- Saving 1,000 years of African history: there is no evidence of a population collapse in 1
- Congo rainforest from 400 to 600 CE 2. The pottery styles. 2
- Bernard Clist, James Denbow, Maria Piedad de Jesus, Raymond Lanfranchi and Christophe 3
- 4 Mbida Minzie.
- 5 Pre Print for the Science Advances journal, response to the published paper "Seidensticker (D.), Hubau
- 6 (W.), Verschuren (D.), Fortes-Lima (C.), de Maret (P.), Schlebusch (C.M.) & Bostoen (K.), 2021, Population
- 7 collapse in Congo rainforest from 400 CE urges reassessment of the Bantu Expansion, Science Advances,
- 8 Published online: 12 February 2021, Vol. 7, no. 7."
- 9 Seidensticker et al. 'compiled a dataset of well described styles of pottery groups', marking the
- expansion of Iron Age villagers, probably Bantu-speakers, recorded over the last 40 years. 10
- These groups, however, are not yet correctly published. There are major differences between 11
- insufficient descriptions, text and figures versus a well described and illustrated analysis. 12
- The S2 table, listing pottery styles, contains inaccuracies that impact our understanding of the 13
- evolution of styles, their true cultural representation and association with radiocarbon dates. 14
- For example, the 5 pottery types found at Dibamba (Cameroon) do not yet constitute individual 15
- style groups (1). Certainly, they are not equal to the Okala Group (southern Cameroon and 16
- Gabon), identified at several sites and positioned by 44 dates. Similarly, Seidensticker et al. 17
- misrepresent the 4 pottery types in the Kongo Group as four different styles (2). It is also 18
- difficult to consider the 59 styles from the Inner Congo Basin (zones D to F), 40 of them 19
- undated, together with the 56 from west of the Congo River (zones A to C) of which only 2 are 20
- undated, or the 16 ethnographic and modern styles in the D to F zones, while ignoring similar 21
- styles identified in zone C. The authors also overlook other styles: for instance, styles in the 22
- Bouar area (CAR) as well as the Nkang style in Cameroon, the Lindili in Gabon and the Kazu 23
- or Muanda in the Lower Congo (DRC) (2, 3). 24
- Only three styles are thought to continue after AD 600, representing 'scattered populations' 25
- (Ilambi in the DRC; Nandá in Gabon; and Spaced Curvilinear in Congo). In contrast to that 26
- interpretation, Muanda and other styles found along the coast of the DRC date to between AD 27
- 400 and 800 and provide a more comprehensive picture (4). 28
- In the three areas where complete pottery sequences are available (Gabon: northwest and 29
- 30 center; DRC: Upemba Depression and Inner Congo Basin; Congo: Kouilou River), we find
- continuous sequences, broken every few centuries by changes in "chaînes opératoires" and 31
- styles (5); on the coast of Gabon, they are c. 2,500, 2,000, 1,400, 950 and 450 BP, the latest 32
- being the contact with the Portuguese, in Katanga (DRC), c. 1,600, 1,300 and 800 BP. It is 33
- particularly important to distinguish between internal shifts and complete stylistic changes. 34
- Complete change, or transitions, is strong evidence for new people, and of a spread-over-spread 35
- process. This has been followed by archaeologists mainly by PhD studies carried out in 36
- Cameroon, Gabon and the DRC since the mid-1980s (6). 37
- The "Late Iron Age" (LIA) has been less studied, thus yielding fewer dates and pottery 38
- descriptions than for the Early Iron Age (EIA). For instance, the styles in Cameroon (Table S2) 39
- provide an incomplete sequence. Only 12 are listed for the whole of southern Cameroon and 40
- 41 for the entire "Iron Age" or 3,000 years. By removing the 5 Dibamba 'styles' discussed earlier,
- 42 we are left with only Neolithic and EIA styles and none for the LIA. In Gabon, the continuous
- 43 or nearly continuous Neolithic-EIA-LIA sequences extend from c. 2,500 BP to c. 200 BP in
- the northwest and center, while the northern and southern parts are poorly known (5). Most 44
- recently, new LIA fieldwork has dramatically increased the number of ¹⁴C dates and specific 45
- 46 style groups (7, 8).

- 47 Since 2014, the cultural sequences slowly obtained west of the Congo River have given us a
- 48 renewed understanding. Neolithic styles subdivisions exist and suggest that the so-called
- 49 regionalization process was not specific to the Iron Age. Furthermore, we understand the onset
- of the EIA is characterized by a new expansion spreading from Cameroon-Gabon, interacting
- with the first villagers, and extending over the border of Angola c. 2100-1800 BP (5). The LIA
- remains inadequately known, but other dynamics are illustrated.
- For several decades, researchers have recognized a stylistic split between the EIA and LIA
- 54 periods based on technological and stylistic aspects. While a 'fossile directeur' such as round-
- based vessels may indicate such a split in the Inner Congo Basin, it does not apply to other
- areas. Round-based vessels are well known along the Atlantic coastline of Equatorial Guinea,
- 57 Congo and the DRC between 2,000 and 1,500 BP neighbors to EIA flat-based pottery groups,
- and in Katanga (DRC) round-based vessels are there since the inception of the EIA c.~1,600
- 59 BP. Moreover, stylistic distinctions between the EIA and later pottery date to different times.
- In Gabon, it occurs at about 950 BP, but in Bas Congo (DRC) it is probably 300 years earlier,
- at about 1250 BP, while in Katanga it is more fluid without major discontinuities in the EIA-
- 62 LIA pottery. Thus, the break is not as sharp as the authors claim.
- 63 Seidensticker et al. use the "Justinian plague" of the 6th-8th centuries to strengthen their
- unconvincing claim of a demographic crash from AD 400 to 600. Nowhere in the Sahara, Sahel,
- West Africa, nor East Africa, however, is there archaeological evidence for a demographic
- 66 collapse. Furthermore, M. Green's genetic identification of Yersinia pestis in Central Africa
- shows it is an offshoot of the Middle Ages plague (9), which may have entered Africa in the
- late 15th or early 16th century (10). In Central Africa, the higher number of LIA sites document
- an important demographic boost, supported by genetics for Gabon, a result inconclusive to the
- 70 presence of a plague.
- Last, the early stages of the Bantu expansion relate to the pre-metallurgy phase and the EIA.
- 72 By c. 1500 BP (roughly AD 500), Iron Age farmers had moved through southern and eastern
- 73 Africa, settling into South Africa. In Central Africa, the period after AD 500 is about multiple
- 74 local reshuffling of the established and already settled communities, which has drawn less
- 75 attention by archaeologists.
- We agree with Seidensticker et al. that the present distribution of Bantu languages does not
- 77 reflect the early stages of expansion; this is a different situation from archaeology. Quite
- 78 recently it was possible to indicate that "As is often the case in West-Central Africa, linguistic
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