



Bedrock Geology of the Mt. Mansfield Quadrangle

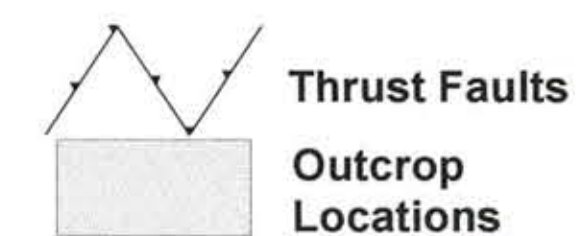
Peter Thompson and Thelma B. Thompson

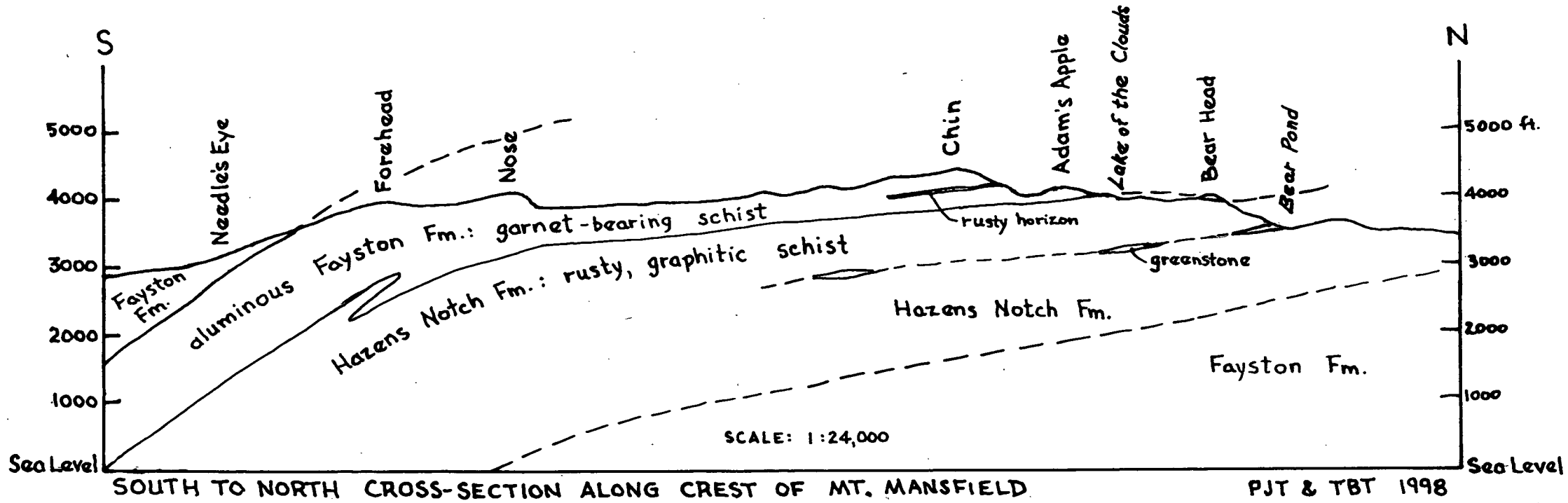
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LITHOLOGIC UNITS		Other Units	
Foot Brook Formation		g	Chlorite-albite-epidote-carbonate greenstone, +/- magnetite, amphibole
CZfb	Rusty green to patchy graphitic, quartz-muscovite-chlorite schist and quartzose phyllite; local thin dark to white quartzite; local greenstone	s	Serpentine; talc-carbonate schist; actinolite schist
Hazens Notch Formation		tc	Talc-carbonate schist
CZhn	Rusty-weathering quartz-muscovite-chlorite +/- albite (gray to black) +/- garnet schist interlayered with black-weathering graphitic quartz-muscovite-chlorite schist; rusty-weathering quartz-muscovite-chlorite-pyrite schist, +/- tourmaline, ilmenite; black and white quartzite; local quartz-feldspar-biotite gneiss. Also layers similar to Mt. Abraham Formation especially near Peaked Mt. Greenstone.		
Peaked Mountain Greenstone			
CZhn	Chlorite-albite-carbonate greenstone, +/- epidote, amphibole		
Fayston Formation			
CZf	Silver-green weathering chlorite-quartz-muscovite schist and gneiss, +/- albite (white to gray), +/- magnetite; local white quartzite layers; local quartz-feldspar-biotite-muscovite gneiss		
CZfa	Aluminous, silver-green to blue-black chlorite-muscovite-quartz phyllite and schist, +/- garnet, chloritoid, ilmenite, magnetite		
Battell Formation			
Cbw	Graphitic, quartzose phyllite and schist with tan-weathering layers and pods of gray dolomite and black quartzite; muscovite-quartz-biotite-chlorite schist		
Underhill Formation			
CZu	Silver-green to tan-weathering chlorite-quartz-muscovite phyllite and schist, +/- magnetite, dolomite; quartz granule chloritic and/or biotitic metawacke		
Pinnacle Formation			
CZp	Gray quartz-feldspar-biotite-chlorite-muscovite +/- magnetite metawacke, schist, and phyllite		





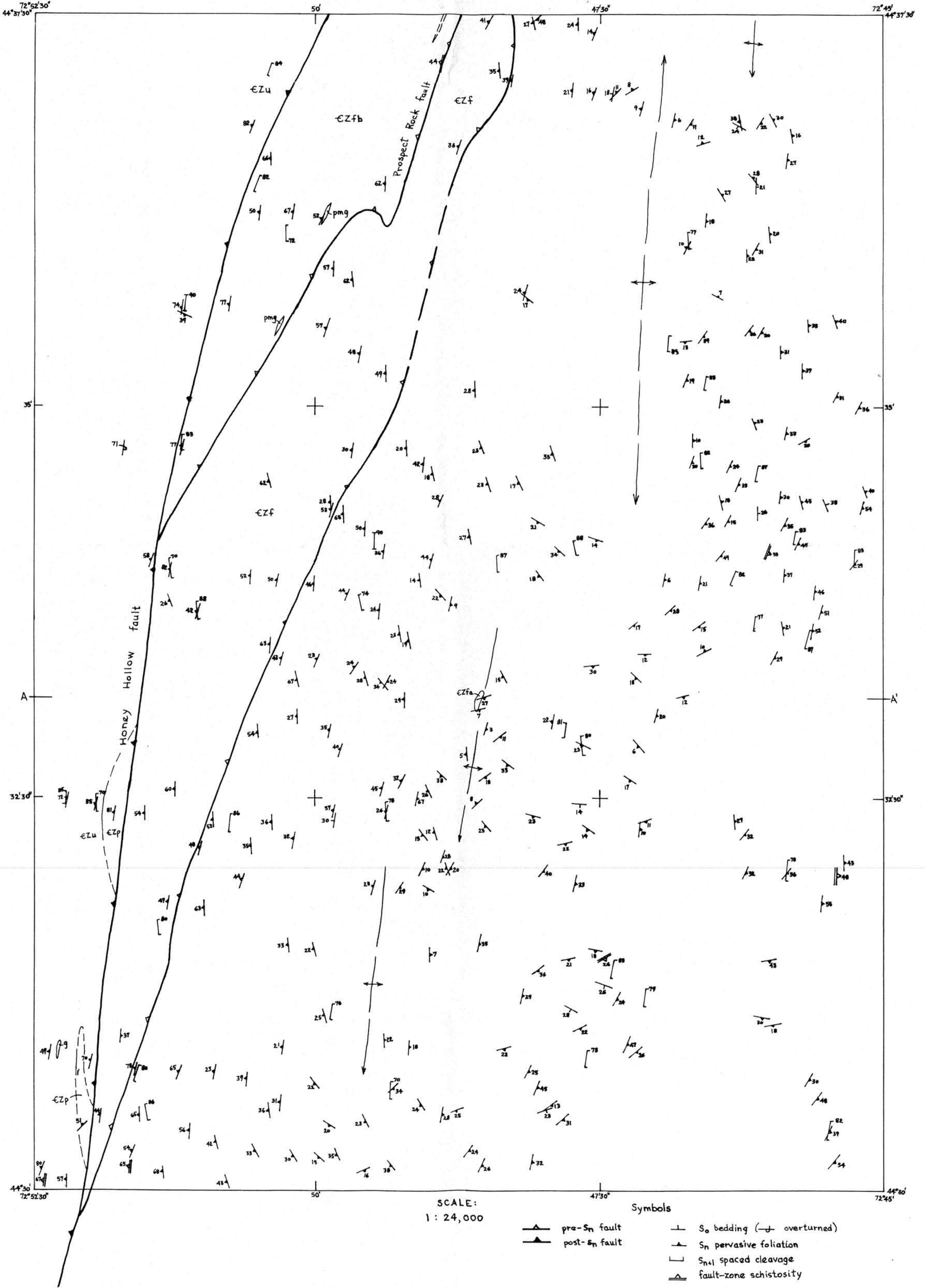
SOUTH TO NORTH CROSS-SECTION ALONG CREST OF MT. MANSFIELD

PJT & TBT 1998

Planar Structures — Mt. Mansfield Quadrangle, Vermont

P.J. & T.B. Thompson, August 1998

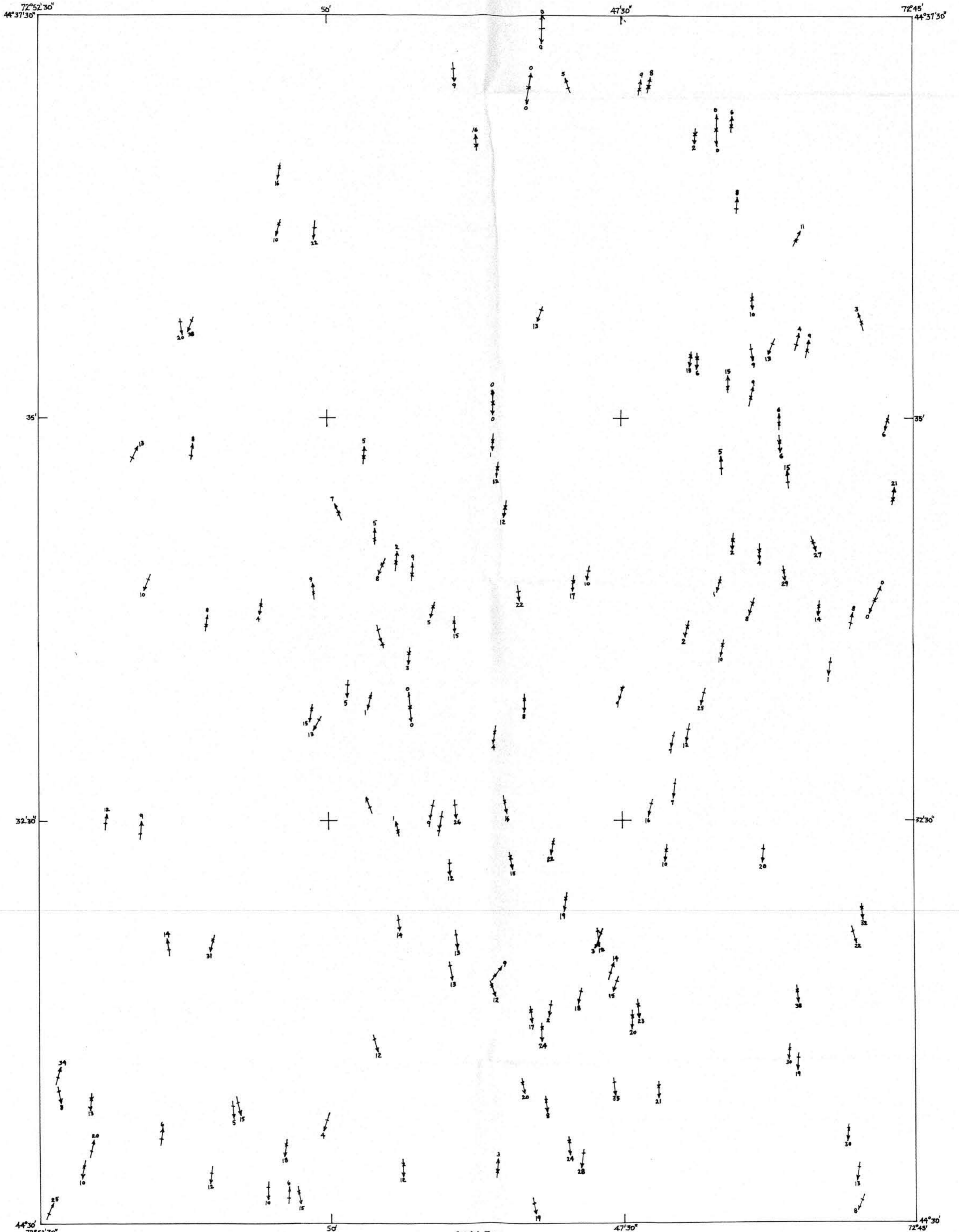
with significant revisions: extension of EZfb "Foot Brook rocks" and Prospect Rock fault south from Jeffersonville Quad.



SCALE:
1 : 24,000

Symbols

- pre-S_n fault
- post-S_n fault
- S₀ bedding (— overturned)
- S_n pervasive foliation
- S_{n+1} spaced cleavage
- fault-zone schistosity



SCALE:
1: 24,000

Symbols
→ F₃ (F_{n+1}) fold axis
*→ L₃ intersection s_n × s₃ (|| to crenulations)