithraphidites carniolensis
Column 31: Microrhabdulus decoratus
Column 32: Micula concava
Column 33: Micula cubiformis
Column 34: Micula decussata

Secti	Eiffel	Eiffel	Gaarder	Gartner	Gartner	Gartner	Gartner	Glaukol	Glaukol	Grantna	Helicol	Helicol	Helicol	Helicol	Helicol	Bifidal	Kamptne	Kamptne	Lithast	Lithast	Lithrap	Loxolit	Luciano	Luciano	Manivit	Marthas	Marthas	Marthas	Microrh	Microrh	Micula	Micula	Micula
1.25	0.4	2.0	0.2	0.0	0.2	0.4	0.7	1.1	0.0	0.0	0.0	1.1	0.4	2.4	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.4	0.2	0.0	0.2	0.0	0.2	0.7	0.7	0.0	0.7	0.7
1.35	0.4	2.2	0.0	0.0	0.0	0.0	1.5	0.2	0.0	0.0	0.0	0.4	0.2	3.3	0.0	0.0	0.2	0.0	0.2	0.0	0.7	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.2	0.9
1.45	0.4	2.2	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	1.3	0.2	0.2	1.3	0.0	0.2	0.0	0.0	0.0	0.0	1.5	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.2	0.0	0.0	0.2
1.55	0.7	0.7	0.0	0.0	0.0	0.0	1.8	0.7	0.0	0.2	0.0	1.3	0.2	4.2	0.0	0.0	0.4	0.0	0.0	0.0	1.5	0.0	2.6	0.4	0.0	0.0	0.0	0.0	0.0	0.7	0.9	0.0	0.0	0.7
1.65	1.1	1.1	0.0	0.0	0.0	0.2	0.7	1.1	0.2	0.0	0.2	0.2	0.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.2	0.2
1.75	0.7	2.0	0.0	0.0	0.0	0.0	0.4	1.3	0.0	0.0	0.0	0.7	0.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.7	0.0
1.85	0.7	2.0	0.0	0.0	0.0	0.2	0.9	2.9	0.0	0.0	0.2	0.9	1.5	0.9	0.0	0.0	0.2	0.0	0.2	0.0	1.1	0.7	1.3	0.4	0.0	0.0	0.0	0.0	0.2	1.5	0.2	0.0	0.0	0.7
1.95	0.4	3.1	0.0	0.2	0.0	0.0	1.3	1.1	0.0	0.0	0.0	0.0	0.4	3.3	0.0	0.4	0.0	0.0	0.2	0.4	0.7	0.0	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.2	2.4
2.05	0.2	2.2	0.0	0.0	0.0	0.0	0.9	1.5	0.0	0.0	0.2	0.7	0.9	2.8	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.0	3.5	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.5
2.15	0.2	2.4	0.2	0.2	0.0	0.2	0.9	0.9	0.0	0.0	0.2	1.1	0.9	3.5	0.0	0.0	0.0	0.0	0.2	0.0	1.3	0.2	1.3	0.2	0.0	0.0	0.0	0.0	0.0	2.2	0.2	0.0	0.2	0.2
2.25	1.3	2.9	0.2	0.0	0.0	0.0	0.7	1.1	0.0	0.0	0.4	0.9	1.1	1.5	0.0	0.7	0.0	0.0	0.0	0.0	2.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.2	0.2
2.35	0.2	4.0	0.0	0.2	0.0	0.0	0.4	1.3	0.0	0.0	0.7	0.7	1.1	4.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	2.2	0.0	0.4	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.4	0.7
2.45	0.2	2.2	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.4	0.2	0.2	2.8	0.0	0.2	0.0	0.0	0.2	0.0	0.9	0.4	1.3	0.0	0.2	0.0	0.0	0.0	0.2	0.9	0.0	0.0	0.9	1.1
2.55	0.4	3.3	0.0	0.0	0.0	0.2	1.5	0.4	0.2	0.0	0.2	0.2	0.9	4.4	0.0	0.2	0.0	0.0	0.0	0.0	0.9	0.2	1.3	0.2	0.2	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.2	1.1
2.65	0.2	2.0	0.0	0.2	0.0	0.2	0.4	0.2	0.0	0.0	0.4	0.2	1.1	1.8	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.2	2.2	0.2	0.0	0.0	0.0	0.0	0.7	1.1	0.0	0.0	0.4	0.4
2.75	0.2	3.0	0.0	0.0	0.0	0.0	0.4	0.2	0.2	0.0	0.2	0.0	0.2	2.6	0.0	0.2	0.4	0.0	0.0	0.2	2.4	0.2	2.1	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.4	1.1
2.85	0.0	1.5	0.0	0.0	0.0	0.0	1.1	0.2	0.0	0.2	0.0	0.9	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.4	0.4	0.2	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.2	0.0
2.95	0.4	2.0	0.2	0.2	0.0	0.0	0.4	0.7	0.0	0.0	0.0	0.0	1.3	4.2	0.0	0.0	0.0	0.0	0.2	0.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.2	0.4
3.05	0.4	1.7	0.0	0.0	0.0	0.0	1.1	0.7	0.2	0.0	0.0	0.4	0.2	5.7	0.0	0.2	0.2	0.0	0.4	0.4	0.9	0.4	1.7	0.0	0.7	0.0	0.0	0.0	0.0	0.9	0.4	0.0	0.7	0.9
3.15	0.7	1.8	0.0	0.0	0.0	0.2	0.7	0.4	0.0	0.0	0.0	0.7	0.7	5.0	0.0	0.2	0.0	0.0	0.0	0.2	1.1	0.7	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.2	1.1
3.25	0.9	1.5	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	1.1	2.2	3.3	0.0	0.4	0.0	0.0	0.0	0.0	0.7	0.9	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.7
3.35	0.2	2.4	0.0	0.0	0.0	0.0	1.5	0.2	0.0	0.0	0.2	0.7	0.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.4	2.0	0.4	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.3	0.9
3.45	0.4	2.0	0.0	0.2	0.0	0.0	0.7	0.4	0.0	0.0	0.2	0.9	0.0	6.5	0.0	0.2	0.0	0.0	0.0	0.0	0.9	0.4	1.5	0.0	0.4	0.0	0.0	0.2	1.1	0.4	0.0	0.2	0.7	
3.55	0.7	0.9	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.4	0.2	1.3	6.8	0.0	0.2	0.0	0.0	0.2	0.0	1.7	0.7	0.9	0.2	0.0	0.0	0.0	0.0	0.0	1.7	0.2	0.0	0.4	0.0
3.65	1.1	2.6	0.2	0.0	0.0	0.0	0.4	0.9	0.2	0.0	0.0	0.0	1.3	6.5	0.0	0.0	0.2	0.0	0.0	0.2	0.7	0.0	1.7	0.4	0.2	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.2	0.7
3.75	1.5	2.0	0.0	0.0	0.0	0.0	1.3	1.1	0.0	0.0	0.4	0.7	0.2	3.9	0.0	0.2	0.0	0.0	0.0	0.0	2.6	0.0	1.1	0.4	0.2	0.0	0.0	0.0	0.0	1.5	0.0	0.0	1.1	0.4
3.85	0.9	3.5	0.0	0.2	0.0	0.0	0.7	1.1	0.2	0.0	0.0	0.2	0.9	3.9	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.2	0.9
3.95	1.1	3.9	0.2	0.2	0.0	0.0	0.9	1.1	0.0	0.0	0.2	0.2	0.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.2	1.1	0.0	0.4	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.4	0.4
4.05	0.2	2.9	0.2	0.0	0.0	0.4	0.4	1.1	0.0	0.0	0.0	0.2	0.4	4.6	0.0	0.0	0.0	0.0	0.2	0.0	1.1	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.9	0.9
4.15	1.3	2.6	0.2	0.7	0.0	0.4	0.7	0.4	0.0	0.0	0.0	0.7	0.9	2.4	0.0	0.2	0.0	0.0	0.0	0.0	1.3	0.0	1.3	0.9	0.0	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.4	0.0
4.25	1.3	2.4	0.0	0.2	0.0	0.4	1.5	0.0	0.2	0.0	0.0	0.4	2.0	4.8	0.0	0.4	0.0	0.0	0.2	0.0	1.3	0.0	3.7	0.2	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.2	0.2
4.35	1.5	2.2	0.6	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.2	0.0	1.1	3.5	0.0	0.2	0.0	0.0	0.0	0.2	1.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	2.2	0.2	0.0	0.2	0.2
4.45	0.9	3.9	0.0	0.0	0.0	0.4	1.1	0.2	0.0	0.0	0.0	0.2	0.7	3.1	0.0	0.7	0.0	0.0	0.0	0.0	0.9	0.0	0.7	0.9	0.2	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.2	0.0
4.55	0.4	2.2	0.4	0.0	0.0	0.2	0.2	0.9	0.2	0.0	0.0	0.4	1.5	4.4	0.0	0.2	0.0	0.0	0.2	0.0	1.3	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.0	0.0
4.65	0.9	3.7	0.0	0.0	0.0	0.0	0.9	0.7	0.0	0.0	0.0	0.0	1.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.2	1.5	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.2
4.75	0.2	3.7	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.2	1.8	5.3	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
4.85	0.4	2.9	0.2	0.0	0.0	0.0	0.7	0.9	0.0	0.2	0.0	0.7	0.9	5.7	0.0	0.0	0.2	0.0	0.0	0.0	1.8	0.0	0.9	0.0	0.2	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.2
4.95	0.7	4.2	0.0	0.0	0.0	0.0	0.9	0.4	0.2	0.0	0.0	0.9	0.4	2.8	0.0	0.4	0.0	0.0	0.4	0.7	1.1	0.2	0.4	0.0	0.2	0.0	0.0	0.0	0.0	1.1	0.2	0.0	0.2	0.4
5.05	0.9	2.4	0.4	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0	0.4	0.4	3.1	0.0	0.2	0.0	0.0	0.0	0.0	0.9	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	2.9	0.2	0.0	0.0	0.4
5.15	0.4	2.0	0.0	0.0	0.0	0.2	0.7	0.4	0.0	0.0	0.0	0.2	2.0	2.0	0.0	0.7	0.0	0.0	0.0	0.2	0.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.2	2.6	0.2	0.0	0.2	0.0
5.25	1.3	2.2	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.4	0.7	2.0	0.0	0.2	0.0	0.0	0.2	0.0	1.8	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.2	2.2	0.0	0.0	0.4	0.0
5.35	0.4	3.7	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.3	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.2	0.0	0.0
5.45	1.1	4.8	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.2	0.4	0.4	0.4	3.3	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0
5.55	0.7	2.9	0.2	0.0	0.0	0.0	0.9	0.9	0.2	0.0	0.0	0.4	0.2	4.4	0.0	0.2	0.0	0.0	0.2	0.0	0.9	0.4	0.7	0.0	0.2	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.2	0.0
5.65	0.7	2.2	0.0	0.0	0.0	0.0	1.1	0.4	0.0	0.0	0.0	0.9	0.9	2.4	0.0	0.2	0.0	0.0	0.0	0.0	1.1	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.4
5.75	1.1	5.0	0.0	0.0	0.0	0.0	0.9	0.4	0.0	0.0	0.0	0.2	0.4	3.5	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	1.8	0.2	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.9	0.0
5.85	1.1	2.0	0.0	0.2	0.0	0.0	1.5	0.2	0.0	0.0	0.0	0.7	0.9	3.1	0.0	0.0	0.0	0.0	0.4	0.2	0.9	0.2	1.5	0.0	0.2	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.9	1.3
5.95	0.2	3.3	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.0	0.2	0.7	1.3	4.4	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.2	0.4
6.05	1.5	1.5	0.0	0.0	0.0	0.0	0.4	1.1	0.0	0.0	0.0	0.2	0.4	3.5	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.2	3.3	0.2	0.0	0.0	0.0	0.0	0.0	1.1	0.2	0.4	0.0	0.7
6.15	0.2	5.5	0.2	0.2	0.0	0.0	2.0	1.3	0.0	0.0	0.0	0.0	1.1	3.3	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.4	2.0
6.25	0.9	2.4	0.4	0.0	0.0	0.0	0.4	0.9	0.0	0.2	0.0	0.0	0.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.2	0.0	0.4
6.35	0.2	2.6	0.0	0.0	0.0	0.0	1.9	1.7	0.0	0.0	0.0	0.6	1.1	2.1	0.0	0.2	0.0	0.0	0.0	0.0	2.6	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.2	0.9	0.0
6.45	0.2	2.0	0.0	0.0	0.0	0.0	1.3	0.4	0.0	0.0	0.0	0.4	0.7	2.2	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.2	0.0	0.7
6.55	0.4	2.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.9	0.7	2.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.2	0.9
6.65	0.2	2.4	0.2	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.4	1.3	0.9	0.0	0.2	0.0	0.0	0.4	0.4	1.1	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.9	0.4	0.0	0.2	0.4
6.75	1.1	2.4	0.0	0.0	0.0	0.2	0.4	0.4	0.0	0.0	0.0	0.0	1.5	3.3	0.0	0.2	0.0	0.0	0.0	0.2	0.9	0.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.4	0.2
6.85	0.4	2.6	0.2	0.0	0.0	0.0	1.1	0.2	0.0	0.0	0.2	0.9	1.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.7	0.0	0.2	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.2	0.0
6.95	0.4	2.6	0.2	0.2	0.0	0.0	1.3	0.4	0.0	0.0	0.0	0.9	1.3	3.5	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	1.1	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	1.1
7.05	0.2	2.8	0.0	0.2	0.0	0.0	0.9	0.4	0.0	0.0	0.2	0.4	2.2	4.6	0.0	0.4	0.0	0.0	0.0	0.0	1.5	0.0	1.5	0.4	0.0	0.0	0.0	0.0	0.0	2.2	0.2	0.0	0.0	0.4
7.15	0.0	2.2	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.2	1.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.9	0.4	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
7.25	0.2	2.8	0.0	0.0	0.0	0.0	2.2	0.2	0.0	0.0	0.0	0.4	0.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.2	0.2
7.35	0.0	2.9	0.0	0.0	0.0	0.4	1.3	1.1	0.0	0.0	0.0	0.4	2.2	3.7	0.0	0.4	0.0	0.0	0.0	0.0	1.1	0.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.2	0.0
7.45	0.4	2.2	0.0	0.0	0.0	0.2	0.7	0.2	0.4	0.0	0.2	1.3	0.7	3.7	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.0	0.9	0.2	0.4	0.0	0.0	0.0	0.0	2.0	0.2	0.4	0.0	0.0
7.55	0.4	2.4	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.0	0.0	1.1	2.0	2.6	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.2	0.0

1c. Ten Mile Creek calcareous nannofossil census data, part 3 of 5

Column 1: Section Height (m)
Column 2: Micula sp.
Column 3: Micula swastica
Column 4: Munarinus sp.
Column 5: Nannoconid sp.
Column 6: Octocyclus reinhardtii
Column 7: Octolithus sp.
Column 8: Orastrum campanensis
Column 9: Pharus evanescens
Column 10: Placozygus sigmoides
Column 11: Prediscosphaera arkhangelskyi
Column 12: Prediscosphaera cretacea
Column 13: Prediscosphaera grandis
Column 14: Prediscosphaera intercisa
Column 15: Prediscosphaera ponticula
Column 16: Prediscosphaera spinosa
Column 17: Quadrum gartneri
Column 18: Radiolithus planus
Column 19: Radiolithus sp.
Column 20: Reinhardtites anthophorus
Column 21: Reinhardtites clavicaviformis
Column 22: Repagulum parvidentatum
Column 23: Retecapsa angustiforata
Column 24: Retecapsa crenulata
Column 25: Retecapsa ficula
Column 26: Retecapsa schizobrachiata
Column 27: Retecapsa surirella
Column 28: Retemediaformis teneraretis
Column 29: Rhagodiscus angustus
Column 30: Rhagodiscus plebius
Column 31: Rhagodiscus reniformis
Column 32: Rhagodiscus splendens
Column 33: Rotellapillus crenulatus
Column 34: Scapholithus fossilis

Secti	Micula	Micula	Munarin	Nannoco	Octocyc	Octolit	Orastru	Pharus	Placozy	Prediscs	Prediscs	Prediscs	Prediscs	Prediscs	Prediscs	Quadrum	Radioli	Radioli	Reinhar	Reinhar	Repagul	Retecap	Retecap	Retecap	Retecap	Retecap	Retemed	Rhagodi	Rhagodi	Rhagodi	Rhagodi	Rotella	Scapholi
1.25	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.2	3.9	0.9	1.1	0.0	4.8	0.2	0.0	0.0	0.2	0.0	0.9	0.0	1.3	0.0	0.0	0.4	0.2	0.2	0.9	0.2	0.0	0.2	0.4
1.35	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.4	0.9	7.7	0.7	1.5	0.9	4.6	0.2	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.0	0.2	0.0
1.45	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.3	0.0	1.5	0.0	4.8	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.2	0.4	0.2
1.55	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	7.0	0.4	0.2	0.0	3.9	0.7	0.0	0.0	1.3	0.0	0.9	0.0	1.1	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.7	0.4	0.4
1.65	0.2	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.7	7.0	0.2	2.2	1.1	6.1	0.2	0.0	0.2	0.4	0.0	0.7	0.2	0.7	0.0	0.0	0.2	1.1	0.4	0.7	0.0	0.0	0.4	0.7

1.75	0.2	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.4	1.3	5.3	0.4	3.1	0.2	5.3	0.0	0.0	0.0	0.2	0.0	2.0	0.0	1.5	0.0	0.0	0.4	0.0	1.8	0.7	0.0	0.2	0.0	0.0
1.85	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.4	0.4	3.3	0.4	1.3	0.2	4.4	0.2	0.0	0.0	0.2	0.0	1.5	0.4	0.7	0.0	0.0	0.4	0.4	0.9	0.2	0.0	0.0	0.9	0.0
1.95	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.2	0.9	6.6	0.2	1.3	0.2	3.9	0.9	0.0	0.0	0.7	0.0	2.6	0.2	0.7	0.0	0.0	0.2	0.2	0.7	0.2	0.2	0.7	0.2	0.0
2.05	0.2	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.9	4.8	0.0	0.7	0.0	3.5	0.4	0.0	0.0	0.4	0.0	0.7	0.2	1.3	0.0	0.0	0.4	0.2	0.0	0.7	0.2	0.4	1.3	0.0
2.15	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.2	0.2	1.3	0.2	2.2	0.2	0.0	0.0	0.4	0.0	2.0	0.2	0.7	0.0	0.0	0.4	0.2	0.2	0.0	0.0	0.4	0.4	0.4
2.25	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.9	0.9	4.2	0.4	2.4	0.7	2.0	0.2	0.0	0.0	0.4	0.0	3.1	0.2	1.3	0.0	0.0	0.7	0.2	0.9	0.7	0.0	0.0	0.0	0.7
2.35	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.1	0.2	1.3	0.2	3.7	0.2	0.0	0.0	0.7	0.0	0.2	0.2	1.3	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.2	0.2	0.4
2.45	0.2	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.7	0.4	6.6	0.4	0.9	0.2	2.8	0.0	0.0	0.0	1.3	0.0	0.0	0.2	2.2	0.0	0.0	0.2	0.9	0.9	0.2	0.0	0.4	0.0	0.0
2.55	0.0	0.0	0.9	0.0	0.0	0.2	0.0	0.0	0.9	0.0	6.8	0.4	0.9	0.4	2.0	0.2	0.0	0.2	1.1	0.0	0.2	0.0	1.5	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.0	0.2
2.65	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.1	8.1	0.7	2.0	0.0	2.4	0.2	0.0	0.2	1.3	0.0	0.0	0.0	1.1	0.0	0.0	0.4	0.0	0.7	0.4	0.0	0.2	0.4	0.2
2.75	0.2	0.0	1.9	0.0	0.0	0.0	0.0	0.0	1.1	0.6	8.2	1.1	0.6	0.2	3.4	0.2	0.0	0.0	1.3	0.2	0.2	0.2	1.5	0.0	0.0	0.2	0.0	0.6	0.4	0.0	0.0	0.0	0.0
2.85	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.3	0.7	7.9	0.7	1.1	0.2	4.6	0.0	0.2	0.2	0.7	0.2	0.0	0.4	0.2	0.0	0.0	0.4	0.0	0.2	0.9	0.0	0.4	0.4	0.2
2.95	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.7	3.9	0.2	2.8	0.2	4.2	0.4	0.0	0.2	0.4	0.0	0.2	0.2	0.9	0.0	0.4	0.7	0.0	0.4	0.2	0.0	0.2	0.7	0.0
3.05	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.2	0.0	0.2	6.1	0.2	3.9	0.7	2.8	0.2	0.0	0.0	0.4	0.2	0.7	0.7	0.7	0.0	0.0	0.2	0.0	0.4	0.4	0.0	0.2	1.1	0.4
3.15	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.7	0.4	6.1	0.2	2.2	0.2	3.9	0.2	0.0	0.0	0.7	0.2	0.4	0.4	0.7	0.0	0.0	0.4	0.2	1.3	0.2	0.0	0.2	0.4	0.0
3.25	0.0	0.0	0.9	0.0	0.0	0.0	0.2	0.0	0.9	0.4	2.4	0.0	2.2	0.2	2.0	0.0	0.0	0.2	0.0	0.0	2.2	0.0	1.1	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.4	0.7	0.0
3.35	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.4	5.9	0.2	2.2	0.0	5.3	0.4	0.0	0.0	0.2	0.0	1.1	0.4	1.5	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.0
3.45	0.2	0.0	2.0	0.0	0.0	0.0	0.2	0.0	0.9	0.2	6.1	0.4	1.1	0.0	3.5	0.7	0.0	0.0	0.4	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.4	0.9	0.2	0.0	0.2	0.0	0.0
3.55	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.7	0.2	5.4	0.2	1.3	0.2	6.5	0.0	0.0	0.4	0.0	0.0	0.9	0.0	1.3	0.0	0.0	0.2	0.2	0.9	0.4	0.0	0.2	0.2	0.0
3.65	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.9	0.2	6.5	0.4	0.4	0.2	7.0	0.2	0.2	0.0	0.4	0.0	0.4	0.4	0.9	0.0	0.2	0.2	0.0	0.4	0.4	0.0	0.0	0.4	0.0
3.75	0.2	0.0	1.1	0.7	0.0	0.0	0.0	0.0	0.7	0.2	6.3	0.2	2.4	0.4	4.1	0.4	0.4	0.0	0.2	0.0	0.9	0.2	0.7	0.0	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.4	0.2
3.85	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	7.2	0.7	1.8	0.0	3.1	0.2	0.2	0.0	0.2	0.0	0.9	0.4	1.1	0.0	0.0	0.7	0.7	0.9	0.0	0.0	0.7	0.4	0.4
3.95	0.0	0.0	2.6	0.2	0.0	0.0	0.0	0.0	1.1	0.4	5.9	0.2	1.3	0.4	5.0	0.0	0.0	0.0	0.4	0.0	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.7	0.9	0.2	0.2	0.4	0.2
4.05	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.7	0.2	5.9	0.4	2.0	0.2	3.3	0.0	0.0	0.0	0.2	0.0	0.0	0.2	2.4	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.7	0.4	0.2
4.15	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.5	0.4	0.7	0.0	5.5	0.4	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.0	0.0	0.7	0.7	0.0	0.2	0.0	0.0	0.0	0.2
4.25	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.4	0.2	7.0	0.0	1.3	0.2	5.5	0.0	0.2	0.4	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.2	0.0	0.0	0.2	0.7	0.0	0.0	0.0
4.35	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.4	0.2	5.2	0.6	2.6	0.0	4.5	0.0	0.4	0.2	0.2	0.2	0.0	0.0	0.9	0.0	0.0	0.4	0.2	0.6	0.6	0.2	0.4	0.0	0.6
4.45	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.7	0.2	4.8	0.0	2.6	0.0	7.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.4	0.0	0.7	0.4	0.2	0.7	0.2	0.0
4.55	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	3.9	0.2	2.0	0.0	5.7	0.2	0.0	0.4	0.2	0.0	0.2	0.0	0.4	0.0	0.2	0.4	0.0	0.2	0.2	0.2	0.0	0.2	0.2
4.65	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	1.3	0.2	6.6	0.2	3.1	0.4	5.9	0.0	0.0	0.0	1.1	0.2	0.2	0.0	1.3	0.0	0.0	0.4	0.0	0.9	0.7	0.4	0.2	0.2	0.0
4.75	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.2	0.4	7.9	0.9	2.9	0.0	7.9	0.2	0.0	0.2	1.1	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.7	1.1	0.7	0.2	0.4	0.0	0.2
4.85	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.4	7.0	0.7	2.6	0.2	4.2	0.0	0.0	0.2	0.7	0.0	0.4	0.2	0.4	0.0	0.0	0.0	0.2	0.4	0.7	0.0	0.0	0.7	0.0
4.95	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.7	6.3	0.0	3.1	0.4	3.3	0.0	0.0	0.9	0.0	0.0	0.0	1.1	1.5	0.0	0.0	0.0	0.0	2.0	0.4	0.2	0.0	0.0	0.0
5.05	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.9	0.2	4.6	0.0	1.1	0.4	5.3	0.2	0.0	0.0	0.2	0.2	0.0	0.0	0.9	0.0	0.0	0.2	0.7	0.7	0.4	0.0	0.0	0.7	0.4
5.15	0.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	2.2	0.0	0.9	0.0	5.3	0.0	0.0	0.0	0.7	0.2	0.7	0.0	1.5	0.0	0.0	0.2	0.4	1.1	0.4	0.2	0.0	0.4	0.2
5.25	0.0	0.0	2.2	0.2	0.0	0.0	0.2	0.0	0.4	0.2	5.3	0.0	2.2	0.0	4.9	0.0	0.2	0.2	0.4	0.0	0.4	0.7	0.7	0.0	0.0	0.0	0.4	0.2	0.7	0.7	0.0	0.2	0.0
5.35	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.1	1.5	5.0	0.9	2.6	0.2	5.5	0.0	0.0	0.4	0.0	0.0	0.2	0.4	0.7	0.0	0.0	0.2	0.0	0.4	0.2	0.0	0.4	0.2	0.4
5.45	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	1.1	5.9	0.4	4.2	0.4	6.1	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.2	0.0	0.0	0.7	0.2	0.2	0.4	0.2	0.4	0.9	0.2
5.55	0.0	0.0	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	5.3	0.7	2.4	0.4	8.1	0.2	0.0	0.0	0.2	0.0	0.7	0.0	0.2	0.0	0.0	0.4	0.2	0.4	0.2	0.4	0.2	0.9	0.0
5.65	0.0	0.0	2.4	0.2	0.0	0.0	0.0	0.0	0.2	0.4	6.4	0.9	2.4	0.0	7.2	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
5.75	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.7	0.4	5.7	0.4	1.5	0.7	6.8	0.4	0.0	0.0	0.2	0.0	0.4	0.2	0.7	0.0	0.0	0.0	0.2	0.7	0.4	0.2	0.0	0.2	0.0
5.85	0.0	0.0	1.1	0.4	0.0	0.0	0.0	0.0	0.7	0.4	3.9	0.2	3.5	0.2	9.4	0.2	0.0	0.0	0.0	0.0	0.2	0.2	1.1	0.0	0.0	0.2	0.4	0.2	0.4	0.0	0.2	0.2	0.2
5.95	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	6.3	0.2	3.7	0.0	5.7	0.4	0.0	0.0	0.0	0.0	0.7	0.2	0.7	0.0	0.0	0.7	0.4	0.4	0.0	0.0	0.4	0.2	0.0
6.05	0.0	0.0	2.2	0.2	0.0	0.0	0.0	0.0	0.4	0.2	4.8	0.4	1.5	0.4	5.5	0.2	0.0	0.2	0.0	0.2	1.1	0.2	0.2	0.0	0.0	0.0	0.2	0.9	0.0	0.2	0.4	0.4	0.2
6.15	0.0	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.4	0.0	4.2	1.1	2.9	0.0	6.4	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.7	0.0	0.0	0.2	0.7	0.2	0.0	0.0	0.4	0.2	0.0
6.25	0.0	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.4	0.7	5.1	0.7	2.0	0.0	7.6	0.2	0.4	0.0	0.2	0.0	0.9	0.2	0.9	0.0	0.0	0.0	0.2	1.1	0.4	0.0	0.4	0.7	0.0
6.35	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.6	0.2	6.0	0.4	3.8	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.4	0.0	0.0	0.0	0.4	0.9	0.9	0.0	0.0	0.2	0.2
6.45	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.9	1.1	8.3	1.1	2.0	0.0	4.8	0.0	0.2	0.4	0.7	0.0	0.2	0.2	1.8	0.0	0.0	0.0	0.4	0.4	0.9	0.0	0.0	0.4	0.0
6.55	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.2	5.1	0.7	5.3	0.9	5.7	0.2	0.0	0.0	0.2	0.0	0.4	0.2	1.3	0.0	0.0	0.7	0.0	1.3	0.0	0.0	0.2	0.0	0.0
6.65	0.0	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.7	0.2	7.5	0.2	2.4	0.2	5.1	0.4	0.0	0.0	0.0	0.0	0.2	0.2	1.1	0.0	0.0	0.7	0.0	0.4	0.7	0.0	0.2	0.0	0.2
6.75	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.1	0.4	3.7	0.7	3.3	0.2	5.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	2.4	0.0	0.0	0.2	0.2	0.2	0.4	0.7	0.4	0.4	0.0
6.85	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	6.6	1.1	2.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.0	0.0	0.0	0.2	0.4	0.2	0.2	0.0	0.0	0.0
6.95	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.9	0.7	2.4	0.2	3.9	0.2	0.0	0.0	0.0	0.0	0.2	0.7	1.1	0.0	0.0	0.2	0.0	0.9	0.7	0.0	0.0	0.7	0.2
7.05	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	9.2	0.4	1.1	0.0	2.8	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.3	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.0	0.0	0.0
7.15	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.2	8.8	0.0	3.3	0.0	5.3	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.2	0.0	1.3	0.4	0.2	0.2	0.0	0.0
7.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	8.8	0.7	1.5	0.2	4.2	0.0	0.0	0.0	0.7	0.0	0.0	0.2	1.8	0.0	0.0	0.4	0.2	0.7	0.7	0.2	0.2	0.0	0.0
7.35	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.4	6.4	0.2	3.3	0.0	1.3	0.0	0.0	0.0	0.2	0.0	0.9	0.0	1.5	0.0	0.0	0.2	0.4	0.4	0.2	0.2	0.0	0.2	0.4
7.45	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.9	5.0	0.7	3.5	0.2	4.2	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.1	0.0	0.0	0.4	0.0	0.7	1.1	0.0	0.2	0.2	0.0
7.55	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.4	5.5	0.2	2.9	0.0	3.3	0.0	0.0	0.0	0.7	0.0	0.7	0.0	1.1	0.0	0.0	0.0	0.2	0.7	0.2	0.4	0.2	0.4	0.0

1d. Ten Mile Creek calcareous nannofossil census data, part 4 of 5

Column 1: Section Height (m)
Column 2: Seribiscutum primitivum
Column 3: Sm. P. sigm, Z. erec, etc…
Column 4: Sollasites barringtonensis
Column 5: Sollasites sp.
Column 6: Staurolithites crux
Column 7: Stuarolithites dorfii
Column 8: Staurolithites ellipticus
Column 9: Staurolithites imbricatus
Column 10: Staurolithites mielnicensis
Column 11: Stuarolithites mitcheneri
Column 12: Staurolithites sp. 1
Column 13: Staurolithites sp. 2
Column 14: Staurolithites zoensis
Column 15: Stoverius asymmetricus
Column 16: Stoverius sp.
Column 17: Stoverius biarcus
Column 18: Stoverius coronatus
Column 19: Stradnerlithus rhombicus
Column 20: Tegumentum stradneri
Column 21: Tetrapodorhabdus copt/dec
Column 22: Thiersteinia ecclesiastica
Column 23: Tortolithus dodekachelyon
Column 24: Tranolithus exiguus
Column 25: Tranolithus gabalus
Column 26: Tranolithus macleodiae
Column 27: Tranolithus manifestus
Column 28: Tranolithus minimus
Column 29: Tranolithus phacelosus
Column 30: U. gothicus?
Column 31: Watznaueria barnasae
Column 32: Watznaueria biporta
Column 33: Watznaueria fossicincta
Column 34: Watznaueria ovata

Secti	Seribis	Sm. P.	Sollasi	Sollasi	Staurol	Stuarol	Staurol	Staurol	Staurol	Stuarol	Staurol	Staurol	Staurol	Stoveri	Stoveri	Stoveri	Stoveri	Stradne	Tegumen	Tetrapo	Thierst	Tortoli	Tranoli	Tranoli	Tranoli	Tranoli	Tranoli	Tranoli	U. goth	Watznau	Watznau	Watznau	Watznau
1.25	0.0	2.4	0.0	0.0	1.5	0.0	0.7	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.0	0.4	0.0	0.2	1.7	0.4	0.0	26.0	0.0	0.7	0.2
1.35	0.0	2.2	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.0	2.2	0.0	0.0	0.2	1.1	1.1	0.0	30.7	0.2	0.7	0.7
1.45	0.0	1.8	0.0	0.2	1.3	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.4	0.7	0.0	1.8	0.0	0.0	0.0	3.5	1.5	0.0	24.8	0.2	0.9	0.2
1.55	0.0	2.9	0.0	0.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.2	0.2	1.5	0.2	0.0	0.0	3.5	1.5	0.0	22.8	0.0	1.5	0.4
1.65	0.0	2.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.1	0.2	0.0	0.0	2.0	1.7	0.0	20.3	0.2	0.9	0.4
1.75	0.0	3.7	0.0	0.0	0.2	0.0	0.9	0.0	0.0	0.2	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.9	0.0	0.2	0.0	2.2	3.3	0.0	18.2	0.0	1.3	0.2
1.85	0.0	2.9	0.0	0.0	0.2	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.9	0.2	0.2	0.0	2.6	3.3	0.0	18.9	0.0	1.1	0.2
1.95	0.0	2.0	0.0	0.0	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.5	0.2	0.0	0.0	0.9	2.4	0.0	25.2	0.2	0.7	0.0
2.05	0.0	2.6	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	1.7	0.0	2.2	0.2	0.0	0.0	0.7	1.7	0.0	26.2	0.9	0.9	0.0
2.15	0.0	4.2	0.0	0.0	0.4	0.0	1.8	0.0	0.0	0.2	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.5	0.0	2.6	0.0	0.0	0.0	0.7	4.0	0.0	23.3	0.0	0.4	0.0
2.25	0.0	4.2	0.0	0.0	0.2	0.0	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.2	0.0	0.0	2.6	2.9	0.0	16.4	0.0	0.9	0.0
2.35	0.0	2.4	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	1.3	0.0	0.0	0.0	0.4	0.9	0.0	26.2	0.2	0.9	0.0
2.45	0.0	2.6	0.0	0.0	0.4	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.5	0.0	0.0	0.0	1.5	1.8	0.0	28.9	0.2	0.9	0.0
2.55	0.0	4.8	0.0	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.0	2.0	0.0	0.0	0.2

2.85	0.0	4.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.0	0.0	0.0	0.0	2.4	1.1	0.0	22.8	0.0	1.8	1.5
2.95	0.0	3.5	0.0	0.0	0.4	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	2.4	0.0	0.0	0.4	1.1	2.6	0.0	19.7	0.2	0.9	0.2
3.05	0.0	2.2	0.0	0.0	0.2	0.7	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.8	0.2	0.2	0.0	2.2	2.6	0.0	21.6	0.0	0.2	0.2
3.15	0.0	3.1	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.4	0.0	3.1	0.2	0.0	0.0	1.8	1.1	0.0	25.4	0.0	0.4	0.9
3.25	0.0	3.9	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.9	0.0	0.2	0.0	2.6	1.8	0.0	17.8	0.0	1.8	0.0
3.35	0.0	0.9	0.0	0.0	0.2	0.2	0.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.1	0.2	0.0	0.0	2.6	1.3	0.0	20.8	0.0	0.4	0.4
3.45	0.0	4.3	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	3.3	0.2	0.0	0.4	2.4	1.1	0.0	19.3	0.0	1.7	0.0
3.55	0.0	4.6	0.0	0.0	0.2	0.0	1.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.4	0.0	2.0	0.0	0.0	0.2	2.4	0.9	0.0	14.8	0.0	0.7	0.0
3.65	0.0	2.6	0.0	0.0	0.2	0.0	1.1	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.1	0.0	0.0	0.0	2.8	2.6	0.0	19.2	0.0	2.0	0.0
3.75	0.0	1.5	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.2	0.0	0.2	1.5	1.7	0.0	21.4	0.0	0.0	0.0
3.85	0.0	2.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	1.1	0.0	0.0	0.2	1.3	1.5	0.0	21.4	0.0	0.7	0.0
3.95	0.0	3.7	0.0	0.0	0.9	0.0	0.4	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.0	0.2	0.0	0.0	1.1	1.3	0.0	20.7	0.0	2.2	0.2
4.05	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.5	0.0	0.0	0.2	2.2	0.9	0.0	23.9	0.0	0.9	0.0
4.15	0.0	3.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.1	0.0	0.0	0.0	2.2	0.4	0.0	20.4	0.0	0.9	0.4
4.25	0.0	2.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.1	0.0	0.0	0.2	1.5	1.5	0.0	19.9	0.0	0.9	0.2
4.35	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.6	0.0	0.0	0.0	0.6	1.3	0.0	14.5	0.0	0.9	0.0
4.45	0.0	4.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	2.0	0.0	0.0	0.2	2.2	1.3	0.0	14.4	0.0	1.3	0.2
4.55	0.0	2.8	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0	2.6	0.0	0.0	0.4	2.4	0.9	0.0	12.5	0.0	0.9	0.0
4.65	0.0	4.2	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.0	2.2	0.0	0.0	0.0	1.3	1.5	0.0	14.9	0.0	0.4	0.0
4.75	0.0	1.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	1.5	0.9	0.0	17.1	0.0	0.4	0.0
4.85	0.0	0.2	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.0	2.0	0.0	0.0	0.2	2.2	1.3	0.0	18.9	0.0	1.1	0.0
4.95	0.0	2.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.7	0.0	3.1	0.0	0.0	0.4	1.1	0.2	0.0	14.4	0.0	1.5	0.0
5.05	0.0	3.3	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	2.9	2.6	0.0	19.1	0.0	0.4	0.0
5.15	0.0	4.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	2.6	1.1	0.0	14.0	0.0	0.7	0.0
5.25	0.0	2.9	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	3.3	2.0	0.0	19.5	0.0	0.2	0.0
5.35	0.0	0.9	0.0	0.0	0.4	0.0	0.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.9	0.2	0.0	0.0	1.7	1.5	0.0	18.6	0.0	0.4	0.2
5.45	0.0	2.4	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	1.1	0.0	0.0	0.0	3.3	0.7	0.0	17.5	0.0	0.2	0.0
5.55	0.0	4.8	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.3	0.2	0.0	0.0	1.3	2.0	0.0	20.8	0.0	0.0	0.0
5.65	0.0	4.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.8	1.3	0.0	27.0	0.0	1.1	0.0
5.75	0.0	1.3	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.4	0.0	0.0	2.6	0.7	0.0	23.0	0.0	0.2	0.7
5.85	0.0	2.2	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.1	2.6	0.0	21.3	0.4	0.2	0.2
5.95	0.0	2.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.2	0.0	0.0	4.1	2.4	0.0	14.6	0.0	0.2	0.0
6.05	0.0	3.1	0.0	0.0	0.4	0.0	1.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	3.5	2.4	0.0	19.3	0.0	0.4	0.2
6.15	0.0	2.6	0.0	0.0	0.4	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.9	0.0	0.0	0.2	1.8	4.4	0.0	25.9	0.2	0.9	0.0
6.25	0.0	2.9	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	3.1	2.7	0.0	19.2	0.0	1.8	0.0
6.35	0.0	3.8	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	2.4	1.5	0.0	21.8	0.0	1.5	0.0
6.45	0.0	1.3	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	2.2	0.2	0.0	0.0	0.4	0.9	0.0	25.2	0.4	3.1	0.7
6.55	0.0	2.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.9	0.2	0.0	0.2	3.1	1.8	0.0	24.2	0.0	1.3	0.0
6.65	0.0	1.3	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.1	0.0	0.0	0.0	4.4	2.9	0.0	23.3	0.0	0.0	0.2
6.75	0.0	3.1	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.8	0.0	0.0	0.0	2.4	2.2	0.0	21.9	0.0	0.7	0.0
6.85	0.0	4.2	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.3	0.0	0.0	0.4	2.2	2.6	0.0	23.5	0.0	1.3	0.0
6.95	0.0	3.1	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	1.3	0.0	2.4	0.2	0.0	0.0	2.0	2.2	0.0	24.0	0.2	0.7	0.0
7.05	0.0	3.5	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.2	2.6	0.4	0.0	20.4	0.2	0.7	0.0
7.15	0.0	2.8	0.0	0.0	0.9	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	0.0	3.7	0.0	0.0	0.7	1.3	0.9	0.0	18.4	0.0	1.5	0.0
7.25	0.0	0.7	0.0	0.0	0.9	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.2	0.0	2.6	0.0	0.0	0.2	1.5	0.7	0.2	23.6	0.2	1.3	0.2
7.35	0.0	1.1	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	3.5	0.2	0.0	0.0	2.0	0.4	0.0	20.4	0.0	1.1	0.0
7.45	0.0	1.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.4	0.2	0.0	21.2	0.0	0.9	0.2
7.55	0.0	0.9	0.0	0.0	0.7	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.9	0.2	0.0	0.2	2.6	1.8	0.0	22.6	0.0	0.4	0.0

1e. Ten Mile Creek calcareous nannofossil census data, part 5 of 5

Column 1: Section Height (m)
Column 2: Watznaueria quadriradiata
Column 3: Zeugrhabdotus diplogrammus
Column 4: Zeugrhabdotus erectus
Column 5: Zeug. pseudanthophorus
Column 6: Zeugrhabdotus scutula
Column 7: Zeugrhabdotus spiralis
Column 8: Zeugrhabdotus trivectus
Column 9: Zeugrhabdotus wynnhayi
Column 10: Helicolithus varolii

Secti	Watznau	Zeugrha	Zeugrha	Zeug. p	Zeugrha	Zeugrha	Zeugrha	Zeugrha	Helicolithus varolii
1.25	0.0	0.0	3.9	0.0	0.7	0.2	0.2	0.0	0.0
1.35	0.2	0.0	4.6	0.0	0.7	0.0	0.4	0.0	0.0
1.45	0.4	0.4	4.6	0.0	1.1	0.4	0.0	0.0	0.0
1.55	0.2	0.0	5.0	0.2	0.2	0.0	0.2	0.0	0.0
1.65	0.2	0.7	6.1	0.0	0.4	0.0	0.0	0.0	0.0
1.75	0.4	0.4	2.6	0.0	0.0	0.4	0.0	0.0	0.0
1.85	0.0	0.0	3.7	0.0	0.7	0.0	0.4	0.0	0.0
1.95	0.2	0.4	2.2	0.0	0.9	0.0	0.0	0.0	0.0
2.05	0.7	0.4	3.9	0.0	0.4	0.0	0.0	0.0	0.0
2.15	0.0	0.0	3.1	0.0	1.5	0.0	0.4	0.0	0.0
2.25	0.4	0.0	2.4	0.0	2.0	0.0	0.0	0.0	0.0
2.35	0.0	0.2	2.2	0.0	1.8	0.4	0.2	0.0	0.0
2.45	0.2	0.0	2.2	0.0	1.5	0.0	0.2	0.0	0.0
2.55	0.2	0.0	3.1	0.0	2.4	0.0	0.2	0.0	0.0
2.65	0.2	0.4	3.3	0.0	1.3	0.0	0.0	0.0	0.0
2.75	0.0	0.0	4.3	0.0	2.1	0.2	0.4	0.0	0.0
2.85	0.2	0.0	3.7	0.0	3.3	0.0	0.2	0.2	0.0
2.95	1.5	0.2	4.2	0.0	4.8	0.0	0.0	0.0	0.2
3.05	0.4	0.4	4.6	0.0	2.4	0.0	0.2	0.0	0.0
3.15	0.4	0.0	4.6	0.0	2.8	0.0	0.0	0.2	0.0
3.25	0.2	0.0	8.3	0.0	2.2	0.0	0.0	0.0	0.0
3.35	0.4	0.4	4.8	0.0	2.6	0.0	0.2	0.0	0.0
3.45	0.4	0.4	7.2	0.0	0.9	0.0	0.0	0.0	0.0
3.55	0.7	0.4	8.9	0.0	1.5	0.2	0.4	0.0	0.0
3.65	0.2	0.0	4.6	0.0	1.3	0.2	0.4	0.0	0.0
3.75	0.4	0.0	6.3	0.0	1.7	0.4	0.2	0.2	0.0
3.85	0.0	0.2	5.5	0.0	2.2	0.2	0.0	0.0	0.0
3.95	0.2	0.0	6.8	0.0	1.5	0.0	0.0	0.0	0.0
4.05	0.0	0.2	5.7	0.0	1.8	0.0	0.0	0.0	0.2
4.15	0.2	0.0	9.6	0.0	2.2	0.4	0.2	0.0	0.0

4.25	0.0	0.0	6.1	0.0	2.6	0.0	0.0	0.0	0.0
4.35	0.0	0.0	9.1	0.0	2.2	0.0	0.4	0.0	0.2
4.45	0.2	0.2	13.1	0.0	5.7	0.7	0.0	0.0	0.0
4.55	0.9	0.0	12.5	0.0	4.6	0.0	0.0	0.0	0.0
4.65	0.4	0.0	5.5	0.0	4.2	0.2	0.4	0.0	0.0
4.75	0.2	0.2	10.7	0.0	1.1	0.4	0.0	0.0	0.0
4.85	0.4	0.0	8.8	0.2	2.0	0.0	0.0	0.0	0.2
4.95	0.0	0.0	11.8	0.0	2.2	0.2	0.0	0.2	0.2
5.05	0.0	0.0	6.8	0.0	0.9	0.0	0.2	0.0	0.0
5.15	0.0	0.7	11.2	0.0	2.2	0.0	0.0	0.0	0.0
5.25	0.2	0.0	7.1	0.0	1.8	0.0	0.0	0.0	0.0
5.35	0.2	0.0	8.1	0.0	2.2	0.0	0.0	0.0	0.0
5.45	0.4	0.2	6.8	0.0	2.6	0.2	0.2	0.0	0.0
5.55	0.0	0.0	6.4	0.0	1.8	0.4	0.0	0.0	0.0
5.65	0.0	0.4	5.9	0.0	0.9	0.0	0.0	0.0	0.2
5.75	0.7	0.0	7.5	0.0	1.3	0.7	0.2	0.0	0.0
5.85	0.2	0.4	4.6	0.0	1.1	0.0	0.2	0.0	0.0
5.95	0.0	0.4	7.0	0.0	0.2	0.0	0.4	0.2	0.0
6.05	0.0	0.2	7.9	0.0	1.3	0.2	0.2	0.0	0.0
6.15	0.0	0.0	5.7	0.0	1.1	0.0	0.0	0.0	0.0
6.25	0.0	0.0	6.2	0.0	1.1	0.4	0.2	0.0	0.0
6.35	0.0	0.0	5.8	0.0	1.7	0.0	0.2	0.0	0.2
6.45	0.2	0.2	6.1	0.0	2.4	0.2	0.2	0.0	0.0
6.55	0.0	0.0	6.2	0.0	0.9	0.0	0.2	0.0	0.0
6.65	0.0	0.2	6.2	0.0	1.8	0.0	0.2	0.0	0.0
6.75	0.0	0.0	5.5	0.0	1.1	0.2	0.2	0.0	0.0
6.85	0.0	0.0	5.3	0.0	2.0	0.0	0.4	0.0	0.0
6.95	0.2	0.0	5.9	0.0	2.8	0.0	0.4	0.0	0.2
7.05	0.0	0.0	7.7	0.0	2.4	0.2	0.2	0.0	0.0
7.15	0.0	0.0	7.9	0.0	2.0	0.0	0.0	0.0	0.0
7.25	0.0	0.0	6.1	0.0	1.8	0.9	0.4	0.0	0.0
7.35	0.0	0.7	8.6	0.0	1.3	0.0	0.0	0.4	0.2
7.45	0.2	0.2	10.5	0.0	2.8	0.0	0.2	0.2	0.0
7.55	0.2	0.0	9.6	0.0	2.4	0.2	0.0	0.2	0.0

2a. Smoky Hill calcareous nannofossil census data, upper section, part 1 of 5

Column 1: Section Height (m)
Column 2: Ahmuellerella octoradiata
Column 3: Amphizygus brooksii
Column 4: Amphizygus megalops
Column 5: Arkhangelskiella confusa
Column 6: Arkhangelskiella cymbiformis
Column 7: Axopodorhabdid sp.
Column 8: Biscutum blacki
Column 9: Biscutum constans
Column 10: Biscutum dissimilis
Column 11: Biscutum hattneri
Column 12: Biscutum notaculum
Column 13: Biscutum zulloi
Column 14: Braarudosphaera bigelowii
Column 15: Broinsonia matalosa
Column 16: Broinsonia signata
Column 17: Bukrylithus ambiguus
Column 18: Calculites obscurus
Column 19: Calculites ovalis
Column 20: Chiastozygus amphipons
Column 21: Chiastozygus litterarius
Column 22: Corrollithion ellipticum
Column 23: Corollithion exiguum
Column 24: Corollithion madagascarensis
Column 25: Corollithion signum
Column 26: Cretarhadus conicus
Column 27: Cribrosphaera circula
Column 28: Cribrosphaerella ehrenbergii
Column 29: Cribrosphaerella pelta
Column 30: Cyclogelosphaera margharelli
Column 31: Cyclogelosphaera rotaclypeata
Column 32: Cylindralithus nudus
Column 33: Discorhabdus ignotus
Column 34: Eiffellithus eximius

SectiAhmuellAmphizyAmphizyArkhangArkhangAxopodoBiscutuBiscutuBiscutuBiscutuBiscutuBiscutuBraarudBroinsoBroinsoBukryliCalculiCalculiChiastoChiastoCorrollCorolliCorolliCorolliCretarhCribrosCribrosCribrosCyclogeCyclogeCylindrDiscorhEiffell
0 0.2 0.2 0.0 0.2 0.0 0.0 0.0 11.8 0.0 0.2 0.0 3.5 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.2 0.0 0.0 0.0 2.6 0.0 0.0 1.3 1.3 1.1 0.0 0.0 1.8 1.8
1 0.2 0.0 0.0 0.4 0.0 0.0 0.0 4.6 0.0 0.2 0.0 4.2 0.0 0.0 0.0 0.0 1.3 0.4 0.0 0.2 0.0 0.0 0.7 0.2 0.0 0.0 1.5 0.4 0.7 0.0 0.0 2.2 1.5
2 0.2 0.0 0.0 0.7 0.0 0.2 0.0 5.0 0.0 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.7 0.7 0.2 0.7 0.2 0.0 1.5 3.1 0.0 0.0 0.2 0.9 0.4 0.0 0.0 1.8 1.5
3 0.0 0.0 0.0 0.7 0.0 0.0 0.2 5.9 0.0 0.0 0.0 5.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.7 0.2 0.0 0.2 0.2 0.0 0.0 0.2 1.3 1.3 0.0 0.0 3.5 1.8
4 0.0 0.0 0.0 0.4 0.0 0.0 0.0 9.8 0.0 0.4 0.0 3.1 0.0 0.0 0.2 0.0 0.9 0.0 0.4 0.4 0.0 1.6 1.3 2.7 0.0 0.0 2.0 0.2 5.1 0.0 0.0 3.1 1.3
5 0.4 0.0 0.0 0.4 0.0 0.0 0.0 9.2 0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.2 0.2 0.0 0.0 0.0 0.9 0.7 2.9 0.0 0.0 1.8 0.9 5.4 0.0 0.0 2.2 1.6
6 1.8 0.4 0.0 0.4 0.0 0.0 0.0 3.1 0.0 0.0 0.0 5.9 0.2 0.0 0.0 0.0 0.2 0.2 0.0 0.0 0.0 0.7 0.2 2.0 0.0 0.0 0.9 2.4 2.6 0.0 0.0 2.0 0.4
7 0.4 0.0 0.0 0.4 0.0 0.0 0.0 7.7 0.0 0.0 0.0 4.4 0.0 0.4 0.9 0.7 0.0 0.2 0.2 0.0 0.0 0.9 0.2 1.1 0.0 0.0 1.3 3.1 3.3 0.0 0.0 1.5 0.9
8 0.4 0.0 0.0 0.7 0.0 0.0 0.0 7.4 0.2 0.0 0.0 2.4 0.0 0.0 0.9 0.0 0.9 0.4 0.2 0.0 0.0 0.2 0.4 2.8 0.0 0.0 1.7 2.2 1.7 0.0 0.0 1.1 1.1
8.8 0.0 0.4 0.0 2.2 0.0 0.0 0.0 6.6 0.2 0.7 0.0 2.0 0.0 0.0 0.2 0.4 0.4 0.9 0.2 0.0 0.0 0.7 0.0 3.7 0.0 0.0 0.7 0.9 4.4 0.0 0.0 2.9 0.9
8.9 0.9 0.0 0.0 4.4 0.0 0.0 0.0 9.0 0.0 0.0 0.0 1.8 0.0 0.0 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.4 0.0 4.2 0.0 0.0 1.5 1.3 1.3 0.0 0.0 0.4 0.4
9 0.9 0.0 0.0 0.7 0.0 0.0 0.0 6.1 0.0 0.2 0.0 1.5 0.0 0.0 0.0 0.4 0.4 0.4 0.0 0.2 0.0 0.4 0.4 2.6 0.2 0.0 1.8 2.6 3.3 0.0 0.0 1.3 2.0
9.1 1.1 0.0 0.0 0.2 0.0 0.0 0.0 4.0 0.0 0.0 0.0 1.1 0.0 0.0 0.0 0.2 0.2 0.4 0.2 0.0 0.0 0.2 0.2 3.6 0.0 0.0 1.1 0.7 1.6 0.0 0.0 1.8 1.8
9.2 1.1 0.4 0.0 0.9 0.0 0.0 0.0 5.0 0.0 0.0 0.0 2.4 0.0 0.0 0.0 0.0 0.2 0.0 0.0 0.2 0.0 1.1 0.0 1.1 0.0 0.0 0.0 0.0 1.1 0.0 0.0 1.1 1.1
9.3 0.7 0.4 0.0 0.4 0.0 0.0 0.0 11.0 0.0 0.2 0.0 1.3 0.0 0.0 0.7 0.0 0.7 0.4 0.0 0.4 0.0 1.1 0.2 1.3 0.0 0.0 0.7 0.0 1.8 0.0 0.0 1.5 0.4
9.4 0.4 0.2 0.0 1.1 0.0 0.0 0.0 9.4 0.0 0.2 0.0 1.1 0.0 0.0 0.4 0.2 0.7 1.5 0.0 0.2 0.0 0.4 0.4 0.7 0.0 0.0 0.4 0.0 0.9 0.0 0.0 1.5 2.2
9.5 0.4 0.0 0.0 0.2 0.0 0.0 0.0 9.6 0.0 0.0 0.0 0.9 0.0 0.0 0.4 0.0 0.0 0.2 0.0 0.0 0.0 0.2 0.0 0.7 0.0 0.0 0.0 0.0 1.1 0.0 0.0 1.3 1.1
9.6 1.1 0.0 0.0 0.7 0.0 0.0 0.0 9.0 0.0 0.0 0.0 0.7 0.0 0.0 1.1 0.4 0.4 0.0 0.0 0.2 0.0 0.4 0.0 1.3 0.0 0.0 0.7 0.4 0.9 0.0 0.0 2.2 2.0
9.7 0.9 0.0 0.0 0.0 0.0 0.0 0.0 9.0 0.0 0.0 0.0 2.6 0.0 0.0 0.2 0.0 0.4 0.2 0.0 0.2 0.0 0.2 0.0 0.4 0.0 0.0 1.3 0.9 1.3 0.2 0.0 1.3 0.6
9.8 0.2 0.0 0.0 0.0 0.0 0.0 0.0 14.0 0.0 0.2 0.0 0.7 0.0 0.0 0.2 0.2 0.7 1.5 0.0 0.0 0.0 0.2 0.0 1.5 0.0 0.0 2.8 1.3 0.9 0.0 0.2 3.1 0.7
9.9 0.7 0.0 0.0 0.4 0.0 0.0 0.0 9.5 0.0 0.0 0.0 1.5 0.0 0.0 1.1 0.0 0.4 1.8 0.0 0.2 0.0 0.2 0.0 1.1 0.0 0.0 0.9 0.7 0.4 0.0 0.0 1.8 0.9
10 0.0 0.0 0.2 1.1 0.0 0.0 0.0 16.4 0.0 0.0 0.0 0.7 0.0 0.0 0.4 0.0 1.1 1.1 0.0 0.0 0.0 0.4 0.0 0.0 0.0 0.0 0.4 0.0 0.4 0.0 0.0 2.2 0.9
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10.2 0.2 0.0 0.0 0.4 0.0 0.0 0.0 21.0 0.0 0.0 0.0 0.7 0.0 0.0 0.0 0.4 0.4 1.3 0.0 0.0 0.0 0.2 0.0 0.7 0.0 0.0 0.4 0.0 0.9 0.0 0.0 2.2 0.4
10.3 1.1 0.6 0.0 0.2 0.0 0.0 0.0 13.3 0.0 0.2 0.0 0.9 0.0 0.0 0.6 0.4 0.2 0.2 0.0 0.0 0.0 0.4 0.0 3.0 0.0 0.0 1.5 1.3 2.4 0.0 0.0 1.1 0.9
10.4 0.2 0.0 0.0 0.0 0.0 0.0 0.0 9.5 0.0 0.2 0.0 1.8 0.0 0.0 0.0 0.2 0.0 0.0 0.0 0.4 0.0 0.4 0.0 2.0 0.0 0.0 1.8 0.2 1.8 0.0 0.0 1.1 0.7
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10.6 0.7 0.2 0.9 0.0 0.0 0.0 0.0 12.3 0.0 0.7 0.0 0.2 0.0 0.0 0.2 0.0 1.3 1.3 0.0 0.0 0.0 0.2 0.0 0.0 0.0 0.0 2.0 0.7 1.8 0.0 0.0 1.1 1.1
10.7 0.4 0.2 0.0 0.4 0.0 0.0 0.0 9.0 0.0 0.7 0.0 1.1 0.2 0.0 0.0 0.2 0.7 0.4 0.0 0.0 0.0 0.2 0.0 0.2 0.0 0.0 2.2 1.5 1.7 0.0 0.2 2.8 0.2
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10.9 0.2 0.0 0.0 0.4 0.0 0.0 0.0 9.2 0.0 0.2 0.0 2.4 0.0 0.2 0.0 0.0 0.7 1.1 0.9 0.2 0.0 0.9 0.0 0.0 0.0 0.0 0.2 0.2 1.5 0.0 0.0 1.3 1.5
11 0.9 0.2 0.0 0.2 0.2 0.0 0.0 5.5 0.0 0.2 0.2 1.5 0.0 0.2 0.0 0.0 0.9 1.3 0.4 0.0 0.0 1.8 0.0 0.0 0.0 0.0 0.4 0.0 1.5 0.0 0.2 1.8 0.4
11.1 0.2 0.0 0.2 0.0 0.0 0.0 0.0 9.8 0.0 0.0 0.0 1.7 0.0 0.2 0.2 0.7 0.4 0.9 0.0 0.0 0.0 0.9 0.0 0.0 0.0 0.0 0.0 0.0 1.1 0.0 0.2 3.3 1.3
11.2 0.9 0.0 0.2 0.0 0.0 0.0 0.0 11.4 0.0 0.2 0.0 2.6 0.2 0.2 0.7 0.0 0.0 0.4 0.0 0.0 0.0 0.9 0.0 0.0 0.0 0.0 0.4 0.7 0.9 0.0 0.0 3.1 1.3
11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.9 0.0 0.2 0.0 2.4 0.0 0.4 0.0 0.0 0.4 0.2 0.0 0.0 0.2 0.0 0.2 0.2 0.4 0.0 0.0 2.0 1.1 1.8 0.0 0.0 2.9 0.9
11.4 0.7 0.2 0.0 2.0 0.0 0.0 0.0 14.8 0.0 0.2 0.0 0.9 0.0 0.0 0.9 0.0 0.2 0.0 0.2 0.2 0.0 0.4 0.0 1.1 0.0 0.0 0.9 1.3 2.0 0.0 0.0 2.2 1.1
11.5 0.4 0.0 0.0 1.3 0.0 0.0 0.0 14.5 0.0 0.0 0.0 0.9 0.0 0.0 0.0 0.0 0.2 0.7 0.4 0.7 0.0 0.0 0.4 0.0 1.3 0.0 0.0 0.4 1.8 0.7 0.2 0.0 3.3 0.7
11.6 1.3 0.0 0.2 0.0 0.0 0.0 0.0 15.4 0.0 0.9 0.0 0.9 0.0 0.0 0.0 0.0 0.9 0.4 0.0 1.1 0.2 0.0 0.7 0.0 1.3 0.0 0.0 0.7 0.9 1.1 0.0 0.0 4.2 1.3
11.7 0.7 0.2 0.0 0.2 0.0 0.0 0.0 10.1 0.0 2.6 0.0 0.7 0.0 0.2 0.2 0.2 0.2 0.0 0.7 0.2 0.0 1.5 0.0 2.0 0.0 0.0 0.2 0.7 1.1 0.0 0.0 2.6 0.7
11.8 0.4 0.0 0.0 0.2 0.0 0.0 0.7 9.9 0.0 2.4 0.0 1.1 0.0 0.0 0.2 0.0 0.4 0.4 0.2 0.0 0.7 0.4 0.2 1.3 0.0 0.0 0.4 0.4 2.0 0.0 0.0 3.5 0.4
11.9 0.7 0.0 0.0 0.2 0.0 0.0 0.2 7.0 0.0 0.2 0.0 1.1 0.0 0.0 0.9 0.0 0.2 0.9 0.0 0.0 0.4 0.9 0.2 2.8 0.0 0.0 0.0 0.2 2.0 0.0 0.0 2.6 0.9

12	0.4	0.0	0.0	0.4	0.0	0.0	0.0	9.2	0.0	2.4	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.2	0.4	0.7	0.2	0.7	0.0	0.0	1.5	0.0	1.5	0.0	0.0	2.2	0.2
12.1	0.9	0.0	0.0	0.0	0.0	0.0	0.7	12.3	0.0	3.1	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.9	0.0	0.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.2	1.8	0.7
12.2	0.2	0.4	0.0	0.9	0.0	0.0	0.4	5.5	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.4	0.0	0.2	0.7	0.0	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.2	1.1	0.0	0.2	1.1	3.3
12.3	1.5	0.2	0.0	0.0	0.0	0.2	0.2	8.3	0.0	2.0	0.0	0.4	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.2	0.2	1.1	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	1.3	0.9
12.4	0.4	0.2	0.0	0.2	0.0	0.2	0.2	7.5	0.0	1.1	0.0	1.8	0.0	0.2	0.7	0.4	0.0	0.2	0.4	0.2	0.9	0.2	0.0	1.1	0.0	0.0	0.0	0.0	2.2	0.0	0.0	2.2	0.7
12.5	0.4	0.4	0.0	0.2	0.0	0.0	0.0	6.6	0.0	3.7	0.0	0.2	0.0	1.1	0.0	0.0	0.0	0.2	0.2	0.4	1.1	0.2	0.2	1.3	0.0	0.0	2.4	0.4	2.4	0.0	0.0	2.4	0.4
12.6	0.4	0.2	0.0	0.0	0.0	0.0	0.2	3.7	0.0	0.7	0.0	3.5	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.4	0.4	0.2	0.4	0.0	0.0	3.7	0.9	2.4	0.0	0.0	2.2	0.2
12.7	0.4	0.7	0.0	0.4	0.0	0.0	0.0	4.4	0.0	1.1	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.7	1.1	0.0	0.7	1.5	0.0	0.0	2.0	0.0	1.8	0.0	0.0	3.1	0.9
12.8	0.7	0.2	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.7	0.0	1.1	0.0	0.0	0.0	0.0	0.2	0.7	0.2	0.0	0.0	0.2	0.7	0.9	0.0	0.0	2.2	0.0	2.4	0.2	0.0	3.1	0.4
12.9	0.2	0.2	0.0	0.4	0.0	0.0	0.0	3.9	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.0	0.9	0.0	0.0	0.7	0.2	2.0	0.0	0.0	2.2	0.0
13	0.4	0.2	0.0	0.4	0.2	0.0	0.2	6.8	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.2	0.0	0.0	0.4	0.0	1.1	0.4	0.0	1.3	0.0	0.0	0.2	0.0	1.7	0.0	0.4	1.5	0.2
13.1	0.4	0.0	0.0	1.3	0.0	0.0	0.0	14.9	0.0	0.4	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.7	0.2	0.0	0.0	1.3	0.0	0.0	0.9	0.0	2.4	0.0	0.0	0.7	0.2
13.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.2	0.4	0.2	0.0	0.4	0.4	1.1	0.7	0.0	0.0	0.7	0.9	3.5	0.0	0.0	2.4	1.3
13.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	7.7	0.0	0.4	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.2	1.3	0.4	0.2	0.0	0.0	0.0	2.4	2.4	2.9	0.0	0.0	2.0	0.7
13.4	0.2	0.2	0.0	0.4	0.0	0.2	0.0	6.1	0.0	0.4	0.0	2.4	0.0	0.0	0.7	0.4	0.0	0.2	0.7	0.0	0.2	0.4	0.2	0.4	0.0	0.0	1.3	1.3	2.9	0.0	0.0	4.4	1.1
13.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.7	0.0	0.2	0.0	0.4	0.2	0.0	0.2	0.0	0.0	0.4	0.2	0.0	0.4	0.4	0.2	0.4	0.0	0.0	0.0	0.0	2.1	0.0	0.0	3.4	1.9
13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.9	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.2	1.5	0.4	0.0	0.0	0.0	0.0	2.4	1.3	2.0	0.0	0.2	2.0	1.5
13.7	0.2	0.0	0.0	0.2	0.0	0.0	0.0	13.4	0.0	1.5	0.0	2.4	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.0	0.2	0.2	0.0	0.0	1.8	1.8	2.2	0.0	0.0	0.9	1.5
13.8	0.0	0.2	0.0	0.0	0.0	0.0	0.4	7.9	0.2	1.3	0.0	3.7	0.0	0.2	0.2	0.0	0.2	0.0	0.9	0.0	1.8	0.4	0.0	0.7	0.0	0.0	0.4	0.7	0.9	0.0	0.0	1.8	1.5
13.9	0.2	0.0	0.2	0.0	0.0	0.0	0.0	6.6	0.0	0.4	0.2	0.7	0.0	0.2	0.0	0.9	0.0	0.7	0.7	0.0	1.1	0.4	0.0	1.5	0.0	0.0	2.2	2.0	0.9	0.0	0.0	3.3	2.2
14	0.4	0.2	0.0	0.2	0.0	0.0	0.4	8.4	0.0	0.0	0.0	3.5	0.0	0.2	0.4	0.2	0.0	0.0	0.2	0.0	1.1	0.7	0.0	1.1	0.0	0.2	0.7	1.3	0.9	0.0	0.0	4.8	2.4
14.1	0.2	0.0	0.2	0.0	0.0	0.4	0.2	7.9	0.0	0.9	0.0	1.1	0.0	0.0	0.4	0.2	0.0	0.0	0.2	0.2	0.2	0.7	0.7	0.9	0.0	0.0	1.8	0.9	0.9	0.0	0.0	3.9	1.5
14.2	0.7	0.4	0.0	0.2	0.0	0.2	0.4	7.9	0.0	0.9	0.0	0.9	0.0	0.0	0.9	0.2	0.0	0.2	0.4	0.2	1.1	0.2	0.0	1.1	0.0	0.0	2.4	3.1	1.1	0.0	0.0	5.0	0.7
14.3	0.4	0.2	0.2	0.2	0.0	0.0	0.4	8.1	0.0	1.8	0.0	1.1	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.2	0.4	0.7	0.0	2.0	0.0	0.2	3.3	2.2	1.8	0.0	0.0	3.9	0.9
14.4	0.2	0.2	0.0	0.0	0.0	0.2	0.0	6.8	0.0	2.2	0.0	2.2	0.0	0.0	0.9	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.0	0.4	0.0	0.0	2.0	2.0	1.8	0.0	0.0	5.1	0.2
14.5	0.9	0.4	0.0	0.0	0.0	0.0	0.0	7.5	0.0	1.5	0.2	0.7	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.4	0.0	0.2	0.0	3.9	0.0	0.0	2.9	1.5	2.0	0.0	0.0	4.6	0.9
14.6	0.2	0.2	0.0	0.0	0.0	0.2	0.0	12.7	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.7	0.2	0.0	2.2	0.0	0.0	0.4	0.9	2.9	0.0	0.0	4.4	0.2
14.7	0.4	0.2	0.2	0.4	0.0	0.2	1.3	7.0	0.0	2.0	0.0	2.4	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.4	0.0	0.4	2.6	0.0	0.0	0.9	0.4	2.2	0.0	0.2	3.1	1.1
14.8	0.4	0.0	0.0	0.0	0.0	0.4	0.2	6.6	0.0	0.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	1.1	0.0	0.0	1.5	0.2	2.2	0.0	0.4	0.9	3.5
14.9	0.7	0.0	0.0	0.4	0.0	0.0	0.2	6.3	0.0	0.4	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.9	0.0	0.0	1.3	0.4	1.8	0.0	0.0	2.0	1.5
15	0.2	0.0	0.2	0.4	0.0	0.4	1.1	5.7	0.0	1.3	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.0	0.0	1.8	0.0	0.0	2.9	1.3	3.1	0.0	0.2	2.2	4.8
15.1	0.7	0.2	0.0	0.0	0.0	0.2	0.2	6.6	0.0	2.2	0.0	0.9	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	1.5	0.0	0.0	0.7	0.7	0.2	0.0	0.0	2.2	5.9
15.2	0.7	0.0	0.0	0.0	0.0	0.2	0.7	4.8	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.2	0.0	0.7	0.0	0.0	2.2	0.9	2.0	0.0	0.0	1.3	3.5
15.3	0.4	0.0	0.4	0.2	0.0	0.0	0.0	8.8	0.0	0.2	0.2	0.9	0.0	0.0	0.0	0.4	0.0	0.2	0.7	0.2	0.7	0.4	0.0	1.8	0.0	0.0	2.9	0.4	2.6	0.0	0.0	4.2	2.2
15.4	0.7	0.0	0.0	0.0	0.0	0.2	0.4	6.1	0.0	1.3	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.2	0.2	0.0	1.1	0.0	0.0	4.4	1.3	1.3	0.0	0.2	3.7	2.6
15.5	0.4	0.7	0.0	0.0	0.0	0.4	0.7	10.3	0.0	1.1	0.0	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	2.4	0.0	0.0	2.2	0.0	0.9	0.0	0.0	3.3	1.8
15.6	0.4	0.7	0.0	0.0	0.0	0.2	0.7	8.8	0.0	2.0	0.4	1.1	0.0	0.0	0.2	0.0	0.4	0.4	0.2	0.0	0.2	0.0	0.0	0.9	0.0	0.0	1.1	0.4	2.6	0.0	0.0	1.8	2.6
15.7	0.7	0.2	0.0	0.4	0.0	0.0	0.2	4.8	0.0	0.9	0.0	1.8	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	1.5	0.2	1.3	0.0	0.0	2.9	2.0
15.8	0.2	0.4	0.0	0.0	0.0	0.0	0.9	7.3	0.0	1.8	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.9	0.0	2.0	0.0	0.0	2.6	1.8
15.9	0.9	0.0	0.0	0.0	0.0	0.4	0.7	5.9	0.0	2.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.0	0.0	0.0	1.5	0.7	1.8	0.0	0.0	1.5	3.5
16	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	1.1	0.0	0.4	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.2	0.0	0.4	0.2	1.3	0.0	0.0	3.5	0.4	0.9	0.0	0.0	3.5	1.8
16.1	0.0	0.2	0.2	0.0	0.0	0.2	0.0	3.5	0.0	1.3	0.2	0.4	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.2	2.6	0.0	0.0	0.9	0.0	0.7	0.0	0.0	1.5	2.2
16.2	0.9	0.2	0.2	0.0	0.0	0.0	0.2	4.4	0.0	2.2	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.4	0.4	0.0	1.1	0.0	0.0	0.9	0.0	0.7	0.0	0.2	4.6	1.5
16.3	1.3	0.4	0.0	0.0	0.0	0.0	0.7	11.6	0.0	1.5	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	4.4	2.0

2b. Smoky Hill calcareous nannofossil census data, upper section, part 2 of 5

Column 1: Section Height (m)
Column 2: Eiffellithus gorkae
Column 3: Eiffellithus turriseiffelii
Column 4: Gaarderella granulifera
Column 5: Gartnerago clarusora
Column 6: Gartnerago costatum
Column 7: Gartnerago margaritatus
Column 8: Gartnerago segmentatum
Column 9: Glaukolithus bicrescenticus
Column 10: Glaukolithus biperforatus
Column 11: Grantnarhabdus coronadventis
Column 12: Helicolithus compactus
Column 13: Helicolithus anceps
Column 14: Helicolithus stellafissus
Column 15: Helicolithus trabeculatus
Column 16: Helicolithus turonicus
Column 17: Bifidalithus phenax
Column 18: Kamptnerius magnificus
Column 19: Kamptnerius punctata
Column 20: Lithastrinus grillii
Column 21: Lithastrinus septenarius
Column 22: Lithraphidites carniolensis
Column 23: Loxolithus armilla
Column 24: Lucianorhabdus cayeuxii
Column 25: Lucianorhabdus maleformis
Column 26: Manivitella pemmatoidea
Column 27: Marthasterites sp.
Column 28: Marthasterites crassus
Column 29: Marthasterites furcatus
Column 30: Microrhabdulus belgicus
Column 31: Microrhabdulus decoratus
Column 32: Micula concava
Column 33: Micula cubiformis
Column 34: Micula decussata

Secti	Eiffell	Eiffell	Gaarder	Gartner	Gartner	Gartner	Gartner	Glaukol	Glaukol	Grantna	Helicol	Helicol	Helicol	Helicol	Helicol	Bifidal	Kamptne	Kamptne	Lithast	Lithast	Lithrap	Loxolit	Luciano	Luciano	Manivit	Marthas	Marthas	Marthas	Microrh	Microrh	Micula	Micula	Micula
0	0.4	1.8	0.0	0.2	0.2	0.0	0.0	0.4	0.0	0.2	0.2	0.4	1.5	5.5	0.0	0.0	0.2	0.0	0.2	0.0	1.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.9	0.7	0.0	0.4	0.7
1	0.4	3.3	0.2	0.0	0.0	0.0	0.2	0.2	1.3	0.0	0.4	0.4	1.3	3.9	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	1.1	0.4	0.0	0.0	0.0	0.0	1.3	0.7	0.0	0.0	0.2
2	0.2	1.8	0.4	0.0	0.0	0.0	0.2	0.7	0.0	0.4	0.0	1.3	1.3	3.3	0.0	0.0	0.2	0.0	0.2	0.0	0.9	0.0	0.2	0.2	0.2	0.0	0.0	0.0	1.5	0.0	0.0	0.2	0.2
3	0.9	1.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.4	1.3	3.3	5.9	0.0	0.0	0.4	0.0	0.2	0.0	0.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.2	0.4
4	0.0	2.2	0.0	0.2	0.0	0.0	0.4	0.2	0.9	0.0	0.0	1.6	0.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
5	0.2	1.8	0.0	0.2	0.0	0.0	0.7	0.0	0.9	0.0	0.0	0.7	1.1	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.9
6	0.7	3.5	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.0	0.0	2.6	0.4	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.7	0.0	1.1
7	0.2	2.6	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.2	0.2	1.1	2.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3
8	2.2	4.1	0.0	0.0	0.0	0.0	0.9	0.9	0.7	0.0	0.0	0.7	0.9	6.8	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.0	2.6	0.2	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2
8.8	0.4	1.8	0.0	0.0	0.0	0.2	0.2	0.9	0.7	0.0	0.0	0.2	1.1	2.9	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2
8.9	0.4	3.7	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	1.1	1.1	4.6	0.0	0.0	0.2	0.0	0.7	0.4	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.4	0.0	0.4
9	0.9	2.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.4	0.2	2.2	3.5	0.0	0.0	0.2	0.0	0.7	0.2	0.2	0.4	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
9.1	2.9	2.7	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.7	0.2	1.3	1.6	5.6	0.0	0.0	0.2	0.0	1.6	0.2	0.7	0.0	1.3	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2
9.2	0.0	2.2	0.0	0.0	0.0	0.0	0.2	0.7	0.7	0.2	0.0	0.9	0.7	7.9	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4
9.3	0.0	1.1	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.4	0.0	1.3	1.3	8.6	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	1.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.9
9.4	0.9	2.4	0.0	0.0	0.0	0.0	0.7	0.2	0.7	0.0	0.0	0.2	2.6	5.3	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
9.5	1.3	0.9	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.4	2.6	7.2	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
9.6	1.1	2.2	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.7	4.0	7.5	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4
9.7	0.2	1.5	0.0	0.0	0.0	0.0	0.4	0.4	0.2	0.0	0.0	1.1	4.1	6.2	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
9.8	0.2	1.8	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.4	0.4	4.4	3.3	0.0	0.0	0.0	0.0	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2
9.9	0.4	2.6	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.2	2.9	4.4	0.0	0.0	0.0	0.0	0.2	2.0	0.0	0.0	1.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
10	0.2	0.9	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.4	0.7	2.4	6.1	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.4	0.2
10.1	0.7	1.1	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	1.3	2.7	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	1.1	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.7	0.0	0.7
10.2	0.7	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.7	0.4	1.5	2.6	0.0	0.0	0.0	0.0	0.7	0.9	0.0	0.2	1.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.9
10.3	0.6	0.2	0.0	0.0	0.0	0.0	0.2	0.6	0.2	0.2	1.1	0.4	1.3	5.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4
10.4	0.4	1.3	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.7	0.4	5.9	0.0	0.0	0.0	0.0	0.2	0.2	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.4	0.7
10.5	1.3	0.7	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.9	0.9	3.9	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4
10.6	0.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.4	1.3	2.6	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	1.8	0.0	0.2	0.0	0.0	0.2	0.2	0.2	0.0	0.2	1.1
10.7	0.4	1.7	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.4	0.4	0.9	4.6	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.2	0.7	0.2	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.4
10.8	0.7	2.6	0.0	0.0	0.

10.9	1.1	0.7	0.0	0.0	0.0	0.0	0.4	1.1	0.0	0.0	0.0	2.8	1.7	5.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.1	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2
11	0.7	2.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.9	0.2	6.2	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.4
11.1	0.4	1.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	1.1	0.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.7
11.2	0.7	1.1	0.0	0.0	0.0	0.0	0.2	0.2	1.1	0.0	0.4	0.2	1.5	2.4	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.2	1.1	0.0	0.2	0.0	0.0	0.0	0.9	0.2	0.0	0.2	0.9
11.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.2	1.1	2.0	7.7	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.7
11.4	1.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.1	0.4	2.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.9	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.4
11.5	1.3	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	2.0	1.1	3.3	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
11.6	2.0	2.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.9	0.4	0.2	2.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	1.8	0.0	0.0	0.0	0.0	0.2	2.4	0.4	0.0	0.2	0.2
11.7	1.8	1.3	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.9	1.3	0.9	6.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.2
11.8	1.5	1.1	0.4	0.2	0.0	0.0	0.2	1.1	0.0	0.0	0.0	0.9	1.1	2.4	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.7	0.0	0.0	0.0	0.2	0.0	1.1	0.2	0.0	0.2	0.0
11.9	0.9	2.2	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.7	1.3	3.1	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.4	0.0	0.2	0.0	0.0	0.2	2.4	0.2	0.0	0.4	0.4
12	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.4	2.2	0.0	0.0	0.0	0.0	0.2	0.7	0.2	0.4	0.2	0.0	0.0	0.0	0.0	0.2	2.2	0.0	0.0	0.0	0.2
12.1	0.4	0.9	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	1.1	2.0	5.1	0.0	0.0	0.0	0.0	0.2	0.9	0.0	0.7	0.4	0.0	0.0	0.0	0.2	0.4	0.9	0.4	0.0	0.0	0.0
12.2	0.2	0.9	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.4	0.0	0.4	0.7	5.7	0.0	0.0	0.0	0.0	0.2	2.6	0.0	0.0	3.8	0.0	0.7	0.0	0.2	0.7	0.7	0.2	0.0	0.0	0.7
12.3	0.7	1.8	0.4	0.2	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.4	1.3	2.9	0.0	0.0	0.0	0.0	0.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	0.2	0.0
12.4	1.1	1.8	0.2	0.2	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.4	1.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	1.1	0.0	0.0	0.0	0.7
12.5	0.9	1.5	0.0	0.0	0.0	0.0	0.2	1.3	0.0	0.4	0.2	0.9	1.1	5.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	1.8	0.0	0.0	0.2	0.4
12.6	1.8	1.3	0.7	0.0	0.0	0.0	0.2	1.1	0.0	0.0	0.9	0.7	1.3	4.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.1	0.0	0.0	0.0	0.2
12.7	0.2	0.4	0.2	0.0	0.0	0.0	0.2	0.4	0.0	0.2	0.2	0.9	1.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.2	0.0	0.0	0.2	0.7	0.2	0.0	0.0	0.0
12.8	0.2	0.9	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.4	0.9	1.5	5.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.2
12.9	1.1	1.1	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.9	1.1	5.9	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.7	0.0	0.0	0.2
13	1.3	1.7	0.2	0.0	0.0	0.0	0.0	1.7	0.2	0.0	0.0	1.7	0.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.4	0.0	0.0	0.0	0.0	0.0	2.2	0.4	0.0	0.4	0.7
13.1	1.8	2.4	0.2	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.9	1.5	0.4	2.4	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.2	1.3	0.2	0.0	0.9	0.4
13.2	1.1	2.6	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.9	1.8	2.9	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	1.1	0.0	0.2	0.0	0.0	0.2	2.0	0.2	0.0	0.4	0.2
13.3	0.9	0.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.2	2.0	0.0	0.0	0.0	0.0
13.4	0.0	1.5	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.2	0.7	0.9	1.8	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.0	1.1	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.7	0.2
13.5	0.4	0.0	0.2	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.6	2.5	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.4	0.2	0.4	0.0	0.0	0.0	4.0	0.4	0.0	0.0	0.8
13.6	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.2	0.0	0.0	0.0	0.0	0.2	1.8	0.0	0.0	0.2	0.0
13.7	0.2	0.2	0.4	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.7	0.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	2.2	0.9	0.0	0.0	0.0
13.8	0.0	0.7	0.9	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.4	0.2	2.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.5	0.0	0.0	0.2	0.7
13.9	0.7	1.5	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.2	0.4	0.7	1.1	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.2	0.2	1.5	0.0	0.0	0.4	2.0
14	0.4	1.5	0.4	0.9	0.0	0.0	0.4	0.7	0.0	0.2	0.0	0.4	0.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	1.1
14.1	0.4	1.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	1.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.2	0.0	0.0	1.5	0.2	0.0	0.2	0.9
14.2	0.4	2.4	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	1.1	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.2	2.0	0.9	0.0	1.1	0.2
14.3	1.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	2.2	1.1	0.0	0.0	0.0	0.0	0.4	0.9	0.0	0.7	0.9	0.0	0.0	0.0	0.0	0.0	1.5	0.4	0.0	0.0	0.2
14.4	0.7	2.0	0.7	0.7	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.2	1.5	1.1	0.2	0.0	0.0	0.0	0.2	0.0	0.4	0.2	0.2	0.0	0.2	0.0	0.0	0.0	1.8	0.9	0.0	0.2	0.4
14.5	0.7	1.5	0.2	0.2	0.0	0.0	0.0	0.4	0.0	0.7	0.7	0.2	1.3	1.8	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	2.0	0.0	0.2	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.2
14.6	0.9	1.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.9	0.2	0.7	0.9	0.0	0.4	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.0	0.2	0.0	0.0	0.0	1.3	0.2	0.0	0.9	0.4
14.7	0.7	1.5	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.2	0.9	2.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.4	0.0	1.3	0.7
14.8	0.4	1.1	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.2	3.3	1.1	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	1.8	0.0	0.0	0.2	0.7
14.9	0.7	0.7	0.4	0.2	0.0	0.0	0.2	0.7	0.0	0.4	0.7	0.2	0.9	3.7	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.4	0.0	0.0	0.2	0.2	0.2	0.9	0.2	0.0	0.4	0.9
15	0.4	2.4	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.9	1.1	0.9	2.6	0.0	0.0	0.9	0.0	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	1.1	0.0	0.0	0.4	3.1
15.1	0.7	0.9	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.4	0.4	0.9	1.1	3.1	0.0	0.4	0.4	0.0	0.7	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.4	0.9	1.1	0.2	0.0	0.7	3.1
15.2	0.2	2.0	0.2	0.2	0.2	0.0	0.0	0.4	0.0	0.0	0.4	1.5	0.9	1.8	0.0	0.0	0.0	0.0	0.2	0.7	0.4	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.4	0.0	0.0	1.5
15.3	1.1	0.9	0.2	0.2	0.0	0.0	0.0	1.3	0.0	0.2	0.7	0.7	0.9	2.2	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.9	0.4	0.0	0.0	0.0	0.0	0.0	2.2	0.4	0.0	0.9	1.5
15.4	0.9	2.6	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.4	0.7	1.3	0.2	2.2	0.0	0.2	0.0	0.0	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.2	0.0	0.2	0.9	0.2	0.0	0.4	0.4
15.5	0.7	1.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.9	0.7	0.9	0.4	0.0	0.2	0.2	0.0	0.0	0.7	0.2	0.4	0.2	0.0	0.0	0.0	0.0	0.4	1.3	0.4	0.0	0.7	0.9
15.6	0.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.7	0.7	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	1.1	0.0	0.4	0.0	0.0	0.2	0.9	0.4	0.0	0.9	0.9
15.7	0.9	1.5	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.9	0.9	0.7	0.2	1.5	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.2	0.7	0.0	0.2	0.2	1.1	0.2	2.0	0.2	0.0	0.7	0.4
15.8	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.7	0.2	0.2	1.1	0.0	0.0	0.0	0.0	0.9	0.7	0.2	0.4	0.0	0.0	0.0	0.2	0.0	0.0	1.8	0.4	0.0	0.4	0.9
15.9	0.2	2.2	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.2	0.2	0.7	0.2	0.4	0.0	0.0	0.2	0.0	1.1	0.9	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.9	0.2	0.0	0.0	0.2	1.3
16	0.4	2.0	0.2	0.0	0.0	0.0	0.2	0.4	0.2	0.4	0.4	0.4	2.8	2.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7	0.0	0.4	2.2
16.1	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.9	0.7	0.0	0.4	1.1	0.4	2.4	0.0	0.0	0.0	0.0	0.4	0.4	0.2	0.2	0.0	0.0	0.4	0.0	0.0	0.2	1.8	0.7	0.0	0.0	1.5
16.2	1.1	2.8	0.2	0.4	0.0	0.0	0.4	0.2	0.0	0.7	0.7	0.7	2.4	2.6	0.0	0.0	0.2	0.0	0.7	0.4	0.7	0.2	0.9	0.0	0.0	0.0	0.0	0.0	3.3	0.4	0.0	0.0	0.9
16.3	0.4	2.2	0.0	0.2	0.0	0.0	0.2	0.7	0.0	0.9	0.9	0.4	3.9	2.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.7	0.9	0.2	0.0	0.0	0.2

2c. Smoky Hill calcareous nannofossil census data, upper section, part 3 of 5

Column 1: Section Height (m)
Column 2: Micula swastica
Column 3: Micula sp.
Column 4: Munarinus sp.
Column 5: Octocyclus reinhardtii
Column 6: Octolithus sp.
Column 7: Orastrum campanensis
Column 8: Pharus evanescens
Column 9: Placozygus sigmoides
Column 10: Prediscosphaera arkhangelskyi
Column 11: Prediscosphaera cretacea
Column 12: Prediscosphaera grandis
Column 13: Prediscosphaera intercisa
Column 14: Prediscosphaera ponticula
Column 15: Prediscosphaera spinosa
Column 16: Quadrum gartneri
Column 17: Radiolithus planus
Column 18: Radiolithus sp.
Column 19: Reinhardtites anthophorus
Column 20: Reinhardtites clavicaviformis
Column 21: Repagulum parvidentatum
Column 22: Retecapsa angustiforata
Column 23: Retecapsa crenulata
Column 24: Retecapsa ficula
Column 25: Retecapsa schizobrachiata
Column 26: Retecapsa surirella
Column 27: Retemediaformis teneraretis
Column 28: Rhagodiscus angustus
Column 29: Rhagodiscus plebius
Column 30: Rhagodiscus reniformis
Column 31: Rhagodiscus splendens
Column 32: Rotellapillus crenulatus
Column 33: Scapholithus fossilis
Column 34: Seribiscutum primitivum

SectiMicula	Micula	MunarinOctocycOctolitOrastruPharus	PlacozyPrediscPrediscPrediscPrediscPrediscPrediscQuadrumRadioliRadioliReinharReinharRepagulRetecapRetecapRetecapRetecapRetecapRetemedRhagodiRhagodiRhagodiRhagodiRotellaScapholSeribis
0	0.0	0.0 0.4 0.0 0.0 0.0 0.0 0.0 1.1 1.5 4.8 0.0 1.1 0.9 7.5 0.0 0.0 2.2 0.7 0.0 0.7 0.0 0.4 0.0 0.0 0.0 0.7 0.9 0.4 0.2 0.0 0.2 0.0 0.0
1	0.0	0.0 0.2 0.0 0.0 0.0 0.0 0.2 0.7 2.4 8.3 0.0 1.3 1.5 7.0 0.0 0.0 0.4 0.2 0.0 0.7 0.0 0.9 0.0 0.7 0.0 0.0 2.4 0.9 0.0 0.0 1.1 0.9 0.0
2	0.0	0.0 1.3 0.0 0.4 0.0 0.0 0.0 1.1 6.4 0.0 2.0 0.9 8.8 0.0 0.0 0.9 0.4 0.2 0.4 0.9 3.1 0.0 0.2 0.7 0.4 0.7 0.7 0.4 0.2 0.4 0.4 0.0
3	0.0	0.0 0.4 0.0 0.0 0.0 0.0 0.2 0.4 9.0 0.0 1.5 0.4 9.0 0.0 0.0 0.0 0.2 0.0 0.0 0.0 1.1 0.0 0.0 0.0 0.0 0.0 0.0 0.4 1.8 0.4 0.0
4	0.0	0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.7 0.7 3.3 0.2 4.4 0.2 4.2 0.0 0.0 0.2 0.4 0.0 0.9 0.0 0.7 0.0 0.0 0.0 0.0 1.3 0.0 0.4 0.0 0.0 2.2 0.0
5	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.2 1.8 0.2 2.9 0.4 4.7 0.2 0.0 0.2 1.1 0.0 1.6 0.0 1.6 0.2 0.0 0.2 0.0 2.0 0.0 0.4 0.2 0.9 0.4 0.0
6	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.0 3.5 0.2 1.8 0.2 5.7 0.0 0.0 0.0 0.2 0.0 2.0 0.0 3.5 0.4 0.0 0.4 0.0 0.7 0.0 0.2 0.2 0.7 0.7 0.0
7	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.1 0.2 3.3 0.0 1.5 0.2 5.5 0.2 0.0 0.0 0.0 0.0 1.3 0.0 2.2 0.0 0.0 0.7 0.0 0.9 0.0 0.0 0.0 0.2 0.9 0.0
8	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 3.3 0.2 3.5 0.9 4.6 0.2 0.0 0.0 0.7 0.0 1.1 0.0 1.1 0.2 0.0 0.2 0.4 0.7 0.2 0.0 0.2 1.1 0.4 0.0
8.8	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5 0.4 2.4 0.0 2.4 0.7 6.4 0.2 0.0 0.2 0.0 0.0 3.1 0.0 1.1 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.9 1.3 1.3 0.0
8.9	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 2.0 0.2 2.9 0.7 5.7 0.0 0.0 0.0 0.4 0.0 1.1 0.0 1.5 0.2 0.0 0.2 0.0 1.8 0.0 0.4 0.0 0.9 1.8 0.0
9	0.0	0.0 1.8 0.0 0.2 0.0 0.0 0.9 0.2 4.4 0.0 2.2 0.9 3.5 0.2 0.0 0.4 0.2 0.0 1.1 0.0 0.2 0.2 0.0 0.4 0.7 1.3 0.2 0.0 0.9 0.7 0.7 0.0
9.1	0.0	0.0 1.1 0.0 0.2 0.0 0.0 2.2 0.7 6.9 0.2 3.1 1.8 4.9 0.4 0.0 0.0 0.2 0.0 2.0 0.0 0.0 0.0 0.0 0.0 1.8 0.4 0.0 1.1 1.1 0.0 0.0
9.2	0.0	0.0 1.1 0.0 0.0 0.0 0.0 0.0 0.9 3.7 0.7 2.4 1.3 5.5 0.2 0.0 0.2 0.4 0.0 0.7 0.0 0.9 0.0 0.0 0.2 0.0 1.1 0.4 0.4 0.0 0.4 0.4 0.0
9.3	0.0	0.0 0.2 0.0 0.0 0.0 0.0 0.2 0.4 4.8 0.2 3.3 2.2 5.3 0.2 0.0 0.2 0.2 0.0 0.9 0.0 0.9 0.0 0.0 0.2 0.0 1.3 0.0 0.2 0.0 0.2 0.2 0.0
9.4	0.0	0.0 0.4 0.0 0.0 0.0 0.0 0.7 1.3 7.2 0.9 2.8 2.0 2.4 0.4 0.0 0.0 0.2 0.0 0.2 0.0 2.6 0.2 0.0 0.4 0.2 1.3 0.0 0.0 0.4 0.2 0.0 0.0
9.5	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.9 5.5 0.0 2.6 1.5 3.5 0.4 0.0 0.0 0.7 0.0 0.2 0.0 2.2 0.2 0.0 0.2 0.4 1.1 0.2 0.2 0.4 1.1 0.2 0.0
9.6	0.0	0.0 0.2 0.0 0.0 0.0 0.0 1.1 1.5 6.2 0.0 1.1 1.5 3.7 0.2 0.0 0.0 0.0 0.0 1.1 0.0 0.2 0.2 0.0 0.7 0.4 0.9 0.0 0.4 0.4 0.2 1.1 0.0
9.7	0.0	0.0 0.2 0.0 0.2 0.0 0.0 0.4 0.2 4.3 0.2 1.7 2.1 1.1 0.2 0.0 0.0 0.2 0.0 1.1 0.0 1.3 0.0 0.0 0.2 0.0 1.5 0.0 0.2 0.4 1.1 0.4 0.0

9.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0	1.1	0.0	2.6	0.0	1.5	0.9	3.1	0.0	0.0	0.2	0.2	0.0	1.8	0.0	0.7	0.0	0.0	0.2	0.2	1.1	0.0	0.2	0.7	0.7	0.2	0.0
9.9	0.0	0.0	0.4	0.0	0.0	0.0	0.0	1.3	0.7	6.4	0.0	1.1	2.0	3.1	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	0.2	0.0	0.2	0.4	1.8	0.2	0.2	0.0	0.0	0.2	0.0
10	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.9	0.2	3.5	0.0	0.9	1.1	3.9	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.4	0.0	1.5	0.4	0.0	0.0	0.2	0.4	0.0
10.1	0.0	0.0	2.5	0.0	0.2	0.0	0.0	1.1	0.0	3.3	0.0	2.7	0.9	4.2	0.2	0.4	0.0	0.4	0.0	0.7	0.0	2.0	0.0	0.0	0.4	0.0	2.7	0.0	0.2	0.0	1.6	0.9	0.0
10.2	0.0	0.0	0.7	0.0	0.0	0.0	0.2	2.0	0.0	4.1	0.0	1.3	2.4	6.6	0.2	0.0	0.2	0.2	0.0	0.7	0.0	0.4	0.2	0.0	0.2	0.7	1.3	0.0	0.4	0.9	0.4	0.9	0.0
10.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	2.6	0.4	3.7	0.0	0.6	2.2	4.5	0.0	0.0	0.0	0.0	0.0	0.6	0.0	2.4	0.2	0.0	0.6	0.2	1.5	0.0	0.4	0.2	0.6	1.7	0.0
10.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.3	0.4	7.3	0.0	0.4	0.7	1.5	0.0	0.0	0.0	0.7	0.0	1.1	0.0	3.1	0.0	0.0	0.9	0.9	0.2	0.4	0.0	0.7	0.4	1.3	0.0
10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	6.3	0.0	0.4	0.7	3.5	0.2	0.0	0.0	0.0	0.0	2.6	0.0	2.4	0.0	0.0	0.4	0.4	0.7	0.2	0.0	0.4	0.2	0.9	0.0
10.6	0.0	0.0	0.4	0.0	0.2	0.0	0.0	2.2	0.4	5.7	0.2	1.1	1.8	2.2	0.0	0.2	0.0	0.4	0.0	0.4	0.0	0.4	0.2	0.0	0.7	0.0	1.1	0.0	0.2	0.2	0.4	0.2	0.0
10.7	0.0	0.0	0.0	0.2	0.2	0.0	0.0	1.1	0.2	6.1	0.0	1.1	0.9	3.9	0.0	0.2	0.0	0.0	0.0	1.5	0.0	0.9	0.2	0.0	0.0	0.7	0.7	0.0	0.0	0.0	1.1	0.0	0.0
10.8	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.9	7.0	0.2	1.5	1.1	4.8	0.0	0.0	0.2	0.2	0.0	1.5	0.0	0.0	0.0	0.0	0.4	0.7	1.5	0.2	0.4	0.4	1.1	0.7	0.0
10.9	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.7	0.7	6.1	0.0	1.5	2.4	3.3	0.2	0.0	1.1	1.3	0.0	0.9	0.2	1.7	0.0	0.0	0.0	0.9	1.3	0.4	0.0	0.2	1.3	0.2	0.0
11	0.0	0.0	1.1	0.2	0.0	0.0	0.0	0.9	1.3	8.1	0.0	0.4	0.7	3.7	0.2	0.0	0.2	0.4	0.0	1.1	0.2	1.5	0.2	0.0	0.2	0.4	1.8	0.0	0.4	0.4	1.1	0.2	0.0
11.1	0.0	0.2	0.9	0.0	0.0	0.0	0.0	1.7	0.2	6.8	0.0	0.4	1.7	5.9	0.2	0.0	0.0	0.7	0.0	0.7	0.0	2.0	0.2	0.0	0.2	0.0	1.1	0.7	0.0	0.4	0.9	0.9	0.0
11.2	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.7	0.9	6.6	0.2	1.5	1.3	9.9	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.9	0.0	0.0	1.1	0.0	2.4	0.4	0.2	0.2	0.9	1.3	0.0
11.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.7	0.4	6.4	0.2	0.0	0.9	5.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.7	0.0	0.0	1.1	0.4	1.5	0.2	0.4	0.4	0.9	1.3	0.0
11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.4	7.9	0.0	0.9	3.1	5.5	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.9	0.0	0.0	0.9	0.4	0.2	0.0	0.4	0.2	0.7	0.2	0.0
11.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.1	0.2	3.1	0.0	0.4	2.9	5.0	0.0	0.0	0.0	0.7	0.0	0.2	0.0	0.7	0.0	0.0	0.7	0.2	1.8	0.2	0.0	0.0	2.4	1.1	0.0
11.6	0.0	0.0	0.9	0.2	0.2	0.0	0.0	0.4	0.2	6.4	0.4	1.1	2.2	4.4	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.4	0.0	0.0	0.4	0.0	2.2	0.0	0.2	0.2	0.7	0.4	0.2
11.7	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.4	0.4	8.6	0.0	0.7	1.3	4.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.3	0.0	0.0	0.0	0.2	1.3	0.2	0.2	0.2	0.7	1.1	0.0
11.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.7	0.7	7.5	0.0	0.9	2.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	2.2	0.2	0.2	0.4	1.5	0.4	0.0
11.9	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.9	6.8	0.0	0.7	1.3	5.9	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.2	0.7	0.9	0.0	0.2	0.4	1.3	0.7	0.0
12	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.9	1.1	12.3	0.2	0.7	2.4	3.5	0.2	0.0	0.4	0.7	0.0	0.2	0.0	1.1	0.0	0.0	0.4	0.4	0.9	0.0	0.0	0.2	1.5	0.7	0.0
12.1	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.4	7.5	0.0	1.5	0.2	11.9	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.2	1.1	1.3	0.9	0.0	0.4	0.4	0.7	0.0
12.2	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.4	0.4	7.9	0.0	0.7	2.4	7.7	0.4	0.0	0.4	1.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	1.3	0.4	0.2	0.2	1.5	0.2	0.2
12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	6.4	0.0	1.5	1.1	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	1.3	0.2	0.0	0.4	1.8	0.7	0.0
12.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.4	6.4	0.0	1.3	1.5	5.7	0.0	0.0	0.0	0.4	0.0	1.3	0.0	0.0	0.2	0.0	0.0	0.2	1.3	0.7	0.0	0.7	0.2	1.8	0.0
12.5	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.9	0.4	6.6	0.2	0.7	0.9	4.8	0.2	0.0	0.2	0.0	0.0	1.5	0.0	0.9	0.0	0.0	0.7	0.0	0.7	0.0	0.0	0.4	0.7	1.3	0.0
12.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.4	4.8	0.0	0.4	1.1	4.8	0.2	0.0	0.4	0.2	0.0	1.1	0.0	0.7	0.2	0.0	0.2	0.0	2.2	0.2	0.0	0.4	1.3	0.7	0.0
12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.4	8.1	0.2	0.7	2.0	3.3	0.2	0.0	0.4	0.2	0.0	0.2	0.0	2.0	0.0	0.0	2.2	0.2	0.7	0.2	0.0	0.9	0.9	0.9	0.0
12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	7.9	0.0	0.2	1.5	6.4	0.0	0.0	0.4	0.2	0.0	1.1	0.2	0.9	0.0	0.0	0.4	0.4	2.2	0.0	0.0	0.4	0.9	0.2	0.0
12.9	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.4	0.7	6.6	0.0	1.1	1.5	7.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	1.1	0.0	0.0	0.4	0.9	1.8	0.7	0.0	0.4	0.9	0.9	0.0
13	0.0	0.2	1.1	0.0	0.0	0.0	0.0	1.5	0.0	7.9	0.2	0.9	0.7	6.1	0.0	0.0	0.7	0.2	0.0	2.0	0.0	0.7	0.0	0.2	0.2	0.7	0.9	0.2	0.2	0.4	1.3	0.2	0.0
13.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	2.0	0.7	6.8	0.2	0.9	1.8	8.8	0.0	0.0	0.0	0.4	0.0	0.7	0.0	0.4	0.0	0.0	0.4	0.7	1.5	0.4	0.0	0.0	0.7	0.2	0.0
13.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.7	0.9	10.1	0.2	0.4	2.0	4.6	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.9	0.0	0.0	0.4	0.4	0.4	0.0	0.2	0.2	0.7	2.9	0.0
13.3	0.0	0.0	2.4	0.0	0.4	0.0	0.0	0.9	0.0	9.6	0.0	1.1	1.5	6.4	0.0	0.0	0.2	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.4	2.2	0.0	0.0	0.2	1.3	2.6	0.0
13.4	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7	0.4	8.1	0.0	0.0	2.0	4.2	0.0	0.0	0.0	0.4	0.0	0.7	0.0	0.2	0.0	0.0	0.0	1.5	2.9	0.4	0.4	0.2	0.7	1.3	0.0
13.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	6.3	0.2	0.4	1.7	5.3	0.2	0.0	0.2	0.2	0.0	0.6	0.0	0.2	0.0	0.0	0.2	0.6	1.5	0.0	0.0	0.2	0.4	0.8	0.0
13.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.1	0.4	2.2	0.0	1.5	0.7	4.6	0.4	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.4	1.8	0.4	0.0	0.4	0.2	1.3	0.0
13.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	1.8	0.2	3.3	0.0	0.4	1.1	5.0	0.0	0.0	0.0	0.4	0.0	1.1	0.0	1.1	0.0	0.2	0.0	0.4	0.9	0.0	0.2	1.1	0.0	0.4	0.0
13.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.1	0.7	4.8	0.0	0.7	0.2	5.9	0.0	0.0	0.2	0.2	0.2	0.7	0.0	0.4	0.0	0.0	0.0	0.4	1.8	0.0	0.0	0.2	0.7	0.7	0.0
13.9	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.4	0.7	8.8	0.0	0.0	0.9	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	1.3	0.0	0.4	0.7	1.3	2.4	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	6.4	0.2	0.4	2.0	4.2	0.2	0.0	0.9	0.4	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.4	1.5	0.9	0.2	0.9	0.2	0.4	0.0
14.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	1.3	5.0	0.4	0.2	1.8	5.7	0.0	0.0	0.0	0.4	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.0	2.0	0.9	0.0	0.7	1.3	0.9	0.0
14.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.4	3.5	0.4	0.7	0.7	4.8	0.2	0.2	0.0	0.2	0.0	0.4	0.0	0.2	0.0	0.0	0.4	0.2	0.9	0.0	0.2	0.7	0.9	1.3	0.0
14.3	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.2	1.3	5.3	0.2	0.4	0.7	4.8	0.4	0.2	0.2	0.9	0.0	0.7	0.0	0.2	0.0	0.0	0.2	0.9	0.2	0.2	0.0	0.7	0.7	0.4	0.2
14.4	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.7	4.0	0.0	0.7	1.5	5.1	0.0	0.0	0.0	0.2	0.0	1.3	0.0	1.8	0.0	0.0	0.2	0.2	0.4	0.4	0.2	0.4	1.1	1.3	0.0
14.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.9	7.0	0.4	0.4	1.8	2.9	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.7	0.0	0.0	0.2	0.7	0.7	1.3	0.0	0.0	1.3	0.4	0.0
14.6	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.7	0.9	6.8	0.2	0.7	2.0	5.3	0.9	0.0	0.2	0.2	0.0	1.3	0.0	0.4	0.0	0.0	0.2	0.2	3.3	0.0	0.0	0.0	1.5	1.8	0.0
14.7	0.0	0.2	1.1	0.0	0.0	0.0	0.0	0.0	0.9	8.1	0.2	1.1	1.1	9.4	0.4	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.0	1.1	0.4	0.0
14.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	6.6	0.2	1.3	2.2	5.9	0.4	0.0	0.0	1.1	0.0	0.7	0.0	0.2	0.0	0.0	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.0	0.0
14.9	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.2	5.0	0.0	0.9	1.5	7.2	0.4	0.0	0.0	0.2	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.2	0.2	0.7	0.0	0.2	0.2	0.4	0.0
15	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.4	3.1	0.2	1.5	1.5	5.3	0.0	0.0	0.0	0.9	0.0	0.4	0.0	0.4	0.0	0.0	0.2	0.7	0.2	1.1	0.0	0.7	0.4	0.0	0.0
15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.1	6.6	0.0	1.5	1.8	3.3	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.7	0.0	0.0	0.2	0.2	1.8	0.9	0.0	0.4	1.1	0.7	0.0
15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	4.4	0.0	1.1	2.2	5.5	0.2	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.0	0.9	0.7	0.0
15.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	1.3	0.4	5.3	0.0	0.2	2.0	4.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.7	0.7	0.0	0.9	0.2	1.5	0.0
15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	4.6	0.0	0.9	2.9	5.0	0.4	0.0	0.0	0.2	0.0	0.2	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.4	0.4	0.4	0.7	0.2	0.0
15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	7.0	0.0	1.8	1.1	6.8	0.0	0.7	0.2	0.2	0.0	0.7	0.0	0.7	0.0	0.0	0.4	1.1	1.3	0.2	0.4	1.5	0.4	1.1	0.0
15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	9.0	0.2	0.7	3.1	2.6	0.2	0.0	0.0	0.4	0.0	0.4	0.0	0.2	0.0	0.0	0.9	0.7	0.7	0.0	0.2	0.4	0.2	1.8	0.0
15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	6.8	0.0	0.9	3.1	5.3	0.2	0.0	0.2	0.4	0.0	0.9	0.0	0.4	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.2	1.5	0.2	0.0
15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	8.6	0.0	0.9	2.4	6.4	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.7	0.4	0.4	0.0	1.1	0.2	0.0
15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	5.3	0.0	0.0	5.0	3.1	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.7	0.4	0.0	0.0	0.4	0.7	0.0	0.0
16	0.0	0.4	0.0	0.0	0.0	0.0	0.0	2.2	0.7	7.7	0.4	1.1	2.6	4.4	0.0	0.0	0.4	0.9	0.0	0.0	0.0	0.2	0.0	0.0	0.2	1.3	0.9	0.0	0.0	0.7	0.7	0.7	0.0
16.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	1.3	7.2	0.2	2.2	1.8	4.4	0.0	0.0	0.0	0.7	0.0	0.4	0.2	0.9	0.0	0.0	0.2	0.7	0.2	0.4	0.2	0.2	1.3	0.2	0.0
16.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.7	0.2	4.1	0.2	2.6	1.3	3.7	0.4	0.0	0.4	1.3	0.0	0.0	0.0	0.7	0.0	0.0	0.7	0.2	2.0	0.2	0.0	0.2	0.2	0.9	0.0
16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.4	5.5	0.2	0.4	1.5	3.5	0.0	0.0	0.7	0.4	0.0	0.2	0.0	0.4	0.0	0.0	0.2	0.4	0.9	0.7	0.0	0.2	1.8	2.6	0.0

2d. Smoky Hill calcareous nannofossil census data, upper section, part 4 of 5

Column 1: Section Height (m)
Column 2: Sm. P. sigm, Z. erec, etc…
Column 3: Sollasites barringtonensis
Column 4: Sollasites sp.
Column 5: Staurolithites crux
Column 6: Staurolithites dorfii
Column 7: Staurolithites ellipticus
Column 8: Staurolithites imbricatus
Column 9: Staurolithites mielnicensis
Column 10: Staurolithites mitcheneri
Column 11: Staurolithites sp. 1
Column 12: Staurolithites sp. 2
Column 13: Staurolithites zoensis
Column 14: Stoverius asymmetricus
Column 15: Stoverius sp.
Column 16: Stoverius biarcus
Column 17: Stoverius coronatus
Column 18: Stradnerlithus rhombicus
Column 19: Tegumentum stradneri
Column 20: Tetrapodorhabdus copt/dec
Column 21: Thiersteinia ecclesiastica
Column 22: Tortolithus dodekachelyon
Column 23: Tranolithus exiguus
Column 24: Tranolithus gabalus
Column 25: Tranolithus macleodiae
Column 26: Tranolithus manifestus
Column 27: Tranolithus minimus
Column 28: Tranolithus phacelosus
Column 29: Watznaueria barnasae
Column 30: Watznaueria biporta
Column 31: Watznaueria fossicincta
Column 32: Watznaueria ovata
Column 33: Watznaueria quadriradiata
Column 34: Zeug. Pseudanthophorus

Secti	Sm. P.	Sollasi	Sollasi	Staurol	Staurol	Staurol	Staurol	Staurol	Staurol	Staurol	Staurol	Staurol	Stoveri	Stoveri	Stoveri	Stoveri	Stradne	Tegumen	Tetrapo	Thierst	Tortoli	Tranoli	Tranoli	Tranoli	Tranoli	Tranoli	Tranoli	Watznau	Watznau	Watznau	Watznau	Watznau	Zeug.	P	
0	1.5	0.0	0.0	1.3	0.0	0.4	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	2.4	0.2	0.0	0.0	0.7	2.2	0.2	11.0	0.0	0.2	0.0	0.9	0.0
1	1.1	0.0	0.0	1.1	0.0	1.3	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.4	0.0	0.0	2.0	0.0	0.0	0.0	0.4	2.0	0.4	9.0	0.0	0.0	0.2	0.2	0.0
2	1.8	0.0	0.0	0.9	0.2	2.0	0.7	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.4	0.0	0.0	1.5	0.4	0.2	0.4	1.5	0.7	14.5	0.0	0.0	0.4	0.0	2.9	0.0
3	1.5	0.0	0.0	2.2	0.0	1.5	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.2	1.1	0.0	11.2	0.0	0.4	0.4	0.0	0.0
4	0.0	0.0	0.0	2.0	0.0	4.9	0.7	0.0	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.0	0.0	2.9	0.9	6.0	0.2	0.2	0.0	0.4	0.0
5	0.0	0.0	0.0	1.6	0.0	0.9	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.2	0.4	0.0	0.0	0.0	1.6	0.2	0.0	0.0	0.0	2.7	0.7	16.6	0.0	0.2	0.4	1.1	0.0
6	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0

8.8	0.0	0.0	0.0	0.2	0.0	2.9	0.0	0.0	0.0	0.2	0.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	1.1	0.0	0.0	0.0	1.8	0.4	14.3	0.0	0.2	0.4	2.6	0.0
8.9	0.0	0.0	0.0	1.5	0.0	2.4	0.4	0.0	0.0	0.9	1.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	1.5	0.2	0.0	0.0	1.3	0.4	16.0	0.0	0.7	0.2	1.5	0.0
9	0.0	0.0	0.0	0.9	0.0	2.0	0.0	0.0	0.0	0.7	1.1	0.2	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.2	2.2	0.4	9.2	0.2	0.2	0.0	3.9	0.0
9.1	0.0	0.0	0.0	0.4	0.0	1.6	0.2	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.2	1.6	1.3	11.1	0.0	0.2	0.0	1.1	0.0
9.2	0.0	0.0	0.0	0.7	0.0	2.4	0.2	0.0	0.0	0.9	0.9	0.0	0.0	0.7	0.9	2.0	0.0	0.0	0.2	0.0	0.0	1.8	0.0	0.0	0.0	0.9	0.9	20.6	0.0	0.9	0.4	5.0	0.0
9.3	0.0	0.0	0.0	0.7	0.0	4.4	0.0	0.0	0.0	0.9	1.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.9	0.2	20.8	0.2	0.7	0.0	2.4	0.0
9.4	0.0	0.0	0.0	0.4	0.0	3.1	0.0	0.0	0.0	0.7	0.9	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	2.2	0.0	0.0	0.2	0.0	0.9	14.9	0.0	1.1	0.0	2.8	0.0
9.5	0.0	0.0	0.0	0.4	0.0	5.7	0.0	0.0	0.0	1.1	2.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.2	0.2	0.9	15.1	0.0	1.3	0.2	5.5	0.0
9.6	0.0	0.0	0.0	0.2	0.0	2.6	0.0	0.0	0.0	0.7	1.1	0.4	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	4.2	0.0	0.0	0.4	0.4	0.4	17.4	0.2	0.4	0.2	2.4	0.0
9.7	0.0	0.0	0.0	0.4	0.0	3.2	0.0	0.0	0.0	1.3	1.3	0.2	0.0	0.0	0.2	0.4	0.0	0.4	0.2	0.0	0.0	3.4	0.0	0.0	0.2	0.9	0.2	18.6	0.2	1.3	0.2	2.4	0.0
9.8	0.0	0.2	0.0	0.4	0.0	4.8	0.2	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.2	3.3	0.0	11.6	0.2	1.1	0.2	3.9	0.0
9.9	0.0	0.0	0.2	0.2	0.0	6.2	0.2	0.0	0.0	0.7	1.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	2.9	0.2	0.0	0.2	1.1	0.0	14.1	0.0	0.9	0.0	1.8	0.0
10	0.0	0.0	0.0	0.9	0.0	5.2	0.2	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	2.6	0.0	0.0	0.2	1.3	0.2	12.7	0.2	0.2	0.0	3.7	0.0
10.1	0.0	0.0	0.0	0.4	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.2	0.7	0.0	11.4	0.0	0.9	0.2	4.5	0.0
10.2	0.0	0.0	0.0	0.4	0.0	5.5	0.4	0.0	0.0	0.2	0.9	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.4	0.2	11.4	0.0	0.7	0.2	4.1	0.0
10.3	0.0	0.0	0.0	0.2	0.0	4.1	0.2	0.0	0.0	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.6	0.2	0.2	0.4	0.2	13.5	0.0	0.4	0.0	2.2	0.0
10.4	2.0	0.0	0.2	0.0	0.0	2.2	0.4	0.0	0.0	0.4	0.4	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.5	0.2	0.0	0.9	2.4	0.4	17.4	0.0	0.4	0.4	2.0	0.0
10.5	2.8	0.0	0.0	0.0	0.0	5.5	0.4	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.0	2.2	0.4	12.9	0.0	0.9	0.0	2.6	0.0
10.6	1.8	0.2	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.2	0.4	0.0	0.4	0.4	0.2	1.3	0.0	0.0	0.2	0.0	0.0	1.5	0.0	0.0	0.0	2.9	1.1	15.6	0.0	0.2	0.0	1.8	0.0
10.7	5.9	0.2	0.0	0.0	0.0	2.6	0.4	0.0	0.0	0.0	0.7	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.1	0.0	0.0	0.7	1.7	0.9	9.6	0.0	1.1	0.2	0.9	0.0
10.8	1.1	0.0	0.0	0.2	0.0	6.1	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.2	0.0	0.2	1.8	0.4	12.9	0.0	0.4	0.2	2.4	0.0
10.9	2.2	0.0	0.0	0.2	0.0	5.9	0.2	0.0	0.0	0.0	0.9	0.2	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	2.4	0.7	0.0	0.0	0.9	0.4	10.0	0.0	0.0	0.2	2.8	0.0
11	1.1	0.0	0.0	0.2	0.0	3.5	0.4	0.0	0.0	0.2	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.2	0.0	0.0	1.8	0.9	15.6	0.0	0.9	0.2	2.2	0.0
11.1	2.2	0.0	0.0	0.2	0.0	4.1	0.2	0.0	0.0	0.7	1.1	0.0	0.4	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.2	0.9	0.0	13.1	0.0	0.9	0.0	2.2	0.0
11.2	2.2	0.4	0.0	0.2	0.0	2.9	0.0	0.0	0.7	0.0	0.4	0.2	0.2	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	1.1	0.0	0.0	0.2	0.9	0.2	11.9	0.2	0.0	0.0	3.5	0.0
11.3	3.7	0.4	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.2	0.0	1.1	0.2	0.0	0.0	1.8	0.2	10.7	0.0	0.2	0.0	2.4	0.0
11.4	1.1	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.2	0.4	0.4	0.4	0.0	0.0	0.2	0.0	0.0	0.2	0.2	0.0	0.0	1.5	0.2	0.0	0.2	5.5	0.2	9.8	0.0	0.0	0.0	4.1	0.0
11.5	5.0	0.2	0.2	1.3	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.2	0.7	0.2	0.0	0.2	0.0	0.4	0.2	0.0	0.0	2.0	0.0	0.0	0.0	5.0	0.4	6.6	0.0	0.0	0.0	2.0	0.0
11.6	4.6	0.2	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.0	2.0	0.0	0.0	0.4	3.3	0.2	7.0	0.2	0.2	0.0	1.5	0.0
11.7	3.1	0.0	0.0	0.4	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	3.1	0.2	0.4	0.7	2.4	0.4	9.9	0.0	0.0	0.2	3.3	0.0
11.8	1.8	0.0	0.0	0.4	0.0	0.9	0.2	0.0	0.0	0.0	0.2	0.2	0.4	0.0	0.4	0.2	0.0	0.0	0.2	0.0	0.0	1.3	0.7	0.0	0.0	2.2	0.2	7.7	0.0	0.2	0.0	3.3	0.0
11.9	2.8	0.2	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.2	0.2	0.4	0.0	0.0	0.0	0.0	0.0	2.8	0.4	0.0	0.0	0.7	0.0	9.0	0.0	0.4	0.0	1.3	0.0
12	1.1	0.2	0.0	0.4	0.0	0.9	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.2	0.0	1.8	0.0	0.0	0.0	0.4	0.9	10.7	0.2	0.9	0.0	2.6	0.0
12.1	1.5	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.4	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	1.8	0.2	0.0	0.7	1.1	0.7	7.7	0.0	0.4	0.0	0.0	0.0
12.2	0.4	0.4	0.0	0.7	0.0	0.2	0.2	0.0	0.0	0.4	0.0	0.4	0.0	1.3	0.0	0.7	0.0	0.2	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.4	0.4	16.1	0.2	0.0	0.0	3.3	0.2
12.3	6.6	0.9	0.0	0.7	0.0	0.7	0.4	0.0	0.0	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	3.7	0.0	0.2	0.0	0.4	0.4	8.8	0.0	0.4	0.7	2.9	0.0
12.4	4.4	0.2	0.0	0.2	0.0	0.9	0.2	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	2.6	0.0	0.0	0.2	1.3	0.7	9.6	0.2	0.0	0.9	3.3	0.0
12.5	1.1	0.7	0.0	1.3	0.0	1.3	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2.4	0.7	0.0	0.9	2.4	0.4	8.6	0.0	0.7	0.2	1.8	0.0
12.6	1.5	0.0	0.0	0.9	0.0	1.3	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.2	0.7	0.2	0.9	0.0	5.9	0.2	0.2	0.0	2.0	0.0
12.7	1.5	0.2	0.0	0.4	0.0	0.4	0.0	0.0	0.4	0.0	0.2	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	1.3	0.0	0.0	0.4	1.3	0.7	9.4	0.2	0.2	0.0	2.4	0.0
12.8	6.0	0.7	0.0	0.9	0.0	1.1	0.2	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.2	0.0	0.0	4.4	0.2	0.0	0.4	1.5	1.1	5.3	0.4	0.2	0.0	4.4	0.0
12.9	1.3	0.9	0.0	0.4	0.0	0.4	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.0	0.4	0.0	0.2	0.2	0.0	0.0	3.5	0.2	0.0	0.2	0.2	0.4	8.3	0.0	0.4	0.0	2.9	0.0
13	0.9	0.4	0.0	0.4	0.0	1.5	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.7	0.0	2.2	0.2	0.2	0.2	0.2	0.4	5.9	0.2	0.9	0.0	1.5	0.0
13.1	0.7	0.0	0.0	0.2	0.0	0.2	0.7	0.0	0.2	0.0	0.2	0.2	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.9	0.0	0.0	0.0	1.1	0.0	4.4	0.0	0.4	0.0	1.3	0.0
13.2	1.5	0.0	0.0	0.9	0.0	1.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.4	0.0	0.7	0.7	10.3	0.2	0.0	0.4	4.6	0.0
13.3	3.3	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	1.3	1.3	7.5	0.0	0.2	0.0	2.4	0.0
13.4	1.1	0.2	0.0	0.0	0.0	2.6	0.4	0.0	0.0	0.2	0.7	0.2	0.0	0.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.8	0.0	0.0	0.0	2.2	1.1	9.4	0.0	0.7	0.0	1.5	0.0
13.5	0.4	0.4	0.0	0.6	0.0	1.1	0.0	0.0	0.4	0.0	0.6	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.2	2.7	0.8	11.6	0.4	0.2	0.0	4.4	0.0
13.6	2.6	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.4	0.0	0.9	0.2	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.2	1.3	0.9	9.0	0.0	0.4	0.2	1.1	0.0
13.7	0.7	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.7	0.9	11.8	0.4	0.0	0.2	2.4	0.0
13.8	2.4	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.4	0.9	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.7	0.9	0.7	5.0	0.4	0.2	0.0	1.3	0.0
13.9	2.9	0.7	0.2	0.7	0.0	0.7	0.2	0.0	0.0	0.0	0.4	0.2	0.2	0.2	0.0	0.2	0.0	0.4	0.0	0.0	0.0	1.5	0.2	0.2	0.7	0.9	1.5	9.2	0.0	0.2	0.0	1.5	0.0
14	1.1	0.0	0.0	1.1	0.0	0.4	0.2	0.0	0.2	0.0	0.4	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.2	0.0	2.4	0.2	0.0	0.0	2.0	0.4	11.2	0.2	0.4	0.2	3.7	0.0
14.1	3.1	0.0	0.0	0.4	0.0	0.2	0.2	0.0	0.4	0.0	0.4	0.0	0.2	0.4	0.0	0.4	0.0	0.4	0.0	0.2	0.2	1.8	0.2	0.4	0.2	3.1	0.9	10.3	0.0	1.1	0.7	2.9	0.0
14.2	5.3	0.7	0.0	1.3	0.0	0.0	0.2	0.0	0.4	0.2	1.1	0.7	0.4	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	1.5	0.0	0.0	0.4	1.8	0.9	7.9	0.0	0.2	0.0	2.0	0.0
14.3	4.2	0.0	0.0	1.1	0.0	0.2	0.4	0.0	0.2	0.0	0.4	0.4	0.9	0.4	0.0	0.4	0.0	0.4	0.2	0.0	0.0	1.8	0.0	0.0	0.0	0.9	1.3	9.2	0.0	0.0	0.4	0.7	0.0
14.4	2.9	0.2	0.0	0.4	0.0	0.2	0.2	0.0	0.0	0.2	0.7	0.7	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	1.8	0.0	0.0	0.2	1.8	0.9	7.0	0.0	0.2	0.2	1.1	0.0
14.5	1.3	0.4	0.0	0.4	0.0	1.3	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.2	0.0	0.4	0.0	0.4	0.0	0.9	0.2	0.0	0.0	0.9	0.4	9.0	0.2	0.4	0.0	0.7	0.0
14.6	1.5	0.7	0.0	0.7	0.0	0.4	0.2	0.0	0.4	0.0	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.9	0.2	7.0	0.0	0.4	0.4	0.4	0.0
14.7	1.5	0.0	0.0	0.2	0.0	0.9	0.4	0.0	0.2	0.4	0.2	0.0	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	1.5	0.2	0.0	0.0	1.1	0.4	14.2	0.0	0.2	0.7	0.4	0.0
14.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.2	0.2	0.7	21.4	0.0	0.7	0.7	0.0	0.0
14.9	0.7	0.0	0.0	0.9	0.0	0.4	0.0	0.0	0.0	0.4	0.7	0.4	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.7	0.4	16.4	0.0	0.2	0.9	0.0	0.0
15	0.2	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.4	0.2	25.3	0.4	0.7	0.9	0.0	0.0
15.1	2.6	0.0	0.0	1.3	0.0	0.0	0.4	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	1.3	0.0	0.2	15.1	0.7	0.4	0.4	0.0	0.0
15.2	1.3	0.0	0.0	1.1	0.0	0.2	0.2	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.0	0.2	1.8	0.0	0.2	0.9	1.3	0.4	18.2	0.2	0.4	0.4	0.9	0.0
15.3	1.5	0.2	0.0	0.2	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.2	0.7	1.5	0.2	13.2	0.0	0.0	0.0	0.9	0.0
15.4	0.9	0.2	0.0	0.7	0.0	2.2	0.4	0.0	0.2	0.4	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.4	0.4	0.4	13.8	0.4	0.4	0.0	0.0	0.0
15.5	2.4	0.0	0.0	0.2	0.0	0.7	0.2	0.0	0.0	0.7	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.2	1.1	0.2	8.1	0.2	0.0	0.2	0.0	0.0
15.6	1.1	0.0	0.0	0.9	0.0	0.7	0.0	0.0	0.2	0.0	0.7	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.9	12.1	0.4	0.0	0.2	0.2	0.0
15.7	0.0	0.2	0.0	0.9	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.4	0.4	0.2	9.7	0.0	0.2	0.7	0.2	0.0
15.8	1.8	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.7	0.0	0.0	0.0	0.2	0.0	10.4	0.0	0.0	0.2	0.4	0.0
15.9	1.5	0.0	0.0	0.4	0.0	0.7	0.0	0.0	0.2	0.4	0.2	0.2	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.9	0.0	17.8	0.4	0.9	0.2	0.2	0.0
16	2.2	0.0	0.0	0.7	0.0	1.3	0.2	0.0	0.0	0.4	0.0	0.2	0.2	0.4	0.2	0.2	0.0	0.2	0.0	0.0	0.0	1.8	0.4	0.2	0.9	0.2	0.4	13.8	0.2	1.3	0.0	0.7	0.0
16.1	1.1	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.4	0.2	1.3	0.0	0.9	0.0	0.2	0.0	0.0	0.2	1.5	0.2	0.0	0.9	0.9	0.2	12.3	1.1	2.0	1.3	0.0	0.2
16.2	2.8	0.0	0.0	0.2	0.0	0.7	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.4	0.0	2.0	0.2	0.2	0.4	2.2	0.0	9.2	0.0	0.2	0.9	0.2	0.0
16.3	0.7	0.0	0.0	0.9	0.0	0.7	1.1	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.7	0.0	0.2	0.0	0.4	0.0	0.9	0.0	0.0	0.7	0.7	0.4	11.6	0.4	1.1	0.0	0.2	0.0

2e. Smoky Hill calcareous nannofossil census data, upper section, part 5 of 5

Column 1: Section Height (m)
Column 2: Zeugrhabdotus diplogrammus
Column 3: Zeugrhabdotus erectus
Column 4: Zeug. pseudanthophorus
Column 5: Zeugrhabdotus scutula
Column 6: Zeugrhabdotus spiralis
Column 7: Zeugrhabdotus trivectus
Column 8: Zeugrhabdotus wynnhayi
Column 9: Helicolithus varolii

SectiZeugrhaZeugrhaZeugrhaZeugrhaZeugrhaZeug

0	0.0	9.2	2.2	0.0	0.0	0.0	0.2
1	0.7	13.8	0.9	0.0	0.2	0.0	0.0
2	0.2	4.6	0.9	0.4	0.2	0.0	0.0
3	0.2	11.2	2.6	0.0	0.0	0.0	0.0
4	0.2	9.6	1.6	0.9	0.0	0.0	0.0
5	1.1	6.1	2.2	0.4	0.4	0.0	0.0
6	0.7	9.3	0.2	0.4	0.0	0.0	0.0
7	0.7	7.0	2.4	0.4	0.2	0.0	0.0
8	0.4	8.1	0.2	0.4	0.0	0.0	0.0
8.8	0.7	9.6	0.7	0.9	0.0	0.0	0.2
8.9	0.2	8.1	0.0	0.9	0.2	0.0	0.0
9	0.7	14.0	0.4	0.7	0.2	0.0	0.0
9.1	0.7	9.8	0.0	0.7	0.0	0.0	0.0
9.2	0.9	5.7	0.4	0.9	0.0	0.0	0.0
9.3	0.0	3.1	0.0	1.3	0.4	0.0	0.0
9.4	0.7	6.6	0.7	0.2	1.3	0.0	0.0
9.5	0.2	4.6	1.3	0.7	0.2	0.0	0.4
9.6	0.0	4.8	0.9	0.7	0.0	0.0	0.0
9.7	0.0	7.5	0.4	2.6	0.2	0.0	0.0
9.8	0.2	11.2	0.4	2.2	0.0	0.0	0.0
9.9	0.2	7.5	0.4	2.4	0.7	0.0	0.0
10	0.0	10.0	0.2	2.8	0.2	0.0	0.0
10.1	0.2	7.4	0.0	2.9	0.0	0.0	0.0
10.2	0.0	6.3	0.2	2.2	0.2	0.0	0.0
10.3	0.6	9.5	0.4	1.3	0.0	0.0	0.0
10.4	0.7	9.0	0.0	2.9	0.2	0.0	0.0
10.5	0.2	10.1	0.4	1.8	0.4	0.0	0.0
10.6	0.2	9.0	0.4	1.1	0.0	0.0	0.0
10.7	0.0	15.3	0.4	2.2	0.2	0.7	0.0
10.8	0.2	6.6	0.7	1.8	0.0	0.2	0.0
10.9	0.0	9.2	0.0	0.4	0.0	0.0	0.0
11	0.2	7.7	0.0	1.8	0.4	0.0	0.0
11.1	0.0	10.9	0.0	1.7	0.2	0.0	0.0
11.2	0.2	7.0	0.0	0.4	0.0	0.0	0.0
11.3	0.4	10.3	0.7	2.0	0.2	0.0	0.0
11.4	0.2	9.0	1.1	1.1	0.0	0.0	0.0
11.5	0.2	8.6	1.1	0.7	0.2	0.0	0.0
11.6	0.2	6.8	2.0	0.7	0.2	0.2	0.0
11.7	0.0	8.6	0.9	1.8	0.0	0.2	0.0
11.8	0.2	10.7	2.9	2.4	0.2	0.0	0.0
11.9	0.9	19.0	0.9	1.5	0.2	0.0	0.0
12	0.2	12.3	1.1	2.4	0.2	0.2	0.0
12.1	0.7	13.8	0.0	1.1	0.2	0.2	0.0
12.2	0.2	6.2	0.2	0.9	0.4	0.9	0.0
12.3	0.0	14.9	0.2	2.0	0.2	0.0	0.0
12.4	0.0	13.6	0.4	1.8	0.0	0.2	0.0
12.5	0.7	12.7	0.0	2.0	0.2	0.0	0.0
12.6	0.2	23.0	1.8	0.9	0.2	0.0	0.0
12.7	0.7	12.1	9.2	1.1	0.2	0.2	0.0
12.8	0.2	16.1	0.0	0.4	0.0	0.2	0.0
12.9	0.4	23.9	0.4	0.9	0.0	0.0	0.0
13	0.0	17.2	0.4	5.9	0.0	0.2	0.0
13.1	0.2	16.4	0.0	4.6	0.0	0.0	0.0
13.2	0.0	5.7	4.2	0.2	0.4	0.2	0.0
13.3	0.0	7.5	6.6	1.8	0.2	0.0	0.0
13.4	0.0	9.6	5.0	0.4	0.0	0.2	0.0
13.5	0.4	10.1	9.5	0.6	0.0	0.2	0.0
13.6	0.4	10.5	20.0	0.2	0.0	0.2	0.0
13.7	0.0	9.2	11.2	0.2	0.0	0.2	0.0
13.8	0.2	7.2	20.8	0.2	0.4	0.0	0.0
13.9	0.0	9.9	6.2	0.4	0.0	0.2	0.0
14	0.4	7.9	5.1	1.3	0.2	0.0	0.0
14.1	0.2	11.0	3.9	0.4	0.0	0.0	0.0
14.2	0.2	13.8	2.4	0.4	0.0	0.0	0.0
14.3	0.2	5.0	9.9	0.9	0.0	0.0	0.0
14.4	0.0	14.3	7.9	0.4	0.0	0.0	0.0
14.5	0.0	7.9	12.1	1.5	0.0	0.0	0.0
14.6	0.2	14.3	5.9	0.4	0.0	0.0	0.0
14.7	0.2	10.1	0.4	0.9	0.0	0.0	0.0
14.8	0.4	9.9	8.6	0.0	0.2	0.0	0.0
14.9	0.0	14.4	12.3	0.0	0.0	0.0	0.0
15	0.4	7.0	0.4	0.2	0.2	0.0	0.0
15.1	0.0	11.8	0.2	1.1	0.0	0.0	0.0
15.2	0.2	15.8	3.9	0.4	0.0	0.0	0.0
15.3	0.2	13.6	2.2	0.2	0.0	0.0	0.0
15.4	0.2	9.2	6.1	0.7	0.2	0.4	0.2
15.5	0.0	10.3	6.6	1.5	0.4	0.0	0.0
15.6	0.2	11.8	9.0	0.7	0.0	0.2	0.0
15.7	0.2	13.2	16.5	0.0	0.0	0.0	0.0
15.8	0.0	14.3	16.3	0.7	0.0	0.0	0.0
15.9	0.0	11.0	14.9	0.2	0.0	0.0	0.0
16	0.4	6.6	9.0	0.4	0.0	0.0	0.0
16.1	0.0	8.6	13.2	0.0	0.0	0.2	0.0
16.2	0.2	6.5	9.4	1.5	0.0	0.0	0.2
16.3	0.2	5.5	8.8	1.8	0.2	0.4	0.0

2f. Smoky Hill calcareous nannofossil census data, lower section, part 1 of 5

Column 1: Section Height (m)
Column 2: Ahmuellerella octoradiata
Column 3: Amphizygus brooksii
Column 4: Amphizygus oculomammutus
Column 12: Biscutum notaculum
Column 13: Biscutum zulloi
Column 14: Braarudosphaera bigelowii
Column 15: Broinsonia matalosa
Column 23: Corollithion exiguum
Column 24: Corollithion madagascarensis
Column 25: Corollithion signum
Column 26: Cretarhadus conicus

Column 5: Arkhangelskiella confusa
Column 6: Arkhangelskiella cymbiformis
Column 7: Axopodorhabdid sp.
Column 8: Biscutum blacki
Column 9: Biscutum constans
Column 10: Biscutum dissimilis
Column 11: Biscutum hattneri
Column 16: Broinsonia signata
Column 17: Bukrylithus ambiguus
Column 18: Calculites obscurus
Column 19: Calculites ovalis
Column 20: Chiastozygus amphipons
Column 21: Chiastozygus litterarius
Column 22: Corrollithion ellipticum
Column 27: Cribrosphaera circula
Column 28: Cribrosphaerella ehrenbergii
Column 29: Cribrosphaerella pelta
Column 30: Cyclogelosphaera margharelli
Column 31: Cyclogelosphaera rotaclypeata
Column 32: Cylindralithus nudus
Column 33: Discorhabdus ignotus
Column 34: Eiffellithus eximius

Secti	Ahmuell	Amphizy	Amphizy	Arkhang	Arkhang	Axopodo	Biscutu	Biscutu	Biscutu	Biscutu	Biscutu	Biscutu	Braarud	Broinso	Broinso	Bukryli	Calculi	Calculi	Chiasto	Chiasto	Corroll	Corolli	Corolli	Corolli	Cretarh	Cribros	Cribros	Cribros	Cycloge	Cycloge	Cylindr	Discorh	Eiffel	l
16.4	0.7	0.0	0.2	0.0	0.0	0.0	0.0	7.4	0.0	0.9	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.7	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	2.6
16.5	0.0	0.0	0.0	0.7	0.0	0.0	0.5	5.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	3.8	0.0	0.0	0.2	0.0	0.7	0.0	0.0	3.1	1.7
16.6	0.7	0.0	0.0	0.4	0.0	0.2	0.2	5.5	0.0	4.6	0.0	0.9	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	2.0	0.2	0.0	0.4	0.0	0.0	0.0	0.2	2.0	0.0	0.0	2.2	2.2
16.7	0.5	0.0	0.0	0.2	0.0	0.0	0.2	6.5	0.2	3.1	0.0	0.5	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.2	1.9	0.0	0.5	0.0	0.0	0.0	0.7	0.0	1.2	0.0	0.0	3.8	1.4
16.8	0.0	0.7	0.2	0.0	0.0	0.2	0.2	4.2	0.0	2.0	0.0	0.2	0.0	0.0	0.7	0.0	0.0	0.0	0.2	0.2	0.4	0.2	0.0	1.3	0.0	0.0	0.2	0.4	1.8	0.0	0.0	3.5	4.4
16.9	0.0	0.0	0.0	0.0	0.0	0.4	0.2	4.1	0.0	2.0	0.0	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.4	0.0	0.0	1.7	0.0	0.0	0.2	0.4	2.0	0.0	0.2	1.7	3.9
17	0.7	0.2	0.0	0.0	0.0	0.2	0.4	6.8	0.0	0.9	0.2	0.7	0.0	0.0	0.7	0.7	0.0	0.2	0.2	0.4	0.7	0.4	0.0	0.4	0.0	0.0	0.2	0.4	2.4	0.0	0.0	3.1	1.5
17.1	1.1	0.0	0.0	0.4	0.0	0.0	0.7	6.1	0.0	1.1	0.0	1.3	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	1.1	0.0	0.2	1.5	1.5
17.2	0.9	0.2	0.0	0.2	0.0	0.4	0.4	5.0	0.0	0.7	0.0	1.1	0.0	0.0	0.2	0.0	0.0	0.0	0.9	0.7	0.0	0.4	0.0	0.0	0.0	0.2	0.7	0.9	1.5	0.0	0.2	1.5	1.1
17.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	1.8	0.0	0.4	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.0	0.2	0.2	0.0	0.4	0.0	0.0	0.0	0.4	3.7	0.0	0.0	4.6	1.8
17.4	0.2	0.2	0.0	0.2	0.0	0.2	0.0	2.6	0.0	0.4	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.7	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.3	0.0	0.2	0.9	3.3
17.5	0.7	0.0	0.0	0.4	0.0	0.0	0.0	7.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.2	0.0	0.4	0.0	0.0	0.2	0.0	0.2	0.0	0.0	2.2	1.3
17.6	0.4	0.0	0.0	0.2	0.0	0.0	0.0	8.4	0.0	3.3	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.2	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	2.6	1.5
17.7	1.1	0.0	1.5	0.0	0.0	0.2	0.9	13.0	0.0	2.1	0.0	1.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.4	0.0	0.2	0.9	0.0	1.5	0.0	0.0	4.7	2.3
17.8	0.0	0.2	0.0	0.0	0.0	0.2	0.0	10.1	0.0	2.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4	0.2	0.0	0.0	0.0	0.4	0.4	0.2	0.7	0.0	0.2	2.4	1.5
17.9	0.2	0.2	0.0	0.0	0.0	0.0	0.7	8.8	0.0	3.7	0.0	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.2	0.2	0.9	0.7	0.0	0.0	0.0	0.0	0.2	0.2	1.1	0.0	0.0	5.5	0.9
18	0.2	0.2	0.0	0.2	0.0	0.0	0.0	7.9	0.0	4.4	0.2	1.8	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.4	1.1	0.0	0.0	1.8	1.8
18.1	0.2	0.4	0.0	0.0	0.0	0.0	0.4	6.3	0.0	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0	3.1	2.0
18.2	1.3	0.2	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.7	0.0	1.1	0.7	0.0	0.2	0.0	0.4	0.2	0.2	0.2	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.7	2.0
18.3	0.9	0.0	0.0	0.2	0.0	0.0	0.2	5.8	0.0	0.9	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.4	0.9	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.1	2.8
18.4	0.2	0.9	0.0	0.0	0.0	0.0	0.0	10.6	0.0	2.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.2	4.0	2.2
18.5	0.2	0.2	0.0	0.4	0.0	0.0	0.2	14.7	0.0	2.9	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.7	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.8	1.5
18.7	0.7	0.0	0.2	0.0	0.0	0.0	0.4	6.1	0.0	0.4	0.0	1.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.2	0.0	1.3	0.0	0.0	0.0	0.4	0.7	0.0	0.0	2.6	0.7
18.8	0.4	0.2	0.2	0.0	0.0	0.0	0.2	6.1	0.0	1.5	0.0	1.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.7	0.2	0.0	0.4	0.0	0.0	0.9	0.0	0.2	0.2	0.0	3.9	0.9
18.9	0.9	0.4	0.2	0.0	0.0	0.2	0.2	8.1	0.2	0.7	0.0	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	2.4	0.0	0.0	0.2	0.0	0.9	0.0	0.0	3.3	1.5
19	0.7	0.2	0.9	0.0	0.0	0.0	0.4	7.2	0.0	0.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.2	0.2	3.1	1.3
19.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.9	0.0	0.4	0.0	3.1	0.0	0.0	0.0	0.2	0.9	0.0	0.0	5.5	3.3
19.2	0.2	0.7	0.0	0.0	0.0	0.4	1.8	6.6	0.0	0.7	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.2	4.0	0.0	0.2	0.0	0.2	1.1	0.0	0.0	2.2	2.4
19.3	0.7	0.0	0.0	0.2	0.0	0.0	0.7	13.6	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	3.3	0.0	0.0	0.2	0.2	0.9	0.0	0.0	4.2	1.1
19.4	0.7	0.9	0.0	0.0	0.0	0.0	0.2	9.6	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.4	0.0	0.2	0.0	0.0	1.8	1.1
19.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	1.1	0.2	2.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	1.5	0.0	0.0	0.0	0.4	1.1	0.2	0.0	3.3	1.1
19.6	0.4	0.2	0.0	0.0	0.0	0.0	0.4	7.7	0.0	1.8	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.2	2.9	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.9	0.9
19.7	1.1	0.4	0.0	0.2	0.0	0.0	0.2	6.6	0.0	0.0	0.0	2.2	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	1.1	0.2	0.0	0.9	0.0	0.0	0.0	0.2	0.9	0.0	0.2	2.2	1.8
19.8	0.9	0.4	0.0	0.2	0.0	0.0	0.2	12.3	0.0	0.0	0.4	1.5	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.4	0.0	0.4	0.0	0.0	0.2	0.0	1.1	0.0	0.0	6.3	2.8
19.9	0.9	0.2	0.0	0.0	0.0	0.0	0.4	8.7	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.0	0.0	1.1	0.0	0.0	0.2	0.0	0.2	0.0	0.0	2.4	4.8
20	0.2	0.2	0.2	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	3.7	3.1
20.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.4	0.4	0.0	8.5	0.0	0.0	0.2	0.0	1.1	0.0	0.0	2.2	1.3
20.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.0	3.5	0.0	0.0	0.4	0.0	1.1	0.0	0.4	2.2	2.2
20.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	15.6	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.9	0.0	0.0	4.2	0.0	0.0	0.7	0.0	0.9	0.0	0.2	2.6	1.5
20.4	0.2	0.0	0.0	0.0	0.0	0.0	0.2	18.7	0.0	0.0	0.0	2.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.8	0.0	0.0	0.2	0.0	0.9	0.0	0.0	1.8	3.5
20.5	0.9	0.4	0.0	0.0	0.0	0.2	0.4	19.9	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.2	0.0	0.0	0.0	0.7	0.2	1.1	0.0	0.0	3.9	0.4
20.6	0.7	0.2	0.2	0.0	0.0	0.0	0.0	11.8	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.2	0.9	0.7	1.1	0.0	0.0	0.0	0.2	0.9	0.0	0.0	5.7	3.7
20.7	0.7	0.0	0.2	0.0	0.0	0.0	0.4	9.8	0.0	0.0	0.0	1.5	0.2	0.0	0.2	0.0	0.0	1.3	0.2	0.4	1.3	1.1	0.0	0.4	0.0	0.0	1.1	0.0	0.4	0.0	0.0	4.6	1.8
20.8	0.9	0.0	0.2	0.0	0.0	0.0	0.0	10.5	0.0	0.4	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.9	0.0	4.4	0.0	0.0	0.4	0.2	0.7	0.0	0.0	6.4	0.4
20.9	1.1	0.0	0.0	0.0	0.0	0.0	0.2	4.8	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.4	0.0	0.4	0.9	0.0	0.0	0.2	0.0	0.7	0.0	0.2	2.2	1.5
21	0.9	0.4	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.2	0.0	1.3	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.2	0.2	0.0	0.4	2.4	0.0	0.0	0.4	0.4	1.1	0.0	0.0	2.4	3.3
21.1	0.9	0.0	0.0	0.2	0.0	0.4	0.4	13.2	0.0	0.0	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.2	0.2	0.2	0.4	3.3	0.0	0.2	0.2	0.2	0.2	0.0	0.2	2.0	3.3
21.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	16.4	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.4	0.2	0.0	1.1	0.0	0.0	0.4	0.0	0.7	0.0	0.0	5.5	1.1
21.3	1.1	0.2	0.0	0.0	0.0	0.2	0.0	15.1	0.0	0.0	0.0	0.9	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.4	0.0	0.0	0.2	0.0	0.2	0.0	0.0	3.9	2.0
21.4	0.4	0.0	0.0	0.7	0.0	0.2	0.2	11.8	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.2	0.9	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.4	0.0	0.0	1.1	3.5
21.5	0.9	0.0	0.0	0.0	0.0	0.0	0.2	10.2	0.0	0.0	0.0	2.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.9	0.0	0.0	0.2	0.0	0.4	0.0	0.0	3.1	2.0
21.6	0.4	0.0	0.0	0.4	0.0	0.2	0.2	6.4	0.0	0.0	0.0	2.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.2	0.0	0.9	0.0	0.0	0.7	0.0	0.0	0.0	0.0	3.1	4.0
21.7	0.2	0.7	0.0	0.4	0.0	0.0	0.7	13.0	0.0	0.0	0.0	2.9	0.0	0.0	0.2	0.0	0.2	1.5	0.7	0.0	0.4	0.0	0.0	0.2	0.0	0.0	1.1	0.2	1.1	0.0	0.0	0.9	5.5
21.8	0.7	0.2	0.2	0.0	0.0	0.0	0.2	16.4	0.0	0.0	0.0	2.4	0.0	0.0	0.2	0.2	0.0	1.1	0.4	0.2	0.9	0.0	0.0	1.1	0.0	0.0	0.4	0.0	0.9	0.0	0.2	2.9	4.2
22	0.7	0.2	0.2	0.0	0.0	0.0	0.0	15.1	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.4	0.2	0.0	0.4	0.0	0.0	0.4	0.0	0.7	0.0	0.0	3.3	3.7
23	0.0	0.0	0.0	0.0	0.0	0.0	0.2	10.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.2	1.1	0.0	0.0	0.9	0.0	0.4	0.0	0.2	4.2	3.5
24	0.2	0.2	0.0	0.0	0.0	0.2	0.0	17.9	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.4	0.0	0.2	0.4	0.2	0.2	0.0	0.2	0.9	1.7	0.2	0.0	0.0	3.5	2.4
25	0.0	0.4	0.0	0.0	0.0	0.0	0.4	10.0	0.0	0.0	0.0	0.9	0.0	0.0	0.4	1.3	0.2	0.0	0.0	0.0	0.7	0.2	1.1	0.4	0.0	0.0	1.3	1.7	0.2	0.2	0.0	3.3	1.5
26	0.4	0.0	0.0	1.1	0.0	0.0	0.2	10.5	0.0	0.0	0.0	1.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	2.2	0.0	0.0	1.5	0.7	0.2	0.2	0.4	1.5	5.5
27	0.7	0.0	0.0	0.5	0.0	0.0	0.5	8.6	0.0	0.0	0.0	1.6	0.0	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.2	1.9	0.0	0.0	0.2	0.2	0.7	0.0	0.0	0.0	2.1
27.5	0.2	1.3	0.0	2.0	0.0	0.0	0.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4

2g. Smoky Hill calcareous nannofossil census data, lower section, part 2 of 5

Column 1: Section Height (m)
Column 2: Eiffellithus gorkae
Column 3: Eiffellithus turriseiffelii
Column 4: Gaarderella granulifera
Column 5: Gartnerago clarusora
Column 6: Gartnerago costatum
Column 7: Gartnerago margaritatus
Column 8: Gartnerago segmentatum
Column 9: Glaukolithus bicrescenticus
Column 10: Glaukolithus biperforatus
Column 11: Grantnarhabdus coronadventis
Column 12: Helicolithus compactus
Column 13: Helicolithus anceps
Column 14: Helicolithus aphantofissus
Column 15: Helicolithus trabeculatus
Column 16: Helicolithus turonicus
Column 17: Isocrystallithus sp.
Column 18: Kamptnerius magnificus
Column 19: Kamptnerius punctata
Column 20: Lithastrinus grillii
Column 21: Lithastrinus septenarius
Column 22: Lithraphidites carniolensis
Column 23: Loxolithus armilla
Column 24: Lucianorhabdus cayeuxii
Column 25: Lucianorhabdus maleformis
Column 26: Manivitella pemmatoidea
Column 27: Marthasterites sp.
Column 28: Marthasterites crassus
Column 29: Marthasterites furcatus
Column 30: Microrhabdulus belgicus
Column 31: Microrhabdulus decoratus
Column 32: Micula concava
Column 33: Micula cubiformis
Column 34: Micula decussata

Secti	Eiffell	Eiffell	Gaarder	Gartner	Gartner	Gartner	Gartner	Glaukol	Glaukol	Grantna	Helicol	Helicol	Helicol	Helicol	Helicol	Isocrys	Kamptne	Kamptne	Lithast	Lithast	Lithrap	Loxolit	Luciano	Luciano	Manivit	Marthas	Marthas	Marthas	Microrh	Microrh	Micula	Micula	Micula	
16.4	1.1	1.3	0.2	0.4	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.7	1.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.7	0.0	0.0	0.2	0.2	0.4	2.2	0.2	0.0	0.7	1.1
16.5	1.0	2.2	0.5	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.2	1.0	0.2	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.5	0.2	0.0	0.0	0.2	0.0	0.0	0.5	0.5	0.5	0.0	0.2	0.2
16.6	0.4	2.9	0.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.1	1.5	2.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.2	2.6	1.1	0.0	0.2	0.2
16.7	1.0	0.5	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.5	0.0	0.0	0.0	0.0	0.0	2.4	1.0	0.0	0.2	0.7

16.8	0.7	3.3	0.4	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.4	1.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.0	2.0	0.7	0.0	1.1	1.3
16.9	0.4	2.0	1.1	0.0	0.0	0.0	0.2	0.4	0.0	0.2	0.7	0.9	1.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.0	0.0	0.0	0.4
17	1.3	4.2	0.2	0.0	0.0	0.0	0.0	0.7	0.2	0.4	0.4	0.7	2.2	1.5	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.2	0.0	0.4	0.4	0.9	0.9	0.0	0.9	0.2
17.1	2.8	3.5	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.4	2.2	3.7	0.0	0.2	0.4	0.0	0.0	0.0	0.9	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.4	0.7	0.0	0.9	0.9
17.2	1.1	4.2	0.0	0.2	0.0	0.0	0.4	0.0	0.0	0.2	1.8	0.2	2.0	3.3	0.0	0.4	0.0	0.0	0.2	0.2	0.7	0.0	0.4	0.0	0.0	0.0	0.2	0.4	1.3	0.0	0.0	0.0	1.1
17.3	0.7	3.9	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.4	0.0	1.8	1.3	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.2	0.2	0.0	0.0	0.2	0.0	2.2	1.1	0.0	0.4	0.4
17.4	0.7	6.3	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.4	0.9	2.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	3.1	0.4	0.0	0.0	0.0	0.0	1.1	0.9	0.0	1.3	1.1
17.5	0.7	1.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.4	2.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.1	2.2	0.0	0.4	0.2
17.6	2.2	3.7	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	1.8	2.4	0.0	0.0	0.0	0.0	0.2	0.2	1.3	0.0	0.2	0.2	0.0	0.0	0.4	0.0	1.3	0.4	0.0	0.4	0.4
17.7	1.1	3.8	0.9	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.2	0.2	0.6	2.3	0.0	0.2	0.0	0.0	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.6	0.0	1.1	0.6
17.8	0.4	2.0	1.1	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.9	0.0	1.1	0.7	0.0	0.9	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.4	1.8	0.2	0.0	0.4	0.2
17.9	1.1	2.9	1.1	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.7	1.3	1.5	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	0.9	0.0	0.0	0.7
18	0.9	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.2	0.2	1.1	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	1.3	0.7	0.0	0.2	1.3
18.1	2.0	4.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.7	0.7	2.0	3.5	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.4	0.0	0.4	1.3
18.2	1.1	3.5	0.2	0.0	0.9	0.2	0.4	0.4	0.9	0.7	1.3	0.9	2.6	5.7	0.0	0.0	0.2	0.0	0.0	0.0	0.7	0.9	0.4	0.2	0.0	0.0	0.0	0.2	1.1	0.2	0.0	0.9	0.9
18.3	1.7	4.1	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.9	0.9	0.4	5.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	1.1	0.2	0.0	0.0	0.0	0.4	1.1	0.6	0.0	1.1	0.9
18.4	1.1	2.9	0.4	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.9	0.4	3.7	4.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.2	0.0	0.2	0.0	0.4	0.2	0.9	0.4	0.0	0.4	0.9
18.5	0.2	1.5	0.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	2.0	5.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.4	0.0	1.8	1.8
18.7	1.5	3.5	0.4	0.0	0.0	0.0	0.0	0.7	0.2	0.2	0.7	0.7	1.3	0.9	0.0	0.4	0.2	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.2	0.0	0.4	1.5
18.8	0.7	2.6	1.3	0.0	0.0	0.0	0.0	0.2	0.0	0.7	1.5	1.5	0.9	5.3	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.9	0.7	0.0	0.2	0.7
18.9	1.1	2.6	0.9	0.0	0.0	0.2	0.2	0.0	0.2	0.7	1.1	0.7	2.0	1.3	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.4	0.0	0.2	0.0	0.4	0.2	1.1	0.0	0.0	0.7	0.4
19	1.1	2.6	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.9	0.4	1.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.1	0.0	0.0	0.0	0.2	0.0	0.9	0.2	0.0	0.2	0.7
19.1	1.3	2.6	0.0	0.0	0.0	0.0	0.4	0.2	0.2	1.3	0.7	0.4	2.2	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.4	0.0	0.2	0.2	0.2	0.0	0.0	0.7	0.2	0.0	0.0	0.0	1.8
19.2	0.4	1.8	0.7	0.0	0.0	0.2	0.0	0.4	0.4	0.4	0.7	0.7	1.3	2.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.0	0.0	0.2	1.3	0.2	0.0	0.7	1.3
19.3	0.2	1.1	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	2.2	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.2	0.0	0.2	0.0	0.0	0.4	2.0	0.4	0.0	0.9	0.4
19.4	0.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.1	1.5	2.0	0.0	0.4	0.2	0.0	0.4	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.0	1.8	1.5
19.5	1.3	1.5	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.7	0.9	0.4	0.7	0.0	0.9	0.0	0.0	0.0	0.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.4	0.0	0.4	0.7
19.6	2.0	2.6	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	1.3	0.9	0.9	0.9	0.0	1.1	0.0	0.0	0.0	0.2	0.9	0.4	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.0	0.4	0.9
19.7	0.7	4.2	0.4	0.0	0.0	0.2	0.2	0.2	0.2	0.0	2.2	1.3	1.1	1.8	0.0	0.0	0.2	0.0	0.4	0.2	0.4	0.7	0.0	0.0	0.2	0.0	0.4	0.0	0.4	0.0	0.0	0.2	2.9
19.8	0.2	2.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.2	0.4	0.9	3.3	0.0	0.4	0.2	0.0	0.7	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.2	0.9
19.9	0.7	4.4	0.4	0.0	0.0	0.2	0.2	0.2	0.0	0.4	0.9	0.4	1.1	2.6	0.0	0.9	0.2	0.0	0.4	0.0	0.2	0.7	0.2	0.0	0.0	0.0	0.0	0.7	1.5	0.0	0.0	0.2	1.3
20	0.2	2.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.7	0.0	2.0	3.1	0.0	0.4	0.0	0.0	0.4	0.2	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.2	1.1	0.0	0.0	0.4	0.9
20.1	1.1	3.9	1.1	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.9	1.5	2.8	2.8	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.4	0.2	0.2	0.0	0.0	0.0	0.2	0.4	0.7	0.0	0.0	0.4
20.2	0.4	0.9	0.2	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.4	0.9	3.3	2.6	0.0	0.2	0.0	0.0	0.0	0.4	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.1	0.2	0.0	0.7	0.4
20.3	1.5	2.4	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.7	1.3	2.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.7	0.7
20.4	0.9	1.3	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.2	0.4	0.7	1.5	2.2	0.0	0.2	0.0	0.0	0.4	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	0.0	0.7	0.4
20.5	0.4	0.7	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1.5	1.3	1.3	2.8	0.0	0.2	0.0	0.0	0.2	0.0	0.7	0.4	0.0	0.0	0.0	0.0	0.2	1.5	0.2	0.0	0.2	0.0
20.6	0.0	1.5	1.1	0.0	0.0	0.0	0.0	0.4	0.0	0.2	3.3	0.9	1.3	3.3	0.0	0.2	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0	0.4	1.1	0.7	0.0	0.0	0.7
20.7	0.4	3.3	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.1	0.4	2.0	4.2	0.0	0.0	0.2	0.0	0.4	0.2	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.2	1.1
20.8	0.9	0.9	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.4	1.1	3.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.2	0.2	0.0	0.0	0.0	0.4	2.9	0.4	0.0	0.2	0.2
20.9	0.9	2.2	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.4	5.0	0.9	0.2	4.8	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.2	0.2	0.0	0.0	0.0	0.2	1.1	0.9	0.0	0.2	1.1
21	0.0	2.0	0.0	0.0	0.0	0.2	0.0	0.9	0.0	0.4	3.1	1.1	1.1	7.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.4	2.0	0.2	0.0	0.0	1.1
21.1	0.2	1.5	0.2	0.0	0.0	0.0	0.2	0.2	0.9	0.7	2.6	1.1	0.9	1.1	0.0	0.2	0.0	0.0	0.0	0.0	1.5	0.4	0.0	0.4	0.0	0.0	0.0	0.4	1.3	0.4	0.0	0.0	1.5
21.2	0.4	0.9	0.9	0.0	0.0	0.0	0.0	0.2	0.2	0.0	1.1	0.4	3.1	0.4	0.0	1.1	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0	0.2	0.2
21.3	1.3	0.9	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.7	0.9	0.2	2.8	0.4	0.0	0.0	0.2	0.0	0.4	0.0	1.3	1.3	0.0	0.0	0.0	0.0	0.2	0.9	0.7	0.0	0.4	1.5
21.4	0.2	0.9	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	1.1	1.1	0.9	0.9	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.4	0.7	0.4	0.0	0.2	0.2
21.5	0.7	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.7	3.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.7	0.4	0.0	0.0	0.0	0.4	0.9	0.7	0.0	0.0	1.1
21.6	0.2	2.2	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.7	0.7	1.3	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.8	0.4	0.2	0.0	0.0	0.0	2.2	0.4	0.0	0.4	0.7
21.7	0.2	2.6	0.2	0.0	0.0	0.0	0.2	0.4	0.2	0.2	0.9	0.9	0.9	0.7	0.0	0.0	0.0	0.0	0.2	0.0	1.3	0.0	1.3	0.0	0.4	0.0	0.0	0.0	0.9	0.4	0.2	0.7	1.5
21.8	0.2	0.7	0.2	0.0	0.0	0.0	0.9	0.2	0.2	0.0	0.9	0.9	2.4	0.0	0.0	0.0	0.0	0.0	0.4	0.2	1.1	0.0	0.2	0.0	0.0	0.0	0.7	1.5	1.1	0.0	0.7	1.5
22	0.4	1.3	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.2	0.4	2.4	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.9	0.2	0.2	0.0	0.2	0.0	0.0	0.4	1.8	0.4	0.2	0.4	0.2
23	0.0	1.8	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.9	0.4	2.4	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.8	0.4	0.0	0.2	0.4
24	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	0.0	0.2	0.2
25	0.9	1.3	0.2	0.2	0.2	0.0	0.2	0.4	0.0	0.2	1.3	1.7	3.3	2.8	0.0	0.4	0.0	0.0	0.4	0.0	0.9	0.0	0.2	0.0	0.0	0.0	0.2	0.9	0.2	0.2	0.2	0.2
26	0.4	3.3	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.9	2.6	2.2	2.6	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.4	0.0	0.7
27	0.5	3.7	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.9	0.2	2.6	0.5	0.0	0.0	0.2	0.0	0.5	0.5	1.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	1.2	1.4	0.0	0.7	1.6
27.5	0.4	2.6	0.0	0.0	0.0	0.0	0.4	0.2	0.0	1.3	0.9	2.0	0.0	1.5	0.0	0.0	0.0	0.0	0.4	0.2	2.0	0.9	0.4	0.7	0.2	0.0	0.0	0.0	0.2	1.1	0.2	0.9	2.0

2h. Smoky Hill calcareous nannofossil census data, lower section, part 3 of 5

Column 1: Section Height (m)
Column 2: Micula swastica
Column 3: Micula sp.
Column 4: Munarinus sp.
Column 5: Octocyclus reinhardtii
Column 6: Octolithus sp.
Column 7: Orastrum campanensis
Column 8: Pharus simulacrum
Column 9: Placozygus sigmoides
Column 10: Prediscosphaera arkhangelskyi
Column 11: Prediscosphaera cretacea
Column 12: Prediscosphaera grandis
Column 13: Prediscosphaera intercisa
Column 14: Prediscosphaera ponticula
Column 15: Prediscosphaera spinosa
Column 16: Quadrum gartneri
Column 17: Radiolithus planus
Column 18: Radiolithus sp.
Column 19: Reinhardtites anthophorus
Column 20: Reinhardtites clavicaviformis
Column 21: Repagulum parvidentatum
Column 22: Retecapsa angustiforata
Column 23: Retecapsa crenulata
Column 24: Retecapsa ficula
Column 25: Retecapsa schizobrachiata
Column 26: Retecapsa surirella
Column 27: Retemediaformis teneraretis
Column 28: Rhagodiscus angustus
Column 29: Rhagodiscus plebius
Column 30: Rhagodiscus reniformis
Column 31: Rhagodiscus splendens
Column 32: Rotellapillus crenulatus
Column 33: Scapholithus fossilis
Column 34: Seribiscutum primitivum

Secti	Micula	Micula	Munarin	Octocyc	Octolit	Orastru	Pharus	Placozy	Prediscp	Prediscp	Prediscp	Prediscp	Prediscp	Prediscp	Quadrum	Radioli	Radioli	Reinhar	Reinhar	Repagul	Retecap	Retecap	Retecap	Retecap	Retecap	Retecap	Retemed	Rhagodi	Rhagodi	Rhagodi	Rhagodi	Rotella	Scapholi	Seribis
16.4	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.2	0.4	7.9	0.2	0.7	2.4	6.6	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.4	0.2	0.0	1.1	0.7	0.0
16.5	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.2	0.5	10.3	0.0	1.2	2.9	7.7	0.2	0.0	0.2	0.5	0.0	0.2	0.0	0.2	0.0	0.2	0.2	0.5	1.2	1.7	0.0	0.2	0.7	1.2	0.0
16.6	0.0	0.0	0.9	0.0	0.0	0.0	0.0	1.5	0.0	3.3	0.0	2.0	1.3	5.3	0.2	0.0	0.2	0.4	0.0	0.4	0.0	0.4	0.0	0.0	0.2	0.4	2.9	0.9	0.2	0.4	0.7	0.2	0.0
16.7	0.0	0.7	0.2	0.0	0.0	0.0	0.0	1.4	0.2	6.7	0.0	2.2	2.2	5.3	0.2	0.0	0.7	0.7	0.0	1.2	0.0	0.7	0.0	0.0	0.5	0.7	1.9	0.0	0.2	0.0	0.5	1.9	0.0
16.8	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.5	0.2	5.7	0.2	0.4	1.5	5.5	0.4	0.0	0.2	0.7	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.4	0.9	0.0	0.2	2.0	0.4	1.1	0.0
16.9	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.9	6.5	0.2	0.7	2.8	6.5	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.9	0.2	0.4	0.7	0.4	2.0	0.0
17	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	1.1	5.5	0.2	0.7	1.5	4.4	0.4	0.0	0.2	0.4	0.0	1.1	0.0	0.2	0.0	0.0	0.7	0.2	1.5	0.9	0.0	0.4	0.9	1.3	0.0
17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	8.5	1.3	0.9	2.2	3.5	0.2	0.0	0.4	1.5	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.7	1.1	0.4	0.7	0.2	0.0	0.9	0.0
17.2	0.0	0.2	0.0	0.0	0.0	0.2	0.0	1.1	0.9	7.9	0.7	1.3	1.8	3.9	0.0	0.2	0.4	1.1	0.0	0.2	0.0	0.2	0.0	0.0	0.7	0.2	0.7	0.0	0.0	0.4	0.4	0.2	0.0
17.3	0.0	0.0	1.1	0.0	0.2	0.0	0.0	0.4	0.0	6.8	0.2	1.5	1.5	6.3	0.2	0.0	0.2	0.2	0.0	0.4	0.0	0.2	0.0	0.0	0.4	0.4	2.2	0.0	0.2	0.4	1.1	1.8	0.0
17.4	0.0	0.0	1.1	0.0	0.0	0.0	0.0	2.4	0.7	7.9	0.0	2.0	3.7	6.1	0.0	0.0	0.2	2.0	0.0	0.2	0.0	0.2	0.0	0.0	0.4	0.4	2.4	0.9	0.2	1.3	1.1	0.7	0.0
17.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	2.0	0.4	4.8	0.0	0.2	0.4	9.9	0.0	0.0	1.1	0.7	0.0	1.3	0.0	0.2	0.0	0.0	0.4	1.1	2.9	0.9	0.0	0.7	2.0	3.1	0.0
17.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	1.8	0.0	5.5	0.2	0.2	2.9	7.0	0.4	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	1.5	1.3	0.0	0.0	1.5	0.7	0.0
17.7	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.4	1.3	7.0	0.0	1.1	1.1	4.5	0.2	0.0	0.0	0.2	0.2	0.9	0.0	0.4	0.0	0.0	0.4	0.9	0.9	0.4	0.2	0.6	1.5	1.9	0.0
17.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.7	10.7	0.0	0.9	1.8	5.7	0.4	0.2	0.2	0.2	0.0	0.2	0.0	1.3	0.0	0.0	1.1	0.9	1.1	0.7	0.2	0.7	0.9	2.2	0.0
17.9	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.9	1.3	7.0	0.0	1.3	1.1	5.0	0.2	0.0	0.2	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.4	0.0	1.5	0.9	0.0	0.2	1.8	1.5	0.0
18	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.9

18.1	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	1.1	4.8	0.0	2.0	0.7	5.3	0.2	0.0	0.2	0.4	0.0	0.0	0.0	0.7	0.0	0.0	0.4	0.7	2.6	0.9	0.9	0.7	0.4	1.3	0.0
18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	6.8	0.2	0.7	3.5	3.9	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.3	0.0	0.0	0.9	0.2	2.0	0.7	0.4	0.4	0.9	1.8	0.0
18.3	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.2	0.4	7.3	0.2	1.1	3.7	5.6	0.0	0.0	0.0	1.7	0.0	0.2	0.0	0.9	0.0	0.0	0.2	0.9	3.0	0.4	0.0	0.6	0.9	0.9	0.0
18.4	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	6.2	1.3	1.8	2.9	11.5	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.9	0.4	0.0	0.9	0.9	0.7	0.0
18.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	3.9	0.2	1.5	2.0	6.8	0.7	0.2	0.0	1.1	0.0	0.4	0.0	0.7	0.0	0.0	0.7	0.2	3.3	2.0	0.4	0.4	0.7	0.4	0.0
18.7	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.7	1.3	7.4	1.3	1.1	1.3	4.2	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.7	0.0	0.0	0.7	0.7	2.0	0.4	0.0	0.2	0.4	0.7	0.0
18.8	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.7	1.1	5.0	0.2	1.1	0.7	4.2	0.0	0.2	0.0	0.2	0.0	0.7	0.0	0.7	0.2	0.2	0.2	0.0	0.4	1.5	0.2	0.0	0.2	0.4	0.0
18.9	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.9	5.5	0.0	0.4	3.1	4.2	0.0	0.0	0.0	0.2	0.0	0.7	0.0	1.1	0.0	0.2	0.2	0.0	0.7	2.0	0.0	0.4	0.7	0.9	0.0
19	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	1.8	7.0	0.7	1.1	0.4	3.7	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.9	0.0	0.0	0.4	0.7	2.6	0.4	0.2	0.2	1.1	0.4	0.0
19.1	0.0	0.0	0.7	0.0	0.0	0.4	0.0	0.2	0.9	3.5	0.2	1.1	1.1	6.4	0.4	0.0	0.0	0.7	0.0	0.4	0.0	0.7	0.0	0.0	0.2	0.2	0.7	0.2	0.4	0.2	0.4	0.7	0.0
19.2	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.9	5.1	0.0	0.7	1.1	4.8	0.2	0.0	0.0	0.7	0.2	0.2	0.0	1.1	0.0	0.2	0.4	0.4	0.9	0.2	0.0	0.2	0.0	0.7	0.0
19.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.7	1.8	3.5	0.0	1.5	0.7	5.5	1.1	0.0	0.0	0.4	0.0	0.4	0.0	1.1	0.0	0.0	0.2	0.4	0.4	0.7	0.4	0.7	0.4	0.9	0.0
19.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.7	6.8	0.2	0.9	0.7	5.5	0.2	0.0	0.0	0.0	0.0	1.3	0.0	1.3	0.0	0.2	0.0	0.4	1.3	0.4	0.2	0.9	0.2	0.2	0.0
19.5	0.2	0.2	1.1	0.0	0.0	0.0	0.0	0.2	1.5	3.7	0.0	0.7	0.0	3.5	0.0	0.0	0.2	0.0	0.0	0.2	0.2	1.3	0.2	0.2	0.2	0.9	1.8	0.4	0.0	0.2	0.7	0.4	0.0
19.6	0.0	0.2	0.9	0.0	0.0	0.0	0.0	0.2	0.9	5.5	0.4	1.3	0.4	3.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.9	0.0	0.2	0.4	0.7	0.4	0.2	0.0	0.2	0.4	1.1	0.0
19.7	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	1.5	4.6	0.4	0.7	0.9	4.6	0.0	0.0	0.0	0.4	0.0	0.7	0.2	0.2	0.0	0.2	0.0	0.2	1.3	0.2	0.2	0.4	0.7	0.4	0.0
19.8	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.2	1.1	5.5	0.2	0.7	0.9	3.9	0.4	0.2	0.0	0.7	0.4	0.9	0.0	2.0	0.0	0.2	0.2	0.4	0.2	1.8	0.0	0.7	0.2	0.7	0.0
19.9	0.0	0.2	0.4	0.0	0.0	0.2	0.0	0.0	0.7	6.1	0.4	0.7	0.7	7.2	0.4	0.2	0.0	0.0	0.7	0.7	0.0	2.0	0.0	0.0	0.0	0.0	1.3	0.7	0.0	0.4	0.2	1.1	0.0
20	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.9	9.6	0.0	0.4	0.2	5.9	0.2	0.2	0.0	0.4	0.2	0.2	0.0	0.7	0.0	0.0	0.0	0.4	1.1	0.2	0.2	0.2	0.4	1.5	0.0
20.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.7	7.9	0.4	1.5	0.4	5.0	0.2	0.0	0.0	0.2	0.0	0.2	0.0	1.3	0.0	0.0	0.2	0.0	0.9	0.2	0.2	0.4	0.2	2.6	0.0
20.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	1.1	5.9	0.4	1.8	0.7	8.8	0.2	0.2	0.0	0.2	0.2	1.3	0.4	0.4	0.0	0.0	0.4	0.2	1.3	0.7	0.2	0.0	0.7	0.7	0.0
20.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.4	1.5	6.4	0.2	1.5	0.4	7.7	0.0	0.0	0.2	0.9	0.0	0.2	0.2	0.7	0.0	0.0	0.2	0.2	1.1	0.0	0.2	0.2	0.7	0.9	0.0
20.4	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.7	2.0	8.4	0.2	1.8	0.7	7.0	0.0	0.0	0.0	0.2	0.0	0.4	0.2	1.5	0.0	0.0	0.0	0.0	0.4	1.1	0.9	0.0	0.0	0.0	0.0
20.5	0.0	0.2	0.7	0.0	0.0	0.0	0.2	0.4	0.2	6.8	0.4	1.3	0.2	5.5	0.0	0.2	0.0	0.4	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.2	0.9	0.0	0.0	0.0	0.0	1.8	0.0
20.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.2	1.8	5.9	0.2	2.4	0.0	8.1	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.7	0.0	0.2	0.0	0.2	1.1	0.0	0.2	0.2	0.4	0.2	0.0
20.7	0.0	0.0	1.8	0.0	0.0	0.2	0.0	0.2	0.7	7.4	0.2	1.8	0.9	7.2	0.0	0.0	0.2	0.7	0.0	0.4	0.0	0.7	0.0	0.2	0.4	0.7	2.2	0.7	0.0	0.4	0.2	0.9	0.0
20.8	0.0	0.0	2.9	0.0	0.0	0.2	0.0	1.8	0.4	2.2	0.0	1.1	0.4	5.3	0.2	0.0	0.0	0.0	0.2	0.4	0.0	0.9	0.0	0.0	0.2	0.0	1.3	0.0	0.0	0.9	0.7	2.0	0.0
20.9	0.0	0.0	2.0	0.0	0.0	0.0	0.0	2.6	0.4	4.6	0.4	1.7	1.1	3.7	0.0	0.0	0.0	0.4	0.2	0.4	0.2	0.9	0.0	0.0	0.0	1.1	1.1	0.9	0.2	0.2	0.7	0.7	0.0
21	0.0	0.0	1.3	0.0	0.0	0.0	0.0	2.0	0.9	7.5	0.9	1.5	0.2	3.3	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.1	0.0	0.0	0.2	0.7	1.3	0.2	0.4	0.2	0.4	0.2	0.0
21.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	1.5	6.8	0.7	1.1	0.9	6.1	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.2	0.0	0.4	0.2	1.1	0.2	0.2	0.2	0.4	0.2	0.0
21.2	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.2	0.9	5.5	0.0	1.3	0.4	5.5	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.4	0.0	0.0	0.2	0.4	1.1	0.4	0.2	0.0	0.0	0.9	0.0
21.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	4.8	0.2	0.7	0.0	9.8	0.0	0.0	0.0	0.2	0.4	0.0	0.2	0.2	0.0	0.0	1.8	0.2	1.5	0.4	0.0	0.7	0.4	0.9	0.0
21.4	0.0	0.0	0.9	0.0	0.0	0.0	0.0	1.7	1.1	3.9	0.2	2.6	0.4	8.1	0.2	0.0	0.0	1.3	0.4	0.0	0.9	1.1	0.0	0.2	0.9	0.2	1.5	0.7	0.0	0.0	0.4	0.2	0.0
21.5	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.9	1.3	5.8	0.4	1.1	1.1	4.0	0.2	0.0	0.0	0.0	0.0	0.4	0.0	2.0	0.0	0.2	0.2	0.0	0.7	0.4	0.2	0.9	1.3	1.3	0.0
21.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.9	0.2	12.3	0.7	2.4	1.8	6.8	0.0	0.0	0.2	1.1	0.4	0.0	0.7	0.7	0.0	0.0	0.9	0.7	0.4	0.9	0.0	0.2	0.4	0.2	0.0
21.7	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.4	0.2	6.6	0.9	1.3	1.5	7.3	0.7	0.0	0.0	0.2	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.2	0.7	0.9	0.0	0.4	0.7	0.2	0.0
21.8	0.0	0.2	1.1	0.0	0.0	0.0	0.0	0.2	0.9	6.6	1.3	2.6	1.1	6.8	0.4	0.0	0.0	0.7	0.7	0.2	0.4	0.4	0.0	0.0	0.2	0.2	1.5	0.0	0.0	0.2	0.7	0.0	0.0
22	0.0	0.2	1.5	0.0	0.0	0.0	0.0	0.2	0.7	5.7	0.9	2.4	1.3	7.7	0.0	0.0	0.0	0.9	0.4	0.2	0.0	1.1	0.0	0.0	0.0	0.2	1.3	0.7	0.2	0.2	0.0	0.0	0.0
23	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.7	5.3	1.3	2.0	0.2	10.4	0.0	0.0	0.9	0.2	0.7	0.2	0.4	0.4	0.0	0.0	0.4	0.4	0.7	0.9	0.0	0.7	0.2	0.9	0.0
24	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.7	7.8	0.2	0.4	0.9	9.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.2	1.5	0.0	0.2	0.2	0.4	0.9	0.0
25	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	2.0	5.0	0.4	2.0	0.4	4.6	0.2	0.0	0.0	0.9	0.0	0.4	0.2	0.4	0.0	0.0	0.2	1.1	0.7	0.2	0.0	0.0	0.2	0.4	0.0
26	0.2	0.0	1.8	0.0	0.0	0.0	0.0	0.4	0.4	8.1	0.0	0.7	0.7	5.0	0.2	0.0	0.0	0.0	0.4	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.9	0.0	0.7	0.2	0.2	0.2	0.0
27	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.7	1.6	10.9	0.5	0.9	0.2	20.4	0.0	0.0	0.0	0.5	0.5	0.2	0.0	0.7	0.0	0.0	0.0	0.2	0.7	0.2	0.0	0.2	0.5	0.7	0.0
27.5	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.2	2.2	12.1	0.0	0.9	3.3	3.1	0.2	0.0	0.0	1.8	0.2	0.0	0.4	0.7	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0

2i. Smoky Hill calcareous nannofossil census data, lower section, part 4 of 5

Column 1: Section Height (m)
Column 2: Sm. P. sigm, Z. erec, etc…
Column 3: Sollasites barringtonensis
Column 4: Sollasites sp.
Column 5: Staurolithites crux
Column 6: Staurolithites dorfii
Column 7: Staurolithites ellipticus
Column 8: Staurolithites imbricatus
Column 9: Staurolithites mielnicensis
Column 10: Staurolithites mitcheneri
Column 11: Staurolithites sp. 1
Column 12: Staurolithites sp. 2
Column 13: Staurolithites zoensis
Column 14: Stoverius asymmetricus
Column 15: Stoverius sp.
Column 16: Stoverius biarcus
Column 17: Stoverius coronatus
Column 18: Stradnerlithus rhombicus
Column 19: Tegumentum stradneri
Column 20: Tetrapodorhabdus copt/dec
Column 21: Thiersteinia ecclesiastica
Column 22: Tortolithus dodekachelyon
Column 23: Tranolithus exiguus
Column 24: Tranolithus gabalus
Column 25: Tranolithus macleodiae
Column 26: Tranolithus manifestus
Column 27: Tranolithus minimus
Column 28: Tranolithus phacelosus
Column 29: Watznaueria barnasae
Column 30: Watznaueria biporta
Column 31: Watznaueria fossicincta
Column 32: Watznaueria ovata
Column 33: Watznaueria quadriradiata
Column 34: Zeug. Pseudanthophorus

SectiSm. P.	Sollasi	Sollasi	Staurol	Staurol	Staurol	Staurol	Staurol	Staurol	Staurol	Staurol	Staurol	Stoveri	Stoveri	Stoveri	Stoveri	Stradne	Tegumen	Tetrapo	Thierst	Tortoli	Tranoli	Tranoli	Tranoli	Tranoli	Tranoli	Tranoli	Watznau	Watznau	Watznau	Watznau	Watznau	Zeug.	P
16.4	2.4	0.0	0.0	0.7	0.0	0.4	0.0	0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.2	0.0	0.0	0.4	0.0	0.0	0.7	0.0	0.0	0.4	1.5	0.0	6.8	0.0	0.4	0.2	0.0	0.0
16.5	0.2	0.0	0.0	0.7	0.0	0.2	0.2	0.0	0.2	0.0	0.7	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.2	1.2	0.0	0.0	0.2	0.2	0.0	7.5	0.2	0.7	0.2	0.0	0.0
16.6	0.9	0.4	0.0	0.7	0.0	1.3	0.2	0.0	0.2	0.2	0.2	0.2	0.4	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.7	0.4	0.7	3.7	0.0	0.2	0.2	0.2	0.0
16.7	1.4	0.2	0.0	0.7	0.0	0.5	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	1.0	0.0	0.0	0.0	1.4	0.2	7.5	0.0	1.0	0.0	0.0	0.0
16.8	2.0	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.4	2.0	0.2	16.7	0.2	0.9	0.0	0.9	0.0
16.9	2.2	0.4	0.0	1.1	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.9	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.4	1.5	0.2	12.4	0.2	0.9	0.4	0.4	0.0
17	0.2	0.4	0.0	1.8	0.4	0.2	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0	2.6	0.0	0.2	0.4	1.1	0.4	11.4	0.0	0.9	0.2	1.5	0.0
17.1	1.3	0.0	0.0	2.0	0.4	0.2	0.0	0.0	0.0	0.4	0.2	0.2	0.7	0.0	0.0	0.9	0.4	0.2	0.2	1.1	0.0	2.4	0.0	0.0	0.0	0.0	0.4	14.2	0.2	0.4	0.2	3.3	0.0
17.2	1.8	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.2	0.0	0.2	0.7	0.2	0.2	0.0	0.7	0.0	2.0	0.0	0.0	0.4	0.0	0.2	16.2	1.3	0.4	0.2	3.7	0.0
17.3	2.2	0.0	0.0	0.7	0.0	0.4	0.2	0.0	0.4	0.0	0.9	0.2	0.0	0.2	0.0	0.0	0.9	0.2	0.2	0.0	0.0	1.3	0.4	0.0	0.2	3.7	0.0	9.4	0.0	0.0	0.2	0.0	0.0
17.4	1.5	0.2	0.0	1.1	0.4	0.7	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	1.1	0.4	0.0	0.0	1.1	0.7	13.8	0.0	0.7	0.0	0.0	0.0
17.5	1.3	0.0	0.0	0.7	0.0	1.1	0.0	0.0	0.0	0.4	1.8	0.0	0.7	0.0	0.7	0.0	0.7	0.0	0.0	0.7	0.0	0.9	0.9	0.0	0.0	0.0	0.2	8.1	0.0	1.1	0.7	0.0	0.0
17.6	2.4	0.2	0.0	0.4	0.2	1.3	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.4	0.2	0.0	0.2	1.5	0.0	0.9	0.0	0.0	0.4	1.1	0.4	6.6	0.0	0.4	0.4	0.0	0.0
17.7	2.1	0.2	0.0	0.6	0.2	0.2	0.4	0.0	0.0	0.4	0.4	0.2	0.0	0.2	0.4	0.0	0.2	0.0	0.0	0.4	0.0	1.3	0.2	0.0	0.6	0.0	0.6	8.1	0.4	0.6	0.0	0.0	0.0
17.8	3.9	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.7	0.0	1.1	0.4	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.4	2.6	0.7	7.7	0.0	0.2	0.0	0.9	0.0
17.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.7	0.0	0.0	0.4	0.0	0.0	2.9	0.7	10.5	0.0	0.0	0.2	1.1	0.0
18	7.2	0.0	0.0	0.9	0.0	0.4	0.4	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	1.3	0.0	0.2	0.4	0.9	0.4	10.5	0.0	0.4	0.2	1.3	0.0
18.1	4.4	0.0	0.0	1.1	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.7	0.0	0.4	0.0	0.2	0.0	0.7	0.0	2.4	0.4	0.0	0.9	2.0	0.7	14.0	0.4	0.0	0.7	1.1	0.0
18.2	1.8	0.2	0.0	0.4	0.2	0.4	0.2	0.0	0.0	0.0	0.4	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.0	1.8	0.0	1.8	0.2	0.4	1.3	0.2	0.9	9.0	0.2	0.0	0.2	2.0	0.0
18.3	1.5	0.0	0.0	1.9	0.0	0.9	0.0	0.0	0.0	0.4	1.3	0.0	0.0	0.2	0.0	0.4	0.2	0.0	0.0	0.9	0.0	2.8	0.4	0.0	0.2	0.2	1.5	8.2	0.2	0.4	0.2	1.1	0.0
18.4	1.5	0.2	0.0	1.8	0.2	0.2	0.0	0.0	0.2	0.0	0.9	0.2	0.0	0.0	0.4	0.2	0.4	0.2	0.0	0.9	0.0	2.0	0.0	0.0	0.0	0.7	0.4	5.1	0.0	0.9	0.0	0.7	0.0
18.5	1.3	0.0	0.0	1.1	0.2	0.9	0.2	0.0	0.0	0.0	0.7	0.0	0.2	0.2	0.0	0.2	0.2	0.0	0.0	0.2	0.0	1.1	0.2	0.0	0.0	0.4	0.7	9.4	0.2	0.2	0.0	1.5	0.0
18.7	6.8	0.2	0.0	1.1	0.4	2.8	0.0	0.0	0.0	0.4	0.9	0.7	0.0	0.0	0.0	0.2	0.0	0.0	1.3	0.0	0.0	1.1	0.4	0.0	0.2	2.6	0.2	9.8	0.2	0.7	1.1	0.9	0.0
18.8	3.9	0.4	0.0	1.1	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.7	0.0	1.1	0.2	0.0	0.2	3.3	0.0	18.6	0.4	1.1	0.2	0.2	0.2
18.9	1.8	0.0	0.0	1.1	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.2	0.2	0.2	0.4	0.0	1.5	0.2	0.0	0.4	2.0	0.7	12.5	0.2	0.7	0.2	1.5	0.0
19	2.4	0.0	0.0	1.3	0.4	2.2	0.2	0.0	0.2	0.0	0.7	0.2	0.0	0.4	0.2	0.4	0.0	0.0	0.2	0.0	0.0	1.1	0.2	0.2	0.4	2.2	0.2	14.7	0.0	0.9	0.2	1.3	0.0
19.1	2.6	0.0	0.0	2.0	0.4	1.5	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.4	0.0	1.1	0.0	0.4	0.4	2.9	0.4	13.8	0.2	0.2	0.0	0.9	0.0
19.2	2.2	0.0	0.0	1.8	0.7	2.9	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.7	2.4	0.4	18.7	0.4	1.1	0.0	0.7	0.0
19.3	7.2	0.0	0.0	0.4	0.7	1.5	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.8	0.4	0.0	0.7	1.1	0.4	7.9	0.0	0.0	0.7	0.7	0.0

19.5	6.4	0.0	0.0	2.6	0.0	2.6	0.0	0.0	0.4	0.0	0.7	0.0	0.0	0.4	0.0	0.2	0.2	0.2	0.0	0.2	0.2	1.5	0.4	0.0	0.2	1.1	0.7	13.2	0.0	0.4	0.2	0.2	0.0
19.6	9.6	0.2	0.0	1.5	0.7	1.1	0.2	0.0	0.7	0.0	0.0	0.2	0.4	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	2.2	0.0	0.0	0.2	2.6	0.2	6.8	0.0	0.4	0.2	1.1	0.0
19.7	2.0	0.2	0.0	2.2	0.2	2.2	0.0	0.0	0.0	0.0	0.9	0.0	0.4	0.4	0.0	0.7	0.2	0.0	0.0	0.2	0.2	2.4	0.0	0.0	0.4	1.8	0.9	14.7	0.0	0.2	0.4	1.8	0.0
19.8	2.2	0.2	0.0	0.9	0.2	4.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	2.8	0.0	0.0	0.4	1.3	0.2	16.8	0.0	0.2	0.4	0.4	0.0
19.9	4.8	0.4	0.0	1.5	0.2	2.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	1.7	0.0	0.0	0.2	0.9	0.7	12.4	0.0	0.4	0.2	1.1	0.0
20	3.7	0.2	0.0	0.4	0.4	0.9	0.4	0.0	0.2	0.0	0.7	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.0	1.3	0.0	0.0	0.0	3.7	0.7	10.1	0.0	0.2	0.0	0.9	0.0
20.1	7.0	0.0	0.0	0.4	0.2	1.7	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.4	0.7	0.0	1.1	0.0	0.0	0.0	1.1	0.2	7.6	0.0	0.0	0.0	0.4	0.0
20.2	1.8	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.2	0.4	0.0	0.4	0.2	0.2	1.3	0.0	0.0	0.4	0.9	0.0	0.7	0.2	0.0	0.0	0.7	0.7	5.0	0.0	0.2	0.0	3.1	0.0
20.3	3.1	0.0	0.0	1.1	0.7	0.7	0.4	0.0	0.0	0.0	1.3	0.2	0.2	0.4	0.2	0.7	0.2	0.0	0.2	1.1	0.0	2.4	0.4	0.0	0.7	0.0	0.2	6.1	0.4	0.2	0.0	0.2	0.0
20.4	5.9	0.0	0.0	0.9	0.2	1.1	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.4	0.7	0.0	0.2	1.1	0.0	1.8	0.2	0.0	0.4	0.2	0.0	7.9	0.0	0.4	0.2	0.0	0.0
20.5	4.2	0.0	0.0	2.6	0.2	2.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.4	0.9	0.2	9.2	0.2	0.4	0.2	1.1	0.0
20.6	1.1	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.2	0.2	0.4	0.0	0.0	0.2	0.0	1.3	0.2	0.0	0.2	2.6	0.7	6.6	0.2	0.2	0.0	0.9	0.0
20.7	2.2	0.0	0.0	2.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.0	0.0	0.0	0.2	2.2	0.0	0.0	0.2	0.7	0.9	9.4	0.2	0.2	0.4	0.4	0.0
20.8	3.1	0.0	0.0	1.3	0.4	3.7	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.4	0.7	0.0	0.2	0.2	0.0	1.5	0.0	0.0	0.0	3.5	0.9	3.5	0.0	0.4	0.0	0.2	0.0
20.9	6.8	0.0	0.0	0.7	0.2	1.7	0.0	0.0	0.0	0.0	0.7	0.0	0.2	0.4	0.0	0.2	0.0	0.0	0.2	0.2	0.0	3.1	0.0	0.2	0.2	2.6	0.7	7.6	0.7	0.2	0.0	0.0	0.0
21	3.3	0.0	0.0	2.4	0.0	0.9	0.0	0.0	0.0	0.0	0.7	0.2	0.2	0.0	0.0	0.2	0.2	0.0	0.2	0.4	0.2	2.6	0.0	0.0	0.2	0.2	0.9	6.4	0.0	0.2	0.0	0.2	0.0
21.1	3.9	0.0	0.0	2.4	0.7	4.8	0.0	0.0	0.0	0.0	1.1	0.2	0.4	0.4	0.2	0.2	0.2	0.0	0.2	0.2	0.0	2.6	0.0	0.0	0.7	0.7	1.1	6.1	0.2	0.7	0.0	0.0	0.0
21.2	3.5	0.2	0.0	2.0	0.0	3.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.2	0.0	0.0	2.2	0.0	0.0	0.7	3.7	0.4	4.6	0.0	0.2	0.0	1.3	0.0
21.3	4.4	0.0	0.0	1.1	0.0	1.3	0.2	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.9	0.0	1.3	0.0	0.0	0.2	1.3	0.4	7.2	0.0	0.4	0.4	0.7	0.0
21.4	2.0	0.0	0.0	0.9	0.2	1.7	0.0	0.0	0.2	0.0	0.7	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.2	0.0	2.4	0.2	0.2	0.9	0.2	0.7	13.9	0.0	0.7	0.7	0.2	0.0
21.5	2.9	0.0	0.0	1.3	0.2	0.0	0.0	0.0	0.2	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.4	0.0	1.1	0.4	0.0	0.2	1.1	1.3	7.3	0.4	0.7	0.4	0.0	0.0
21.6	1.3	0.0	0.0	2.0	0.0	0.4	0.2	0.2	0.0	0.0	0.4	0.0	0.2	0.9	0.0	0.7	0.0	0.0	0.2	0.4	0.0	1.8	0.2	0.0	0.4	0.9	2.0	12.3	0.2	0.9	0.0	0.0	0.7
21.7	1.1	0.0	0.0	2.2	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.7	0.0	3.1	0.2	0.0	0.7	0.4	0.9	10.8	0.0	0.7	0.0	0.0	0.0
21.8	2.0	0.0	0.0	0.9	0.4	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	2.2	0.0	0.0	0.0	0.9	0.0	12.5	0.2	0.2	0.0	0.7	0.0
22	1.3	0.0	0.0	1.5	0.0	0.2	0.2	0.0	0.2	0.0	1.3	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.7	0.0	2.0	0.0	0.0	0.4	1.1	0.4	7.7	0.0	0.2	0.2	0.4	0.0
23	1.1	0.0	0.0	1.5	0.0	0.7	0.0	0.0	0.2	0.0	0.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	4.0	0.0	0.2	0.2	1.1	0.4	13.0	0.0	0.9	0.0	1.1	0.0
24	1.7	0.0	0.0	1.1	0.2	0.2	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.2	0.7	0.4	7.0	0.0	0.4	0.4	1.1	0.0
25	2.6	0.0	0.0	1.1	0.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.4	0.0	2.4	0.2	0.2	0.0	0.2	1.5	12.4	0.2	0.7	0.0	0.2	0.0
26	4.2	0.0	0.0	1.1	0.0	2.2	0.2	0.0	0.0	0.0	1.1	0.4	0.0	0.2	0.2	0.7	0.2	0.0	0.2	1.3	0.0	2.4	0.0	0.0	0.0	0.4	0.7	4.4	0.4	0.0	0.0	0.9	0.0
27	0.5	0.0	0.0	1.4	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.2	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.5	0.0	1.2	0.0	0.0	0.2	1.2	0.0	0.7	0.2	0.5	0.0	0.0	0.0
27.5	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.2	0.2	0.0	2.4	0.0	0.0	0.0	0.0	3.5	20.8	2.2	3.9	0.2	0.7	0.0

2j. Smoky Hill calcareous nannofossil census data, lower section, part 5 of 5

Column 1: Section Height (m)
Column 2: Zeugrhabdotus diplogrammus
Column 3: Zeugrhabdotus erectus
Column 4: Zeugrhabdotus scutula
Column 5: Zeugrhabdotus spiralis
Column 6: Zeugrhabdotus trivectus
Column 7: Zeugrhabdotus wynnhayi
Column 8: New species

Secti	Zeugrha	Zeugrha	Zeugrha	Zeugrha	Zeugrha	Zeugrha	New species
16.4	0.0	12.0	13.8	0.4	0.2	0.0	0.0
16.5	0.2	11.1	14.4	0.5	0.0	0.0	0.0
16.6	0.4	8.1	19.1	0.0	0.2	0.0	0.0
16.7	1.0	4.3	15.9	0.2	0.0	0.0	0.0
16.8	0.7	5.7	7.9	0.4	0.2	0.4	0.2
16.9	0.4	8.5	10.9	1.1	0.0	0.0	0.0
17	0.7	6.8	6.8	0.9	0.0	0.4	0.0
17.1	0.7	6.1	2.2	0.0	0.0	0.2	0.0
17.2	0.7	9.4	0.9	0.0	0.0	0.0	0.0
17.3	0.4	11.4	2.6	0.2	0.0	0.0	0.2
17.4	0.0	9.8	1.5	0.2	0.0	0.2	0.0
17.5	0.2	17.1	2.6	0.7	0.2	0.0	0.0
17.6	1.1	18.9	0.7	0.4	0.0	0.2	0.0
17.7	0.9	6.4	1.9	0.6	0.4	0.0	0.0
17.8	0.9	11.4	2.2	0.9	0.0	0.0	0.0
17.9	0.2	12.5	0.9	0.7	0.2	0.0	0.0
18	0.4	10.9	1.1	0.4	0.2	0.2	0.0
18.1	0.4	8.3	1.8	1.3	0.0	0.2	0.0
18.2	0.0	5.9	3.9	1.1	0.0	0.2	0.2
18.3	0.2	5.2	1.5	0.9	0.0	0.0	0.0
18.4	0.0	9.0	0.4	1.3	0.0	0.0	0.0
18.5	0.0	11.4	0.4	0.2	0.4	0.0	0.0
18.7	0.0	10.1	2.0	0.7	0.0	0.0	0.0
18.8	0.2	8.6	0.7	0.9	0.0	0.0	0.0
18.9	0.0	11.2	2.0	0.0	0.2	0.0	0.2
19	0.0	10.1	1.1	0.2	0.4	0.0	0.0
19.1	0.4	11.6	0.9	0.4	0.2	0.0	0.4
19.2	0.0	7.3	1.1	0.7	0.2	0.0	0.0
19.3	0.4	10.7	0.4	0.7	0.2	0.0	0.4
19.4	0.2	8.6	1.1	0.4	0.0	0.0	0.0
19.5	0.0	14.7	2.4	0.2	0.2	0.0	0.2
19.6	0.2	15.8	1.5	0.2	0.0	0.0	0.0
19.7	0.0	9.2	1.8	0.2	0.0	0.2	0.0
19.8	0.0	6.6	0.0	0.0	0.0	0.0	0.0
19.9	0.4	8.5	0.7	0.2	0.0	0.0	0.0
20	0.0	10.5	0.9	0.4	0.0	0.0	0.9
20.1	0.0	9.0	0.4	0.7	0.2	0.4	0.0
20.2	0.0	6.8	1.1	0.9	0.2	0.0	0.0
20.3	0.2	7.2	1.1	0.9	0.0	0.0	0.2
20.4	0.2	7.3	0.2	0.7	0.2	0.2	0.7
20.5	0.0	5.5	4.6	1.5	0.4	0.0	0.0
20.6	0.2	9.0	3.3	0.4	0.0	0.2	0.0
20.7	0.0	6.1	1.3	0.7	0.4	0.4	0.0
20.8	0.0	7.5	2.6	1.8	0.0	0.2	0.0
20.9	0.2	10.9	1.5	0.9	0.0	0.0	0.0
21	0.0	12.5	0.9	1.5	0.0	0.0	0.0
21.1	0.0	4.4	1.5	0.7	0.4	0.0	0.4
21.2	0.4	16.2	1.5	1.1	0.0	0.0	0.0

21.3	0.2	13.6	0.0	1.1	0.2	0.0	0.0
21.4	0.0	15.0	0.2	0.7	0.4	0.0	0.0
21.5	0.0	18.1	0.2	0.4	0.0	0.0	0.0
21.6	0.0	5.1	0.2	0.4	0.7	0.4	0.2
21.7	0.0	7.3	0.2	0.0	0.7	0.2	0.2
21.8	0.2	4.2	0.4	0.0	0.0	0.2	0.0
22	0.2	12.9	0.4	0.4	0.2	0.0	0.0
23	0.0	10.6	2.2	0.0	0.4	0.2	0.0
24	0.0	15.0	7.0	0.2	0.2	0.2	0.2
25	0.2	10.5	2.6	0.4	0.0	0.2	0.0
26	0.4	10.1	2.6	1.5	0.0	0.2	0.2
27	0.0	14.2	0.7	0.0	0.0	0.0	0.7
27.5	0.0	1.8	3.5	0.4	0.0	0.0	0.0