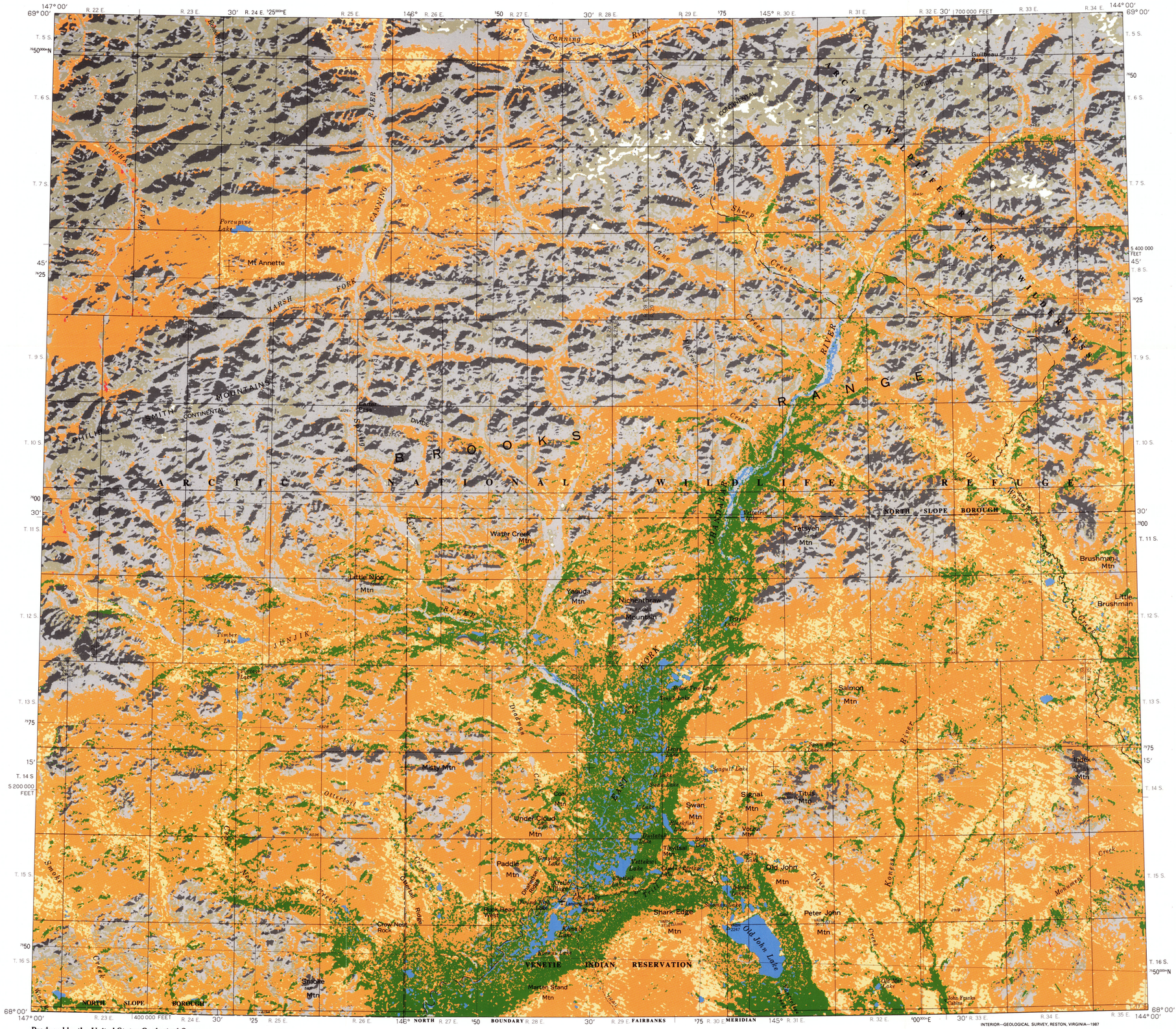
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

ALASKA
VEGETATION AND LAND COVER SERIES
MAP L–207

ARCTIC, ALASKA

VEGETATION AND LAND COVER
1:250 000-SCALE



INTRODUCTION

This map is one in a series designed to provide interim vegetation and land cover classification information for the State at a scale of 1:250 000 and includes maps, statistics, and digital data. This map series is part of the USGS national land use and land cover mapping program and is an interim solution for meeting special vegetation and land cover data requirements in Alaska. The classification system was prepared by an interagency working group of Federal and Alaska State agencies, which developed the Alaska Statewide Land Cover Classification System for use with digitally processed Landsat multispectral scanner data. The classification system is a modification of the Level II classification system for use with remotely sensed data (Anderson and others, 1976) and the ground based "Classification System for Vegetation in Alaska, 1982" (Viereck and Dyrness, 1980).

The vegetation and land cover classifications were performed at the Earth Resources Observation Systems (EROS) Data Center, the EROS Alaska Field Office, and the Geographic Investigations Section, Western Mapping Center, using Landsat digital data, digital elevation models (DEM), and ancillary data. Field data were collected by USGS and other cooperating Federal and State agencies. Statistical summaries of vegetation and land cover classes, by township and range, are listed on the reverse side of the map. Computer-compatible tapes containing the land cover classification, DEM data, geometrically corrected Landsat data, and spectral cluster data are available through the National Cartographic Information Center (NCIC).

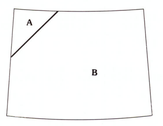
Anderson, J. R., Hardy, E. E., Roach, J. T., and Witmer, R. E., 1976, A land use and land cover classification system for use with remote sensor data, U. S. Geological Survey Professional Paper 964, 28 p.

Viereck, L. A. and Dyrness, C. T., 1980, A preliminary classification system for vegetation of Alaska. U. S. Department of Agriculture, Forest Service General Technical Report PNW. 106, 38 p. (see also internal revision: Viereck, L. A., C. T. Dyrness, and R. A. Batten, 1982, Revision of the preliminary classification for vegetation of Alaska. Institute of Northern Forestry, U. S. Forest Service, Fairbanks, AK, 72 p.)

Land cover class, dominant vegetation, and map surface area

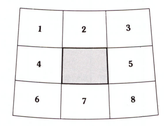
	Square Miles	Square Kilometers	Percent
I Forest			
A. Needleleaf Forest	458.2	1186.7	8.7
B. Broadleaf Forest			
C. Mixed Forest			
II Shrubland			
A. Tall and Low Shrubland	0.9	2.3	0.0
B. Dwarf Shrubland and Related communities	2180.4	5646.9	41.3
III Herbaceous vegetation			
A. Dry or moist Herbaceous	362.4	938.6	6.9
B. Wet Herbaceous			
C. Aquatic Herbaceous			
D. Mosses			
E. Lichens			
IV Agriculture			
V Urban land			
VI Barren land			
A. Sparse vegetation	1095.6	2837.5	20.7
B. Non-vegetated (rock, soil)	520.5	1347.9	9.8
VII Water (open water excluded)			
A. Clear and/or Deep	48.3	125.0	0.9
B. Turbid and/or Shallow			
VIII Ice, Snow, and Clouds	12.5	32.4	0.2
IX Shadow	608.1	1575.0	11.5
Total, land portion of map	5286.9	13692.3	100.0

LANDSAT COVERAGE DIAGRAM



Date acquired	Image ID
A August 5, 1981	22387–20445
B August 4, 1981	22386–20391

ADJOINING QUADRANGLES



1 Sagavanirktok
2 Mt. Michelson
3 Demarcation Point
4 Philip Smith Mountains
5 Table Mountain
6 Chandalar
7 Christian
8 Coleen

Produced by the United States Geological Survey in cooperation with the U. S. Fish and Wildlife Service

Base map from corresponding 1:250,000-scale topographic map dated 1956, revised 1983

Projection and 25 000-meter grid
Universal Transverse Mercator, zone 6
100,000-foot grid ticks based on Alaska coordinate system, zone 3
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 35 meters north and 114 meters east

Gray land lines represent unsurveyed and unmarked locations predetermined by the Bureau of Land Management
Folios U–12 and U–13, Umiat Meridian

There may be private inholdings within the boundaries of the National or State reservations shown on this map

Federal reservation boundaries established by the Alaska National Interest Lands Conservation Act, PI 96–487, Dec. 2, 1980 are shown as compiled by the administering agencies

SCALE 1:250 000

5 0 5 10 15 20 25 30 35 40 45 KILOMETERS
5 0 5 10 15 20 25 MILES

NATIONAL GEODETIC VERTICAL DATUM OF 1929
1986 MAGNETIC DECLINATION AT SOUTH EDGE OF SHEET VARIES FROM 30°30′ TO 32°00′ EAST
FOR SALE BY U. S. GEOLOGICAL SURVEY
FAIRBANKS, ALASKA 99071, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

ROAD CLASSIFICATION

Primary highway
Secondary highway
Light duty highway
Unimproved dirt road
Trails

AREA SCALE 1:250,000

9 sq mi 5,760 a
9 sq km 900 ha

1 sq mi = 2.590 sq km
1 sq mi = 640 acres
1 acre = 0.405 ha
1 sq km = 0.386 sq mi
1 sq km = 100 hectares (ha)
1 ha = 2.47 acres

U.S. GEOLOGICAL SURVEY RESTON, VA
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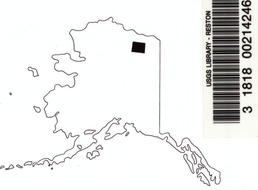

ARCTIC, ALASKA
1981
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