

GEOLOGY OF THE NORTHERN LEWIS HILLS,
WESTERN NEWFOUNDLAND

GEOLOGY BY J.A. KARSON

PLATE III

LINEATIONS & FOLD AXES in the NORTHERN
LEWIS HILLS²

Mineral Lineations

- IGNEOUS LINEATION—DEFINED BY PREFERRED DIMENSIONAL ORIENTATION (PDO) OF SUBHEDRAL GRAINS—USUALLY PLAGIOCLASE &/OR CLINOPYROXENE.
 - GREISSIC LINEATION—DEFINED BY PDO OF ELONGATE GRAINS AND AGGREGATES OF GRAINS—USUALLY PLAGIOCLASE &/OR HORNBLende.
 - TECTONITE LINEATION—DEFINED BY PDO OF ELONGATE GRAINS AND AGGREGATES OF GRAINS—USUALLY ORTHOPYROXENE OR CLINOPYROXENE &/OR PLAGIOCLASE.
 - LINEATIONS IN SHEAR ZONES—DEFINED BY PDO OF GRAINS AND AGGREGATES OF GRAINS.
 - SMALL CROSS BAR INDICATES LINEATION IN DIKE OR SILL.
- NOTE: LINEATIONS LIE IN THE PLANE OF COMPOSITIONAL LAYERING AND ARE GENERALLY COAXIAL WITH FOLD AXES.

Fold Axes

- ISOCLINAL FOLDS IN METAGABBROS & AMPHIBOLITES MAINLY ASSOCIATED WITH TECTONIC SLIDES & DISLOCATION ZONES.
- OPEN TO ISOCLINAL FOLDS IN MAFIC TO ULTRAMAFIC TECTONITES.
- TIGHT FOLDS ASSOCIATED WITH SHEAR ZONES.

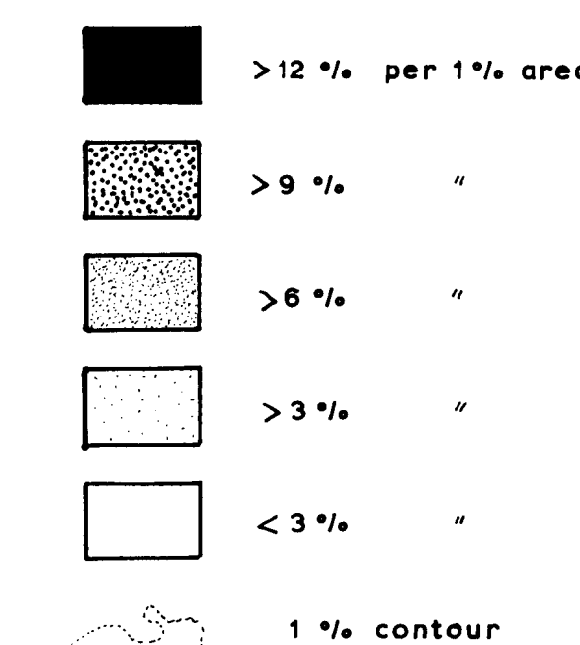
ALL OTHER CONTACTS AND SYMBOLS AS IN PLATE I

BOUNDARIES OF MAJOR HIGH STRAIN ZONES

BOUNDARIES OF VARIOUS SUBAREAS A-K
(SEE TEXT FOR DATA & DISCUSSION)

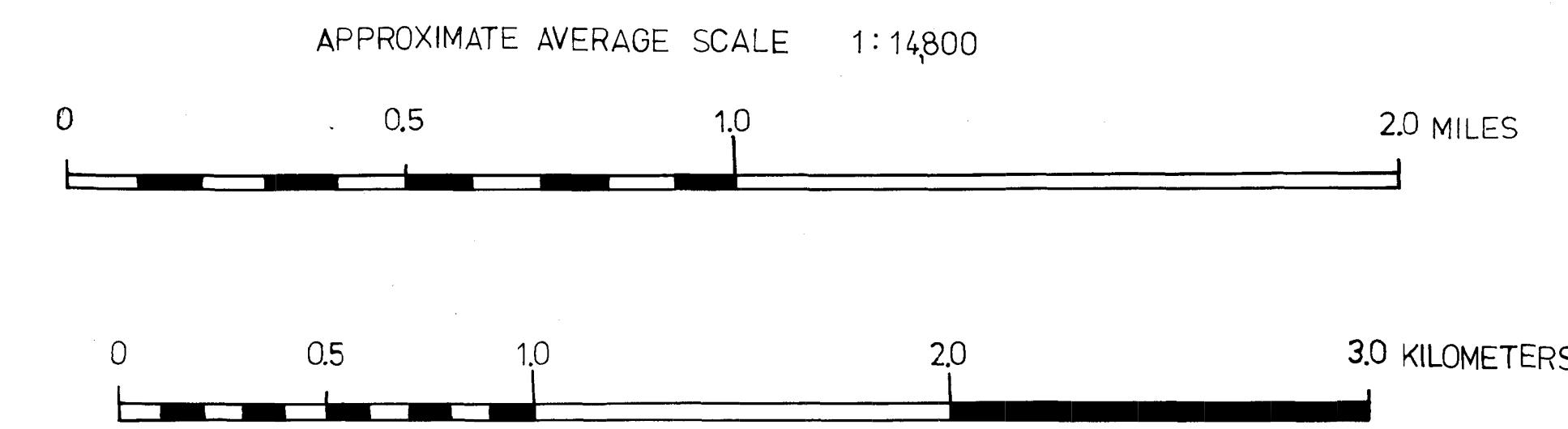
Orientation Diagrams

MINERAL LINEATIONS FOR INDICATED ROCK UNITS ARE CONTOURED ON LOWER HEMISPHERE EQUAL AREA PROJECTIONS. CONTOUR INTERVAL: 12%, 9%, 6%, 3%, per 1% area. NUMBER OF POINT CONTOURED IN PARENTHESIS.



CONTOUR ORNAMENT
SCHEME

1. SEE TEXT FOR PROCEDURE
2. MT. BARREN-CONE PEAK AREA MAPPED BY S. O'CONNELL, 1976



NOTE: THIS MAP IS AN AIRPHOTOMOSAIC COMPILED. THE SCALE IS VARIABLE, ESPECIALLY NEAR ESCARPMENTS, AND THERE ARE CONCEALED MISPTS BETWEEN SOME OF THE PHOTOGRAPHS USED TO COMPILE IT. IT SHOULD NOT BE USED FOR VERY ACCURATE MEASUREMENTS.