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GEOLOGY OF THE LIME HILLS REGION
Data gathered during the 1973-5 field seasons

Tertiary
- To/TR/TA — Tertiary volcanics and related feeder dikes and vents. Dacite = D, Rhyolite = R, Andesitic = A, basalt
- Tqm/Tgd — Quartz monzonite - granodiorite stocks of unassignable origin; may include part of Stony River Complex
- TGM — Granite rocks of the Merrill Pass Sequence
- Tsr — Granite rocks of the Styx River Batholith
- TDM — Biotite diorite of the Mount Estelle Batholith

Cretaceous
- Km — Metasedimentary rocks. Slate, greywacke, argillite, and siltstone
- Kd — Diorite gneiss and quartz diorite gabbro unit with quartz biotite schists and relict volcanic units occuring locally

Late Paleozoic to Jurassic
- Mv/Ms — Metavolcanic (Mv) and metasedimentary (Ms) rocks. Shales, siltstones, limestones, and volcanic flows. May be in part equivalent to the Talkeetna Formation

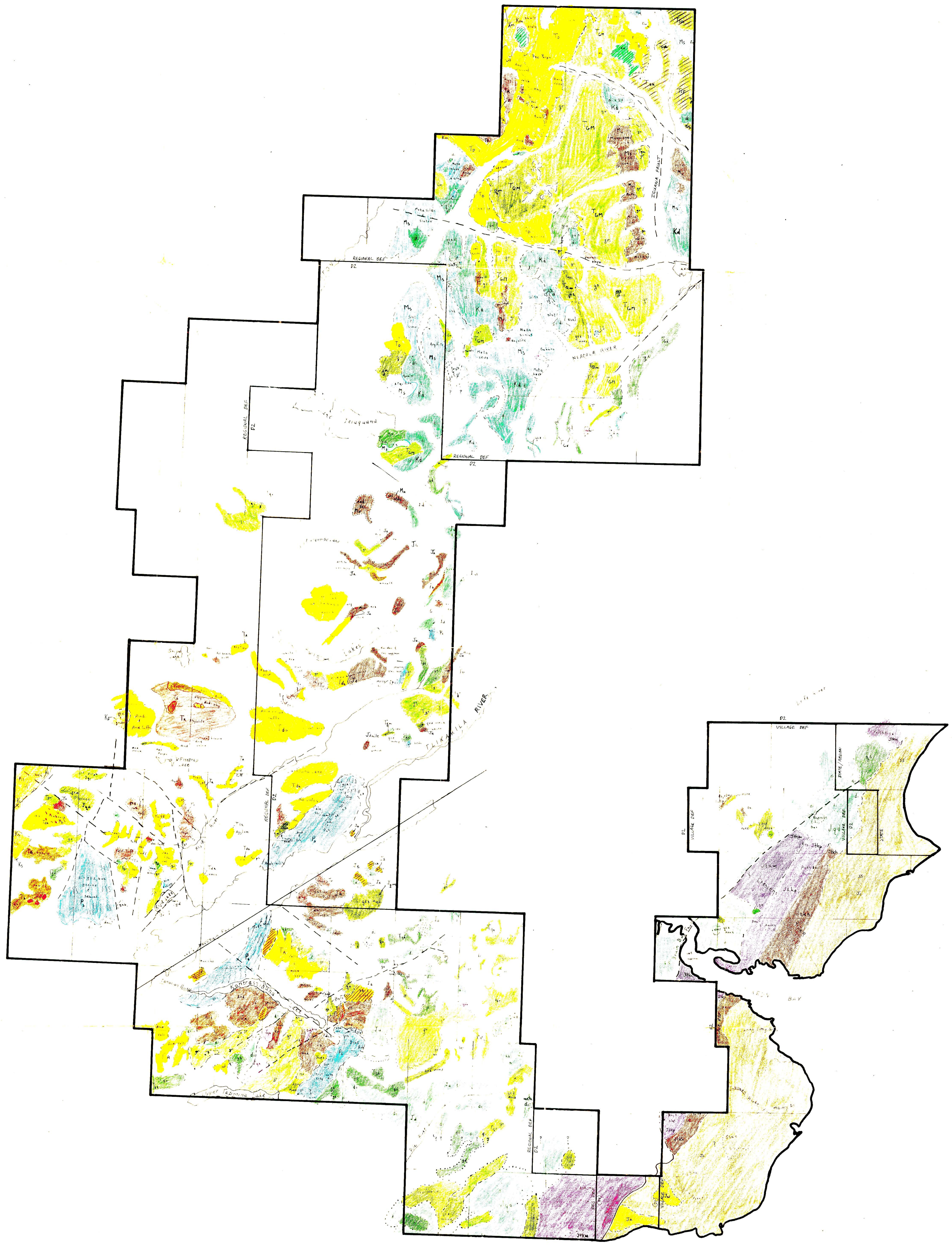
GEOLOGY OF THE LAKE CLARK QUADRANGLE
Data gathered during the 1974-5 field seasons

Tertiary
- Hulchatna Volcanics
  - Tr/Tda — Rhyolite and dacite
  - Ta/Tb — Andesitic and basalt

Early Jur. to late Cret. — Jur. to Tertiary
- Aleutian Range Batholith and Associated Intrusives
  - Tgr — Granite
  - Tqm/Tgd — Quartz monzonite and/or granodiorite
  - Jd — Diorite in part gneiss, grades to gabbro
- Koksetna Formation
  - Ks — Poorly bedded greywackes, siltstones, shales

Lower Jurassic
- Kontrashibuna Volcanic and Sedimentary Belt
  - Ja — Andesite flows and tuff breccia
  - Js — Interbedded sandstone, conglomerate, limestone and chert
  - Jga — Gabbro intrusives

Mid. to late Paleozoic
- Lake Clark Schist
  - Ps — Chlorite schist, quartz chlorite schist, quartz biotite schist, and ultramafic rocks



Scale: 1 inch = 4 miles

0 4 8 12mi

GEOLOGY OF LOWER WEST COOK INLET STUDY AREA
Data gathered during the 1973-5 field seasons

Tertiary
- Tertiary Volcanics
  - Tv — Andesitic to basaltic composition
- Intrusive Igneous Rocks
  - Tqm/Tgr/Tgd — Tqm = quartz monzonite, Tgr = granite, Tgd = granodiorite

Middle to Upper Jurassic
- Jqd — Quartz diorite and biotite hornblende diorite
- Naknek Formation
  - Jn — Siltstones, sandstones, and conglomerates
- Chinitna Formation
  - Jc — Siltstones and sandy siltstones
- Tuxedni Group
  - Jt — Sandstones, siltstones, shales and conglomerates

Lower Jurassic
- Talkeetna Formation
  - Jtkh — Horn Mountain Tuff Member. Andesitic tuff tuffaceous sandstone, siltstone. Contains locally andesitic flows
  - Jtku — Lower Talkeetna Formation Undivided
    - Jtkp — Portage Creek Agglomerate Member. Agglomerate, volcanic breccia, minor andesitic flow
    - Jtkm — Marsh Creek Breccia Member. Volcanic breccia, subaerial and submarine lava flows of basic composition with interbedded argillite and metatuff

Lower Triassic
- Kamishak Formation
  - Tkm — Metamorphic rocks undivided. Greenstone, metaargillite, metasiltstone, metatuff, quartzite, metalimestone, phyllite

NOTE: UNCOLORED OR UNLABELED AREAS ARE EITHER UNKNOWN GEOLOGY OR QUATERNARY DEPOSITS

(heavy line) = Study Area Boundary

(thin line) = Boundary between Native Deficiency (some of which include D-2 override lands) and D-2 Lands.

RECONNAISSANCE GEOLOGY
OF CERTAIN LANDS WITHIN THE PROPOSED
LAKE CLARK NATIONAL PARK

PLATE 1

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