

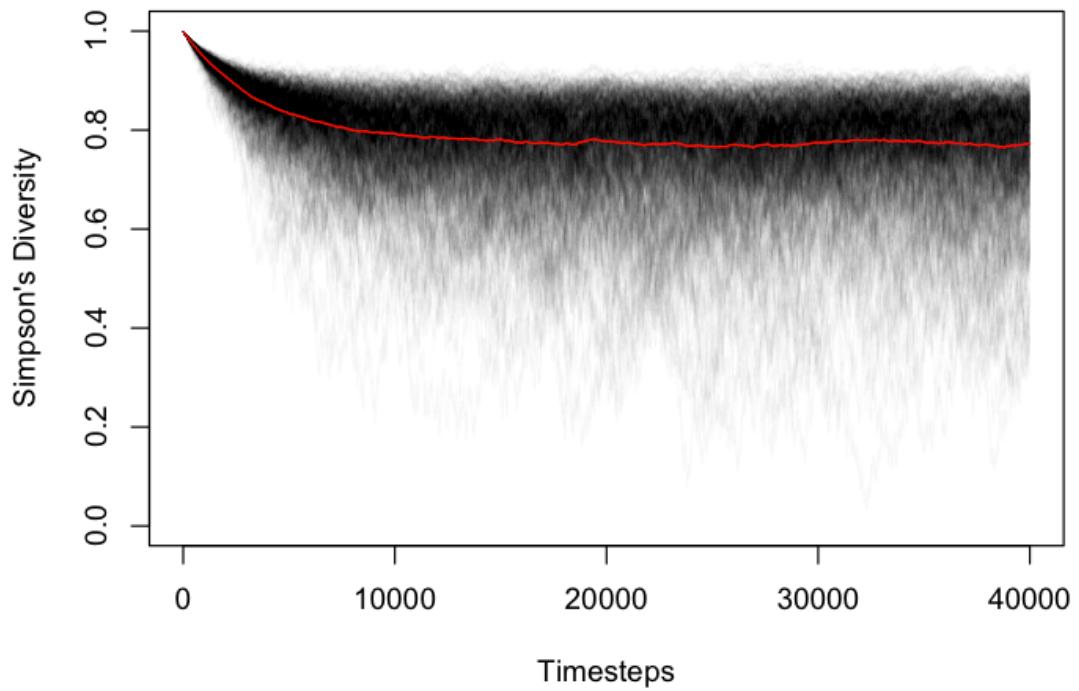
**Electronic Supplement Material for**  
**An Approximate Bayesian Computation approach for inferring patterns of cultural**  
**evolutionary change**

*Journal of Archaeological Science*

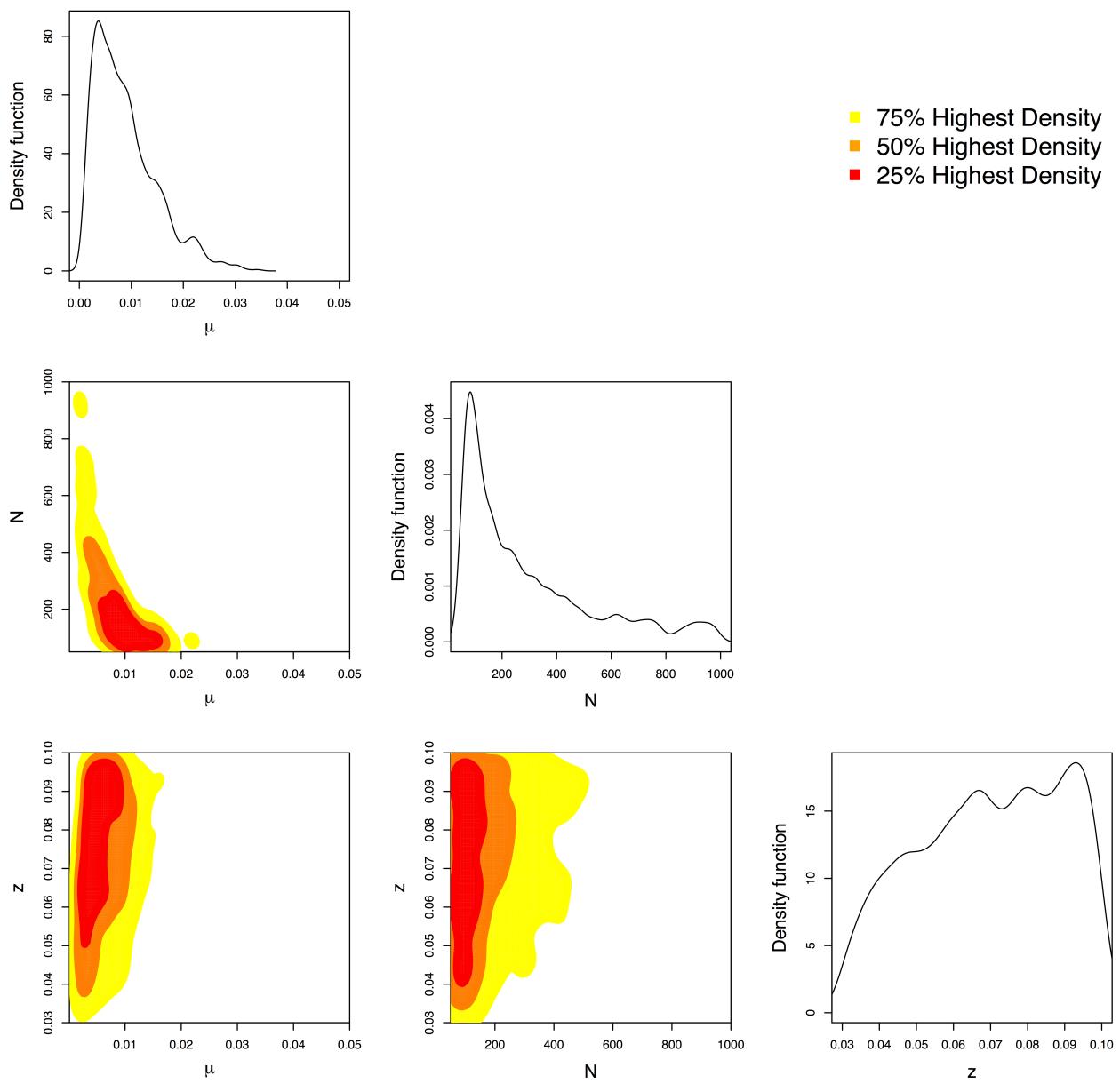
Crema, E.R, Edinborough, K., Kerig, T. Shennan. S.J.

Code	Description	
TA	<i>Tanged</i>	<i>Proximal</i>
BA	<i>Barbed</i>	
OB	<i>Oblique</i>	
LE	<i>Leaf</i>	
KN	<i>Notched</i>	
TR	<i>Triangle</i>	
SQ	<i>Square</i>	
TP	<i>Trapezoid</i>	
SL	<i>Slotted</i>	
ID	<i>Indeterminate</i>	
1	<i>Symmetric</i>	<i>Distal</i>
2	<i>Transverse</i>	
3	<i>Asymmetric</i>	
4	<i>Indeterminate</i>	

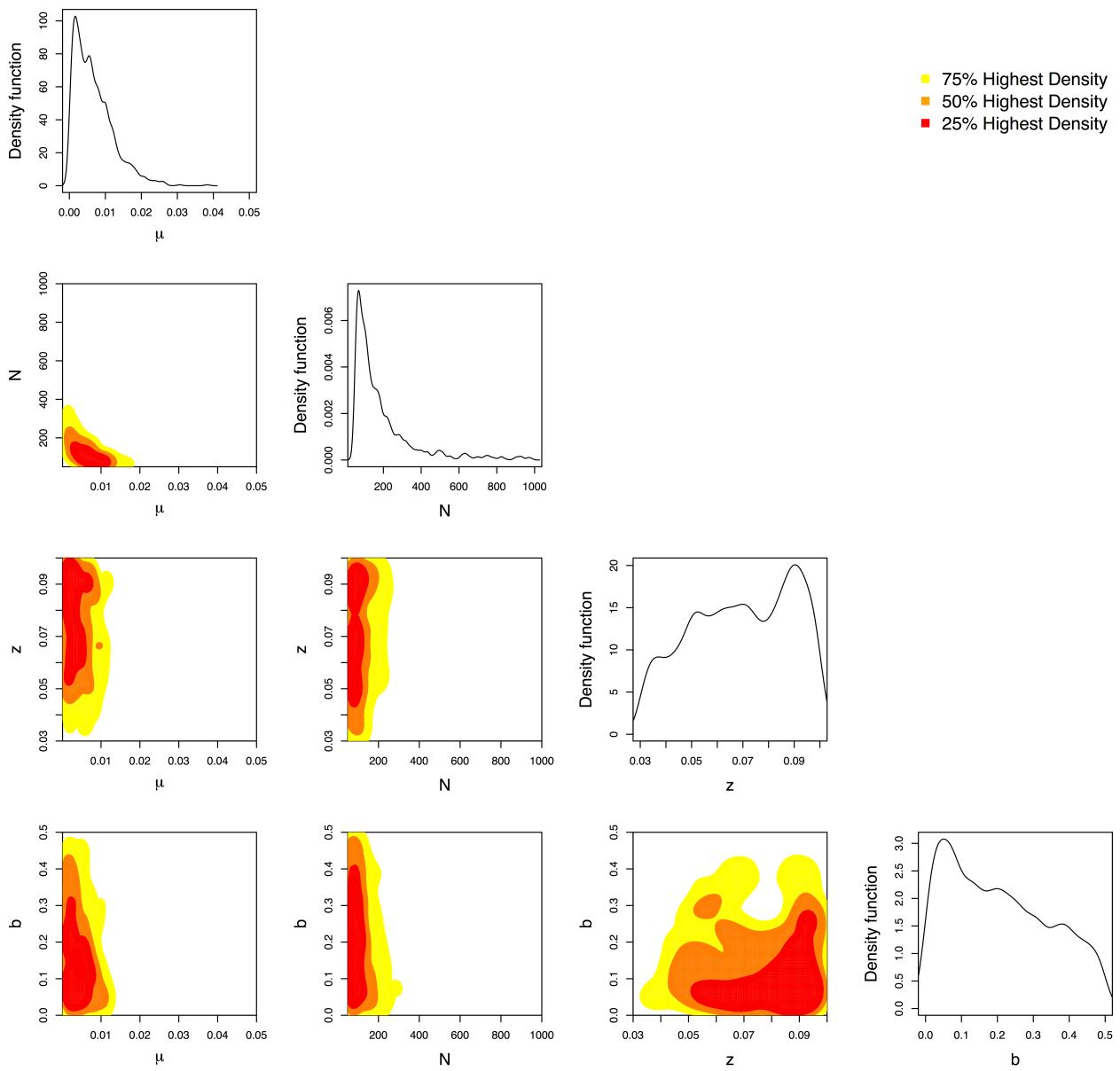
**ES Table 1:** Paradigmatic classification scheme for the armatures data.



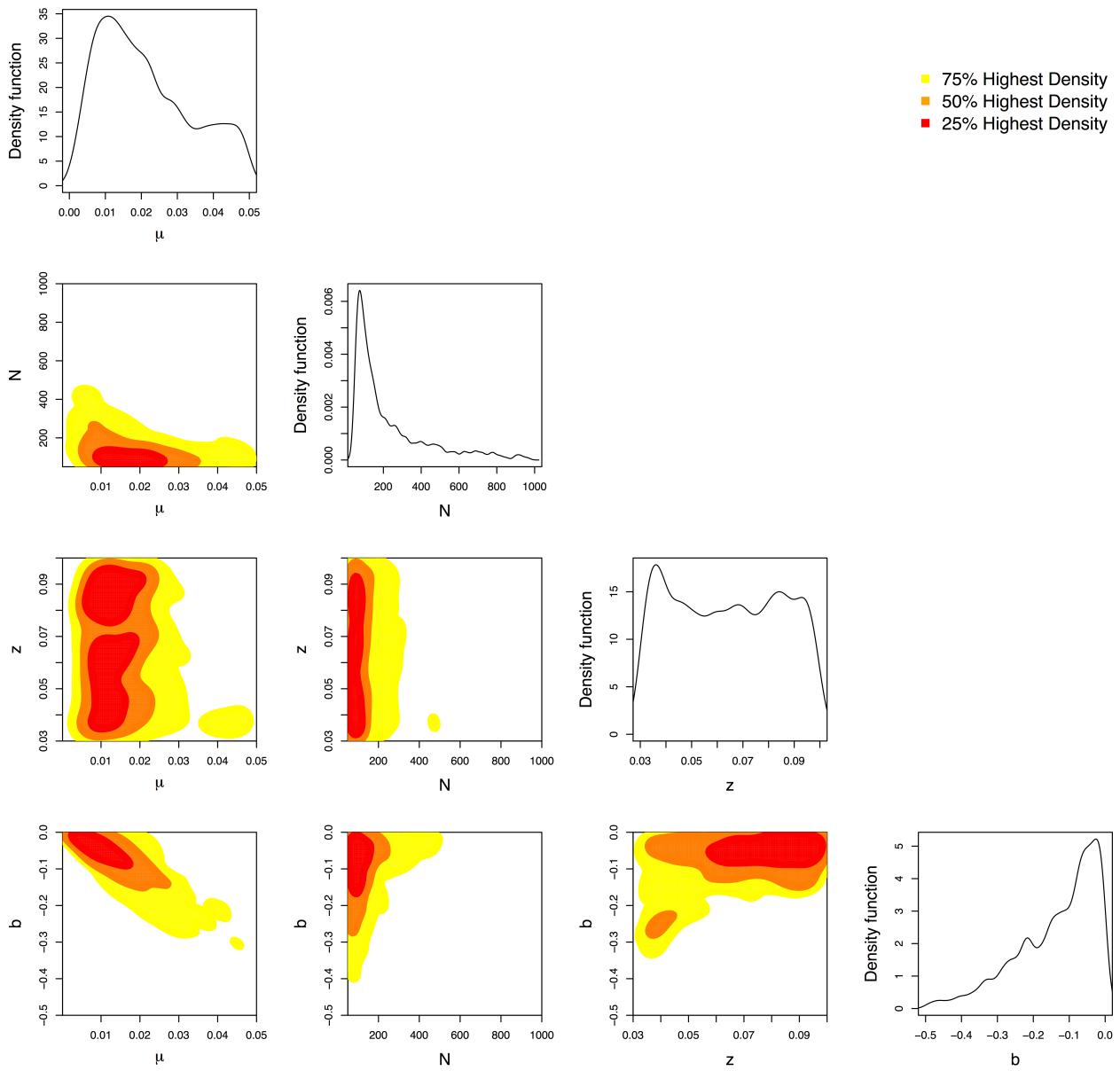
**ES Figure 1:** Time-series of Simpson's diversity index obtained from 500 runs of the unbiased transmission model, using  $N=1000$ ,  $\mu=0.0001$ , and  $z=0.03$ . The red line shows the average trend.



**ES Figure 2:** Bivariate Joint posterior estimates of the unbiased transmission model.



**ES Figure 3:** Bivariate Joint posterior estimates of the anti-conformist transmission model.



**ES Figure 4:** Bivariate Joint posterior estimates of the conformist transmission model.