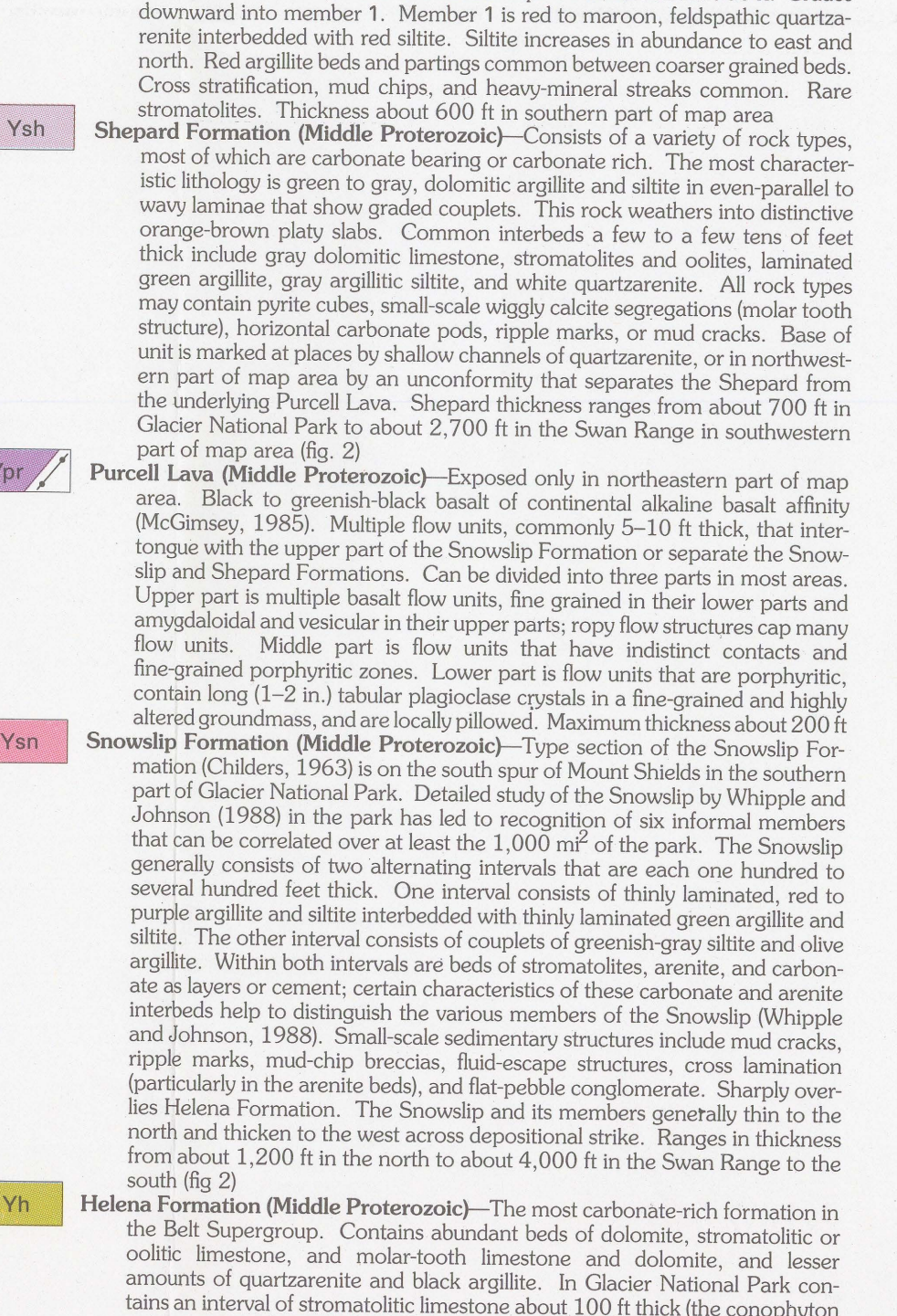


Compiled by  
Jack E. Harrison, James W. Whipple, and David J. Lidke  
1998



Shown only in southwestern part of Glacier National Park where map data is insufficient at most places to subdivide the unit. Consists of a few hundred

Descriptions of rock units are generally brief and have been condensed from more extensive descriptions presented by Whipple (1992) for Glacier National Park and by Mudge and Earhart (1983, 1991) for areas south of the park. Many of the rock units and their facies changes are also described and discussed in text accompanying the Kalispell 1°×2° quadrangle (Mudge and Earhart, 1990).

10,000

Argillite and  
Red  
Purple

Carbonate  
Impure dol.  
Impure lim.

1

The diagrams show three types of plate boundaries:
 

- Transform boundary:** Two plates sliding past each other horizontally.
- Convergent boundary:** Two plates moving toward each other, with one plate subducting under the other.
- Divergent boundary:** Two plates moving away from each other.

LEWIS THRU

stratigraphic columns for various areas of the Cut Bank quadrangle. Columns are parts of them. NEGNP, northeast Glacier National Park; NWGNP, northwest Glacier National Park.

MONTANA DISTURBED BELT

one duplex) contained within the rocks between the basal surface of detachment (floor thrust) and the overlying Lewis thrust fault (roof thrust) at the south end of Glacier National Park.

Interpretations suggest a series of duplexes (cross section *B-B'*). The intensity of shearing within the Lewis allochthon may result from deformation in a relatively thin, flat-lying, and less-metamorphosed Belt section deposited near the eastern erosional edge of the old Belt basin. The style contrasts sharply with the widely spaced, listric, splayed thrusts without appar-

BLACKTAIL-ROOSEVELT FAULT ZONE

FLATHEAD RANGE AND SWAN RANGE BLOCKS

apparent facies changes and sudden eastward thinning as determined from surface exposures of some Belt formations, particularly the Helena. Both the inferred Cretaceous thrust faults and the later Tertiary extension faults are interpreted to sole into the Lewis thrust at depth.

**EXPLANATION**  
ologic map for explanation of map unit symbols]

○ ○ Stromatolites

Unconformity



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osites for various  
and Park