Namibia and Botswana’s zebra migration: still the longest, but for how long? A reply to Schapira et al.

We welcome Schapira et al.’s (2016) news of another long-distance migration in Africa, of white-eared kob *Kobus kob leucotis* in Ethiopia and South Sudan. As we (Naidoo et al., 2016) and they note, little documentation on this migration exists; when our paper was published in 2014 the only peer-reviewed reference was Harris et al. (2009), describing a round-trip distance for kob of 300–400 km.

Schapira et al. suggest that we incorrectly presented the Burchell’s zebra *Equus quagga* migration in Namibia and Botswana as Africa’s longest, instead claiming the kob migration is longer. Their ‘straight line distance’, however, is actually an estimate of how much ground their one collared kob covered (825 km). The appropriate comparison metric for the round-trip zebra migration is therefore the sum of the northbound and southbound Distance columns in Table 1 of Naidoo et al., which has a mean across individuals of 955 km (range 735–1170), with five of seven collared zebra covering greater distances than the kob individual.

Schapira et al. describe a migration that, as with Serengeti wildebeest, involves animals moving in an approximately circular manner, with similar start and end points. In contrast, the zebra migration has two spatially separate endpoints where animals spend prolonged periods: a dry season range along the Chobe River in Namibia and Botswana, and a wet season range in or near Nxai Pan National Park in Botswana (Fig. 1). It is this straight-line distance between geographical endpoints that is approximately 250 km, hence our estimate that zebra cover 500 km in a straight line. The equivalent straight-line distance between endpoints in Schapira et al. is approximately 20–30 km, although this metric clearly underestimates the kob migration’s overall extent.

We expect that Schapira et al.’s continued research on the kob migration will uncover additional insights; our own zebra research has documented longer and more spatially-variable movements since 2014 (Fig. 1). We hope further wildlife migrations are discovered, including those that eventually take the mantle of Africa’s longest.

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