

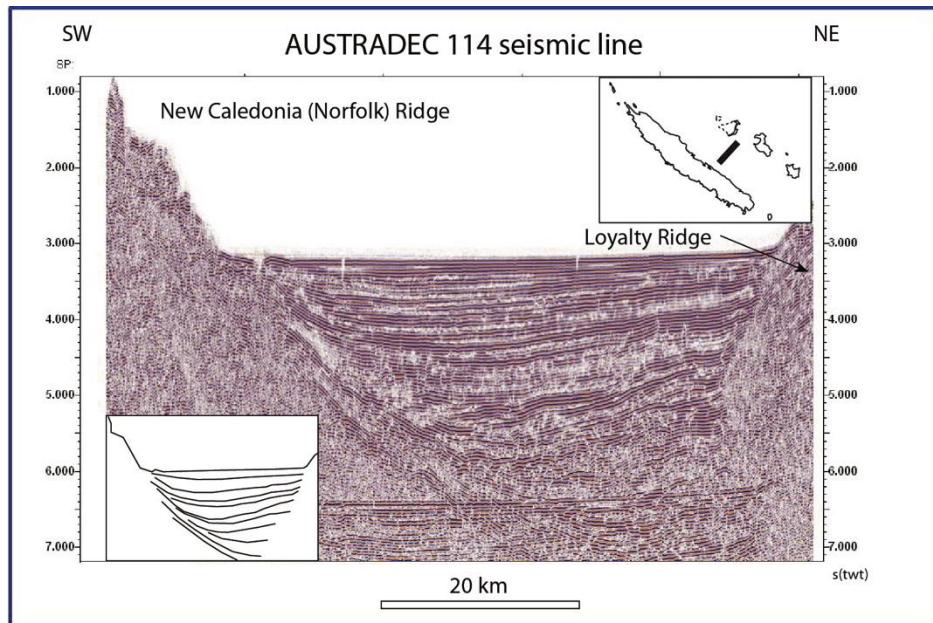
Supporting information to:

*A review of melt, fluid and solid-phase transfers in the New Caledonia forearc ophiolite.*

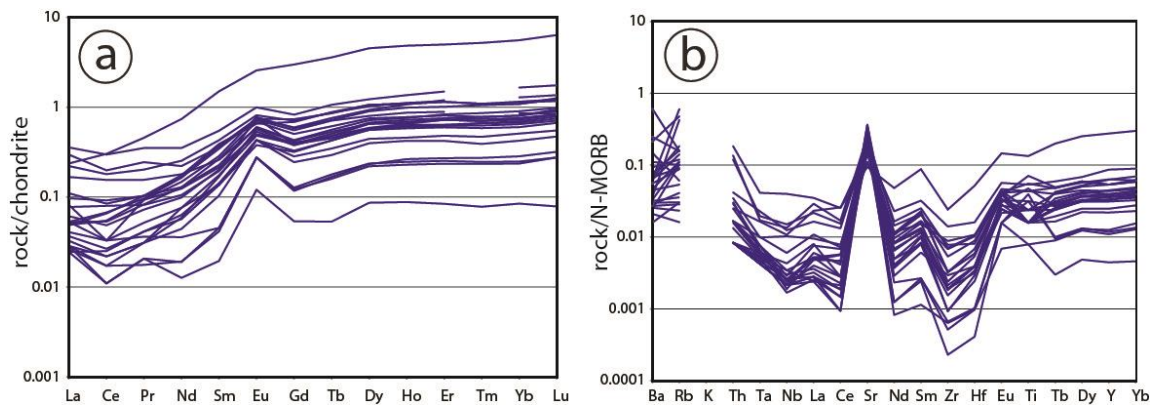
by

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This file mainly contains geochemical diagrams related to Eocene magmatic rocks, which are not judged essential for the main text.



*Fig. 1S: Seismic profile of the Loyalty Basin (Bitoun and Récy, 1982) showing the initial syn-obduction fan-like sediment accumulation overlain by post-obduction horizontal strata.*



*Fig. 2S: Gabbro-norites ; (a) Chondrite-normalized REE patterns ; (b) N-MORB-normalized extended REE and trace elements patterns. Data from Picard (unpubl.), Marchesi (2009) and Secchiari (2018)*

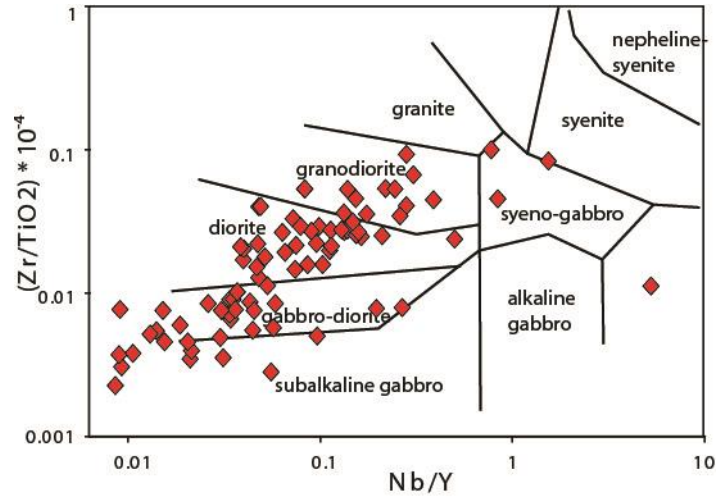


Fig. 3S: Lower Eocene dikes; Immobility trace element discrimination diagram (Winchester and Floyd, 1977) to show the diversity of dike compositions. Data from Cluzel et al. (2024).

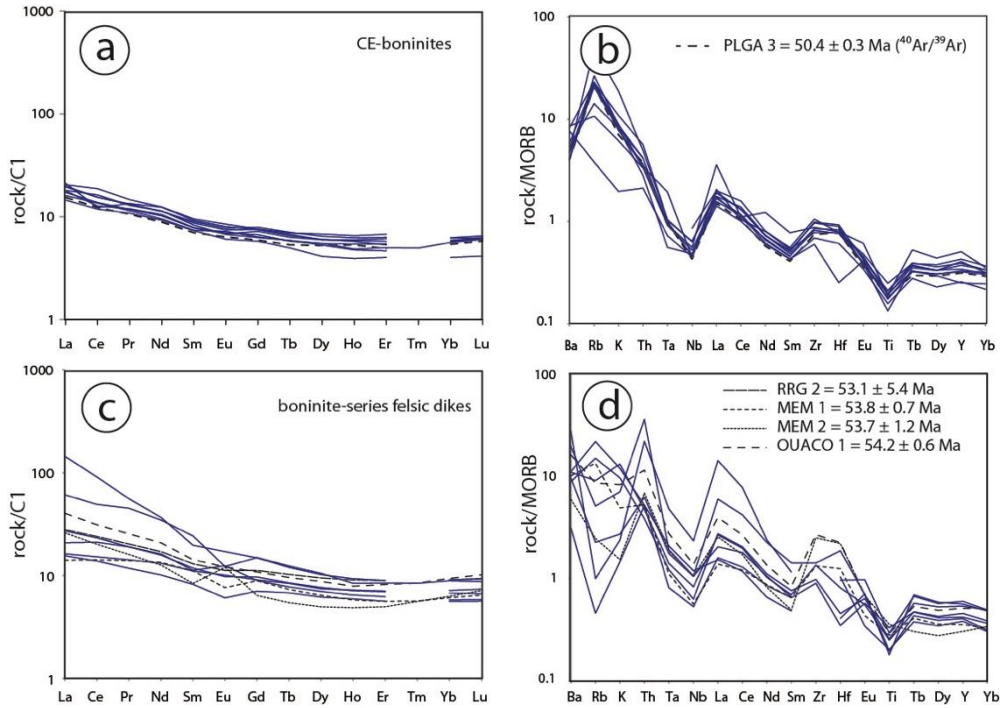


Figure 4S: Boninite-series rocks; REE and Extended REE and trace elements patterns of Nepoui CE-boninite (a and b) compared to slightly LREE-enriched boninite-series dikes (c and d). Data from Cluzel et al. (2016; 2024).

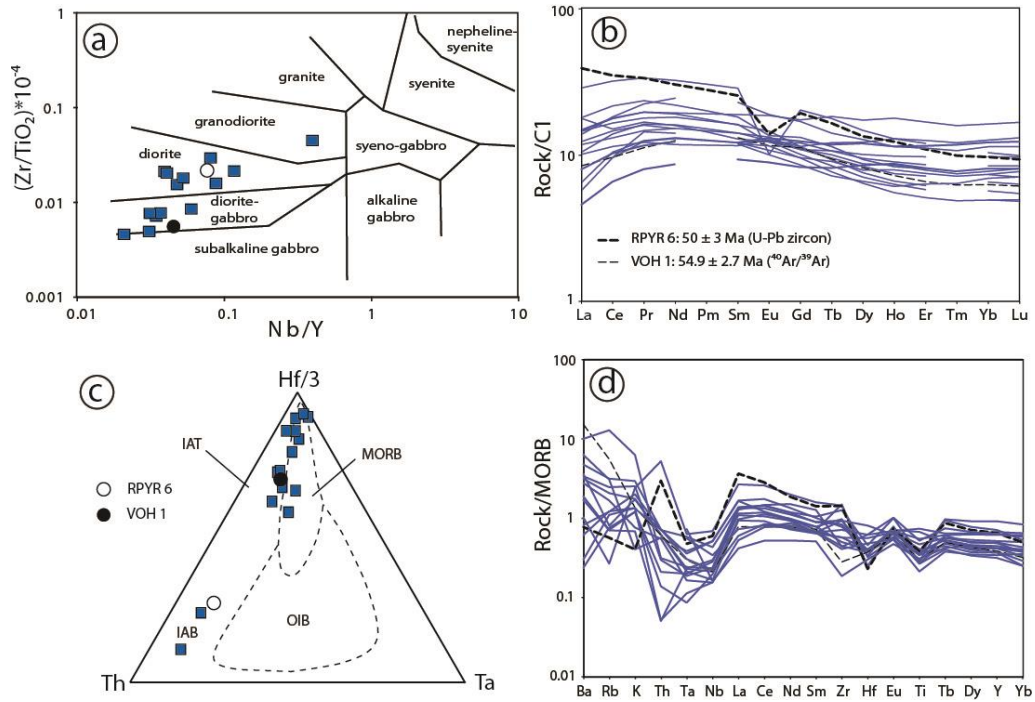


Figure 5S: a) trace element-based discrimination diagram of hornblende-bearing diorite-gabbro and diorite dikes (Winchester and Floyd, 1997) ; b) hook-shaped chondrite-normalized REE patterns ; c) discriminant Hf-Th-Ta diagram (Wood, 1980 ; Vermeesch, 2006) showing the MORB/IAT affinity of hornblende-bearing rocks ; d) extended REE-Tr diagram normalized to the N-MORB. Data from Cluzel et al. (2024)

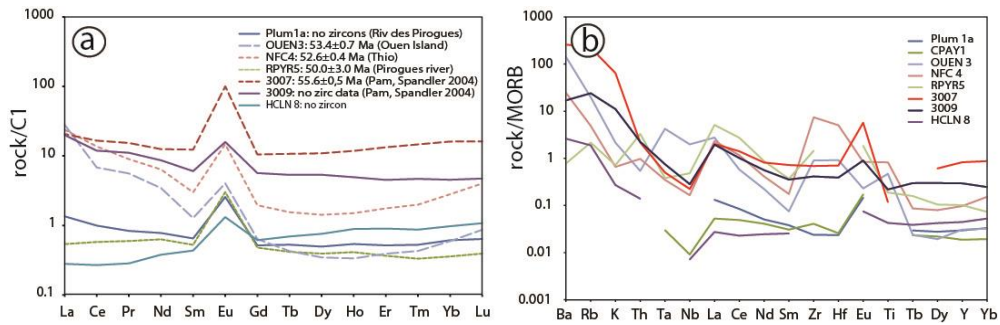


Figure 6S: a) chondrite-normalized REE diagram for anorthosites showing the prominent Eu positive anomaly due to plagioclase segregation; b) REE-Trace elements extended diagram to show the bulk similarity with hornblende-bearing rocks. Data from Cluzel et al. (2024).

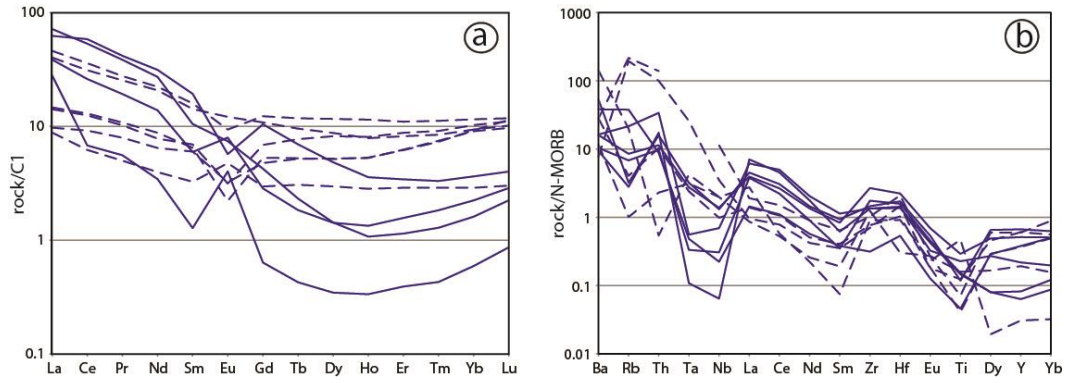


Figure 7S: Granites, a) chondrite-normalized REE diagram ; b) extended REE and trace elements normalized to N-MORB. Plain patterns : type 1 granites, dotted patterns : type 2 granites. Data from Cluzel et al. (2024)

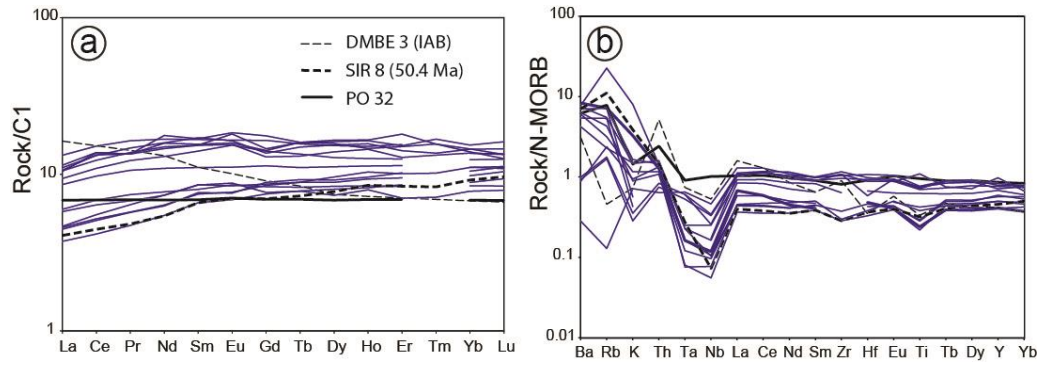


Figure 8S: Dolerites; a) chondrite-normalized REE diagram ; extended REE-Tr normalized to N-MORB. Plain patterns : IAT dolerites, thin dotted patterns : IAB dolerite ; bold dotted pattern : dated IAT dolerite (50.4 Ma) (data from Cluzel et al., 2024).