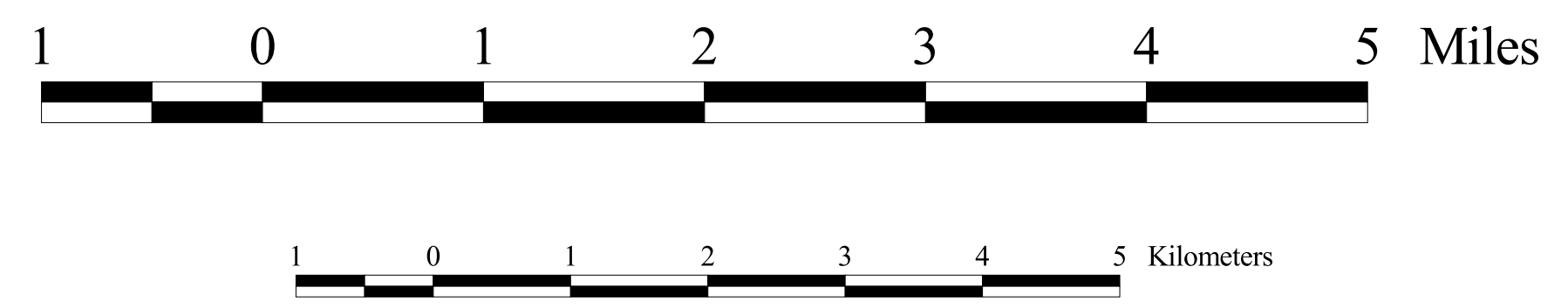
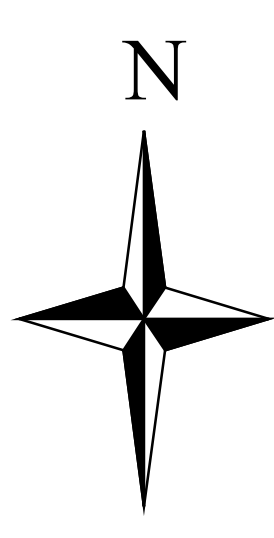


**Description of Geologic Units**  
(Also see text)

- Qal Alluvial deposits
- Qct Colluvium and talus deposits
- Qls Landslide and earthflow deposits
- Qaty Alluvial deposits of younger terraces, undivided
- Qatr Alluvial deposits of the Riverside Terrace
- Qath Alluvial deposits of the Hamilton Terrace
- Qafy Alluvial fan deposits, younger
- Qbfy Debris flow deposits, younger
- Qato Alluvial deposits of older terraces
- Qafo Alluvial fan deposits, older
- Qbfo Debris flow deposits, older
- Qgt Glacial till
- Taf Alluvial fan deposits
- Tas Silt-dominated alluvial fan deposits
- Tab Debris flow deposits
- Tbg Ancestral Bitterroot River gravel
- Tbc Ancestral Bitterroot River clay
- Tbb Ancestral Bitterroot River boulder gravel
- Tss Silt and sand
- Tv Volcanic rocks, undivided
- TYb Bedrock, undivided

**Map Symbols**  
(Also see text)

- Geologic Lines**
- Contacts
  - - - Normal fault; dotted where concealed; ball and bar on downthrown side
  - - - - - Lincaments apparent on aerial photos
- Roads**
- Primary highway
  - Secondary highway
  - Road or street
  - Trail
- Rivers and Streams**
- Intermittent stream or river
  - Perennial stream or river
  - Canal or other man-made water feature
  - Township and Range



**Surficial Geologic Map  
of the Bitterroot Valley, Montana**

by Jeffrey D. Lonn and James W. Sears  
Scale 1:48,000  
2001

This map is available in three forms:  
(a) 1:100,000 scale geologic data on topographic base with 50-meter contours;  
(b) 1:100,000 scale geologic data with shaded relief; no elevation control;  
(c) 1:48,000 scale geologic data with shaded relief; no elevation control.

Geologic data also available electronically.

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GIS production by Ken Sandau  
Cartographic assistance by Susan Smith

