Astronomy and Empire in the Ancient Andes: The Cultural Origins of Inca Sky Watching

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that it is still customary for new publications in this field to cite, or even to quote vorbatim, from Darwin's principal works On the Origin of Species and win's account of the mechanism of biological evolution through natural selection has required little revision: the deciphering of the genetic basis for inheritance and the recent shift in emphasis away from group selection to focus on the determinants from group selection to focus on the determinants (sew substantive developments to have occurred this century. It is curious, then, that Robert Foley in Humans before humanity devotes considerable resources (both of the intellectual kind, and of the 'dead tree' variety) to an extended apologia for Darwinfered below, but first to the nuzzle of the book's title.

fered below, but first to the puzzle of the book's title. The children's riddle Which came Irist, the The children's riddle Which came Irist, the The children's riddle Which came Irist, the Irist Ir

The key anatomical adaptation shared by earl hominide was the ability to walk bipedally, while the of modern humans is a large and powerful brain. Fold or reviews several alternative hypotheses before favouring an ecological explanation for the origin of bipedalist as an efficient and less thermally stressed mode of it grassland habita. The pivotal innovation of increase brain size, or encephalization, illustrates a concept the is a major theme of the book, that both costs and been fits must be considered when explaining adaptations. That there is no such thing as a free lunch in avoiding the inside the considered when explaining adaptations that there is no such thing as a free lunch in considered when explaining adaptations.

complex organ like the human brain, which consumes produgious amounts of energy regardless of whether lits owner is at work, rest or play. In the penultimate chapter of the book Foley investigates the complex inter-relationships between ecology, sociality and intelligence. Only humans, it seems, have been able to find and sustain the unique combination of helghmend cognitive ability, complex and intense sociality and the exploitation of food resources of sufficiently high mutitional value to fuel the metabolic require-

Folay dodges the thorny problem of culture until the last chapter. It is possible, as Folay and many the biological evolution of humans that parallels but does not interact with the history of human culture. From the perspective of some anthropologists, natural piletity discovers the fashionable and Eurocentric belief that language and cultural complexity emerged in a symbolic explosion 40,000 years ago, Foley argues that Darwinian evolution extends to the abilias symbolic communication, technological innovation and the capacity for teaching and learning and he suggests that the humans before humanity possessed culture. Although Foley does not elaborate pilines of human behavioural ecology and evolutionary psychology may explain why so much of the first part of the book is devoted to the excesses of

For the archaeologist whose interests are focussed on material culture there will be little of familiarity and even less of comfort in the ideas expressed in this book. But for those whose business is the study of the human species, and for anyone who has even wondered how it was that an average sized African mammal ever reached the point where it could man taself Homo sopiens, there is much food for thought to the study of the study of the country of the transfer of the study of the country of the transfer of the study of the transfer of transfer of

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BRIAN S. BAUER & DAVID S.P. DEARBORN. Astronom and Empire in the ancient Andes: the cultural or gins of Inca sky watching, xviii-220 pages, 22 plate 18 Egures, 5 mags, 7 tables 1995. Austin (TX): Un 8 - 1995. Australia (TX): Un 8 - 1-202-70837-8 numerback \$14.9 paretback \$37.5

Andean civilization is best known for the Inca em pire and from descriptions that Spanish chronicles

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