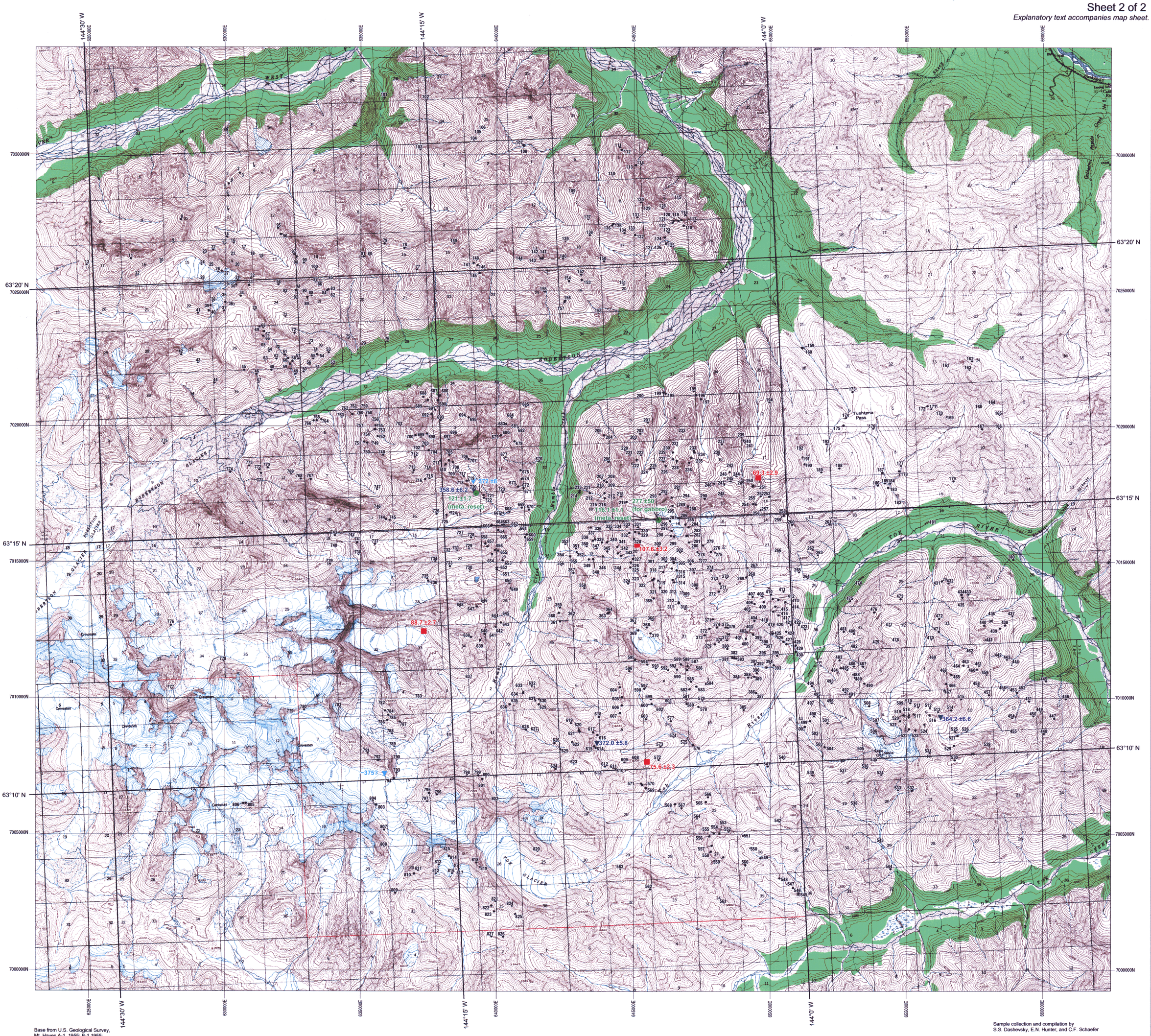


Base from U.S. Geological Survey, Mt. Hayes A-1, 1955; B-1 1955; Tanacross A-6, 1948; B-6, 1949; quadrangles, Alaska

Universal Transverse Mercator Projection zone 6, NAD 1927 Alaska Datum

All data and topography that lie within UTM zone 7 have been reprojected to UTM zone 6. The zone boundary lies at 144°0' W.

True North
Grid North 3° E
Magnetic North 25° E

Magnetic North is 25° E of True North and is adjusted to 2001 for location 63°15' N, 144°0' W.

Grid North is 3° E of True North at the UTM zone boundary (144°0' W)

SCALE 1:63,360

0 1 2 3 4 5
MILES

0 1 2 3 4 5
KILOMETERS

CONTOUR INTERVAL 100 FEET

Sample collection and compilation by S.S. Dashevsky, E.N. Hunter, and C.F. Schaefer

Digital cartography by C.F. Schaefer

Recent geochronology by J.N. Aleinikoff, U.S. Geological Survey, and P. Layer, University of Alaska Fairbanks.

MAP SYMBOLS

245 Sample Location with Map ID Number. Geochemical results are listed in the report and tables that accompany this map.

ISOTOPIC AGE DATA

Symbol	Sample#	Method	Mineral	Age	Rock/Unit	Reference
■	87ANK065A	K-Ar	hornblende	88.7 ±2.7	granite	Nokleberg and others, 1992a
	78	K-Ar	amphibole	107.6 ±3.2	alkali diorite dike	Foley, 1994
	88A	K-Ar	amphibole	75.6 ±2.3	lamprophyre dike	Foley, 1994
	67	K-Ar	biotite	69.3 ±2.9	alkali clinopyroxenite dike	Foley, 1994
▼	81ANK235A	U-Pb	zircon	372 ±8	Drum unit	Aleinikoff and Nokleberg, 1985
	82ANK046A	U-Pb	zircon	~375?	Hayes glacier belt / Tok River unit	Nokleberg and others, 1992a
▼	N484563	U-Pb SHRIMP	zircon	358.6 ±6.2	Drum unit	J. Aleinikoff (written commun., 2002)
	N484558	U-Pb SHRIMP	zircon	372.0 ±5.8	Lagoon unit	J. Aleinikoff (written commun., 2002)
	N484559	U-Pb SHRIMP	zircon	364.2 ±6.6	Drum unit	J. Aleinikoff (written commun., 2002)
●	277020	Ar-Ar	white mica	116.1 ±1.1 (meta. reset)	Lagoon unit	P. Layer and J. Drake (written commun., 2001)
	277054	Ar-Ar	white mica	121 ±1.7 (meta. reset)	Drum unit	P. Layer and J. Drake (written commun., 2001)
	277024	Ar-Ar	hornblende(?)	277 ±50 (complex age spectrum)	gabbro	P. Layer and J. Drake (written commun., 2001)

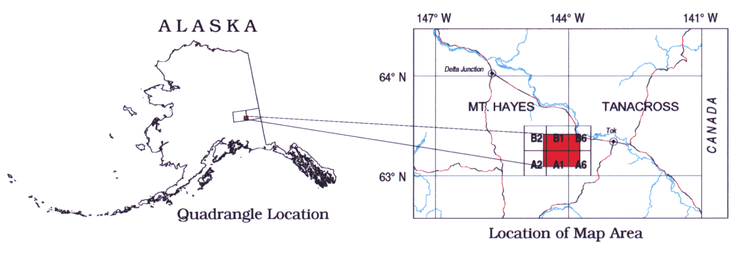
MAP HISTORY

Samples were collected between 1994 and 1998 by American Copper & Nickel Company, Inc. Grayd Resource Corporation, current owners of the data, kindly granted permission to publish the data.

Data were assembled and presented by Northern Associates, Inc. under contract from the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys.

ISOTOPIC AGE & GEOCHEMICAL SAMPLE LOCATION MAP OF THE DELTA MINERAL BELT, TOK MINING DISTRICT, ALASKA

by
Samuel S. Dashevsky[1], Carl F. Schaefer[1], and Edward N. Hunter[1]

2003

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