



Bedding, tops known (inclined, horizontal, overturned) .....

Bedding, tops unknown (inclined, vertical).....

Flow layering in volcanic rocks.....

Geological boundaries (defined, approximate, assumed).....

Unconformities (defined, approximate, assumed).....

Faults (brittle, thrust, ductile); .....

arrows indicate direction of movement

Exposures (in place, volcanic rocks, float) .....

**STRUCTURAL SYMBOLS:**

Schistosity, gneissosity (Precambrian) .....

Cleavage (penetrative, non-penetrative) (Precambrian).....

Cleavage (Carboniferous) .....

Mineral lineation .....

Intersection lineation (bedding/cleavage, cleavage/cleavage).....

Minor folds (S-sense, Z-sense, intrafolial).....

Major folds (anticline, syncline, overturned syncline).....

Fold axial traces (known, assumed); .....

arrow indicates direction of plunge

Diabase dyke .....

Granitoid dyke .....

Gravity anomaly.....

RADIOMETRIC AGES: numbers refer to age date in Ma ..... **341.4 Rw**

K: K/Ar system dates; R: Rb/Sr system dates;

w: whole rock; m: mineral; mu: muscovite; b: biotite;

h: hornblende.

FOSSIL LOCALITIES ..... F

MINERAL OCCURRENCES ..... •Au

Cu - copper U - uranium diat - diatomite

Pb - lead Th - thorium clay - clay

Zn - zinc F - fluorine rock - rip rap,

As - arsenic La - lanthanum road metal

Au - gold V - vanadium

Fe - iron Ag - silver

We wish to acknowledge the mapping of Howard Donohoe and Peter Wallace in this area (1982), without which, this study could not have been accomplished.

Stratigraphy modified after Donohoe and Wallace (1982)

		NORTH	SOUTH
DEV- CARB	11 Devonian-Carboniferous plutons (a) gabbro, diorite (b) granite	9 Fountain Lake Group (a) mafic (b) felsic (c) sediments	10 Nuthy
DEV	8 Portapique River and Murphy Brook Formations	L	
SIL	7 Wilson Brook Formation	A	
ORD	6a Silurian volcanic rocks??	N	
		D	
		6 undivided	
		B	
		R	
		5 Late Precambrian-Cambrian plutons (a) granite gneiss (b) granite (c) appinitic gabbro	
		K	

HADR- YNIAN	4 (a) Jeffers Group (b) Warwick Mountain Formation (c) Dalhousie Mountain Volcanics	F		3 Polly River Formation
		U		unconformity
		L		
		T		2 Gamble Brook Formation (a) lower (b) upper unconformity?
				1 (a) Mount Thom Complex (b) Great Village River Gneiss

Scale: 1:50,000.

**PRELIMINARY GEOLOGICAL MAP**  
of the  
**EASTERN COBEQUID HIGHLANDS**

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Sheet 2 of 2

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