

## REPORT REFERENCE:

Whalen, J.B., 1993, Petrographic, geochemical, and isotopic data on granites in New Brunswick and Gaspesie, Quebec; Geological Survey of Canada, Open File 2570.

This report consists of 1 figure plus 3 1:250 000 scale maps (2 sheets) and 1 diskette.

## INTRODUCTION

This Open File is an accompanying report to:

Whalen, J.B., 1992, Geology, petrography, and geochemistry of Appalachian granites in New Brunswick and Gaspesie, Quebec; Geological Survey of Canada, Bulletin 436.

This Open File makes available in digital format the mineralogical, geochemical and isotopic data reported in the body of and tabulated in the Appendices of Bulletin 436. In addition, it provides a hard copy of the sample locations plotted on 1:250K NTS bases. A copy of Bulletin 436 is required to understand aspects of the layout and organization of this data.

## FORMAT

The locations of studied plutons are given in Figure 1 (from Bulletin 436). Each pluton has been given a letter and a number identifier. The letter indicates the tectonostratigraphic zone it intrudes (H - Humber; D - Dunnage; G - Gander; A - Avalon). These pluton numbers are used throughout the tables on this. Locations of individual samples are plotted on Maps 1, 2 and 3 which have been spliced together from 1:250K NTS sheets. In addition, the UTM coordinates for each sample are tabulated in the "SAMPLE.\*" files. Sample locations can be much more accurately fixed using these coordinates and 1:50K NTS sheets.

Each digital data file is presented in two formats, lotus 123 spreadsheet (\*.WK1) and ASCII (\*.prt). These formats were chosen as they can readily be imported into most spreadsheet, database or word processing programs. Some minor manipulations of these files may be required before or following importation.

Files contained on this disk and their content are:

SAMPLES.WK1, .PRT	-	sample locations, batholith and or suite and descriptions
MODE1.WK1; MODE2.WK1	-	modal and mineralogical data
MODE.PRT	-	combined ASCII version of MODE1.WK1 and MODE2.WK1
METE1.WK1; METE2.WK1	-	major, trace and isotopic data on samples
METE.PRT	-	combined ASCII version of METE1.WK1 and METE2.WK1

Given below are introductory information for each of these data files:

## SAMPLES.\* FILES

Listed in these files in order of pluton code number ("Code") are locations of geochemical samples by NTS sheet ("Map"), easting ("East") and northing ("North"). Also given is a

batholith or suite name, a pluton, phase or unit name and a sample description. Unit letters (eg. "Ogp") refer to map units on map 1751A.

Key to abbreviations used in sample descriptions:

vfg = very fine grained	dk = dark
fg = fine grained	amph = amphibole
mg = medium grained	bt = biotite
cg = coarse grained	chl = chlorite
vcg = very coarse grained	ep = epidote
eq = equigranular	feld = feldspar
porph = porphyritic	Kfld = K-feldspar
diss = disseminated	musc = muscovite
amygd = amygdaloidal	neph = nepheline
fol = foliated	ol = olivine
incl = inclusions	plag = plagioclase
metased = metasedimentary	px = pyroxene
pheno = phenocrysts	py = pyrite
alt = alteration	qtz = quartz
miar = miarolitic	

#### MODE.\* FILES

Listed in these files are modal and mineralogical data for analyzed samples. Samples are listed in the same order as other files on this diskette, beginning with the Humber Zone and ending with the Avalon Zone. Point counting techniques are described in Appendix 5 of Bulletin 436. Values tabulated below are given in volume percent and trace quantities (ie. <.1%) are indicated by "tr". For some deformed granites, in which the primary mafic mineralogy was not preserved, point counts were carried out on stained slabs only. No point counts were carried out on altered samples, most porphyries, very fine grained samples or strongly foliated samples. For these samples, the mineralogy of the sample is given by the presence of "X"'s opposite the minerals present.

#### METE.\* FILES

Tabulated in these files are all the major element, trace element and isotopic data collected during this study. Information on analytical methods and accuracy are given in Appendix 5 of Bulletin 436. Analyses are listed by zone in the same order as the other files on this diskette, starting with the Humber Zone and ending with the Avalon Zone. The pluton code is given above each analysis, as in Figure 1 of Bulletin 436. Major elements are in weight percent; TTE is the total of the trace element values. Trace element analyses are in part per million, except Au, which is in parts per billion.

Below the trace element data are listed isotopic ratios or values: 206/204= 206Pb/204Pb; 207/204= 207Pb/204Pb; 208/204= 208Pb/204Pb;  $\delta^{18}O$ =  $\delta^{18}O$ ; E-Nd=  $\epsilon_{Nd}$ ; tDM= tDM depleted mantle model age in Ga; E-400=  $\epsilon_{Nd}$  at 400 Ma. Pb data for New Brunswick samples (WXNB prefix) from Ayuso and Bevier (1991) with proper sample number identification from Bevier (1989 pers. com.). Other isotopic data are unpublished results of Whalen and coworkers.

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