U.S. GEOLOGICAL SURVEY MENLO PARK MAR 2 3 1987

| LOCALITY / SPECIES NAME | Kayak formation | | | | | Utukok formation (Type section) | | | | | | | | | Utukok formation (Noatak district) | | | | | | | | | Utukok formation (Other areas) | | | | | | | | Madison formation | Lake Minnewanka | | Mississippi Valley | | | | Belgium | | | | Siberian area | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Red limestone | Upper shale | β zone | α zone | | 11,868 | 11,862 | 11,867 | 11,861 | 11,859 | 11,860 | 12,793 | 11,858 | | 12,709 | 12,710 | 12,711 | 12,712 | 12,706 | 12,707 | 12,705 | 12,708 | 12,713 | 12,796 | 12,700 | 12,701 | 12,702 | 12,794 | 12,795 | 12,799 | | Madison formation | Lake Minnewanka | | Kinderhookian | Burlington limestone | Keokuk limestone | | Lower Tournaisian | Upper Tournaisian | Viséan | | Kousnetzk basin | | Kazakhstan: Kassin beds | Kazakhstan: Russakov beds | Kazakhstan: Ishim beds | Kazakhstan: Yagorkin beds | Kolyma basin | |
| Pentremites alaskensis Dutro, n. sp. | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pentremites ascitus Dutro, n. sp. | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cryptoblastus melo (Owen and Shumard) var. A, n. var. | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | o | | | | | | | | | | | | | | | | |
| Cryptoblastus sp. A | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cryptoblastus pisum (Meek and Worthen) | | | | cf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | |
| Actinocrinites accinctus Dutro, n. sp. | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Actinocrinites stellaris (de Koninck and Lehon) | | | | cf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | |
| Platycrinites annosus (S. A. Miller) | | | | cf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | |
| Lepidocidaris squamosa (Meek and Worthen) | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | |
| Ptylopora acuta (Ulrich) | | | | aff | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | × | | | | | | | | | | | | | | | |
| Polypora simulatrix Ulrich | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | aff | | | | | | | × | | | | | | | | | | | | | | |
| Orbiculoidea subelliptica Dutro, n. sp. | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schizophoria resupinata var. dorsosinuata Demanet | | | | cf | | | | | | | | | | | | | | | | | | | | | | cf | | | | | | | | | | | | | | × | | | × | | | | | | | | |
| Schizophoria resupinata var. rotundata Demanet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | cf | | | | | | | | | | × | × | × | | | | | | | | | | |
| Leptaena analoga (Phillips) Sowerby | | | × | × | | | | | | | | × | × | | × | | | | × | | | | | | | | | | × | | | × | | × | × | | × | × | × | | × | | × | × | | | | | | | |
| Schuchertella ampla Dutro, n. sp. | | | × | | | | | | × | | | × | | | × | | | | | × | | × | | | | | | | | | | | | | | ? | | | | | | ? | | | | | | | | | |
| Schuchertella ampla var. complanata Dutro, n. var. | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schellwienella radialiformis (Demanet) Dutro | | | | | | | | | | | | | | | × | | | × | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | |
| Chonetes sp. A | | | × | × | | | | | | | | | | | × | | | × | | | | | | | | | | | | | | | | | | | | | | | | | o | | | | | | | | |
| Chonetes sp. B | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chonetes utukokensis Dutro, n. sp. | | | | | | × | × | | | | | | | | | | × | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | |
| Productella pyxidata (Hall) Hall and Clarke | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | |
| Spinulicosta concentrica (Hall) Nalivkin | | | cf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | × | | | | | | | | | | × | | | | | | |
| Setigerites? truncicostis Dutro, n. sp. | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Setigerites sablei Dutro, n. sp. | | | | | | | | | | × | × | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | o | | | | | | | | |
| Buxtonia? parva Dutro, n. sp. | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pustula morbilliana (Winchell) Sutton | | | cf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | |
| Pustula sp. A | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | o | | | | | | | | | |
| Labriproductus wortheni (Hall) Cooper and Muir-Wood | | | | | | | | | | | | cf | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | |
| Linoproductus? belliplicatus (Branson) Dutro | | | cf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | |
| Rhipidomella michelini (Léveillé) Oehlert | | × | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | × | × | × | | × | | | × | × | | | | |
| Camarotoechia chouteauensis Weller | | | cf | | | | | | | | | | | | | | | | | | | | | cf | | | | | | | | | | × | | | | | | | | ? | | ? | | | | | | |
| Paraphorhynchus smithi Dutro, n. sp. | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dielasma chouteauensis Weller | | | cf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | × | | | | | | | | × | | × | | | | | ? |
| Spirifer gregeri Weller | | | | | | | | | | | | | | | | | | | cf | cf | | | | | | | | | | | | | | × | × | | | | | | | | | | | | | | | |
| Spirifer grimesi Hall | | | | | | | | | cf | cf | cf | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | × | × | | |
| Spirifer missouriensis Swallow | × | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | × | | | | | | | | | | | | × | | |
| Spirifer osagensis Swallow | cf | | cf | cf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | |
| Spirifer platynotus Weller | × | | × | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | |
| Spirifer rowleyi Weller | | | | | | | | | cf | | cf | cf | cf | | | | | | | | | | cf | | | | | | | | | | | × | × | | | | | | | | | | | | | | |
| Spirifer striatiformis Meek | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | × | | | | | | | | | | | | | | | |
| ? Imbrexia forbesi (Norwood and Pratten) Nalivkin | | | | | | | | | × | × | | × | | | × | × | | | | | | | | | | | | | | | | ? | | | × | | | | | | | | | | | × | | |
| Brachythyris chouteauensis Weller | aff | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | |
| Torynifer cooperensis (Swallow) Dutro | | | | | | | | | | | | | | | cf | | | | | | | | | | | | | | | | | × | | × | | | | | | | | | | × | | | | | |
| Ambocoelia parva Weller | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | × | | | | | | | | | | | | | | | |
| Punctospirifer? solidirostris (White) | | | | | | | ? | | | × | × | | × | | ? | | | × | | | | | | | | | | | | | | × | | × | | | | | | | | o | | | | | | | |
| Punctospirifer northviewensis (Branson) | | | cf | cf | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | |
| Syringothyris halli Winchell | × | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | o | | | | | | | |
| Cleiothyradina glenparkensis Weller | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | |
| Composita humilis (Girty) | | | | | | | | × | × | | | | ? | | ? | | | | | | | | | | | | | | | | | × | × | | | | | | | | o | | | | | | | |
| Composita humilis var. A, n. var. | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edmondia burlingtonensis White and Whitfield | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | |
| Conocardium sp. | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Naticopsis sp. | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Straparolus blairi Miller | | | × | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | |
| Euomphalus sp. | | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Platyceras nasutum Miller | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | × | | | | | | | | | | | | | | | |
| Platyceras sp. | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mooreoceras ? sp. | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phillipsia sp. | | | × | | | | | | | | | | | | × | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

*Note: Circle ○ —means that an allied species has been reported, either closely related or possibly conspecific.*

TABLE 1— RANGE AND DISTRIBUTION OF DESCRIBED SPECIES