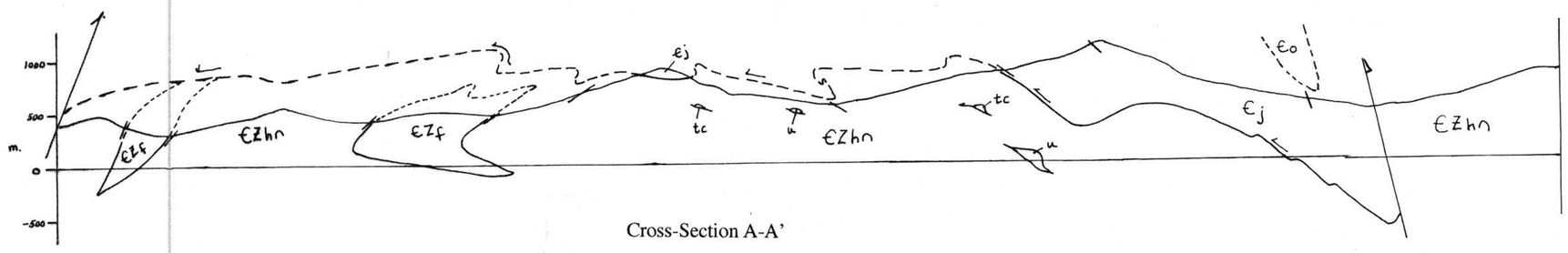
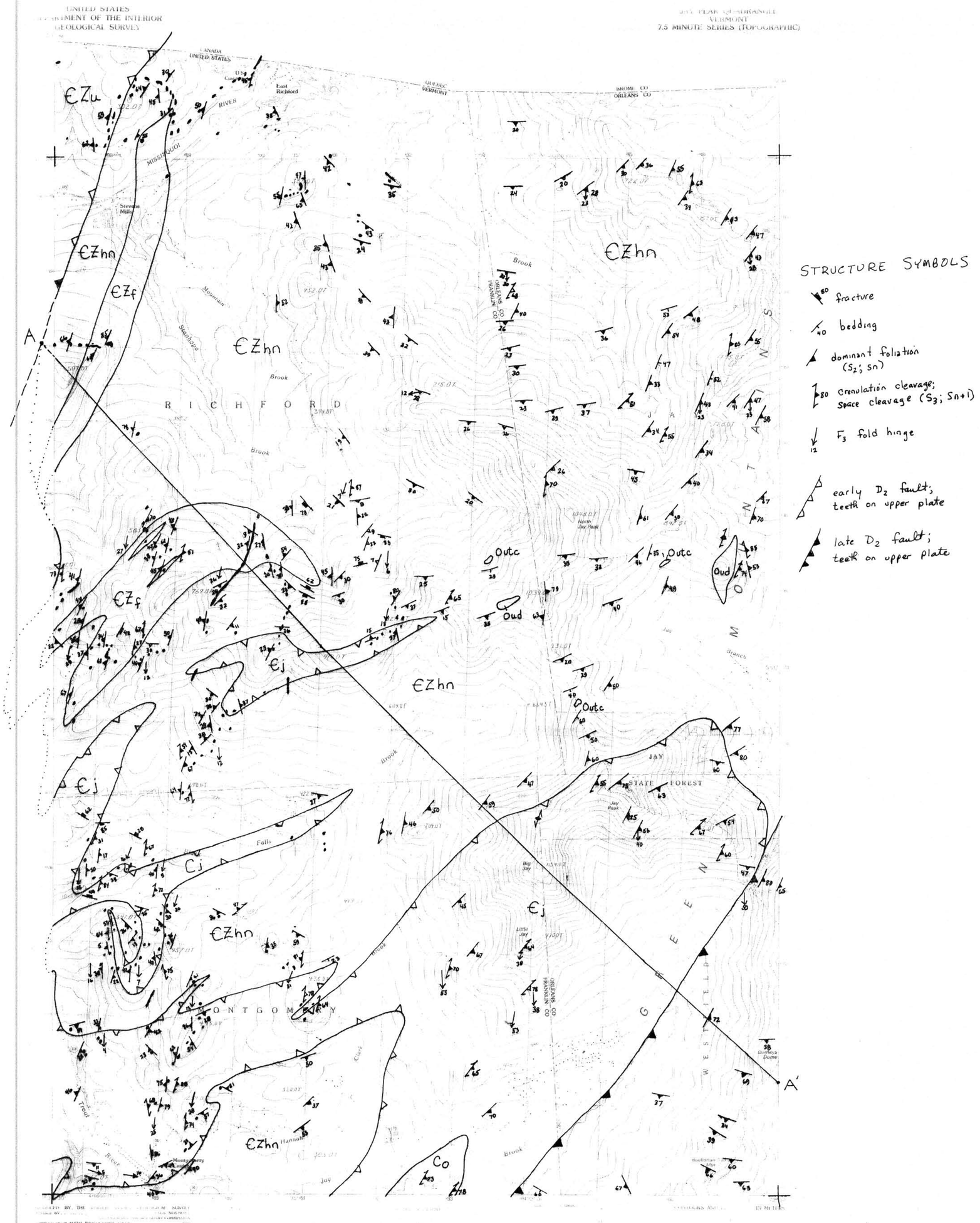
JAY PEAK 7.5 MINUTE QUADRANGLE

Credits: Adam Schoonmaker (western half)
Cady, Albee and Chidester, 1963 (eastern half)
Barry Doolan, NW corner and compilation.



Cross-Section A-A'



STRUCTURE SYMBOLS

- 80 fracture
- 40 bedding
- dominant foliation (S_2; sn)
- 80 crenulation cleavage; space cleavage (S_3; Sn+1)
- 12 F_3 fold hinge
- early D_2 fault; teeth on upper plate
- late D_2 fault; teeth on upper plate

PROVISIONAL MAP
Produced from original manuscript drawings. Information shown as of date of photography.

PROJECTION ..... UNIVERSAL TRANSVERSE MERCATOR
GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR ..... ZONE 18
10,000-FOOT STATE GRID TICKS ..... VERMONT COORDINATE SYSTEM
UTM GRID DECLINATION ..... 1°43' EAST
1986 MAGNETIC NORTH DECLINATION ..... 16°00' WEST
VERTICAL DATUM ..... NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM ..... 1927 NORTH AMERICAN DATUM
To place on the predicted North American Datum of 1983, move the projection lines as shown by dashed corner ticks (1 meter south and 35 meters west)
There may be private inholdings within the boundaries of any Federal or State reservations shown on this map
No distinction made between houses, barns, and other buildings

CONTOUR INTERVAL 6 METERS
CONTROL AND FIELD ESTABLISHED ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
OTHER ELEVATIONS SHOWN TO THE NEAREST 0.5 METER
To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by .3048
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

QUADRANGLE LOCATION
4 Richford
5 North Troy
6 Cold Hollow Mtns.
7 Hazens Notch
8 Lowell

Unimproved Road
Trail
Interstate Route U. S. Route State Route

JAY PEAK, VERMONT
PROVISIONAL EDITION 1986
44072-H5-TM-024

ISBN 0-607-56847
9 780607 568478

Lithic Descriptions:

Underhill Formation

CZu — Silver gray-green quartz-albite-chlorite-sericite+/- magnetite schist and phyllite

Hazens Notch Formation

CZhn — Gray and rusty, quartz-albite-sericite-chlorite graphitic schist with albite porphyroblasts and minor epidote, calcite, garnet, biotite and sphene; medium -grained, massive, light gray and green banded quartz-albite-muscovite gneiss with minor epidote, chlorite, sphene, and magnetite

Fayston Formation

CZf — Silvery green, medium grained, muscovite-quartz-albite-chlorite-garnet-magnetite schist with thin light gray quartzites

Ultramafic rocks

u, tc — massive, brown to white weathering, green, partially to completely serpentinized dunite and peridotite (u); talc-carbonate rock, quartz-carbonate rock, and steatite (tc)

Ottauquechee Formation

Co — Rusty weathering dark gray to black carbonaceous pyritiferous phyllites with subordinate lithologies that include silvery gray and grayish-green phyllites, gray, fine to medium-grained, granular quartzites.

Jay Peak Formation

Cj — Fine-grained, light gray-green quartz-chlorite-albite phyllitic schist and quartzite; white quartzofeldspathic layers alternate with green chloritic phyllitic layers.

References:

Cady, W.M., Albee, A.L., and Chidester, A.H., 1963, Bedrock geology and asbestos deposits of the upper Missisquoi Valley and Vicinity, Vermont: U. S. Geological Survey Bulletin 1122-B, Contributions to Economic Geology, 78 p.

Doll, C.G., Cady, W.M., Thompson, J.B., Jr., and Billings, M.P., 1961, Centennial geologic map of Vermont: Vermont Geological Survey, scale 1:250000.

Schoonmaker, A., 1997, Geology of the Western Third of the Jay Peak Quadrangle, Vermont: map on file with the Vermont Geological Survey.