Plate I NW Bedrock Geology of the Monadnock Quadrangle

MARLBOROUGH, NEW HAMPSHIRE

SULLIVAN
East Sullivan
Frost Hill
Hubbard Brook
Houghton Ledge
Nims Hill
Nelson
Center Pond
Hardy Hill
Thunder Hill
Wheeler Brook
Banks Hill
The Pinnacle
OTTER BROOK STATE PARK
Woodward Pond
Bassett Hill
Bald Hill
Roxbury Center
ROXBURY
KEENE
Otter Brook Lake
SILVER LAKE
Parker Hill
Hardy Hill
Horse Hill
Kidder Hill
Willard Hill
Chesham Pond
fault
Chesham
Babbidge Reservoir
Clapp Pond
Russell Reservoir
LEIGHTON STATE FOREST
Wight Pond
Minnewawa Brook
South Keene
Mt. Calvary Cem
Marlborough
Rabbits Brook
Cooper Hill
Spaulding Hill
Stone Pond 395T
Sunset Hill
MARLBOROUGH
Page Hill
County Fair Grounds
Forbush Hill
Brennan Hill
West Hill
Meetinghouse Pond
Center Cem
Shaker Pond
Stone Brook
Mountain Brook
SWANZEY
Marcy Hill
Mfg
Srl
Sr
Sra
Sru
Srm
Src
Sw
Sfr
Spm
Dll
Dl
Dst
Mmd
Jsz
OZs
Ops
Oam
Sc
Sf
Srlc
Srm
Sw
Sfr
Spm
Dll
Dl
Dst
Mmd
Jsz
Sr
Sra
Sru
Srl
Mfg

Plate I NE Bedrock Geology of the Monadnock Quadrangle

7.5 X 15 MINUTE SERIES (TOPOGRAPHIC)

MARLBOROUGH, NEW HAMPSHIRE
PROVISIONAL EDITION 1984
42072-H1-TM-025
Geology by Peter J. Thompson, 1981-1984

Plate I SW Bedrock Geology of the Monadnock Quadrangle

MONADNOCK MOUNTAIN, NEW HAMPSHIRE

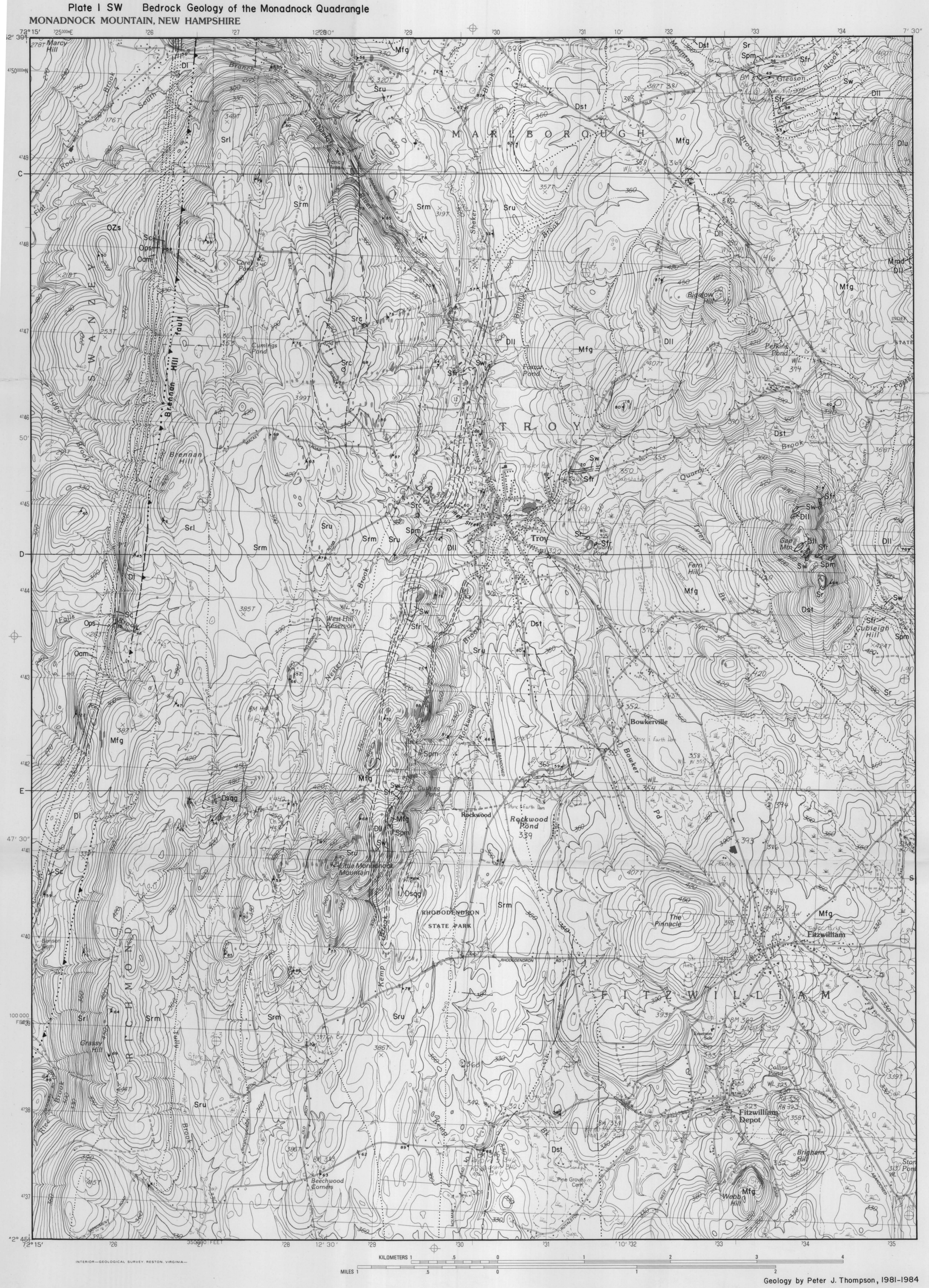

MARLBOROUGH
TROY
FITZWILLIAM
SWANZEY
ROYALSTON
RHODODENDRON STATE PARK
Monadnock Mountain
Little Monadnock Mountain
Brennan Hill
Bowkerville
Rockwood
Fitzwilliam
Fitzwilliam Depot
Troy
Beechwood Corners
West Hill Reservoir
Rockwood Pond
Bigelow Hill
Gleason
The Pinnacle
Webb Hill
Brigham Hill
Cubleigh Hill
Gap Mtn
Fern Hill
Grassy Hill
Marcy Hill
Cumings Pond
Perkins Pond
Farrar Pond
Collins Pond
Quarry Pond
Pine Grove Cem
Emerson Sch
Substation
Trailer Park
Stone & Earth Dam
Sand pit
Dsqg
Dst
Dll
Dlu
Dl
Mfg
Mmd
Sr
Spm
Sfr
Sw
Sru
Srm
Srl
Src
OZs
Sc
Ops
Oam
Bowker Pd
Kemp Brook
Rice Brook
Tully Brook
Bridge Brook
Roof Brook
Falls Brook
Flat Brook
Shaker Brook
Meadowbrook
Rockwood Brook
Fassett Brook
Tarbell Bk
Quarry Brook
Branch Brook
Meadow Brook
Tarbell Bk
Bowker Bk
Bigelow Bk
Fitzwilliam Bk
Rockwood Bk
Kemp Bk
Rice Bk
Tully Bk
Shaker Bk
Brennan Bk
Brook
Bk
Pd
Rd
Road
Street
Lake
Pond
Park
Area
Dam
Cem
Sch
Depot
Tank
Substation
Trailer Park
Sand pit
Stone & Earth Dam
Cumings Pond
Farrar Pond
Rockwood Pond
Quarry Pond
Collins Pond
Perkins Pond
Gap Mtn
Fern Hill
Grassy Hill
Marcy Hill
Webb Hill
Brigham Hill
Cubleigh Hill
Bigelow Hill
The Pinnacle
Monadnock Mountain
Little Monadnock Mountain
Brennan Hill
West Hill Reservoir
Beechwood Corners
Pine Grove Cem
Emerson Sch
Fitzwilliam Depot
Bowkerville
Rockwood
Fitzwilliam
Troy
Gleason
Stone & Earth Dam
Sand pit
Trailer Park
Substation
Tank
Dam
Cem
Sch
Depot
Pond
Park
Area
Road
Street
Lake
Pd
Rd
Bk
Brook
Branch
Meadow Brook
Tarbell Bk
Bowker Bk
Bigelow Bk
Fitzwilliam Bk
Rockwood Bk
Kemp Bk
Rice Bk
Tully Bk
Shaker Bk
Brennan Bk
Roof Brook
Flat Brook
Falls Brook
Bridge Brook
Tully Brook
Rice Brook
Kemp Brook
Bowker Pd
Rockwood Pond
Quarry Pond
Collins Pond
Perkins Pond
Farrar Pond
Cumings

Plate I SE Bedrock Geology of the Monadnock Quadrangle

7.5 X 15 MINUTE SERIES (TOPOGRAPHIC)

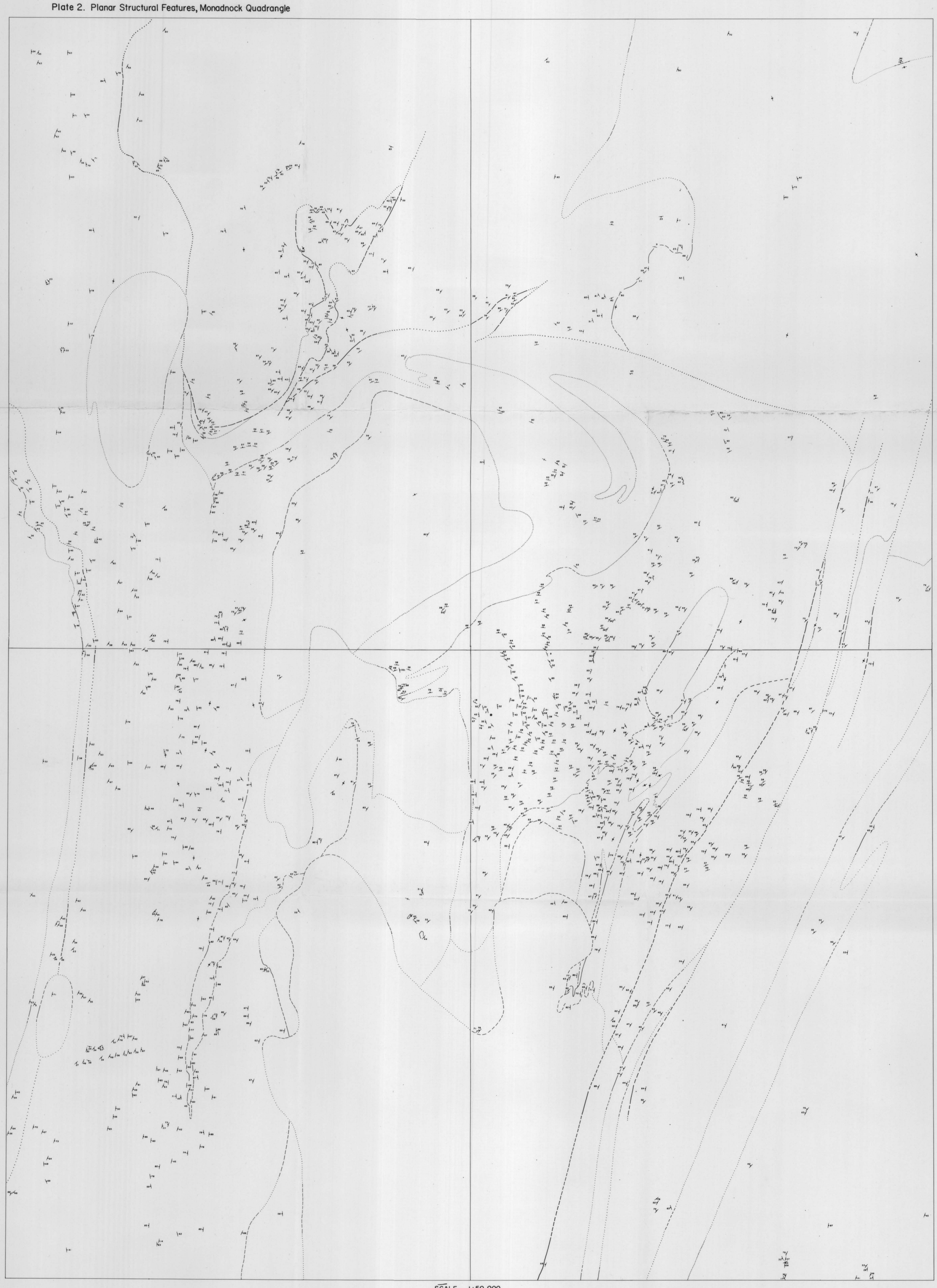
MONADNOCK MOUNTAIN, NEW HAMPSHIRE

PROVISIONAL EDITION 1984

42072-G1-TM-025

Geology by Peter J. Thompson, 1981-1984

Plate 2. Planar Structural Features, Monadnock Quadrangle

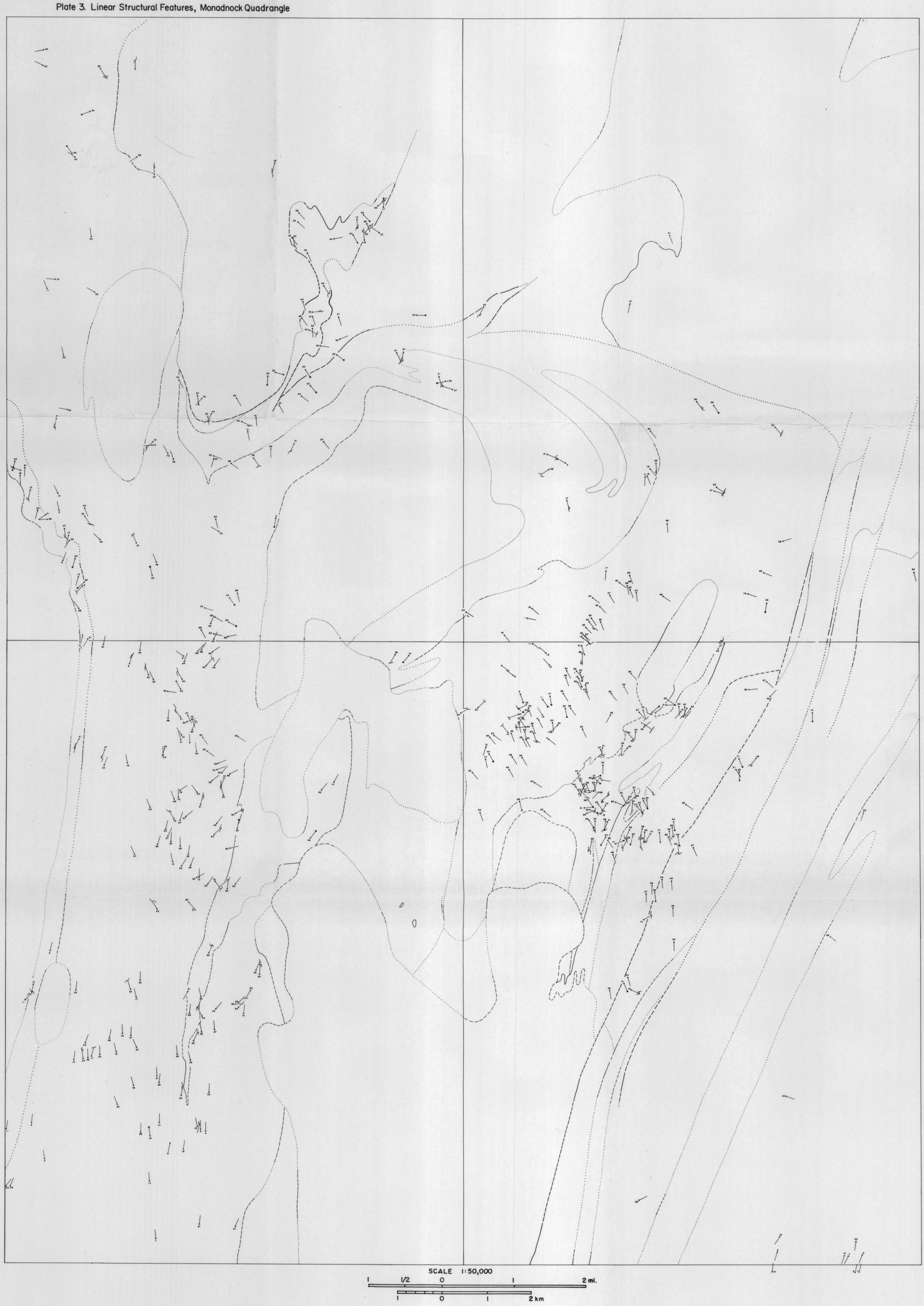


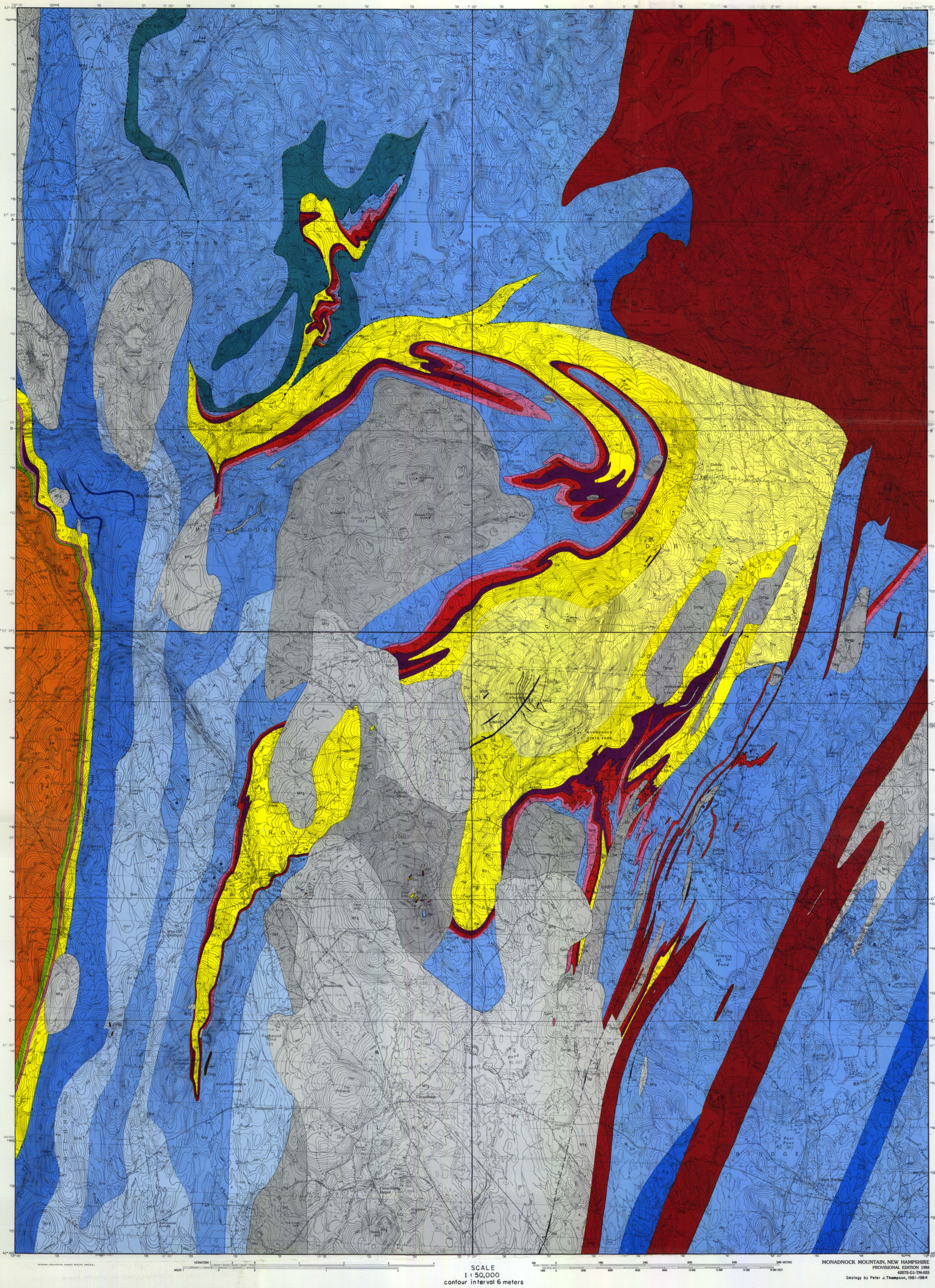
SCALE 1:50,000

1 1/2 0 1 2 mi.

1 0 1 2 km.

Plate 3. Linear Structural Features, Monadnock Quadrangle





SCALE
1 : 50,000
contour interval 6 meters

MONADNOCK MOUNTAIN, NEW HAMPSHIRE
PROVISIONAL EDITION 1984
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Geology by Peter J. Thompson, 1981-1984

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—

Plate 4. Geologic Map, Monadnock Quadrangle, and Key to Plates

Metamorphosed Sedimentary and Volcanic Rocks

KEENE DOME

DEVONIAN	Dl	Littleton Formation
SILURIAN	Sf	Fitch Formation
	Sc	Clough Quartzite
ORDOVICIAN	Ops	Partridge Formation
	Oam	Ammonoosuc Volcanics
PROTEROZOIC TO ORDOVICIAN	OZs	Swanzey Gneiss

MONADNOCK SEQUENCE

Dlu	Littleton Formation, upper part
Dlu7q	Dlu7q : Seven Quartzites
	Oak Hill Member
Dll	Littleton Formation, lower part
Sw	Warner Formation
Sfr	Francestown Formation
Spm	Perry Mountain Formation
Sr	Rangeley Formation, undifferentiated
Srg	undifferentiated gray
Sra	augen schist
Sru	Rangeley Formation, upper part
	Sruc, Src: quartz pebble conglomerate
Srm	Rangeley Formation, middle part
Srl	Rangeley Formation, lower part
	Srlc : granulite matrix conglomerate

Intrusive Rocks

JURASSIC		Jd : diabase dike
		Jsz : silicified zone
MISSISSIPPIAN	Mfg	Fitzwilliam Granite
		Mmd : microdiorite dike
DEVONIAN	Dst	Spaulding Tonalite
	Dstgp	Gilson Pond type
		gabbro
		quartz gabbro
	Dkg	Kinsman Granite
		gt : garnet-biotite rock

Structural Symbols

- geologic contact
- contact, approximate
- contact, inferred
- thrust fault, teeth on upper plate
- normal fault, hachures on inferred downthrown side

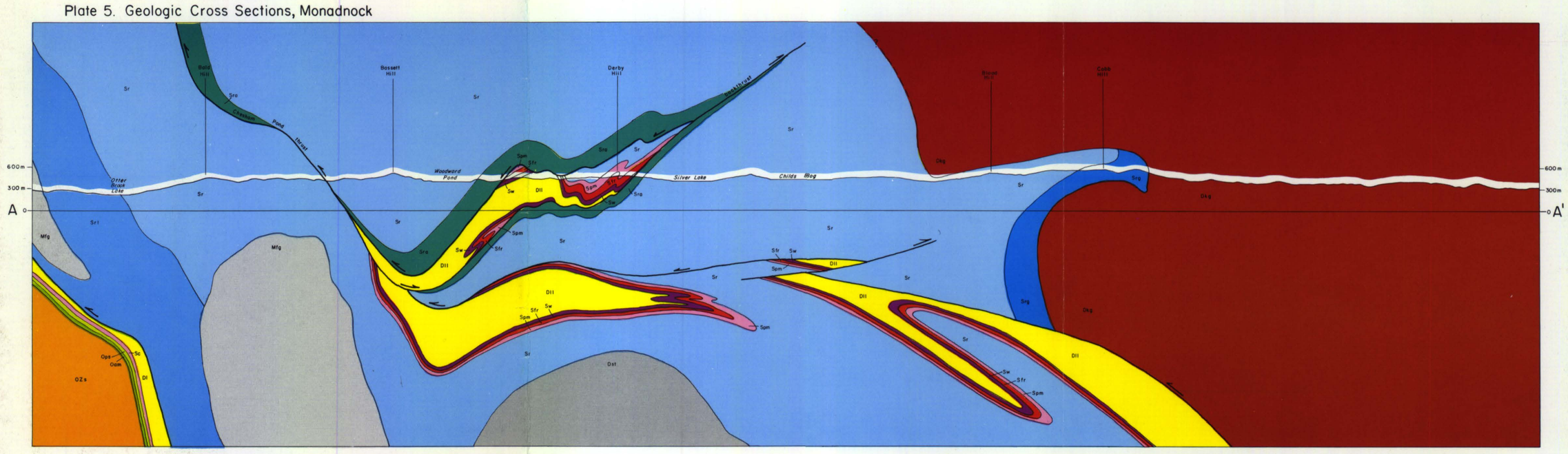
Planar Features (Plate 2)

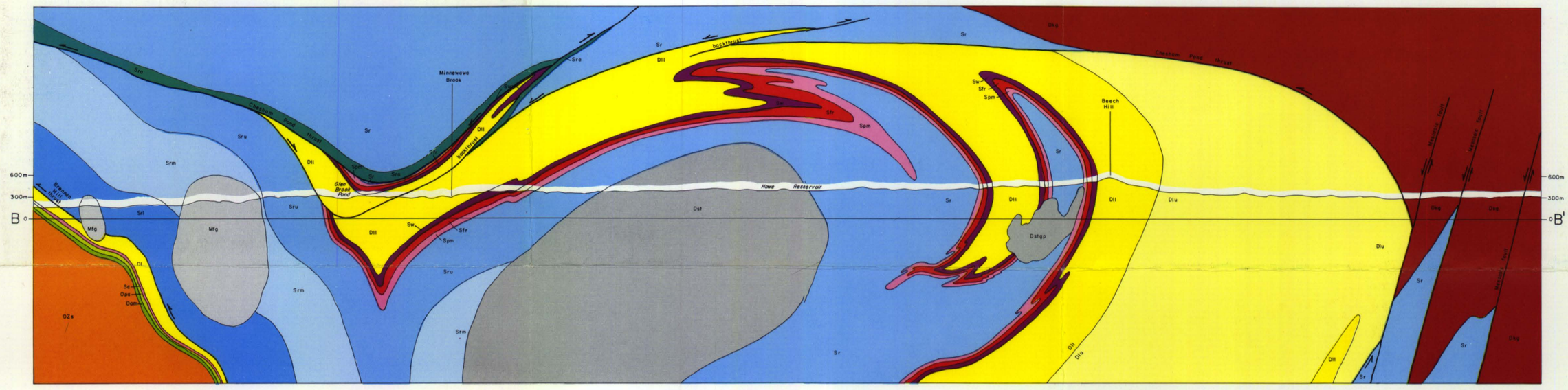
- bedding
- graded bed, dot toward top
- vertical bedding
- horizontal bedding
- primary foliation
- vertical primary foliation
- secondary foliation

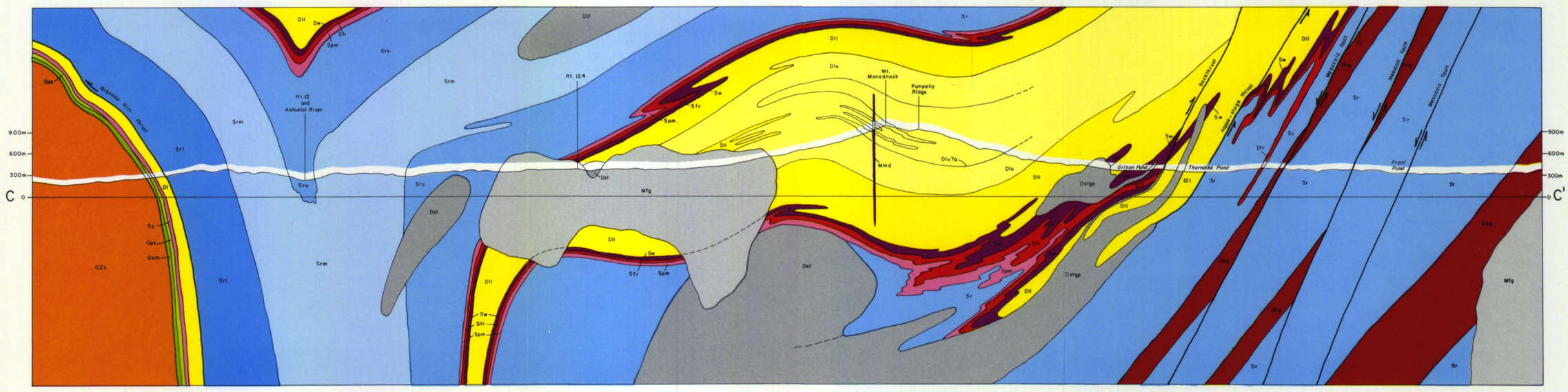
Linear Features (Plate 3)

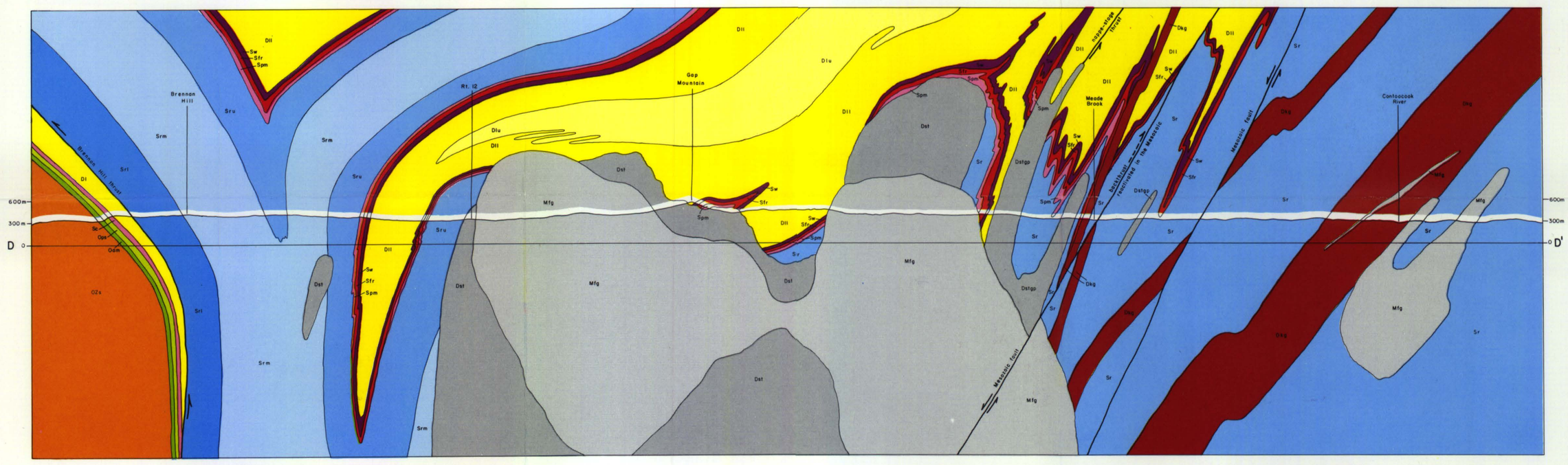
- sillimanite and mica lineations
- quartz lineations
- fold axes
- crenulation lineations
- intersection lineations

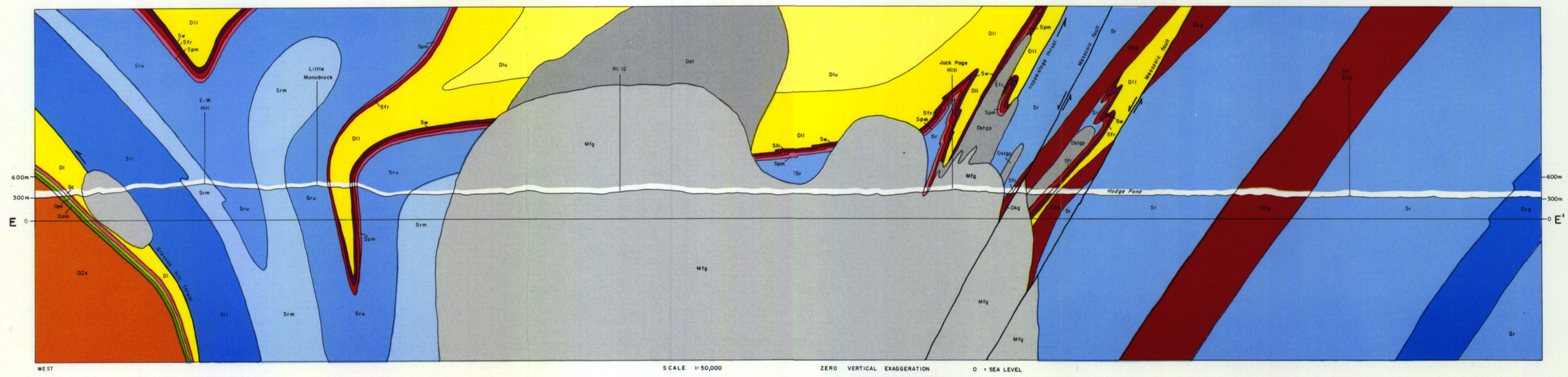
Plate 5. Geologic Cross Sections, Monadnock











SCALE 1:50,000 ZERO VERTICAL EXAGGERATION 0 = SEA LEVEL

1 0 1 2 km.

1 1/2 0 1 2 mi.