APPENDIX 1

The following version of table 1 is expanded to include citations and references.

TABLE 1. KNOWN AND PROBABLE IAPETAN NORMAL FAULTS

Locality*	Strike	Side down	Age+
1. Southeastern Labrador§	NE	SE	P-Є
Geologic mapping, geochronology (Gower and others, 1986)			
2. Lower St. Lawrence seismic zone	NE	..	..
Focal mechanisms, diffuse alignments of earthquake epicenters, analogy to Charlevoix, Quebec (Adams and others, 1988, 1989; Adams and Basham, 1991)			
3. Charlevoix, Quebec	NE	SE	Є
Tabular zones of precisely located earthquake foci (Anglin, 1984), focal mechanisms (Hasegawa and Wetmiller, 1980; Adams and others, 1988; Wetmiller and Adams, 1990; Bent, 1992), analogy to nearby faults (Adams and Basham, 1991), geologic mapping (Rondot, 1972, 1979)			
4. Southeastern Quebec	E,NE	S,SE	Є-MO
Well logs, seismic reflection profiles, geologic mapping (Houde and Clark, 1961; 9 smaller-scale maps in Quebec Department of Natural Resources Geological Reports; St. Julien and others, 1983)			
5. Southeastern Ontario	NE	SE,NW	Є-EO
Geologic mapping (Ontario Geological Survey, 1991)			
6. McGregor fault, eastern Adirondacks, N.Y.	N	E	P
Geologic mapping and microstructural analysis (Isachsen and McKendree, 1977; Willems and others, 1983)			
7. Clarendon-Linden fault zone, N.Y.	N	E	Є-MO
Well logs, seismic reflection profiles (Van Tyne, 1975; Pomeroy and others, undated; A.M. Van Tyne, oral commun., 1989), focal mechanisms (Herrmann, 1978), earthquakes induced on or near mapped faults by fluid injection (Fletcher and Sykes, 1977), location on trend from Olin basin in Pa.			
8. Northwestern side of Olin basin, Pa.	NE	SE	Є
Well logs show stacked changes in facies and thicknesses (Wagner, 1976; Berg, 1980), seismic reflection profile (Beardsley and Cable, 1983)			

9. Central Pennsylvania[§]	NE	SE	Є-EO

Well logs, seismic reflection profiles (Harris, 1978; Berg, 1980; R.T. Faill, oral and written communs., 1992)

10. Broadtop anticlinorium, Pa.	..	SE	Є

Seismic reflection profiles (Jacobeen and Kanes, 1975)

11. Rome trough, W.Va.[§]	NE	SE	Є

Well logs, seismic reflection profiles, magnetic modeling of basement depths (Harris, 1975, 1978; Kulander and Dean, 1978; Beardsley and Cable, 1983; Cable and Beardsley, 1983; Ryder, 1992; R.C. Shumaker, written commun., 1994)

12. Giles Co., southwestern Va.	NNE	ESE	Є

Tabular zones of precisely located earthquake foci, focal mechanisms (Bollinger and Wheeler, 1983, 1988; Munsey and Bollinger, 1985; Davison, 1988), seismic reflection profile (Gresko, 1985; Gresko and others, 1985)

13. Eastern Tenn.	NNE	..	Є

Tabular zones of precisely located earthquake foci, focal mechanisms, seismic reflection profile, analogy to Giles Co., Va. (Tegland, 1978; Johnston and others, 1985; Teague and others, 1986; Bollinger, 1987; Davison, 1988; Powell and others, 1994; R.L. Wheeler, unpublished results)

14. ADCOH site, Ga.-S.C.-N.C.	NE	SE	P-Є
	NNW	ENE	P-Є

Seismic reflection profiles (Favret and Williams, 1988; Hubbard and others, 1991)

15. Birmingham basement fault system, Ala.	NE	SE	Є

Well logs, seismic reflection profiles (Thomas, 1986, 1991)

Note: Table headings refer to first line of each numbered entry. Subsequent lines list types of evidence and cite references for the entries on first line. Leaders (..) indicate no data. Some of these faults may have been reactivated during Appalachian deformations (Rondot, 1972; Roksandic and Granger, 1981; St. Julien and others, 1983; Bradley and Kidd, 1991).

*Locality numbers key to circled numerals in Figure 2.

[†]Age of main fault slip: P, Late Proterozoic; Є, Cambrian; EO, Early Ordovician; MO, Middle Ordovician.

[§]These fault systems are grabens. Entries refer only to northwestern border faults of the grabens.

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