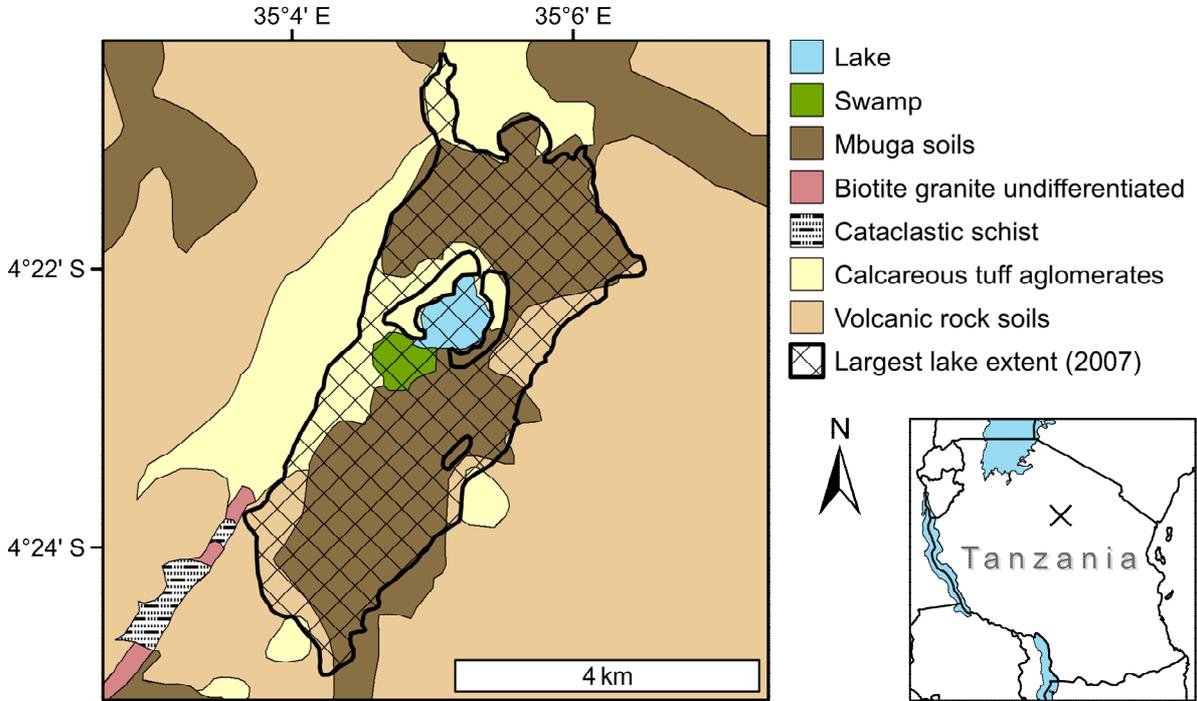
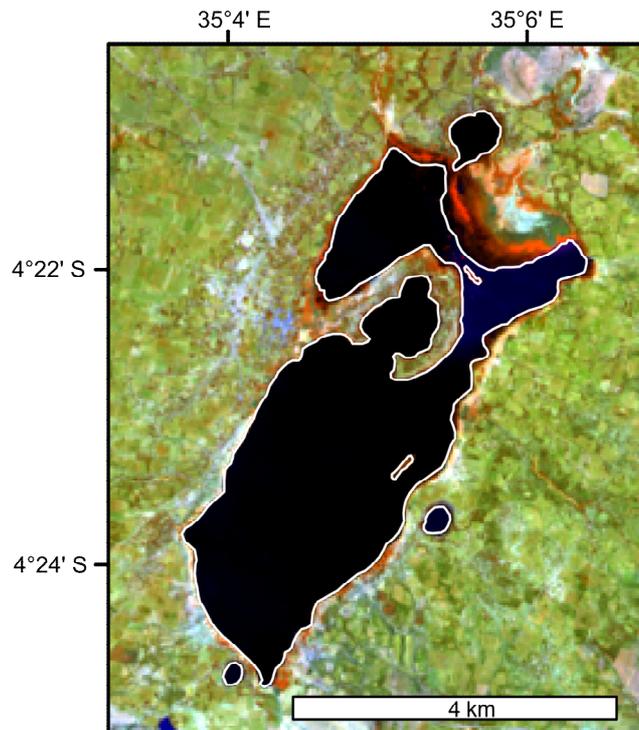


# Supplementary Materials: Surface Area Variability of a North-Central Tanzanian Crater Lake

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**Figure S1.** . Map of Lake Basotu surroundings (adapted from a 1963 topographic map published by the Survey Division of the Ministry of Lands, Settlement and Water Development of the Government of Tanzania [20]).



**Figure S2.** False color composite example Landsat image (July 2015) of Lake Basotu with manual shore delineation shown in white.

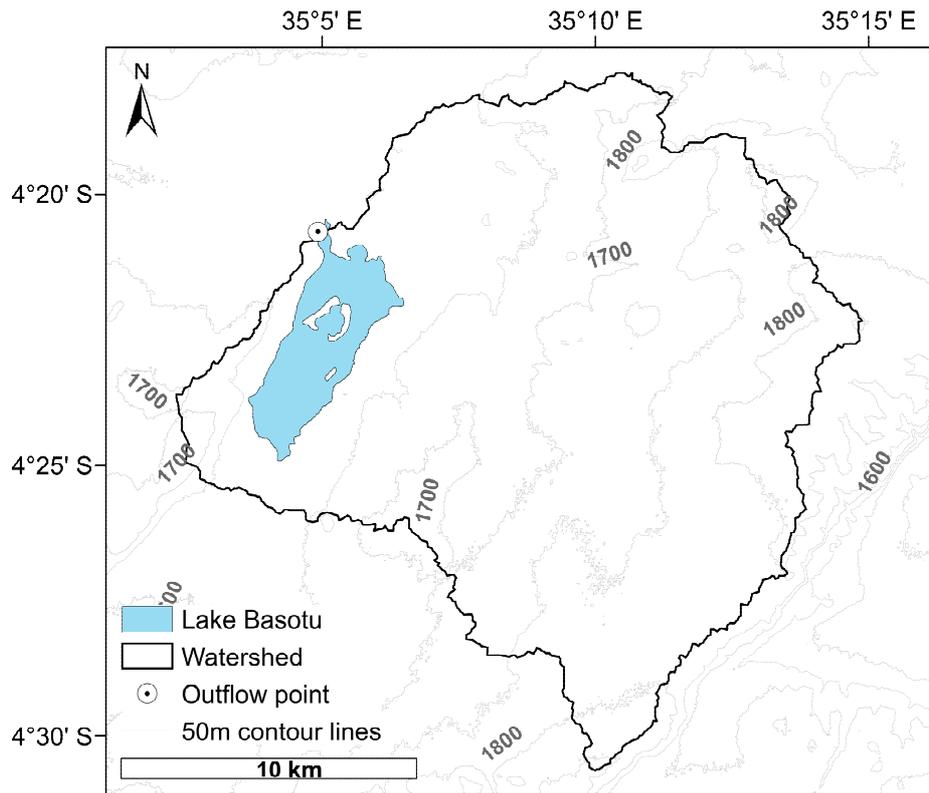


Figure S3. Lake Basotu watershed (with elevational contours in m a.s.l.).

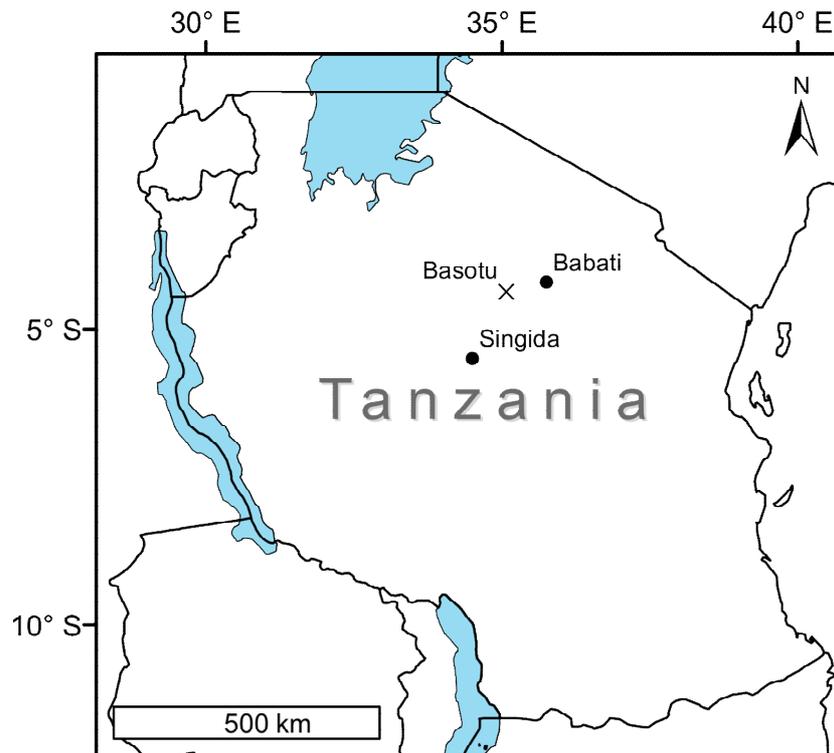


Figure S4. Tanzanian Meteorological Agency station locations.

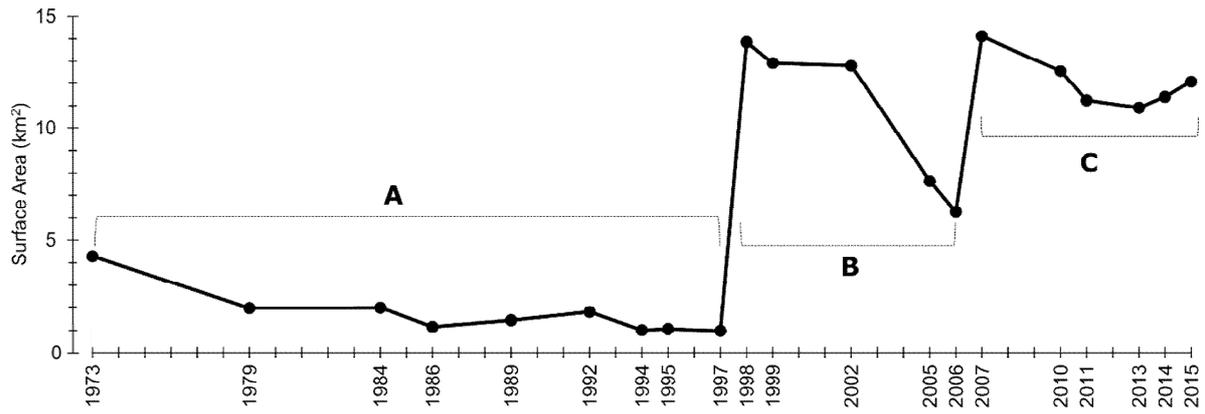


Figure S5. Calculated lake surface area record for Lake Basotu.

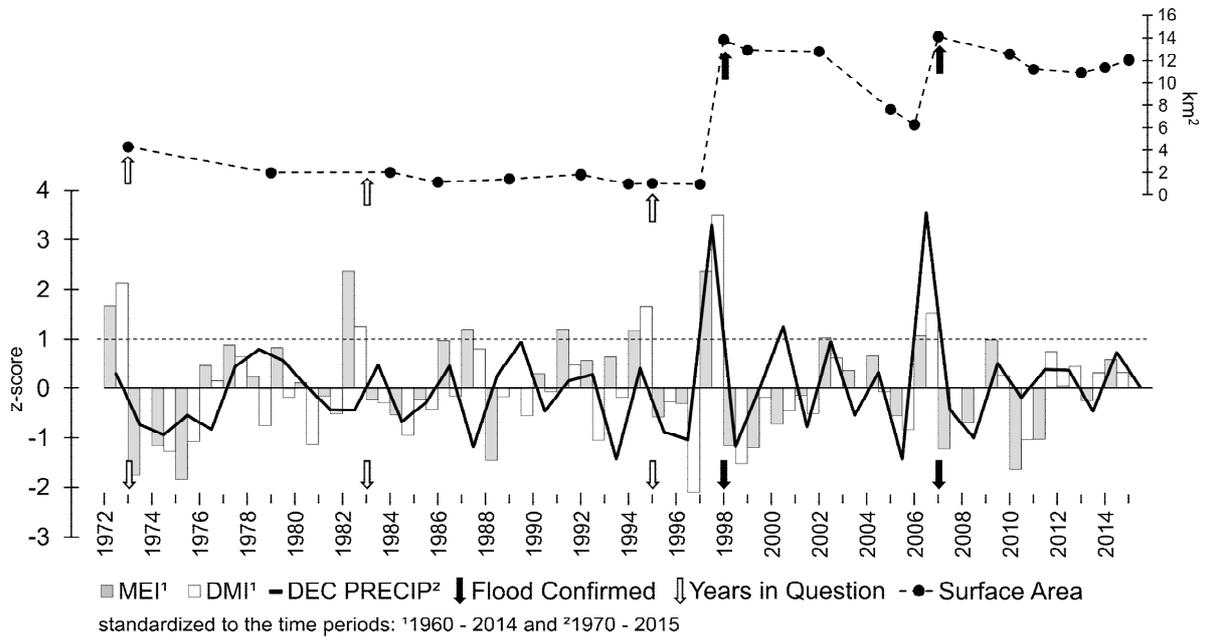


Figure S6. (Lower graph): Standardized indices for El Niño and the Indian Ocean Dipole and regional precipitation records. (Upper graph): Lake surface area.

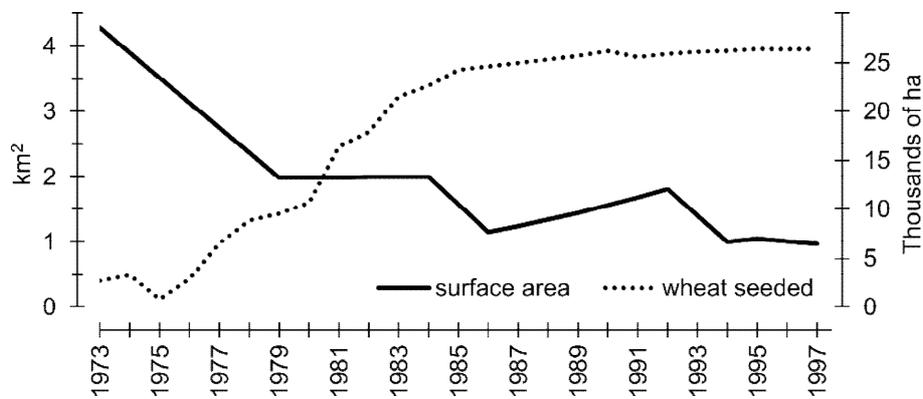


Figure S7. Area of wheat seeded (thousands of ha) in the Hanang district versus Lake Basotu surface area calculations (km<sup>2</sup>).

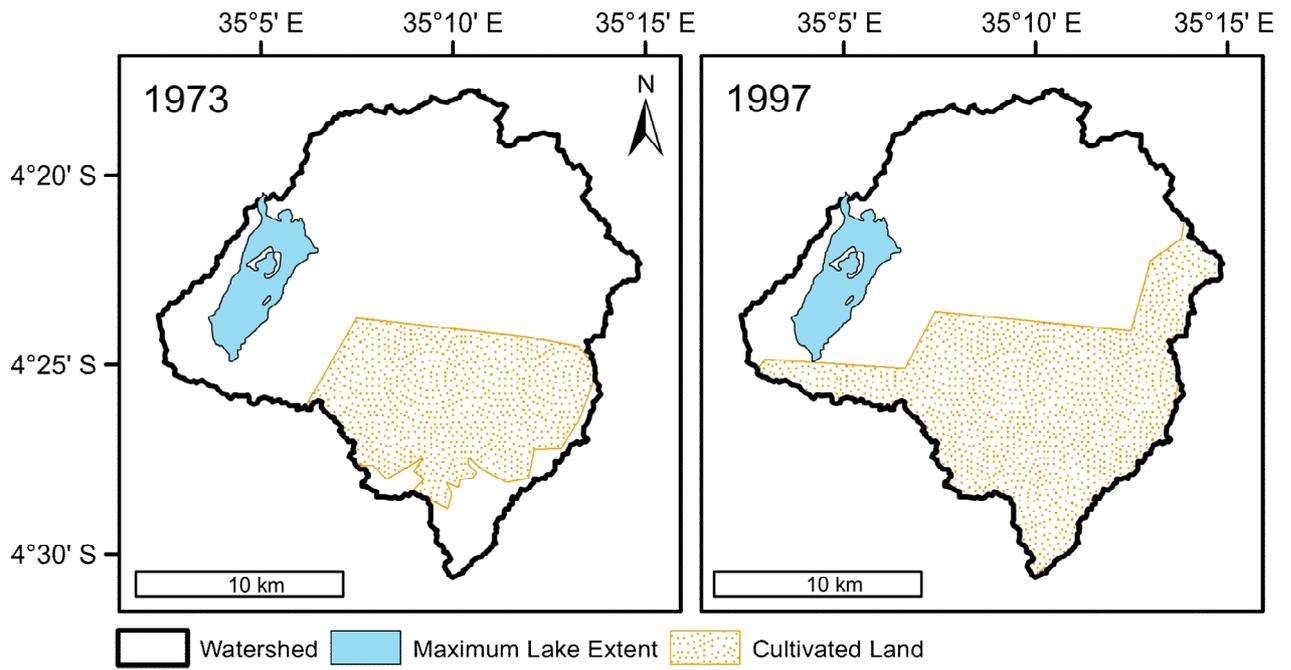


Figure S8. Agricultural area within the Basotu watershed.



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