**Appendix 2:** Distribution of ages for the lavas along the **"**Cameroon Hot Line**"**

| Volcano | Rock type | Method | Age (Ma) | Reference(s) |
|---|---|---|---|---|
| Pagalů Island | basalt | K–Ar | 18.4 | Piper and Richardson (1972) |
| | basalt | K–Ar | 4.2 ± 0.2 | Lee et al. (1994) |
| | basanite | K–Ar | 5.35 ± 0.25 | Cornen and Maury (1980) |
| | benmoreite | Rb–Sr | 3.9 | Cornen and Maury (1980) |
| | basalt | Rb–Sr | 5.0 | Fitton and Hughes (1977) |
| São Tomé Island | trachyte | K–Ar | 15.7 | Grunau et al. (1975) |
| | trachyte | K–Ar | 13 | Fitton and Dunlop (1985); Hedberg (1968) |
| | trachyte | Rb–Sr | 7.6 | Fitton and Dunlop (1985) |
| | phonolite | Rb–Sr | 4.0 | Hedberg (1968) |
| | phonolite | Rb–Sr | 3.5 | Hedberg (1968) |
| | basanite | Rb–Sr | 2.5 | Hedberg (1968) |
| | basanite | Rb–Sr | 0.1 | Hedberg (1968) |
| Príncipe Island | basalt | K–Ar | 31 | Dunlop and Fitton (1979) |
| | basalt | K–Ar | 24 | Fitton and Hedberg (1977) |
| | hawaiite | K–Ar | 19 | Fitton and Hedberg (1977) |
| | nephelinite | K–Ar | 5.6–3.5 | Dunlop and Fitton (1979) |
| | basanite | Rb–Sr | 6.9–3.9 | Dunlop and Fitton (1979) |
| | dyke | Rb–Sr | 5.9 | Lee et al. (1994) |
| | intrusive lavas | Rb–Sr | 5.9 | Dunlop and Fitton (1979) |
| | phonolite | Rb–Sr | 5.3 | Dunlop and Fitton (1979) |
| Bioko Island | basalt | K–Ar | 1.1 | Hedberg (1968) |
| | basanite | K–Ar | 0.7 | Dunlop (1983); Piper and Richardson (1972) Hedberg |
| | basanite | K–Ar | 1.33 ± 0.7 | (1968); Aka et al. (2004) |
| Mt. Cameroun | basalt | K–Ar | 4.7 | Hedberg (1968) |
| | basalt | K–Ar | 0.5 | Hedberg (1968) |
| | basalt | K–Ar | 0.4 | Ngounouno et al. (2006) |
| Etinde Mt. | nepheline | K–Ar | 0.065 –1.1 | Le Maréchal (1976); Dunlop (1983); Fitton and Dunlop (1985); Fitton (1987) |
| | hauyne | // | 6.3 | Fitton (1987) |
| | nephelinite | // | 0.5 | Halliday et al. (1988) |
| | $K_2O$-rich nephelinite | K–Ar | 0.65 | Nkoumbou et al. (1995) |
| | nepheline | K–Ar | 0.34 | Le Maréchal (1976) |
| Rumpi Mts | basalts | K–Ar | 10–1 | Nkoumbou (1990) |
| Tombel Graben | basalt | K–Ar | 0.65–0.05 | Lee et al. (1994) |
| | basalt (Njombe) | K–Ar | 0 .01 ± 0.12 | Nkouathio et al. (2008) |
| | basalt (Njombe) | K–Ar | 0.01 ± 0.11 | Nkouathio et al. (2008) |
| | basalt (Loum) | K–Ar | 1.40 ± 0.08 | Nkouathio et al. (2008) |
| | basalt (Laha) | K–Ar | 3.87 ± 0.62 | Nkouathio et al. (2008) |
| | hawaiite (Nlohé) | K–Ar | 0.12 ± 0.12 | Nkouathio et al. (2008) |
| Manengouba Mts | basalt (Nkong) | K–Ar | 1.55 ± 0.1 | Gouhier et al. (1974) |
| | Qtz-bearing trachyte | K–Ar | 11.8 | Dunlop (1983) |
| | trachyte | K–Ar | 0.7 | Gouhier et al. (1974) |
| | basalt (Baré) | K–Ar | 30 | Tchoua (1974) |
| | basalt (Baré) | K–Ar | 23.83 | Tchoua (1974) |
| | basanite (Njinjo) | K–Ar | 0.40 ± 0.04 | Fitton and Dunlop (1985) |
| | basalt (Ndoungué) | K–Ar | 0.48 ± 0.26 | Fitton and Dunlop (1985) |
| | basalt (Ndoungué) | K–Ar | 0.94 ± 0.06 | Fitton and Dunlop (1985) |
| Noun Graben | rhyolite (Mbépit Massif) | | 45.5 ± 1.1 | Wandji et al. (2008) |
| | rhyolite | | 44.0 ± 1.0 | Wandji et al. (2008) |
| | basalt and tephras | | 0.57 ± 0.07 | Wandji et al. (2008) |
| | basalt | | 0.24 ± 0.08 | Wandji et al. (2008) |
| | basalt | | 51.8 | Moundi et al. (2007) |
| | basalt (Nkogam) | | 20 | Caen-Vachette et al. (1987) |
| | basalt | | 14.1 | Dunlop (1983) |
| | hawaiite | | 14.2 | Tchoua (1974) |
| Bambouto Mts | phonolite (Nzindeng) | K –Ar | 6.61 ± 0.17 | Nkouathio et al. (2008) |
| | basanite (Nzindeng) | K–Ar | 12.52 ± 0.29 | Nkouathio et al. (2008) |
| | basanite (Messeng) | K–Ar | 13.89 ± 0.35 | Nkouathio et al. (2008) |
| | basanite (Mebouken) | K–Ar | 14.08 ± 0.34 | Nkouathio et al. (2008) |
| | trachyte (Djuhsita) | K–Ar | 16.72 ± 0.39 | Nkouathio et al. (2008) |
| | trachyte | K–Ar | 16.41 ± 0.39 | Nkouathio et al. (2008) |

| Volcano | Rock type | Method | Age (Ma) | Reference(s) |
|---|---|---|---|---|
| Bambouto Mts | trachyte | K–Ar | 22.7 | Gouhier et al. (1974) |
| (contd.) | trachyte | K–Ar | 15.9 | Gouhier et al. (1974) |
| | benmoreite | K–Ar | 15.0 | Marzoli et al. (1999) |
| | trachyte | K–Ar | 15.0 | Marzoli et al. (1999) |
| | trachyte | K–Ar | 16.0 | Marzoli et al. (1999) |
| | rhyolite | K–Ar | 15.0 | Marzoli et al. (1999) |
| | rhyolite | K–Ar | 16.0 | Marzoli et al. (1999) |
| | hawaiite | K–Ar | 5.0 | Marzoli et al. (1999) |
| | hawaiite | K–Ar | 21.0 | Marzoli et al. (1999) |
| | hawaiite | K–Ar | 42.0 | Marzoli et al. (1999) |
| | hawaiite | K–Ar | 15.0 | Marzoli et al. (1999) |
| | basalt and trachyte | K–Ar | 23 –16 | Nni (2004) |
| | ignimbrite | K–Ar | 16–14 | Nni (2004) |
| | basalt and phonolite | K–Ar | 5.0 | Nni (2004) |
| | basalt | K–Ar | 13.8 | Youmen (1994) |
| | basalt | K–Ar | 7.75– 6.05 | Youmen (1994) |
| | phonolite (Mag'haa) | K–Ar | 5.2 | Youmen (1994) |
| | ignimbrite (Kemtsop) | K–Ar | 18.1 | Youmen (1994) |
| Oku Mts | basalt | K–Ar | 5.8 | Gouhier et al. (1974) |
| | basalt | K–Ar | 21.0 | Gouhier et al. (1974) |
| | basalt | K–Ar | 31.0 | Njilah (1991) |
| | hawaiite | K–Ar | 17.5 | Gouhier et al. (1974) |
| | hawaiite | K–Ar | 17.7 | Fitton and Dunlop (1985) |
| | hawaiite | K–Ar | 17.2 | Fitton and Dunlop (1985) |
| | rhyolite | K–Ar | 22.2 | Dunlop (1983) |
| | ignimbritic rhyolite | K–Ar | 23.2 | Dunlop (1983) |
| | felsic lavas | K–Ar | 24.79 ± 0.11 | Marzoli et al. (1999) |
| Bamenda Mts | basalt | K–Ar | 4.4 ± 1.4 | Kamgang et al. (2008) |
| | basanite (Bambi) | K–Ar | 0.4 ± 0.1 | Kamgang et al. (2008) |
| | basanite (Bali) | K–Ar | 1.2 ± 0.2 | Kamgang et al. (2008) |
| | basanite (Bakanki) | K–Ar | 1.3 ± 0.1 | Kamgang et al. (2008) |
| | basanite (Bali, Pinyim) | K–Ar | 5.5 ± 0.4 | Kamgang et al. (2008) |
| | basanite (Bali) | K–Ar | 7.6 ± 0.2 | Kamgang et al. (2008) |
| | basanite | K–Ar | 8.3 ± 0.3 | Kamgang et al. (2008) |
| | hawaiite (Bali, Bagam) | K–Ar | 16.9 ± 0.3 | Kamgang et al. (2008) |
| | hawaiite (Santa Coffee) | K–Ar | 17.6 ± 0.3 | Kamgang et al. (2008) |
| | trachyte (E of Lake Bali) | K–Ar | 12.7 | Kamgang et al. (2007) |
| | trachyte (Bali, Santa) | K–Ar | 13.2 | Kamgang et al. (2007) |
| | trachyte (Bali, Menka) | K–Ar | 19.0 | Kamgang et al. (2007) |
| | trachyte (near Menka) | K–Ar | 19.6 | Kamgang et al. (2007) |
| | trachyte (Santa, Mbu) | K–Ar | 20.6 | Kamgang et al. (2007) |
| | trachyte (Bali, Akum) | K–Ar | 18.7 | Kamgang et al. (2007) |
| | trachyte (South of Bali) | K–Ar | 22.2 | Kamgang et al. (2007) |
| | trachyte (E of Bali) | K–Ar | 27.4 | Kamgang et al. (2007) |
| | alkaline and peralkaline trachyte, alkaline and peralkaline rhyolite | K–Ar | 27.40 –18.68 | Kamgang et al. (2007) |
| | benmoreite, | K–Ar | 20.60–18.98 | Kamgang et al. (2007) |
| Benue Valley | basalt | K–Ar | 39.7 ± 0.9 | Ngounouno et al. (2003) |
| | basalt | K–Ar | 34.8 ± 0.8 | Ngounouno et al. (2003) |
| | trachyte | K–Ar | 37.6 ± 0.9 | Ngounouno et al. (2003) |
| | trachyte | K–Ar | 37.4 | Ngounouno et al. (2003) |
| | trachyte | K–Ar | 37.3 | Ngounouno et al. (2003) |
| | rhyolite | K–Ar | 36.8 ± 0.9 | Ngounouno et al. (2003) |
| | monchiquite (Tchircotché) | K–Ar | 37.5 | Ngounouno et al. (2005) |
| | teschenite (Nakong) | K–Ar | 36.8 | Ngounouno (1993) |
| Kapsiki Plateau | basalt | K–Ar | 27 ± 0.5 | Vincent and Armstrong (1973) |
| | basalt | K–Ar | 30.41 ± 0.62 | Dunlop (1983) |
| | basalt | K–Ar | 31.21 ± 1.33 | Dunlop (1983) |
| | trachyte | K–Ar | 29.6 ± 0.6 | Vincent and Armstrong (1973) |
| | trachyte | K–Ar | 35.31 ± 2.39 | Dunlop (1983) |
| | rhyolite | Rb –Sr | 29 ± 0.5 | Dunlop (1983) |
| | rhyolite | Rb –Sr | 32 ± 0.5 | Dunlop (1983) |
| Mandara Mts | Basalt | K–Ar | 30–33 | Fitton and Dunlop (1985) |
| | trachyte | K–Ar | 35 | Fitton and Dunlop (1985) |
| Lake Chad | rhyolite | K–Ar | 68.9 ± 1.4 | Schroeter and Gear (1973) |
| | rhyolite | Ar–Ar | 69.4± 0.4 | (this work) |

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