

MAP SYMBOLS

Contact - Dashed where approximately located or inferred

Fault - Dashed where approximately located or inferred. Dip shown where measured. Arrows indicate apparent direction of relative movement; U, upthrown block; D, downthrown block

Thrust fault - Dashed where approximately located or inferred, queried where relationship uncertain; bars on upper plate

Mixed Unit-Casadepaga Schist contact - Dashed where approximately located or inferred; lithologic units often truncated along this contact

Fold - Showing trace of axial surface; arrows located on the axial trace indicate direction of plunge

Antiform

Overturned antiform, showing direction of dip of limbs

Synform

Overturned synform, showing direction of dip of limbs

Strike and dip of foliation

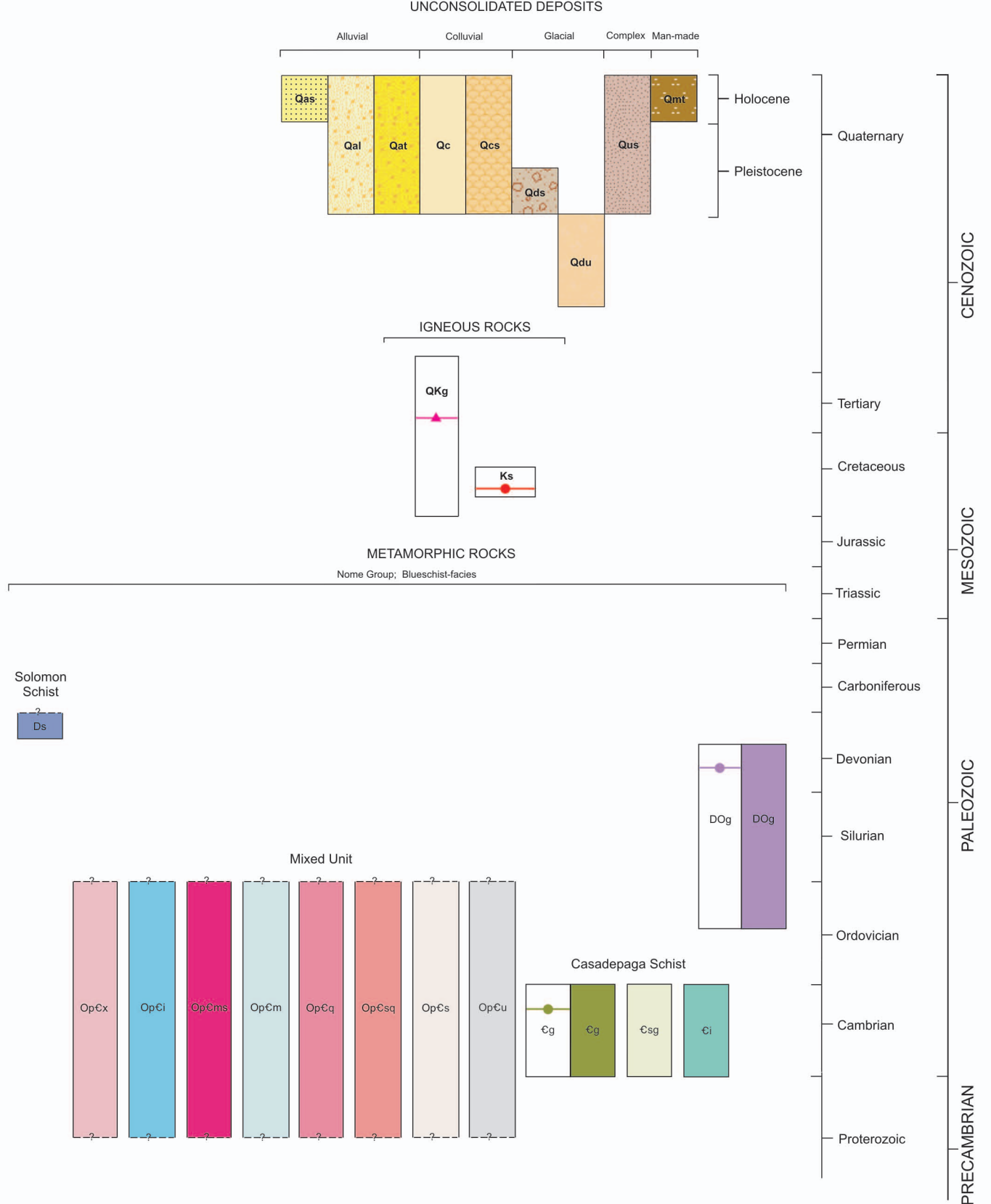
Horizontal foliation

Strike of vertical foliation

"Ar"/Ar localities - numbers refer to map and table 1

Dikes - shown on geologic map as lines where orientation recorded. Example of a dike symbol. See 'Description of Map Units' for explanation of compositional variations

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

UNCONSOLIDATED DEPOSITS

ALLUVIAL DEPOSITS

Qal SILTY ALLUVIUM (Holocene)

Qal ALLUVIUM, UNDIFFERENTIATED (Quaternary)

Qat TERRACE ALLUVIUM (Quaternary)

COLLUVIAL DEPOSITS

Qc COLLUVIUM, UNDIFFERENTIATED (Quaternary)

Qcs SOLIFLUCTION DEPOSITS (Quaternary)

GLACIAL DEPOSITS

Qds DRIFT OF SINUK AGE (early? Pleistocene)

Qdu OLDER DRIFT, UNDIFFERENTIATED (early? Pleistocene)

Qus UPLAND SILT (Quaternary)

Qmt MINE TAILINGS (Holocene)

COMPLEX DEPOSITS

MANMADE DEPOSITS

BEDROCK

IGNEOUS ROCKS

QKg ALKALI GABBRO DIKES (Quaternary to Cretaceous)

Ks SYENITE DIKE (Cretaceous)

METAMORPHIC ROCKS

SEDIMENTARY AND IGNEOUS ROCKS METAMORPHOSED TO BLUESCHIST FACIES:
NOME GROUP

SOLOMON SCHIST

Qs QUARTZ-WHITE MICASCHIST (Devonian)

DOg MAFIC SCHIST AND GRANOFELS (Devonian to Ordovician)

OpCx MIXED METASEDIMENTARY ROCKS (Ordovician to Precambrian)

OpCi IMPURE MARBLE (Ordovician to Precambrian)

OpCms MAFIC SCHIST (Ordovician to Precambrian)

OpCm MARBLE (Ordovician to Precambrian)

OpCq QUARTZITE (Ordovician to Precambrian)

OpCsq GRAPHITIC SCHIST AND QUARTZITE (Ordovician to Precambrian)

OpCs SCHIST (Ordovician to Precambrian)

CASADEPAGA SCHIST

Cg MAFIC SCHIST AND GRANOFELS (Cambrian?)

Csg METASEDIMENTARY ROCKS AND METAGRAYWACKE (Cambrian?)

CI IMPURE MARBLE (Cambrian?)

UNDIFFERENTIATED NOME GROUP ROCKS

OpCu UNDIFFERENTIATED NOME GROUP ROCKS (Ordovician to Precambrian)

ACKNOWLEDGMENTS

This study is part of the Alaska Airborne Geophysical/Geological Mineral Inventory Program funded by the Alaska State Legislature. Research was also supported by the U.S. Geological Survey, National Cooperative Geologic Mapping Program, under STATEMAP award number 04HQAG0061. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

The State of Alaska makes no express or implied warranties (including warranties for merchantability and fitness) with respect to the character, functions, or capabilities of the electronic data or products or their appropriateness for any user's purposes. In no event will the State of Alaska be liable for any incidental, indirect, special, consequential or other damages suffered by the user or any other person or entity whether from the use of the electronic services or products, any failure thereof or otherwise, and in no event will the State of Alaska's liability to the Requestor or anyone else exceed the fee paid for the electronic service or product.

DGGS publications can be purchased or ordered from the Fairbanks office at:
Alaska Division of Geological & Geophysical Surveys
3354 College Road
Fairbanks, AK 99709-3707
451-5000 (phone)
451-5050 (fax)

dggs@dnr.state.ak.us
http://www.dggs.dnr.state.ak.us

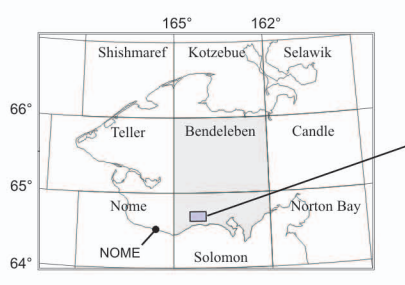
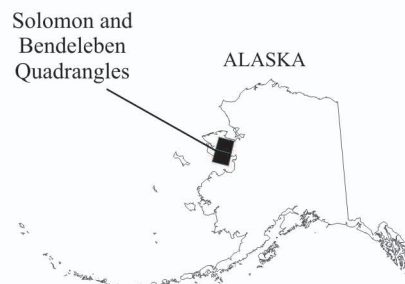


State of Alaska
Department of Natural Resources
Division of Geological & Geophysical Surveys

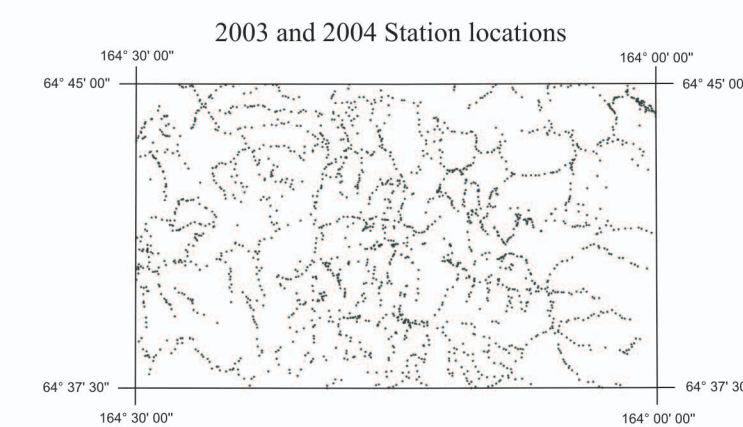
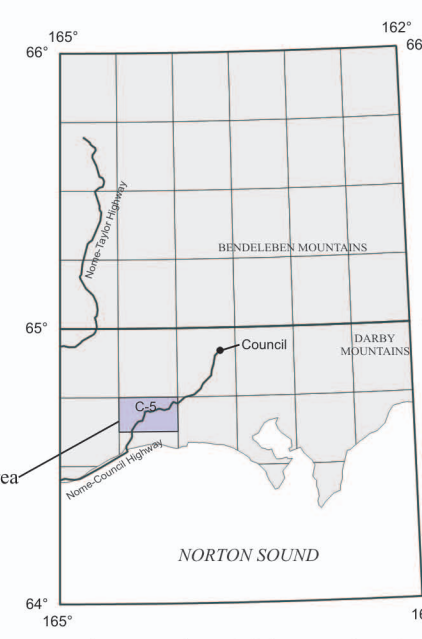
GEOLOGIC MAP OF THE BIG HURRAH AREA, NORTHERN HALF OF THE SOLOMON C-5 QUADRANGLE, SEWARD PENINSULA, ALASKA

by
M.B. Werdon¹, D.S.P. Stevens¹, R.J. Newberry², D.J. Szumigala¹, J.E. Athey¹, and S.A. Hicks²
2005

Affiliation
1 Alaska Division of Geological & Geophysical Surveys
2 University of Alaska Fairbanks, Department of Geology & Geophysics



Maps Showing Location of Study Area



2003 and 2004 Station locations