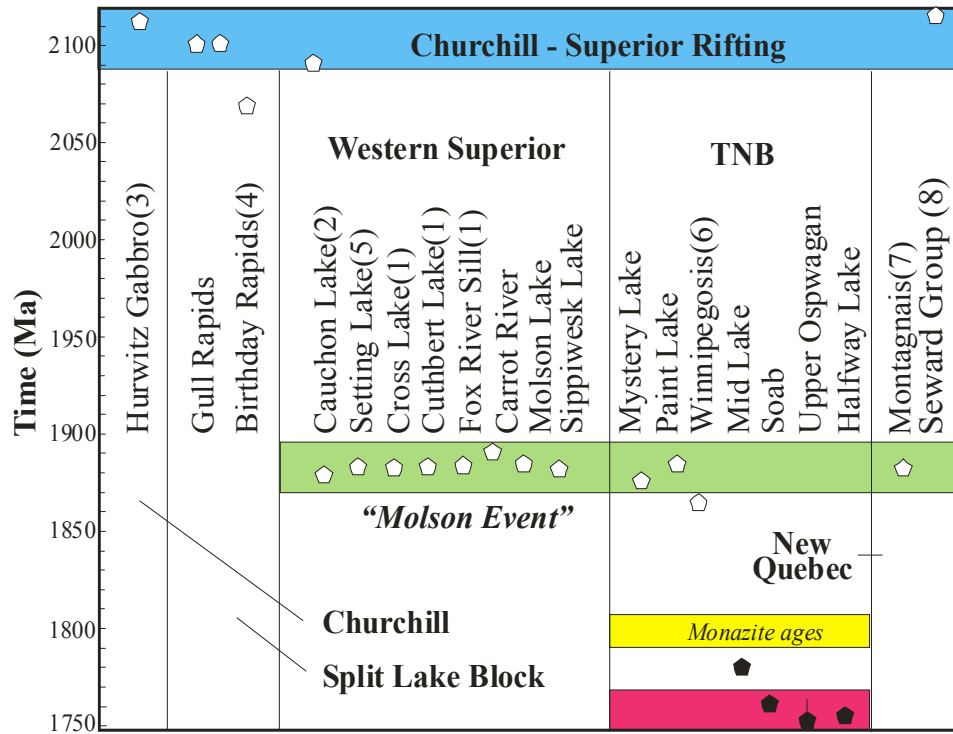
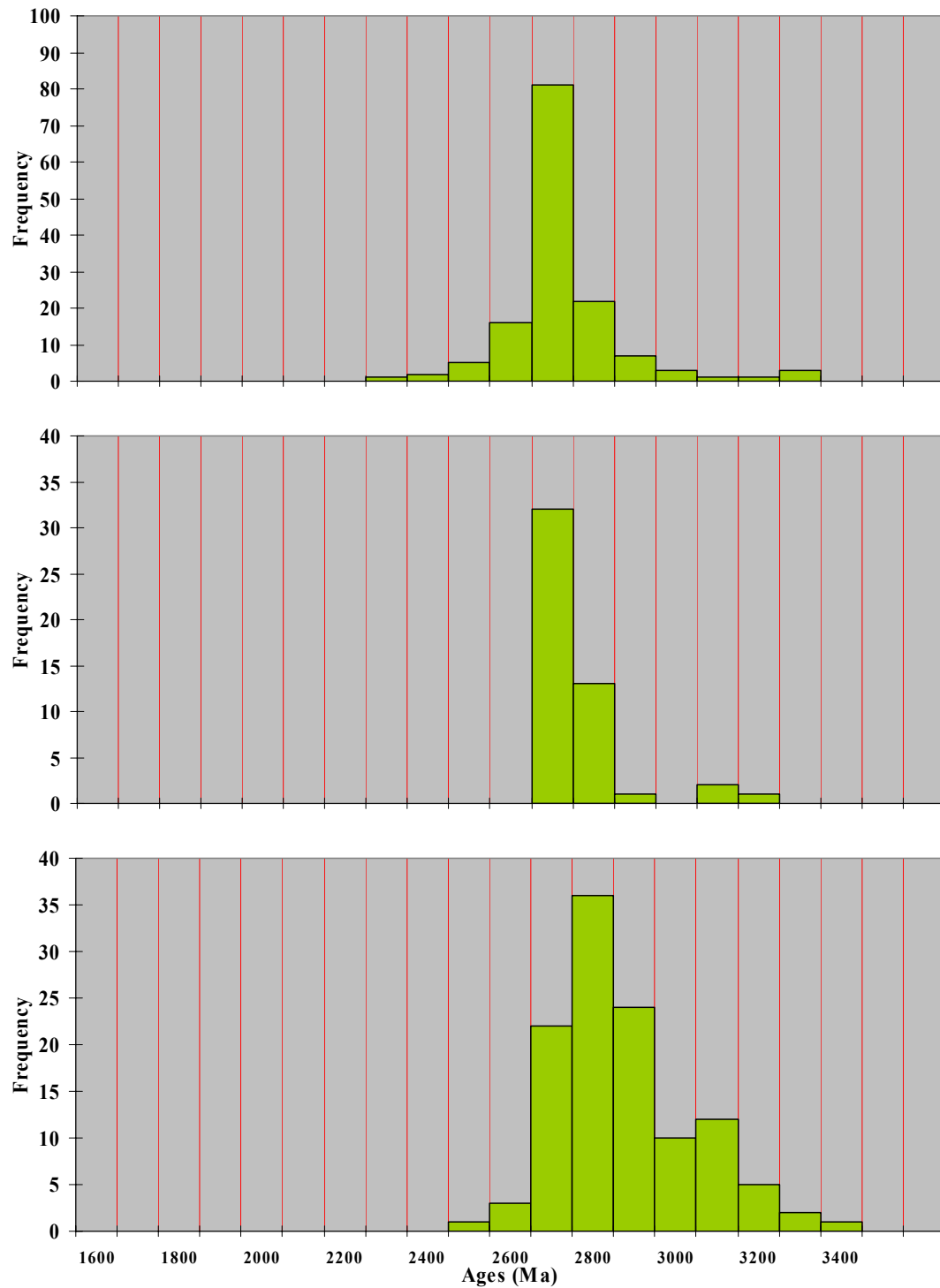


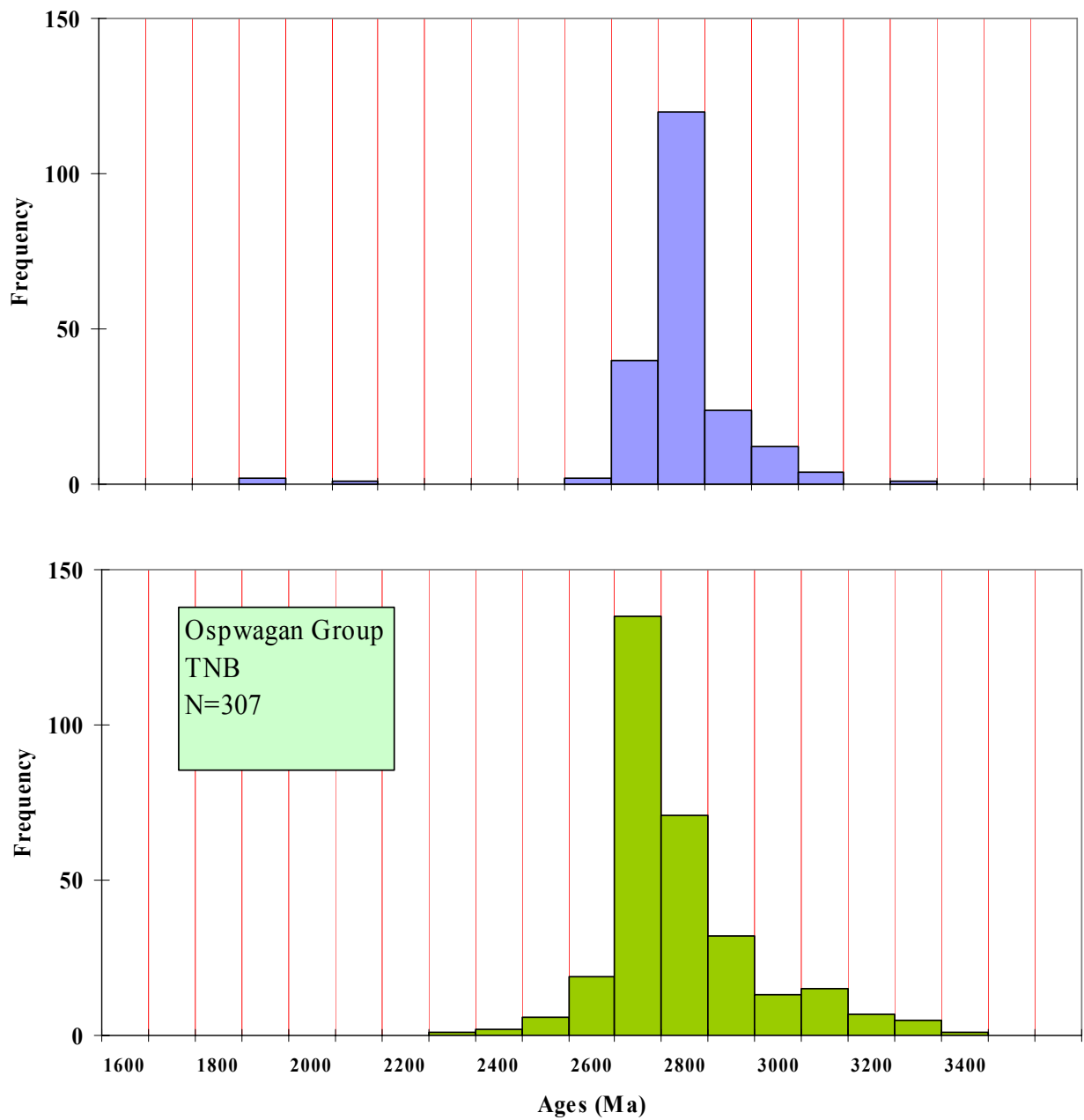
Figure 10.1 Locations of mafic dykes sampled for U-Pb age dating during CAMIRO Project 97E-02.



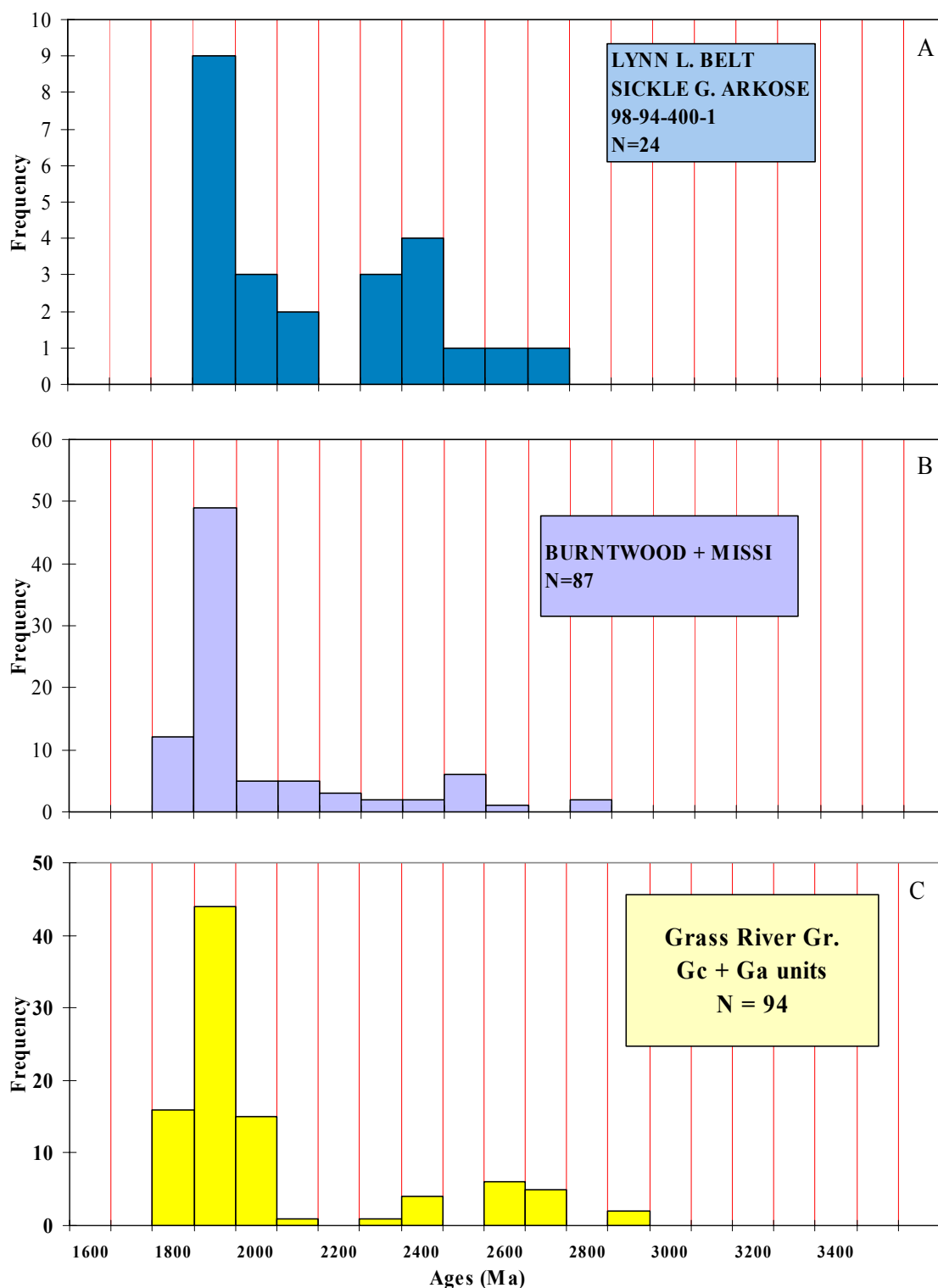
**Figure 10.2** Compilation of ages for mafic and ultramafic samples from the TNB. References: 1) Heaman et al., 1986; 2) Halls and Heaman (2000); 3) Heaman and Le Cheminant (1993), 4) Heaman and Corkery (1986); 5) Hulbert et al. (1998), 6) Hulbert et al. (1994), 7) Findlay et al. (1995); 8) Rohon (1989).



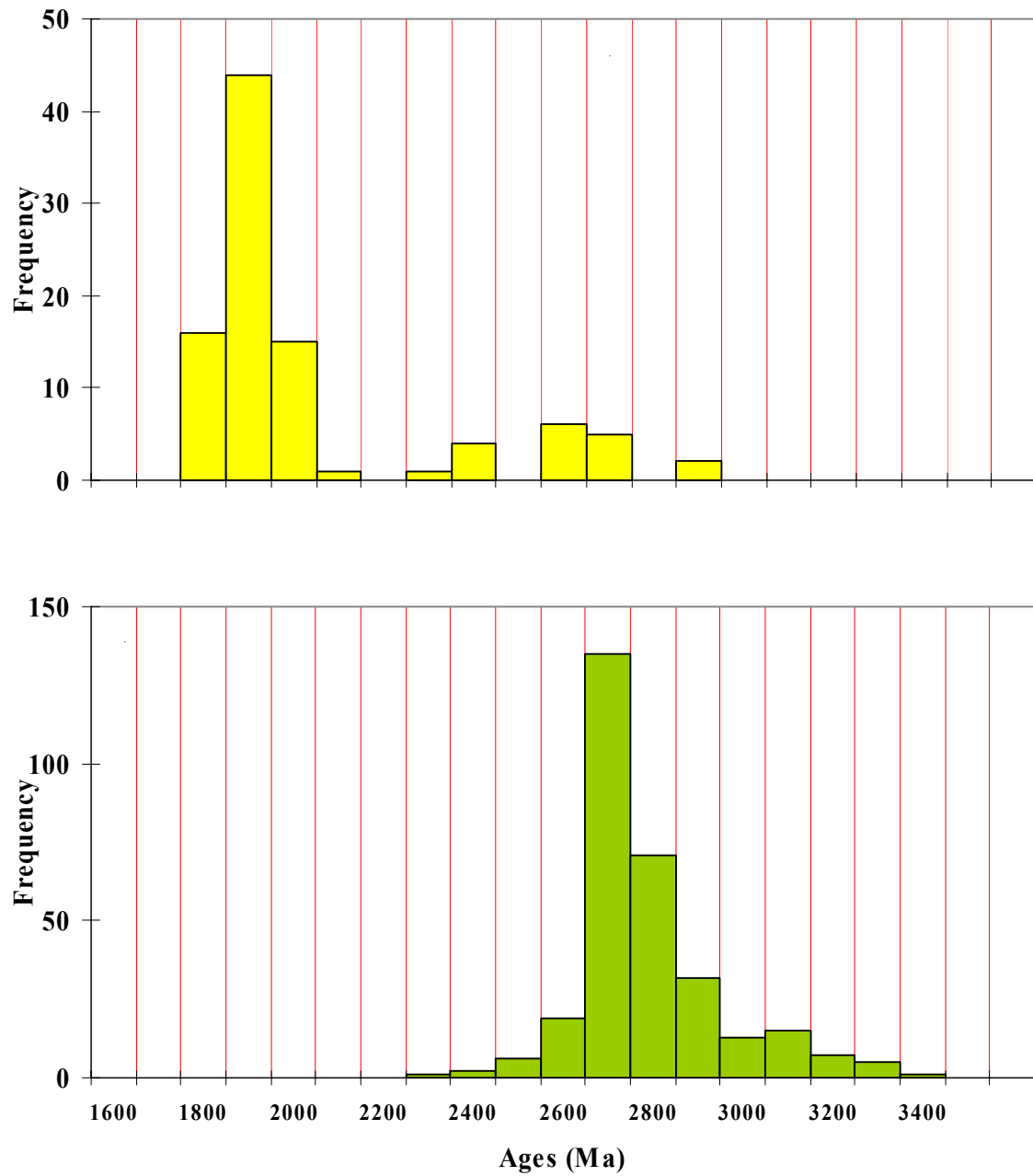
**Figure 10.3** Histograms for the  $^{207}\text{Pb}/^{206}\text{Pb}$  ages of detrital zircon from the Oswagan Group.



**Figure 10.4** Comparison of age distributions for the Ospwagan Group and the western Superior Province.

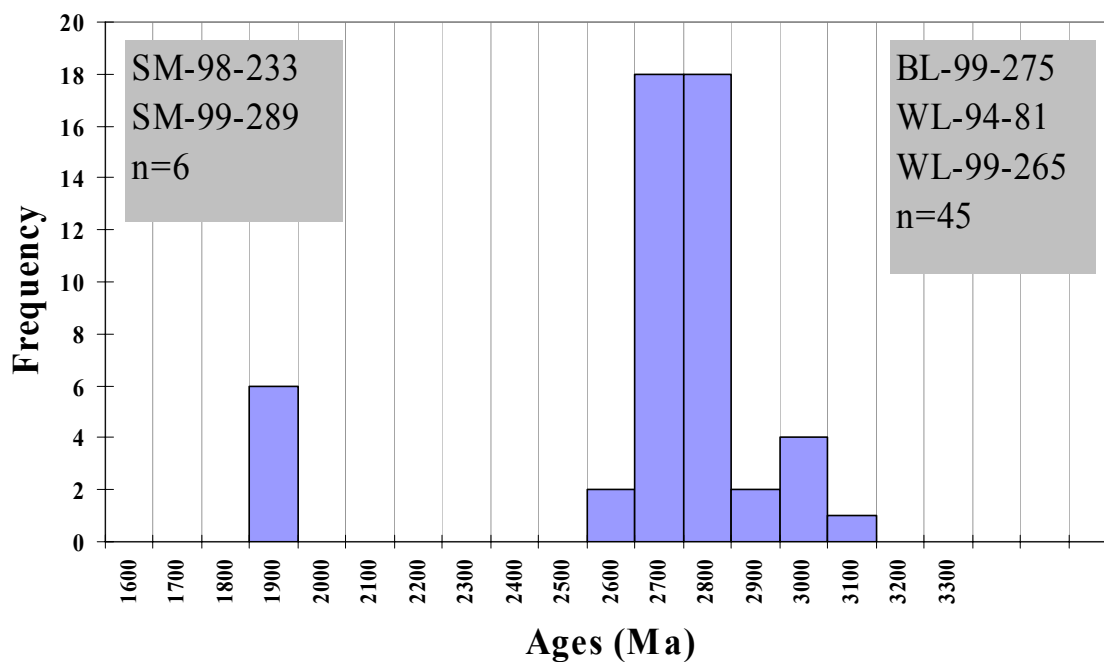


**Figure 10.5** Histograms of age distributions for the Grass River, Burntwood, Missi and Sickle Groups. Data for B from Ansdell et al., 1993; Ansdell, 1993; Machado et al., 1990

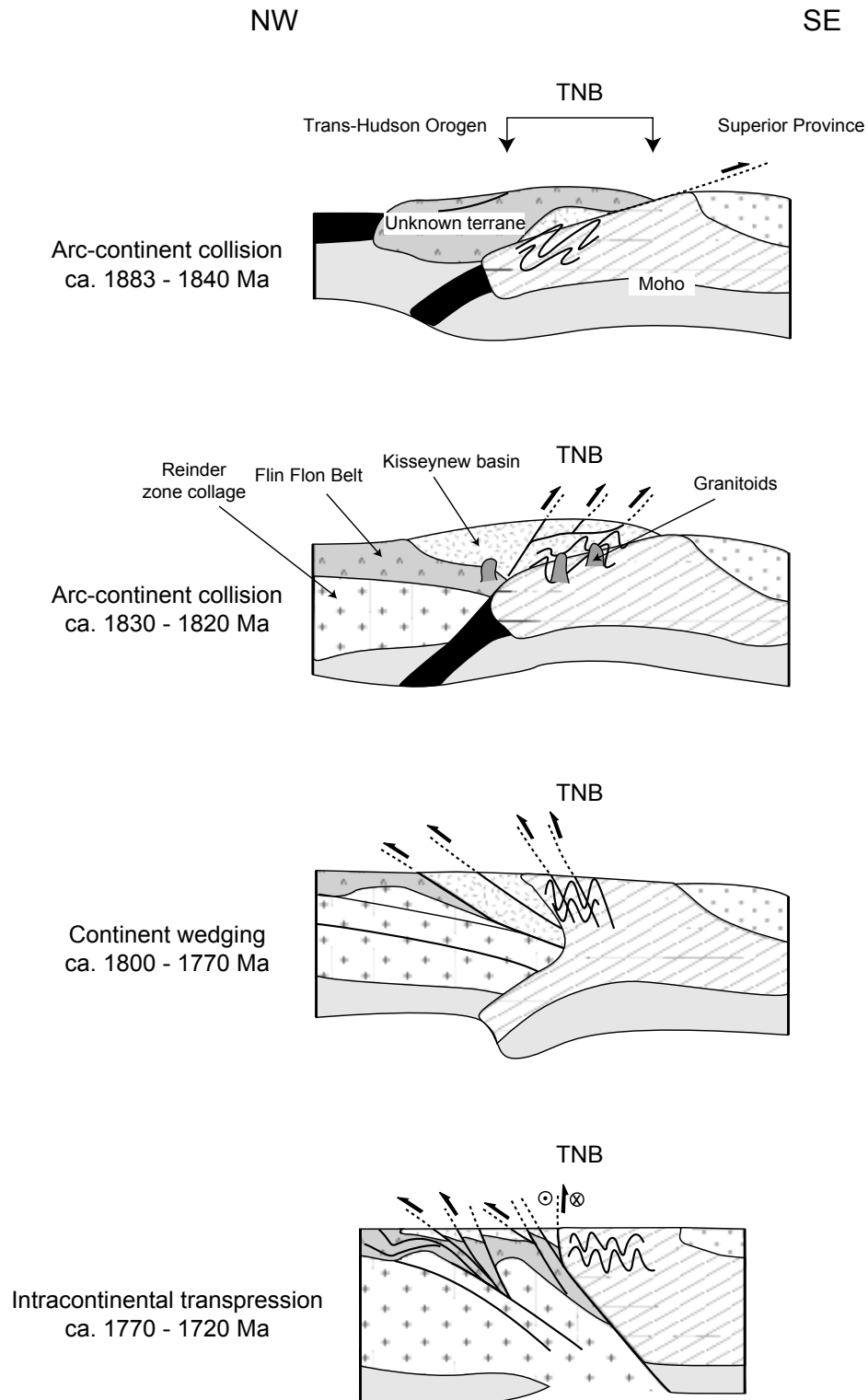


**Figure 10.6**  $^{207}\text{Pb}/^{206}\text{Pb}$  age distribution of detrital zircons from the Oswagan and Grass River Groups.

## Detrital zircon - Falconbridge (CAMIRO)

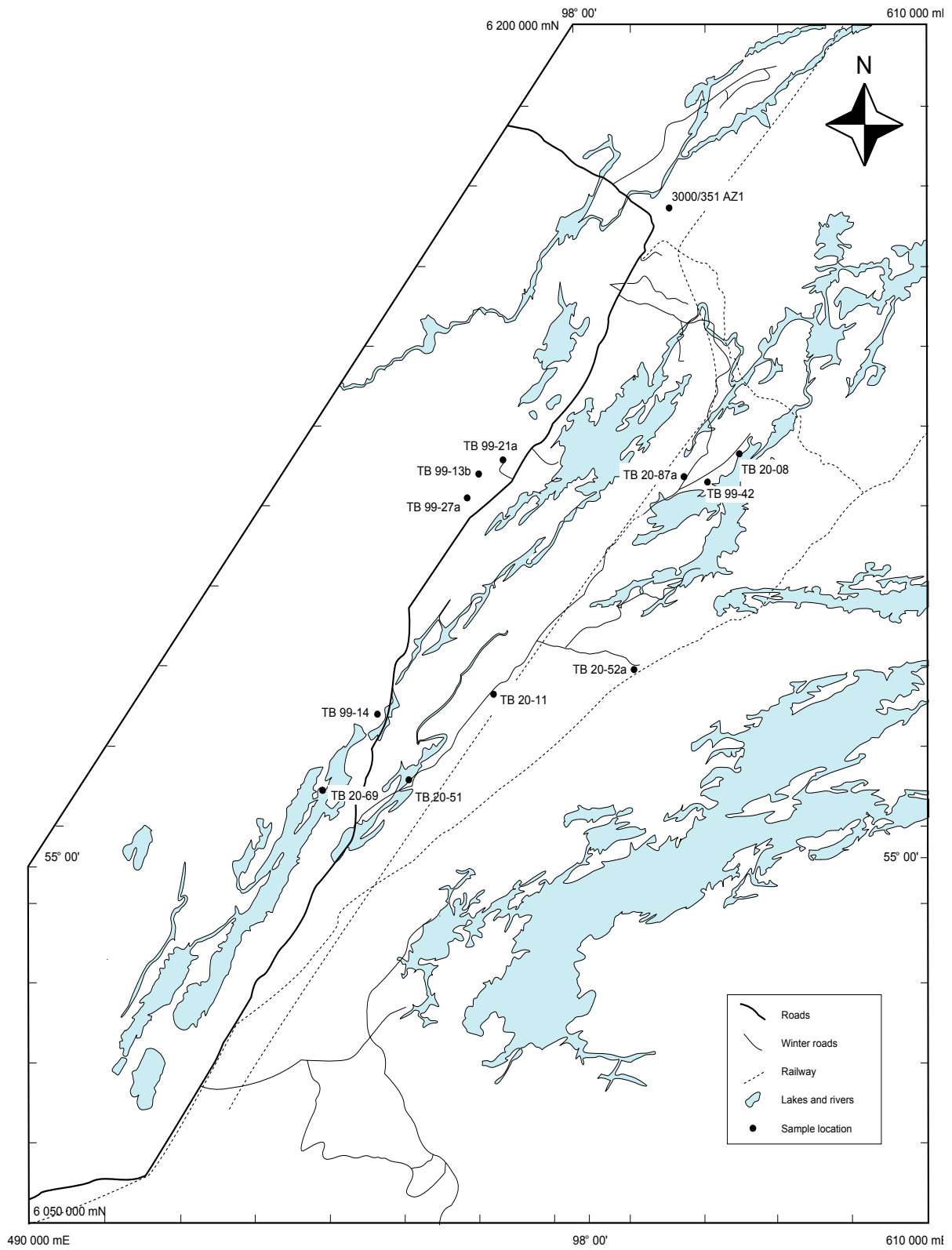


**Figure 10.7**  $^{207}\text{Pb}/^{206}\text{Pb}$  age distribution for five drill holes. Notice the clear distinction between the ages from holes sunk in Archean and in Paleoproterozoic domains.

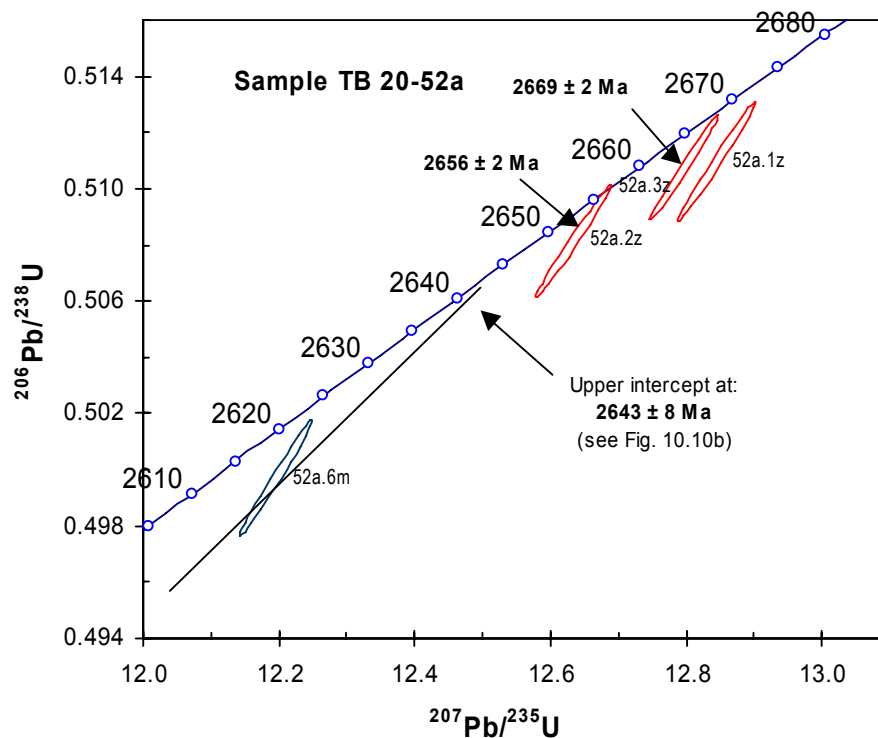


**Figure 10.8** Tectonic model for the TNB proposed by Bleeker (1990b) and modified by White et al. (1999).

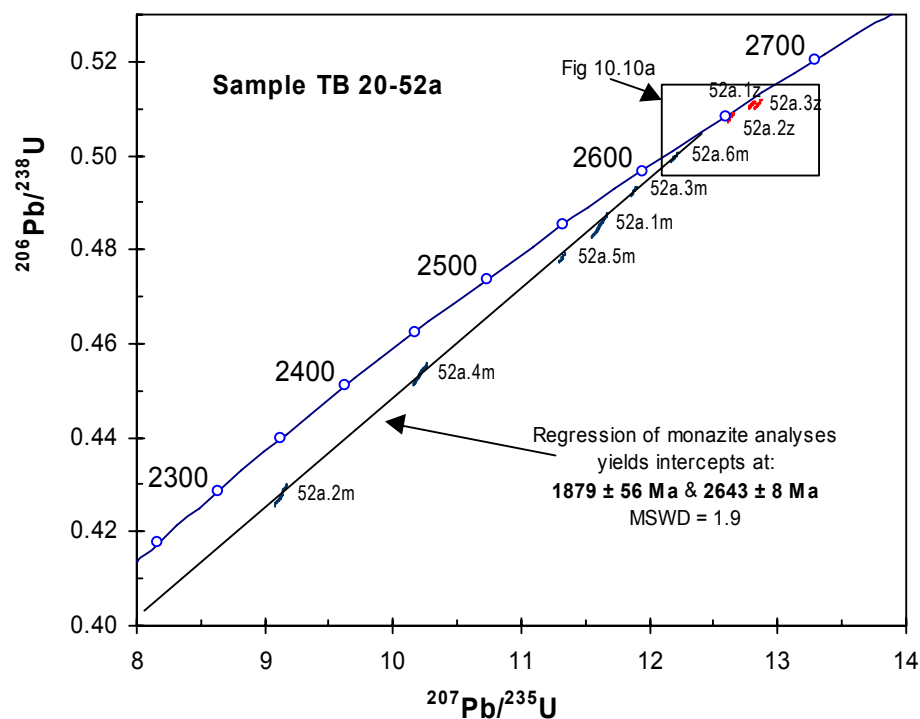




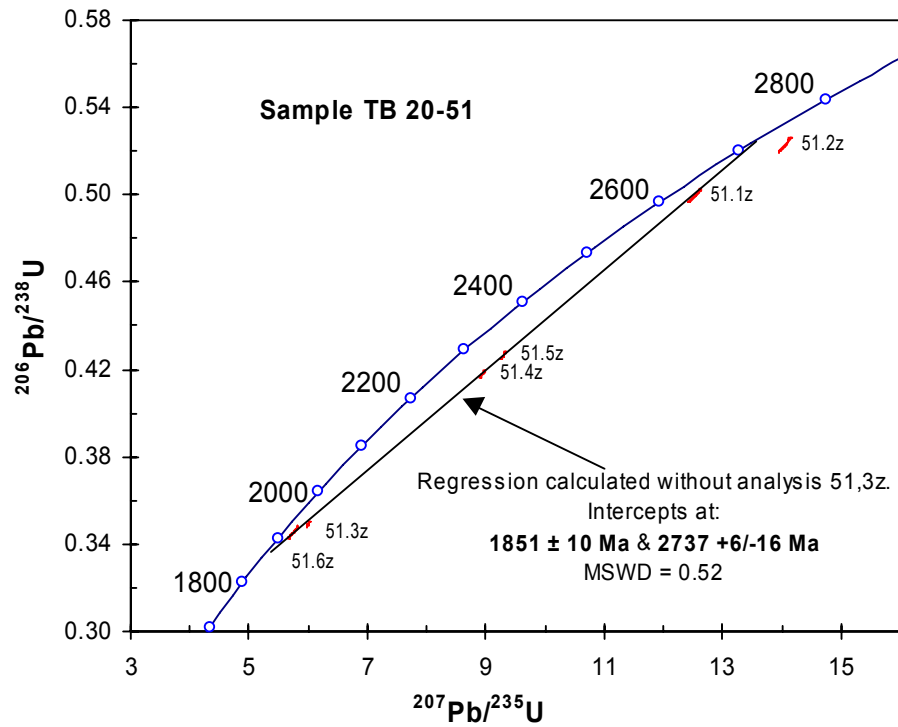
**Figure 10.9** Sampling locations for U-Pb study of felsic rocks and pegmatites.



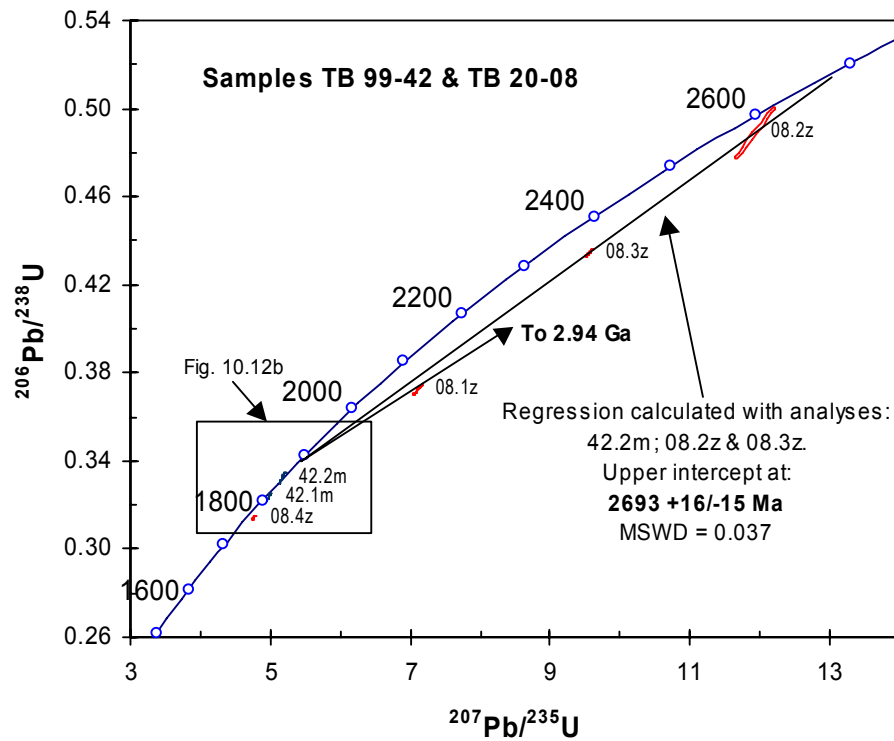
**Figure 10.10a** Concordia diagram for zircon and monazite from pegmatite TB 20-52a.



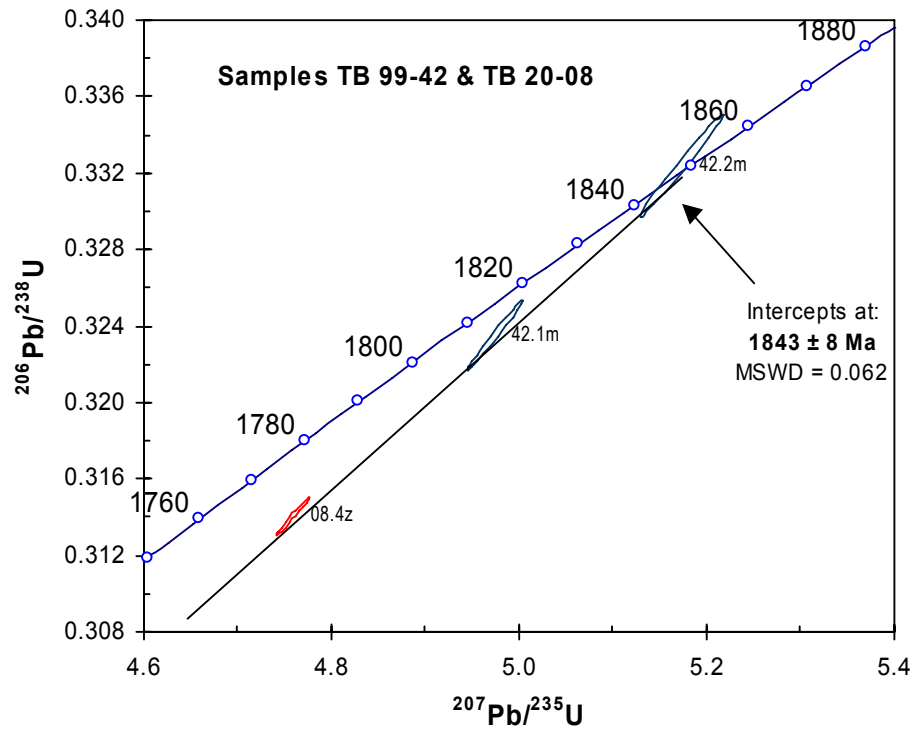
**Figure 10.10b** Concordia diagram for zircon and monazite from pegmatite TB 20-52a.



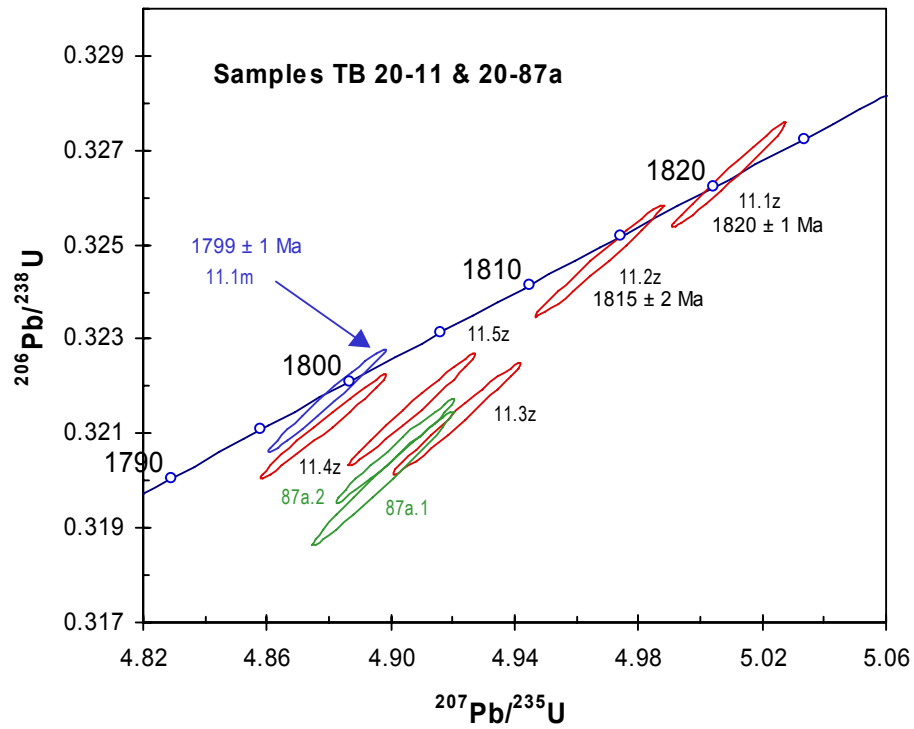
**Figure 10.11** Concordia diagram for zircon and granite TB 20-51.



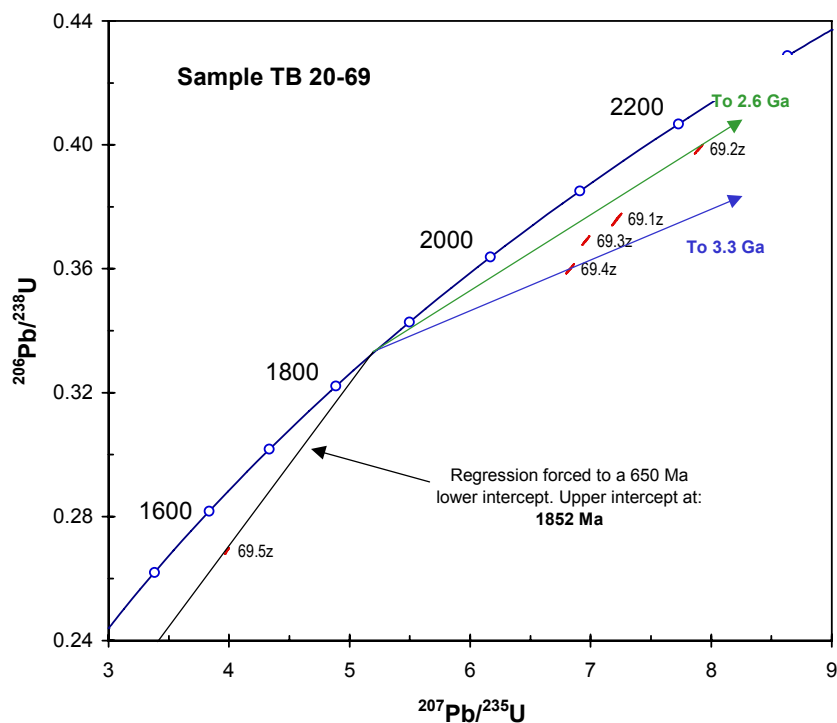
**Figure 10.12a** Concordia diagram for zircon and monazite from granite samples TB 99-42 and TB 20-08.



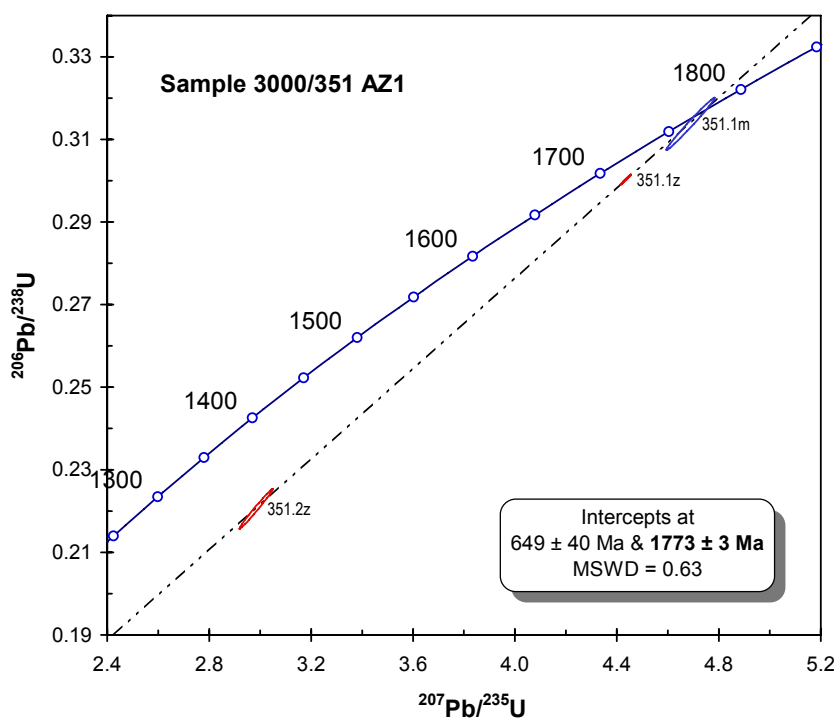
**Figure 10.12b** Concordia diagram for zircon and monazite from samples TB 99-42 and TB 20-08.



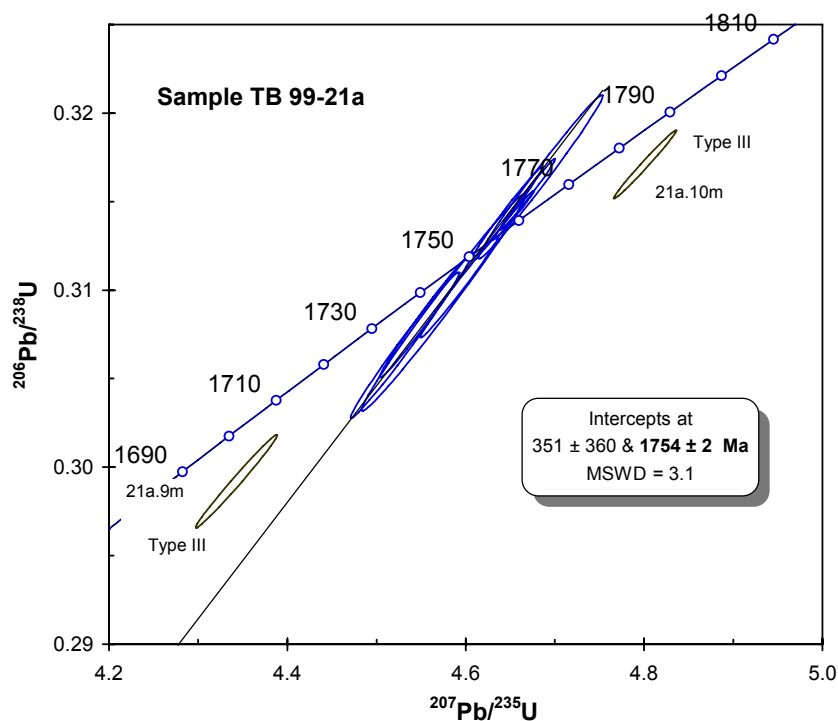
**Figure 10.13** Concordia diagram for zircon and monazite from pegmatites TB 20-11 and TB 20-87a.



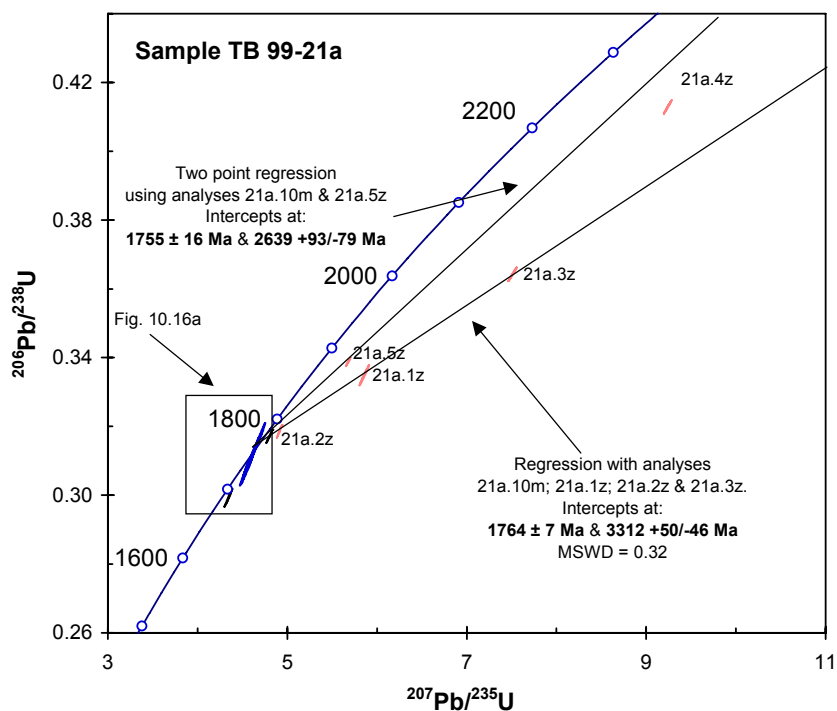
**Figure 10.14** Concordia diagram for zircon from granite TB 20-69.



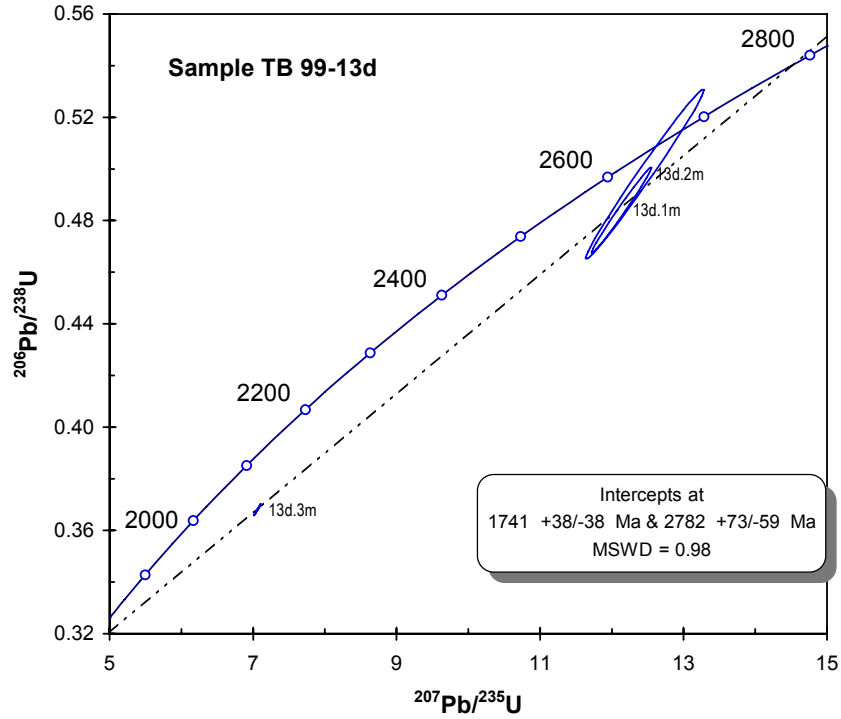
**Figure 10.15** Concordia diagram for zircon and monazite from pegmatite 3000/351 AZ1



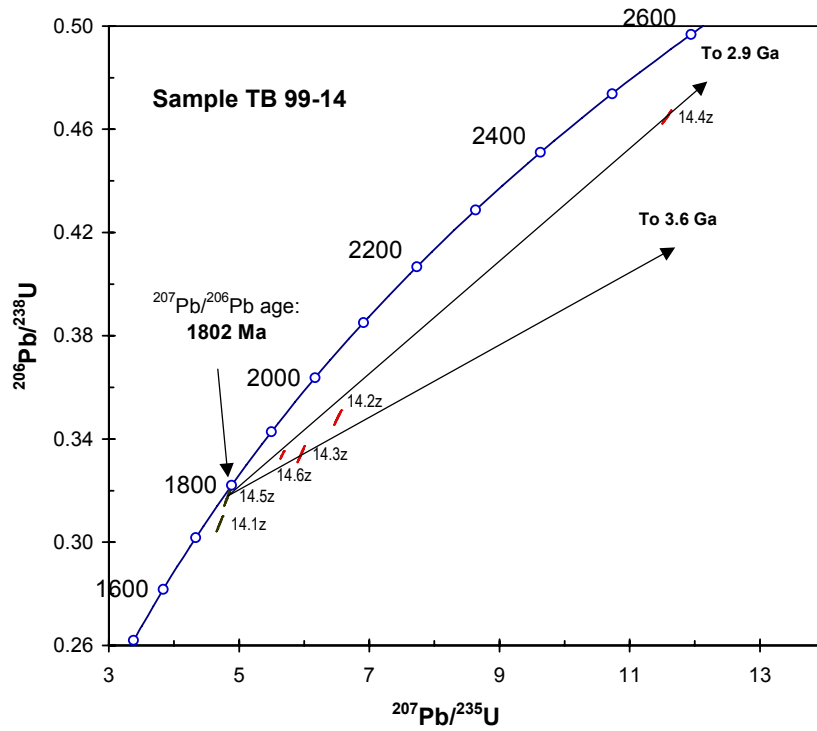
**Figure 10.16a** Concordia for monazite from pegmatite TB 99-21a. The two discordant analyses 21a.9m and 21a.10m were not used in the regression.



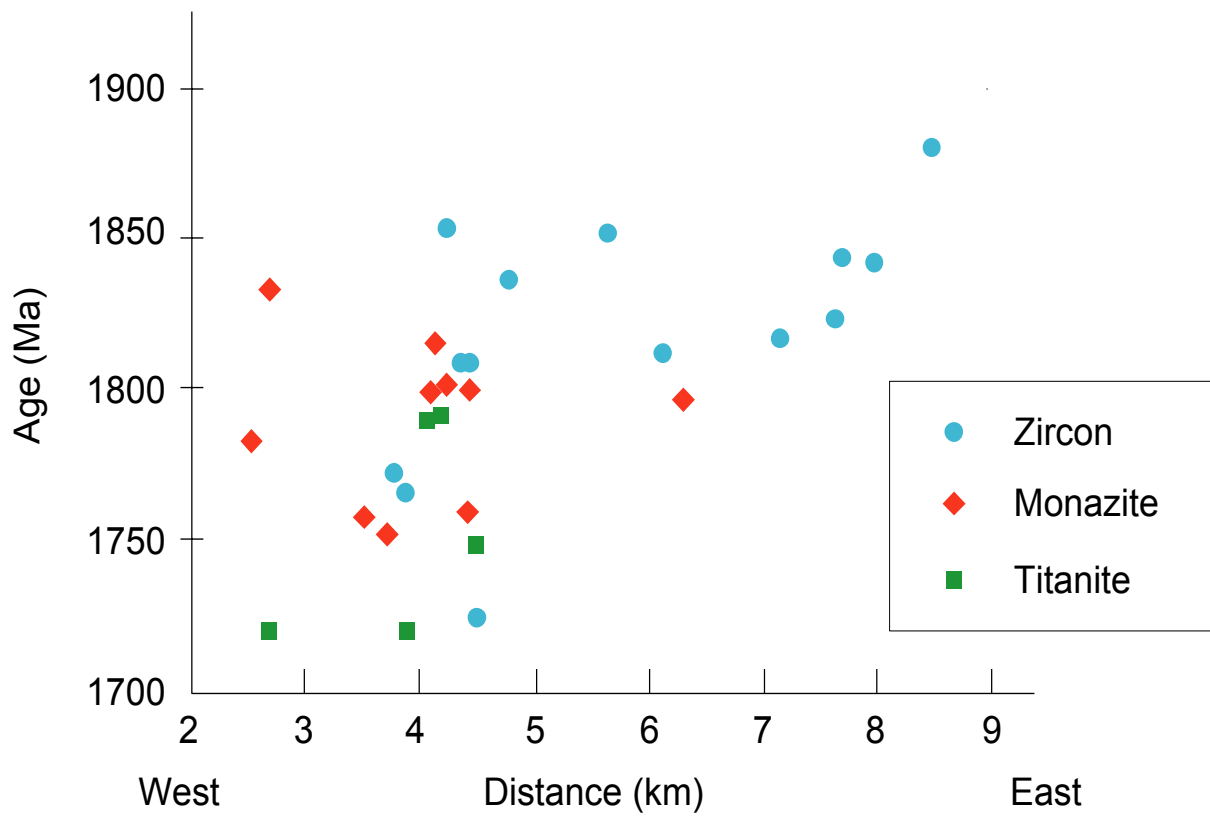
**Figure 10.16b** Concordia diagram for zircon and monazite from pegmatite TB 99-21a.



**Figure 10.17** Concordia diagram for monazite from pegmatite sample TB 99-13d.

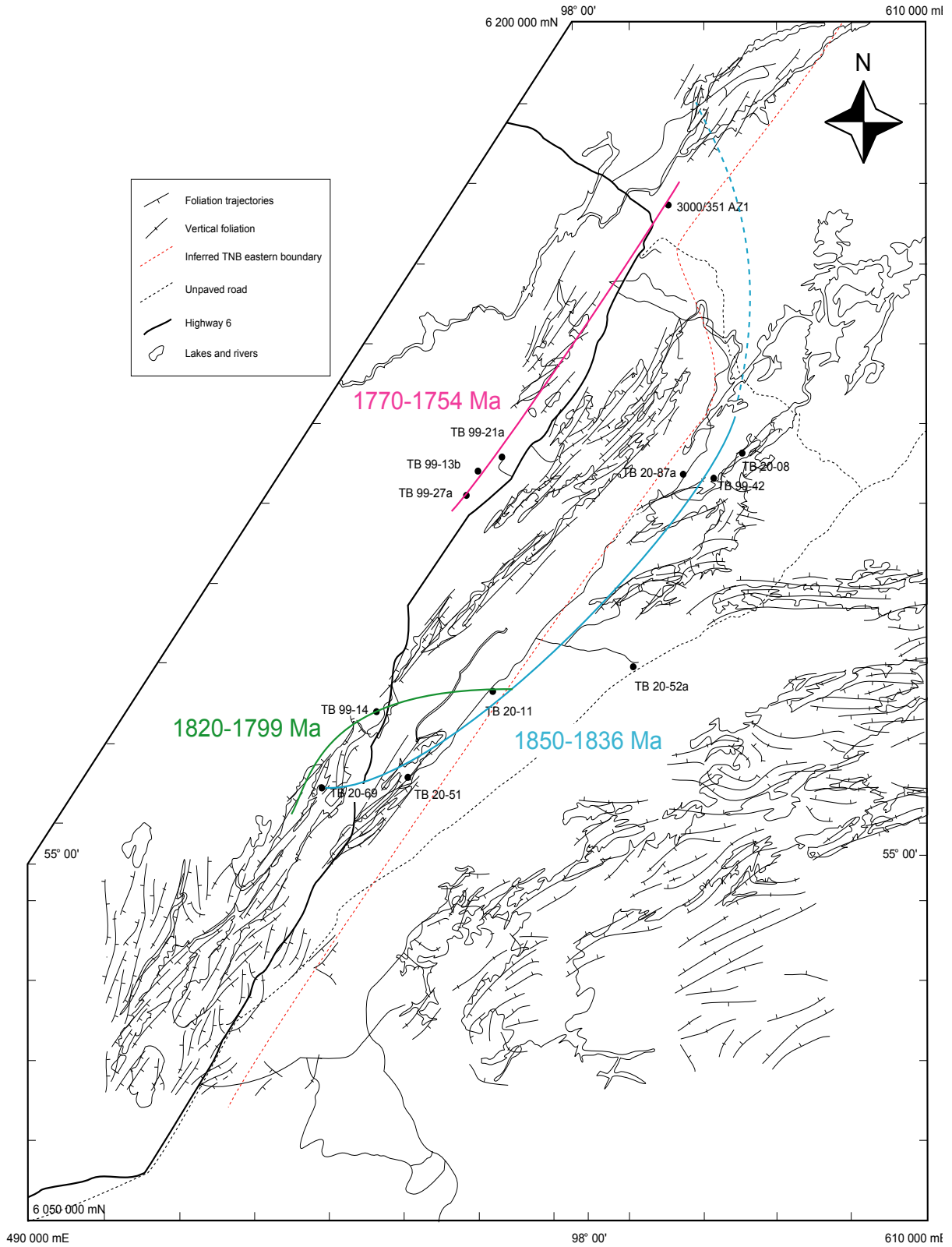


**Figure 10.18** Concordia diagram for zircon from Archean gneiss TB 99-14.



**Figure 10.19** Diagram showing the U-Pb metamorphic ages obtained for the TNB as a function of distance from the Kisseynew Domain (U-Pb data, from Machado et al., unpublished data and Potrel et al., this work).





**Figure 10.20** U-Pb metamorphic ages reported on the general foliation map for the belt. Coloured curves indicate isochrones, with labels of the same colour.