



**FIGURE 19.18.** Selective sweeps can be identified from surveys of genetic variation. In this example, two regions of the *Drosophila melanogaster* X chromosome showed significantly lower variability at microsatellite loci in non-African than in African populations. These local reductions are probably due to the fixation of adaptive mutations, following the recent spread of *D. melanogaster* out of Africa.  $\log(RV)$  is the ratio of variability in non-African populations relative to African populations on a log scale. The *gray line* shows the lower 95% confidence interval.

19.18, modified from Harr B. et al., *Proc. Natl. Acad. Sci.* **99**: 12949–12954, © 2002 National Academy of Sciences, U.S.A.