



**EXPLANATION**

Localities 1-64 conodont faunas and their diagnostic zones

- Fauna A (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- ▲ Fauna B (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- △ Fauna C (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna D (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna E (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna F (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna G (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna H (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna I (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna J (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna K (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna L (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna M (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna N (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna O (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna P (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna Q (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna R (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna S (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna T (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna U (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna V (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna W (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna X (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna Y (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)
- Fauna Z (Corydolithus Zone), latest Cambrian or early Early Ordovician (earliest Beatrix)

Figure 1.—Distribution of selected conodont faunas in the sixteen 7.5-minute quadrangles in northern New Jersey.

Table 1.—Distribution of Early Ordovician conodonts at sampled localities in northern New Jersey.

(Numbers represent counts of individual conodont elements queried where locality is questionable. Where numbers are not given, estimates of relative abundance of recovered conodonts is shown by a shaded cell; otherwise, a shaded cell indicates a recovered conodont is absent. CAI, conodont abundance index; aff., an affiliation with the named species; cf., compared with the named species; n.s., not identified in the form seen.)

Locality	21a	21b	21c	21d	21e	21f	21g	21h	21i	21j	21k	21l	21m	21n	21o	21p	21q	21r	21s	21t	21u	21v	21w	21x	21y	21z
<b>7.5-minute quadrangle</b>																										
<b>Lithology or stratigraphic unit, if known</b>																										
<b>USGS collection number</b>																										
<b>CAI value</b>																										
<b>Conodonts</b>																										
<b>Map symbol of conodont fauna</b>																										
<b>Aconitodus (Furnish)</b>																										
<b>A. uncinatus Furnish</b>																										
<b>Aconitodus sp.</b>																										
<b>Aconitodus oenotaris Furnish s.f.</b>																										
<b>Aconitodus lovenis Furnish s.f.</b>																										
<b>A. propinquus Furnish s.f.</b>																										
<b>Aconitodus sp. s.f.</b>																										
<b>Chonetes herfurthi Muller</b>																										
<b>Clovenotus densus Furnish</b>																										
<b>C. aff. C. densus Furnish</b>																										
<b>C. elongatus Muller</b>																										
<b>Clovenotus n. sp.</b>																										
<b>Clovenotus angulatus Pauder</b>																										
<b>C. intermedius Furnish</b>																										
<b>C. lindstromi Druce &amp; Jones</b>																										
<b>C. prolixus Muller</b>																										
<b>C. rotundatus Pauder</b>																										
<b>Corydolithus sp.</b>																										
<b>Drepanodus pseudocordatus Repetti</b>																										
<b>Drepanodus sp. s.f.</b>																										
<b>Drepanodus peruvianus Nowlan</b>																										
<b>Drepanodus n. sp.</b>																										
<b>Drepanodus sp.</b>																										
<b>Econodontus notochekemisi Muller</b>																										
<b>Euchorodus parvulus (Branson &amp; Mehl)</b>																										
<b>Euchorodus sp.</b>																										
<b>Hirudiodontus hirudini Muller</b>																										
<b>H. simplex (Druce &amp; Jones)</b>																										
<b>Hirudiodontus aff. H. donneri Repetti</b>																										
<b>Junonotus n. sp.</b>																										
<b>Lacodus brunni Furnish</b>																										
<b>Macrocystidius arvensis Muller</b>																										
<b>Macrocystidius n. sp.</b>																										
<b>Oistiodon melli Furnish s.f.</b>																										
<b>Oistiodon trispinulosus Furnish s.f.</b>																										
<b>Oistiodon simplex (Furnish)</b>																										
<b>Oistiodon sp. s.f.</b>																										
<b>Palatodus beckeri Furnish</b>																										
<b>P. apurii Ethington &amp; Clark</b>																										
<b>Palatodus sp. s.f.</b>																										
<b>Protopanderodus n. sp. 2 of Repetti (1982)</b>																										
<b>Rosodus minutus Repetti &amp; Ethington</b>																										
<b>Rosodus sp.</b>																										
<b>Rosodus n. sp. A</b>																										
<b>Rosodus n. sp. B</b>																										
<b>Scollapoda boltoni Repetti</b>																										
<b>Scollapoda Ethington &amp; Clark</b>																										
<b>S. gracilis Ethington &amp; Clark</b>																										
<b>S. relictus Jones s.f.</b>																										
<b>S. melleus Furnish</b>																										
<b>Scollapoda n. sp.</b>																										
<b>Semioconotus negami Muller</b>																										
<b>Semioconotus sp.</b>																										
<b>Tarionotus nakamurai (Nogami)</b>																										
<b>Tarionotus sp.</b>																										
<b>Utrichodonta n. sp. 1 of Repetti (1982)</b>																										
<b>Unassigned coniform and indeterminate elements</b>																										

Table 2.—Distribution of Early and early Middle Ordovician conodonts at sampled localities in northern New Jersey.

(Numbers represent counts of individual conodont elements queried where locality is questionable. Where numbers are not given, estimates of relative abundance of recovered conodonts is shown by a shaded cell; otherwise, a shaded cell indicates a recovered conodont is absent. CAI, conodont abundance index; aff., an affiliation with the named species; cf., compared with the named species; n.s., not identified in the form seen.)

Table 3.—Distribution of Early and early Middle Ordovician conodonts at sampled localities in northern New Jersey.

(Numbers represent counts of individual conodont elements queried where locality is questionable. Where numbers are not given, estimates of relative abundance of recovered conodonts is shown by a shaded cell; otherwise, a shaded cell indicates a recovered conodont is absent. CAI, conodont abundance index; aff., an affiliation with the named species; cf., compared with the named species; n.s., not identified in the form seen.)

Locality	52	61	62	7	23	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
<b>7.5-minute quadrangle</b>																								
<b>Lithology or stratigraphic unit</b>																								
<b>USGS collection number</b>																								
<b>CAI value</b>		</																						