

## **ABSTRACT**

Palaeomagnetic polarity measurements from Beds I and II at Olduvai Gorge are described, and used to define the extent of the Olduvai event in the Olduvai Gorge section. The upper boundary of the event occurs very close to the base of the Lemuta Member in Bed II whilst the lower boundary is less well defined but probably occurs just below Tuff IA. The results imply minimum net accumulation rates of about 17 cm in  $10^3$  years in the lacustrine, and more than 30 cm in  $10^3$  years in the alluvial fan deposits, which represent only the upper part of the Olduvai event.