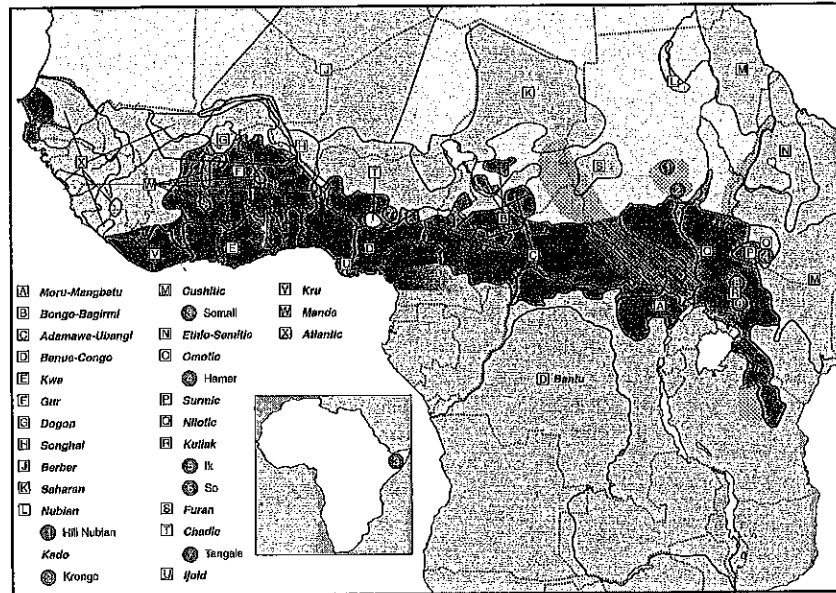
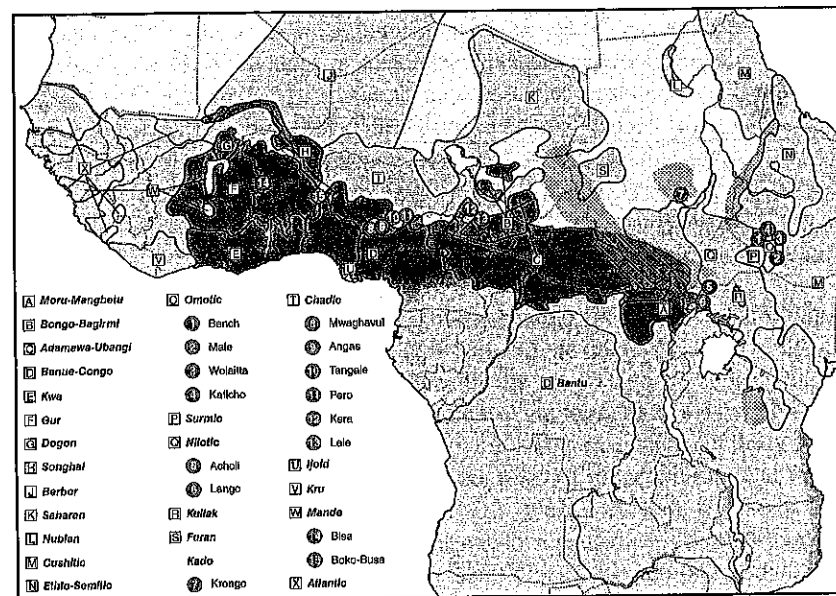


Two features characteristic of the Sudanic belt, according to Güldemann, T., 2008, 'The Macro-Sudan belt: towards identifying a linguistic area in northern sub-Saharan Africa', in Heine, B. & D. Nurse (eds.), *A linguistic geography of Africa*, pp. 151-185, Cambridge: Cambridge University Press.



Map 5.3 ATR vowel harmony across African lineages



Map 5.1 Logophoricity across African lineages