

Surficial Geology and Paleogeography

Introduction

Using airphoto interpretation and fieldwork, the

surficial geology of the Nansen and Victoria creek areas was mapped at 1:50 000 scale. Figure 48 is a 1:100 000 scale map showing the main surficial features of the study area, while Figure 49 is a view of the surficial features of the northern tributaries of Nansen Creek. Table 19 is the legend for the surficial maps.

Discussion

Bedrock

Bedrock is exposed on most ridges at elevations of 4500 feet and above. In addition, scattered tors occur at lower elevations, mainly near an elevation of 4000 feet.

Reid and older deposits

Several levels of alluvial terraces occur along Nansen and Victoria creeks and their major tributaries.

Colluvial veneer

Colluvium is ubiquitous in the field area, occupying the slopes between bedrock exposures and valley-side and valley-floor alluvial deposits. Older deposits of glaciofluvial gravels and till are overlain by colluvium on the East Fork and on Discovery Creek.

Recent deposits

Recent bar and channel deposits of stream gravels, low fluvial terraces and alluvial fans occur proximal to present stream courses in all drainages.

Table 19
Legend for Surficial Geology Maps

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| <p>Recent</p> <p>Recent alluvium - recent alluvial fans, recent fluvial bar and channel deposits, adjacent terraces</p> <p>Colluvial veneer - includes scattered occurrences of resedimented till and reworked glaciofluvial sediments</p> <p>Pre-Reid</p> <p>Kame terraces - north facing valley side, East Fork</p> <p>Bedrock</p> <p>Includes tors, felsenmeer</p> | <p>Recent</p> <p>Recent alluvium - recent alluvial fans, recent fluvial bar and channel deposits, adjacent terraces</p> <p>Colluvial veneer - includes scattered occurrences of resedimented till and reworked glaciofluvial sediments</p> <p>Pre-Reid</p> <p>Kame terraces - north facing valley side, East Fork</p> <p>Bedrock</p> <p>Includes tors, felsenmeer</p> |
| <p>Reid</p> <p>Alluvial terraces - includes at least three terrace levels</p> <p>Secondary features</p> <p>Glaciofluvial channels</p> <p>Roads</p> | <p>Reid</p> <p>Alluvial terraces - includes at least three terrace levels</p> <p>Secondary features</p> <p>Glaciofluvial channels</p> <p>Roads</p> |