## Understanding the inhabitation of the Stonehenge Environs: the interpretative potential of ploughsoil assemblages.

Volume III: Plates and Figures

Benjamin Tun-Yee Chan

Thesis submitted for the degree of Doctor of Philosophy

The Department of Archaeology, The University of Sheffield

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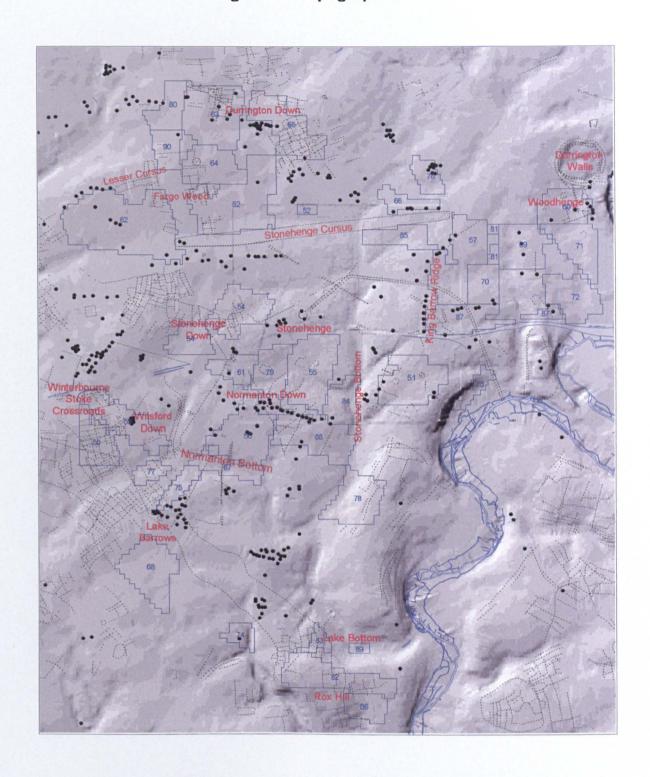
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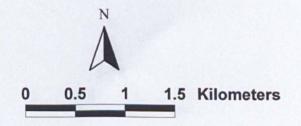
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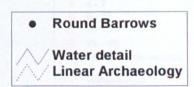
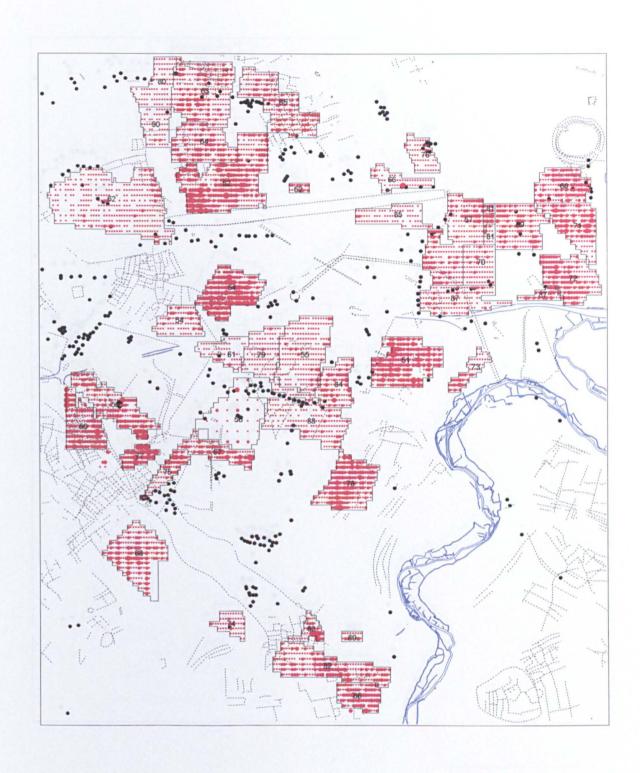
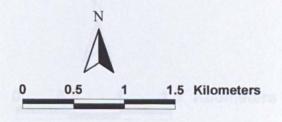


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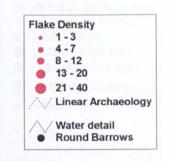
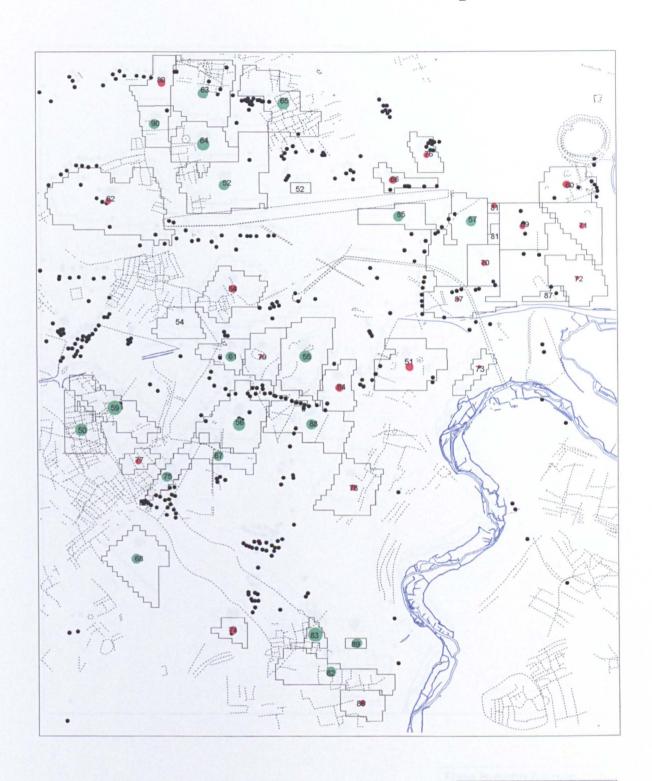
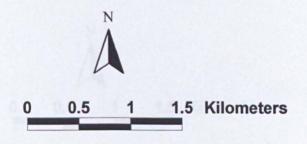


Plate 3: Z-score distribution for flake length





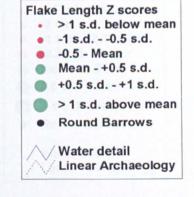
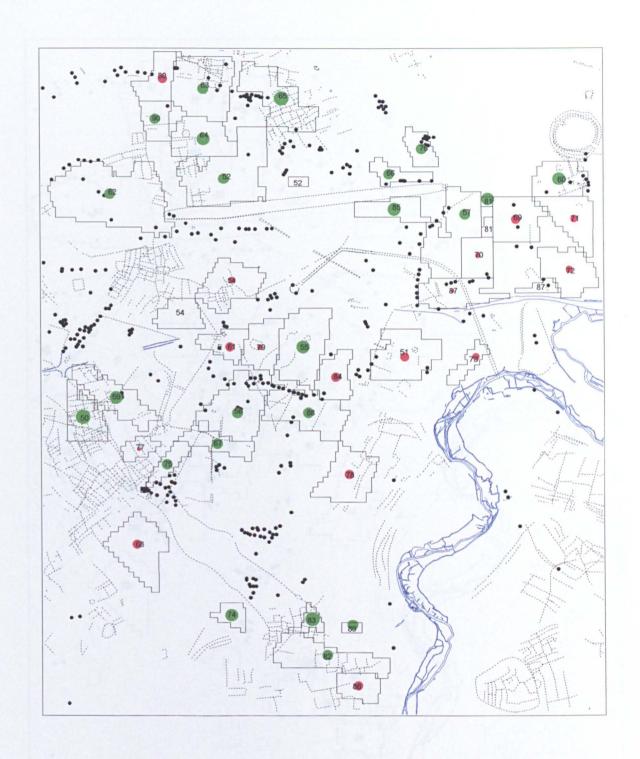
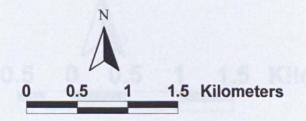


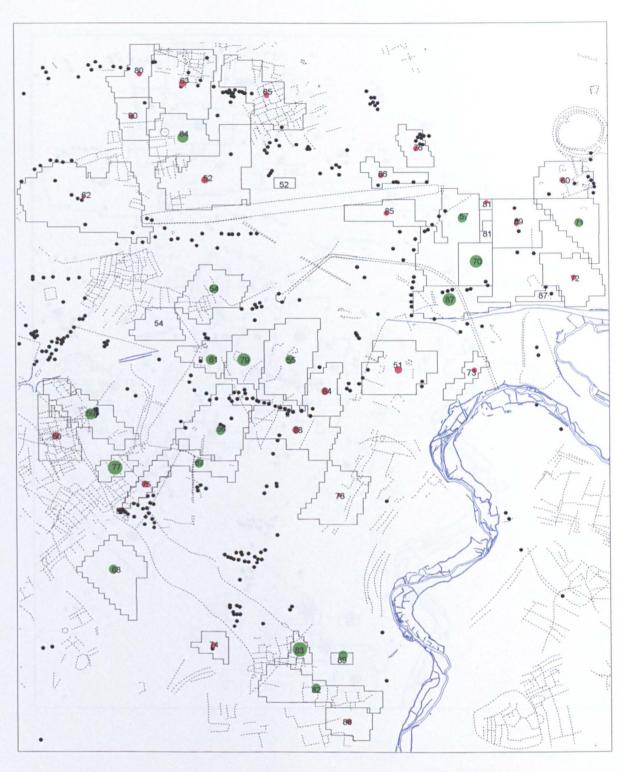
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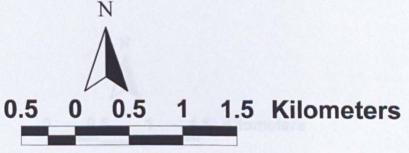




# Flake Breadth Z-score > 2 s.d. below mean -2 s.d. - -1 s.d. -1 s.d. - -0.5 s.d. -0.5 s.d. - mean mean - 0.5 s.d. 0.5 s.d. - 1 s.d. > 1 s.d. above mean Round Barrows Water detail Linear Archaeology

Plate 5: Z-score distribution for flake length:breadth ratios





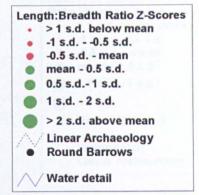
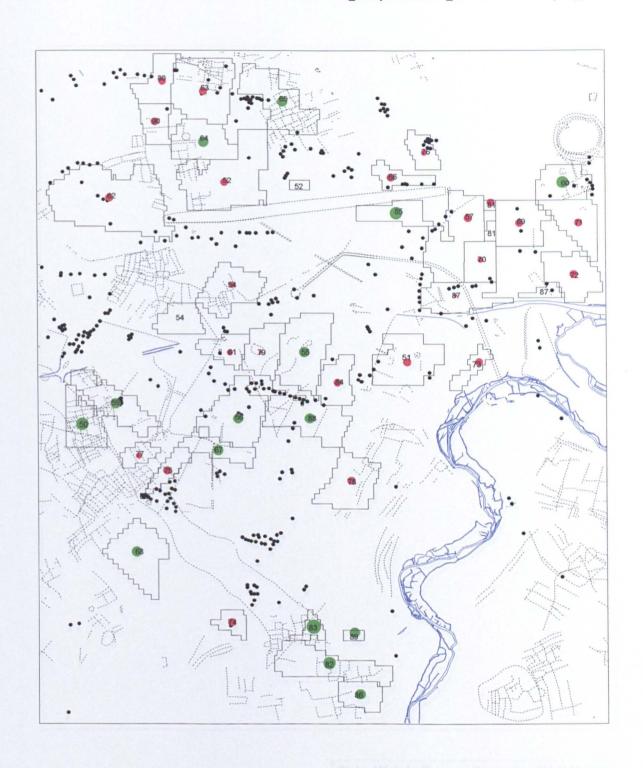


Plate 6: Z-score distribution for flake weight (including Well House (83))



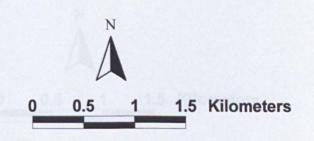
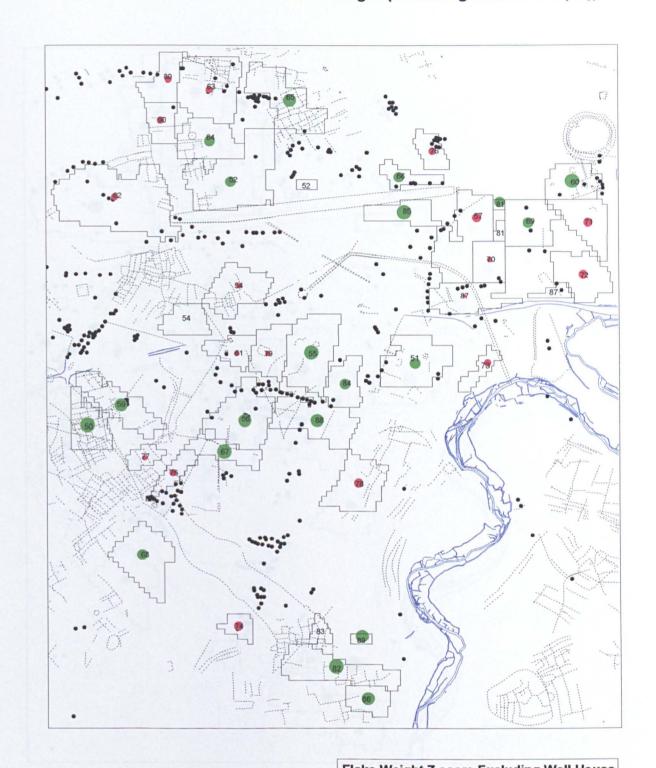
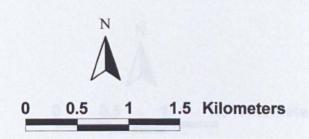




Plate 7: Z-score distribution for flake weight (excluding Well House (83))





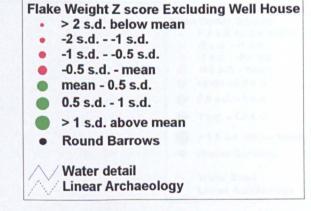
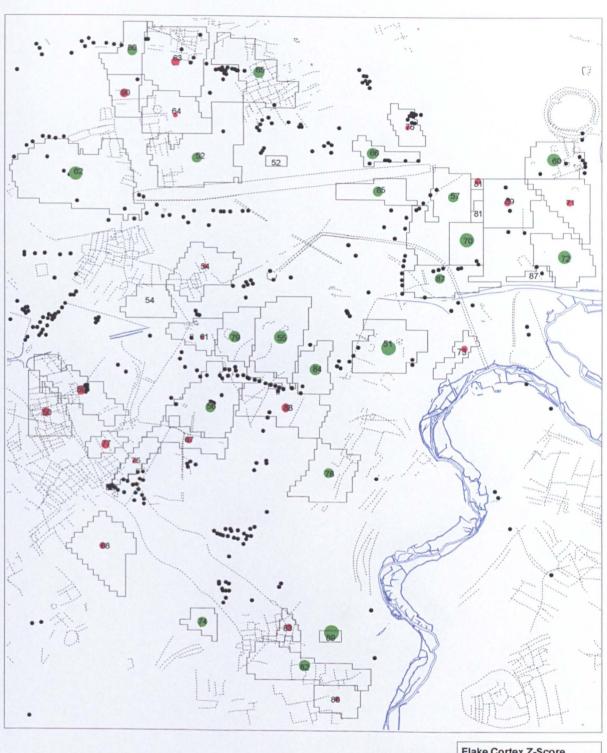
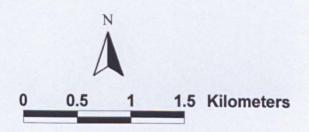


Plate 8: Z-score distribution for flake cortex coverage





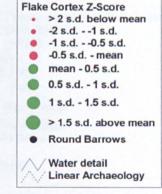
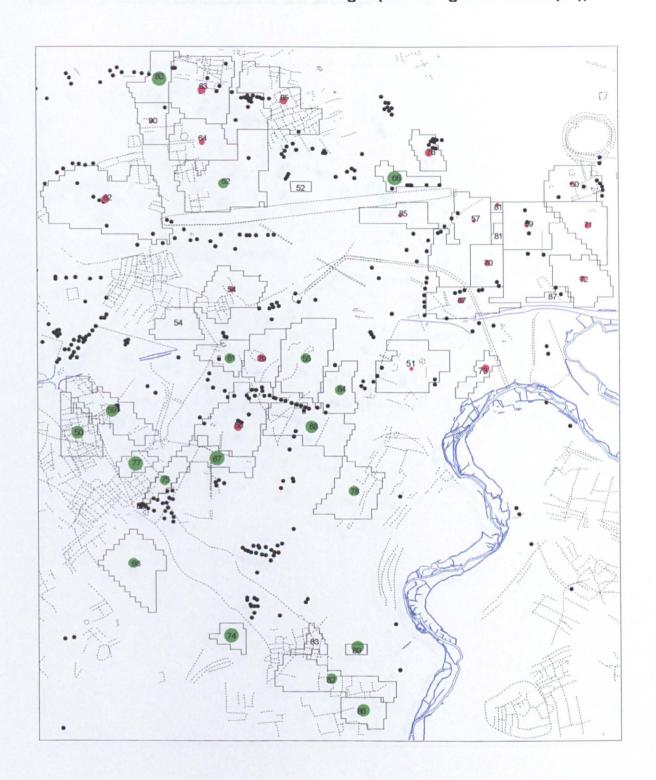
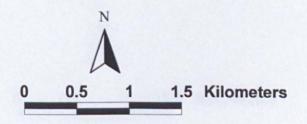


Plate 9: Z-score distribution for core weight (excluding Well House (83))





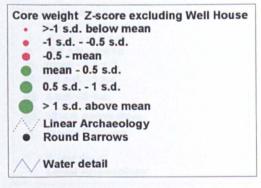
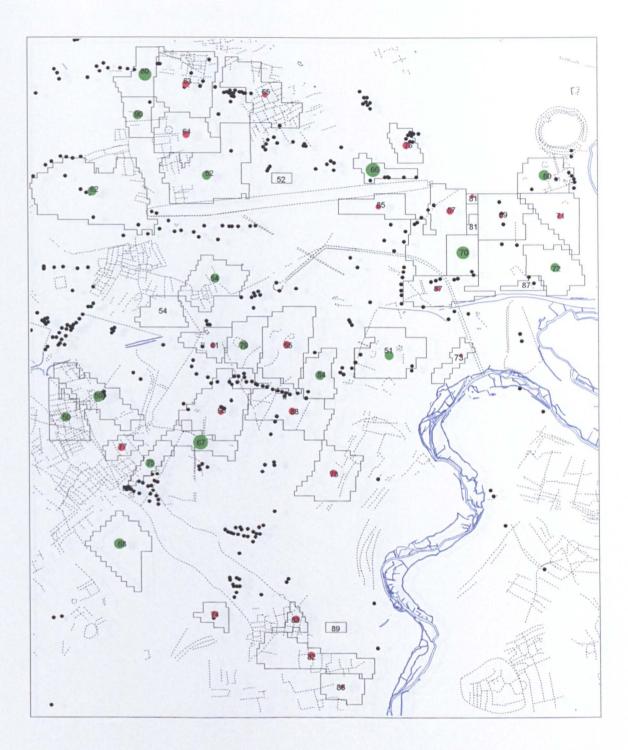
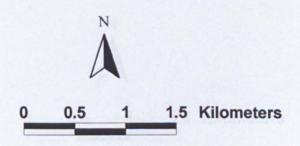


Plate 10: Z-score distribution for the average number of flake scars on cores





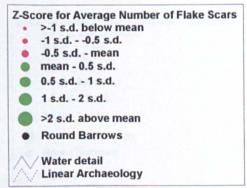
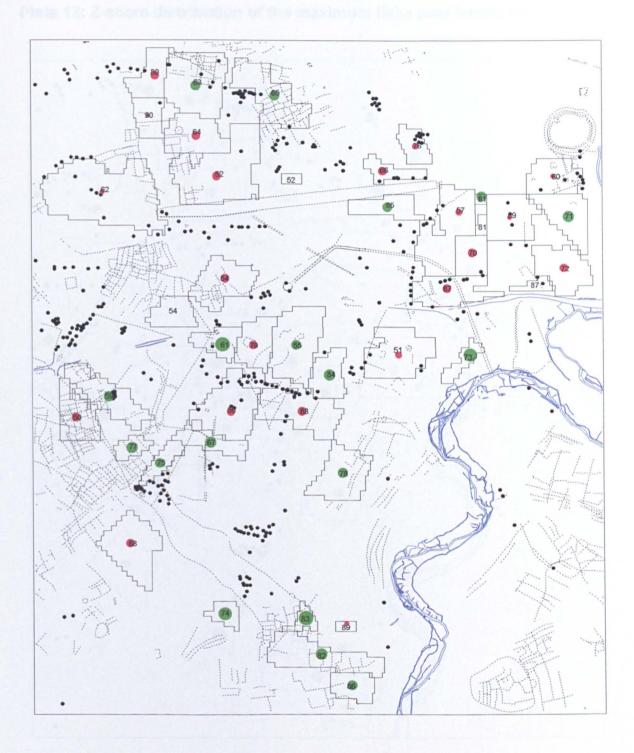
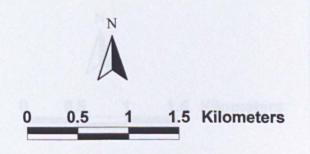


Plate 11: Z-score distribution of the average length of flake scars on cores





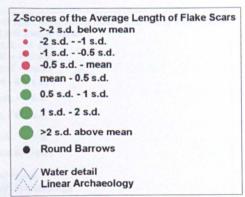
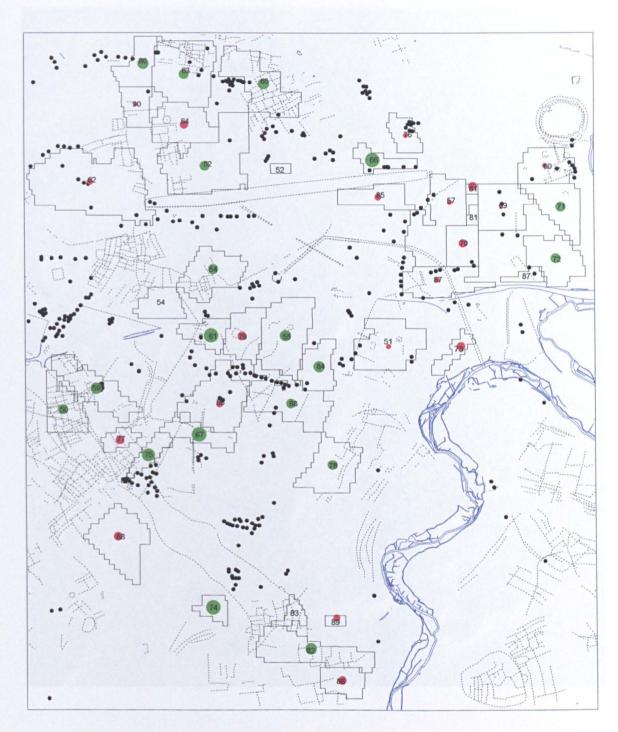


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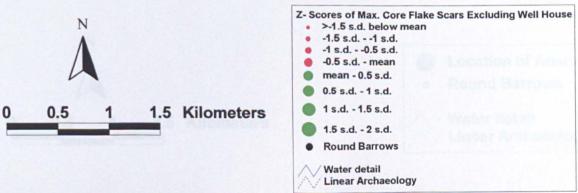
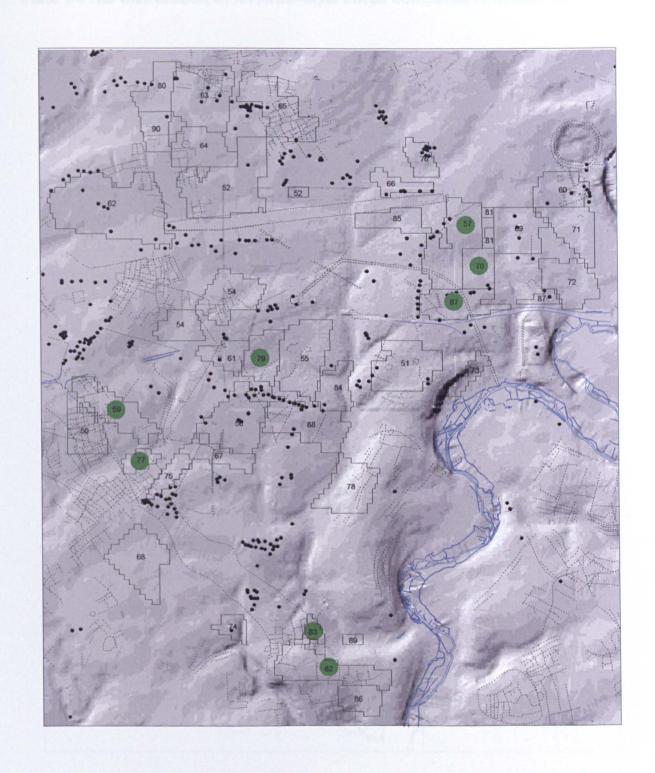
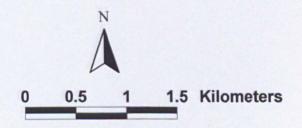


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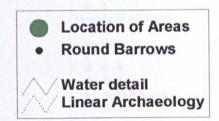
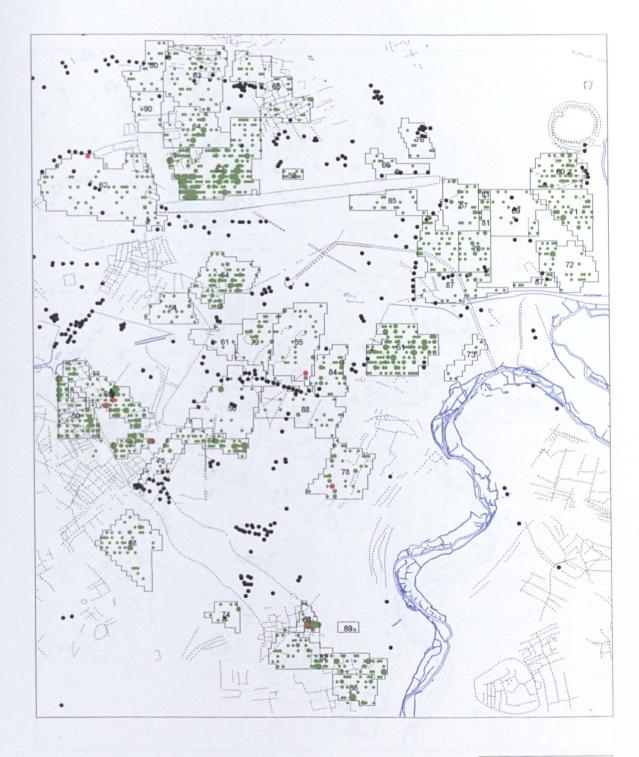
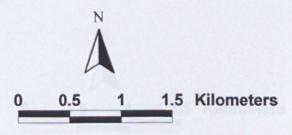


Plate 14: The distribution of levallois-style cores compared to overall core density





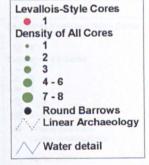
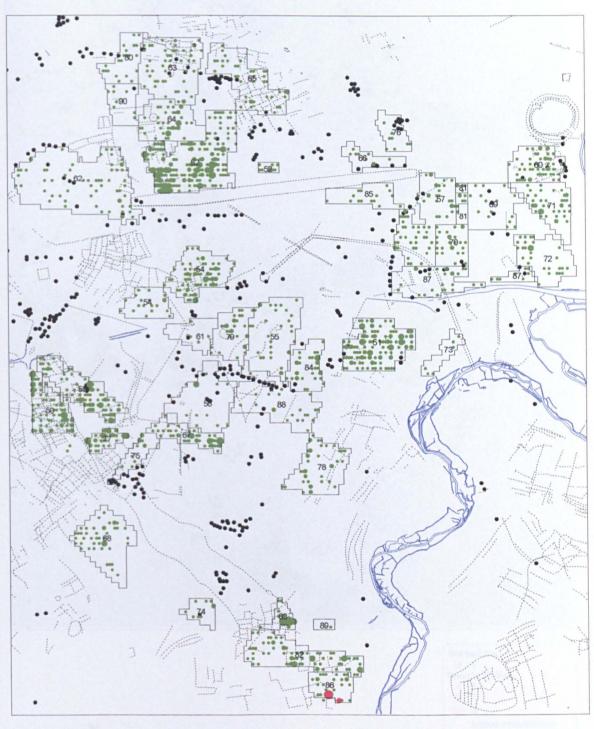


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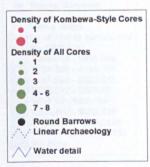


Plate 16: The distribution of reused flakes and cores compared to flake density

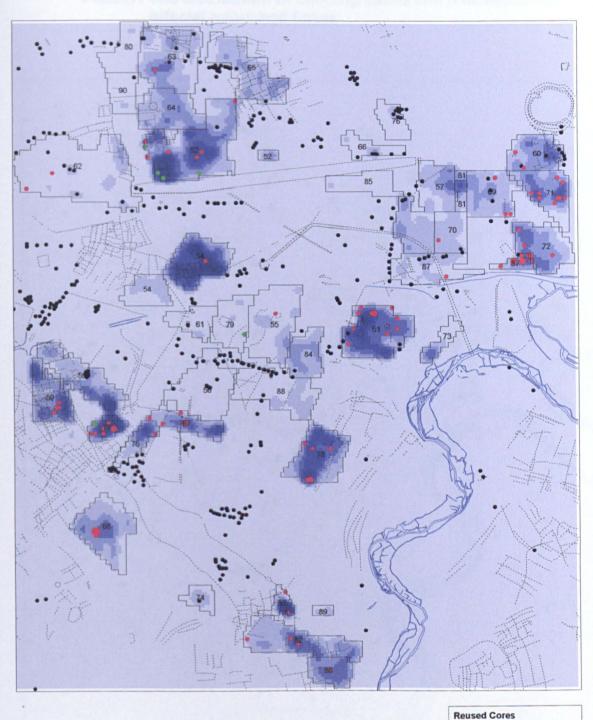
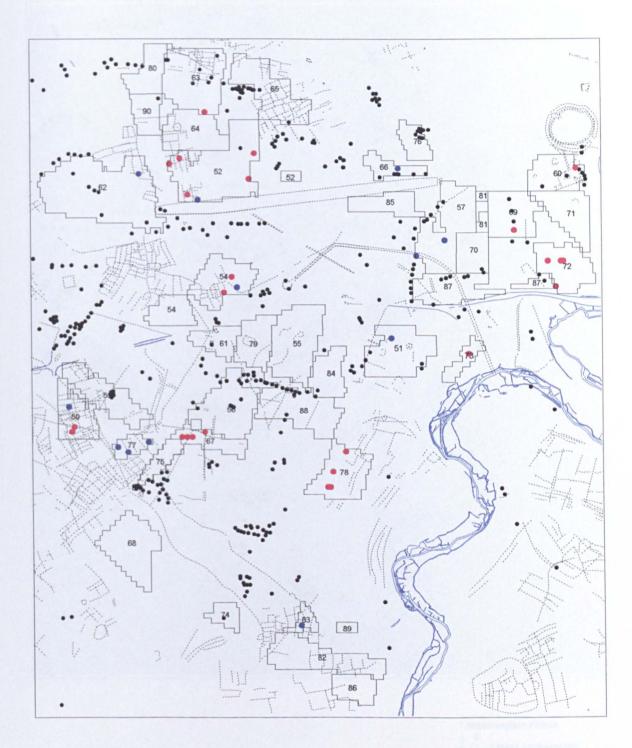
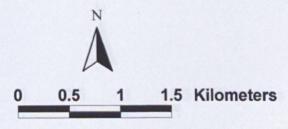




Plate17: The distribution of thinning flakes and miscellaneous bifacial retouched flakes





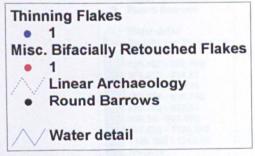
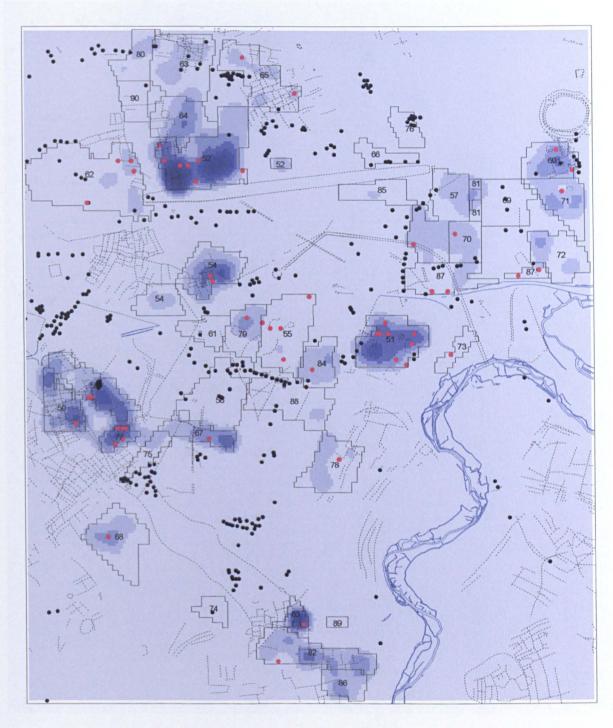
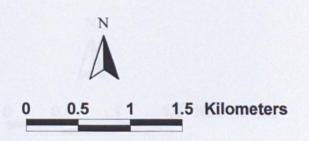


Plate 18: The distribution of core rejuvenation flakes





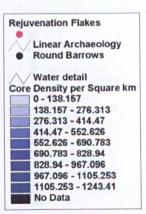


Plate 19: The distribution of hammerstones and cores reused as hammerstones

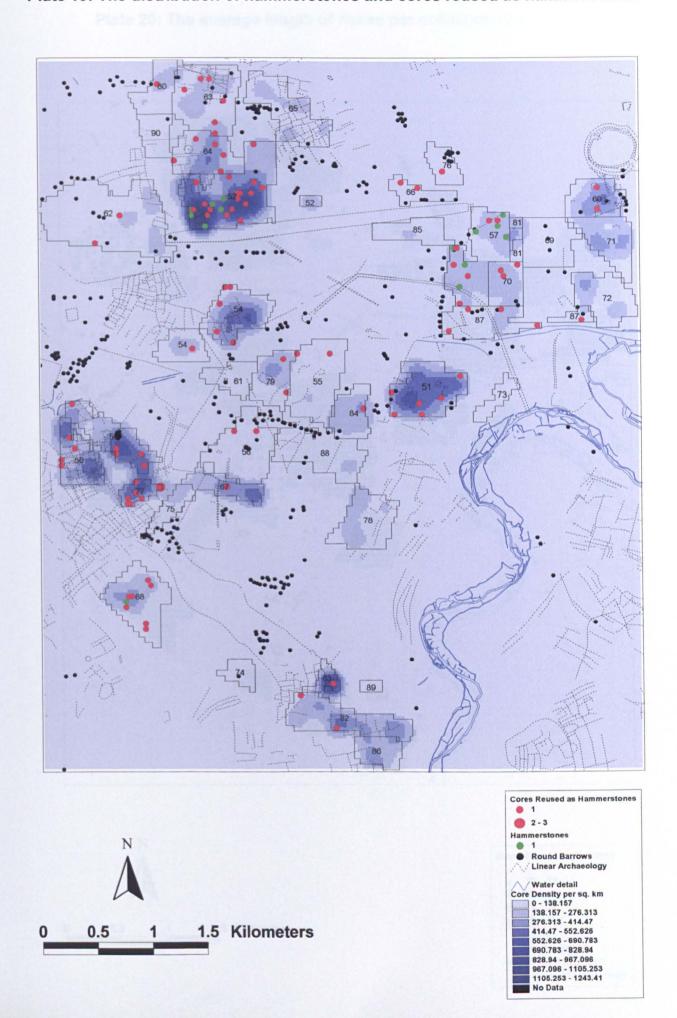
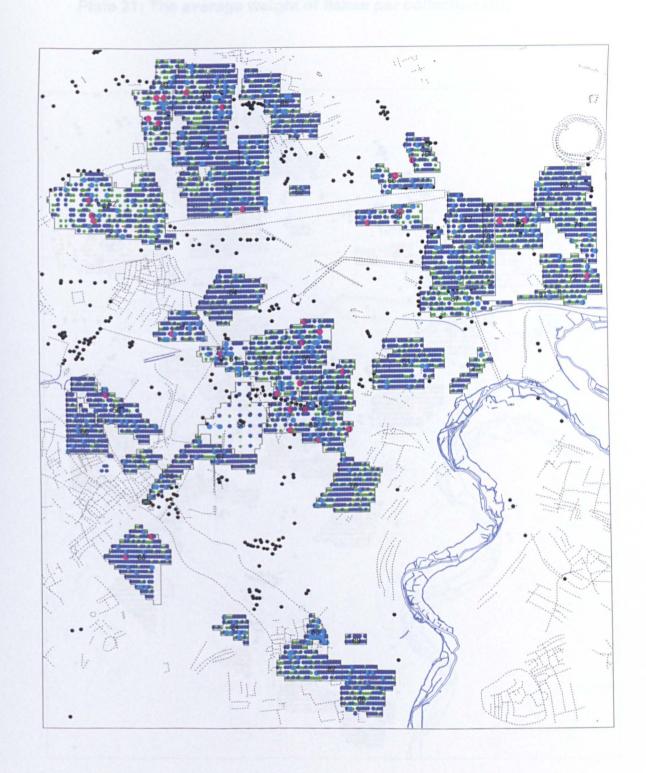
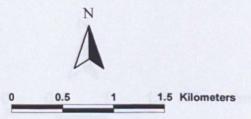


Plate 20: The average length of flakes per collection run





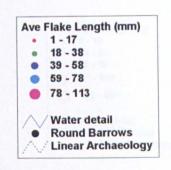
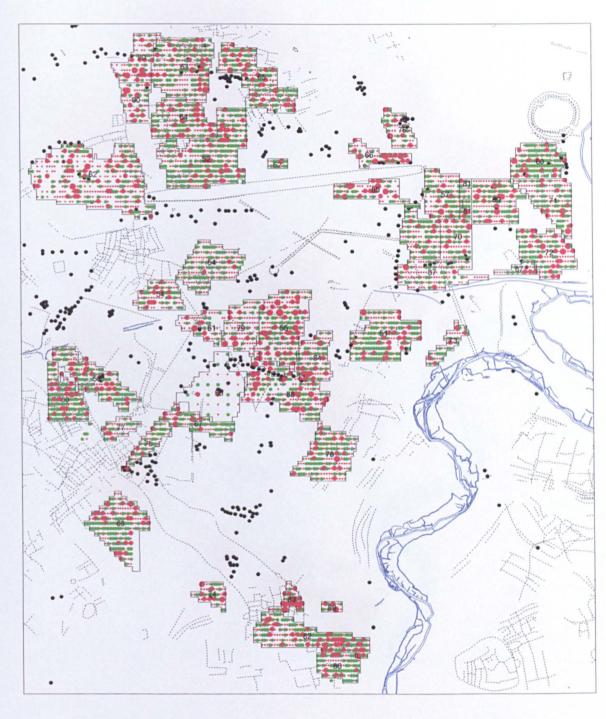


Plate 21: The average weight of flakes per collection run





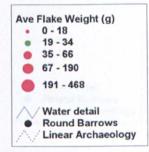
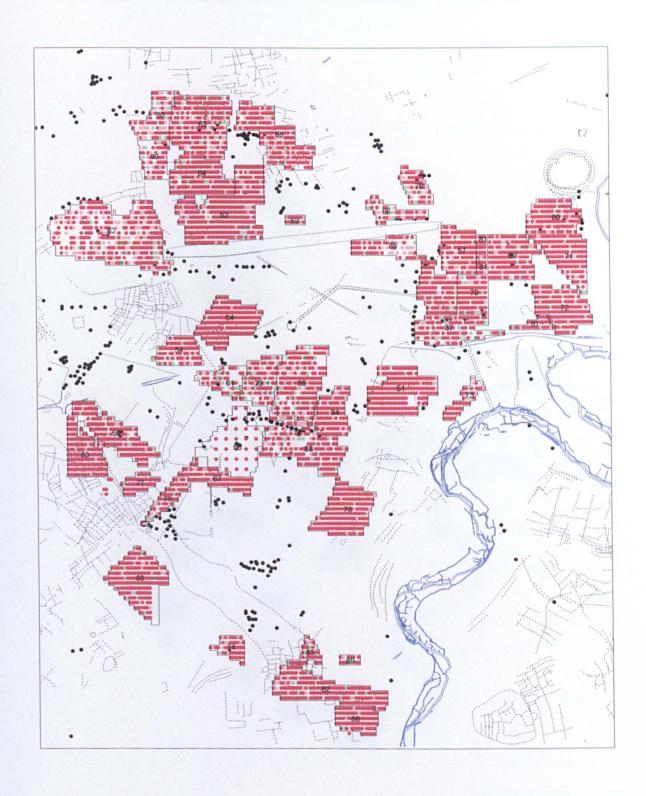
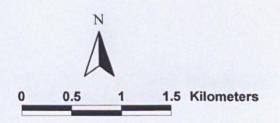


Plate 22:The average flake length:breadth ratio per collection run





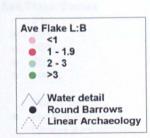
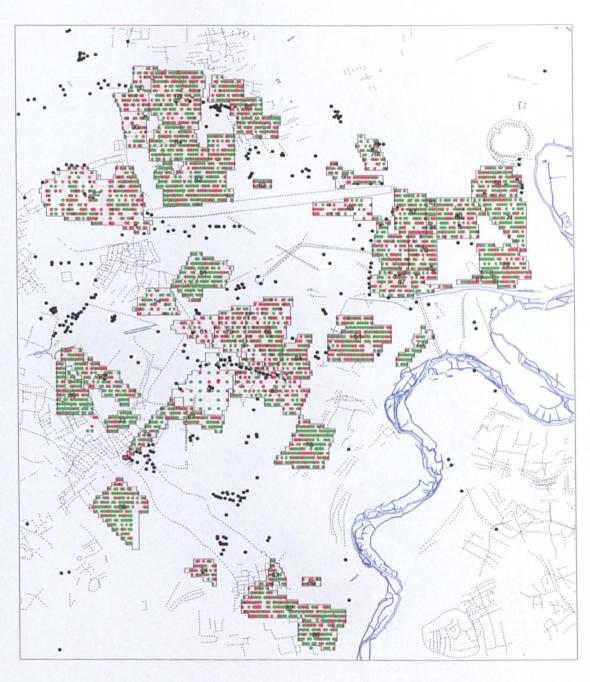
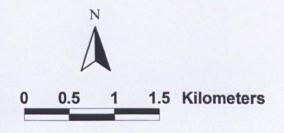


Plate 23: The average amount of cortex on flakes per collection run





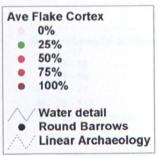
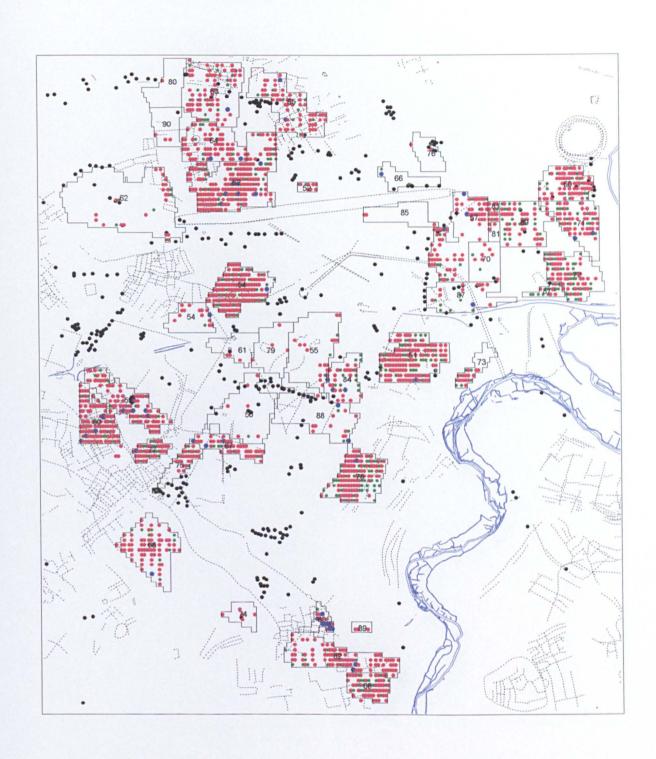
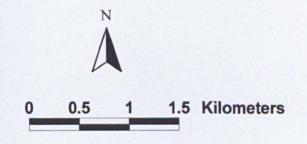


Plate 24: The average length of flakes from collection runs with more than three flakes





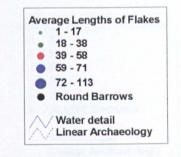
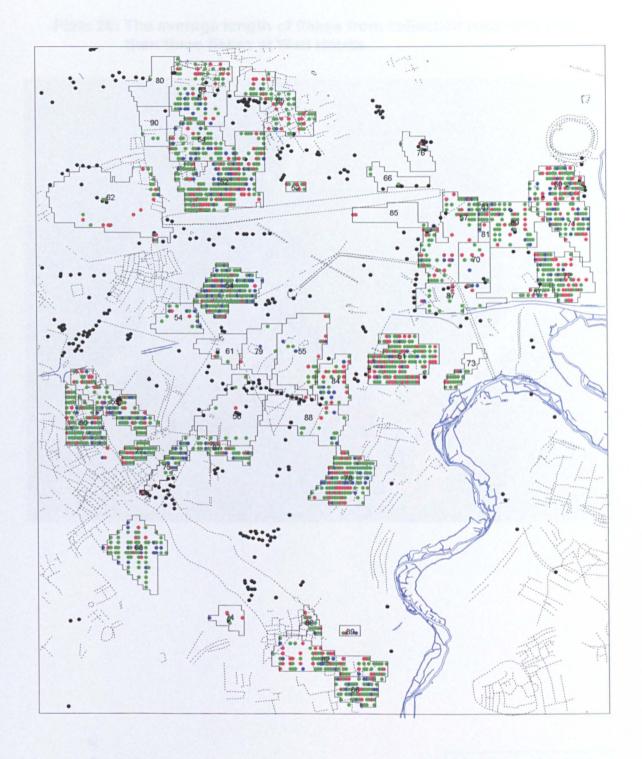
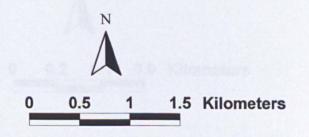


Plate 25: The average amount of cortex on flakes from collection runs with more than three flakes





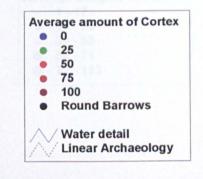
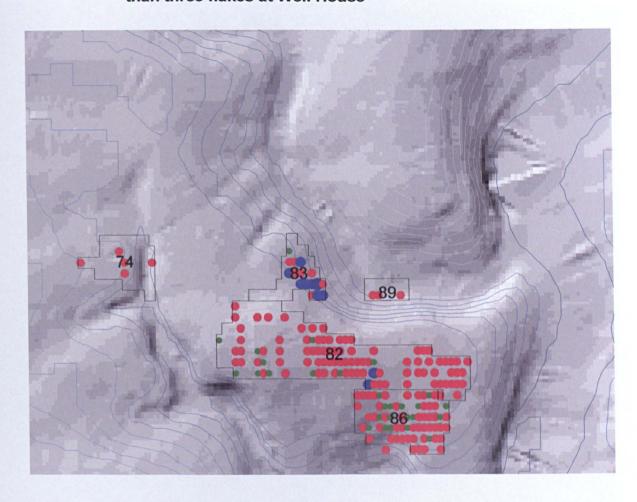
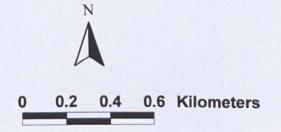


Plate 26: The average length of flakes from collection runs with more than three flakes at Well House





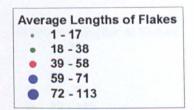
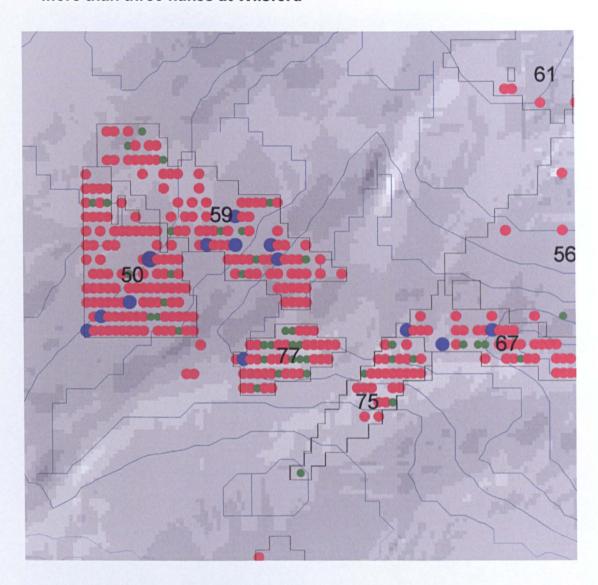
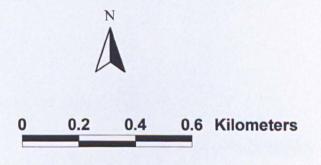


Plate 27: The average length of flakes from collection runs with more than three flakes at Wilsford





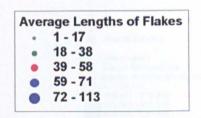
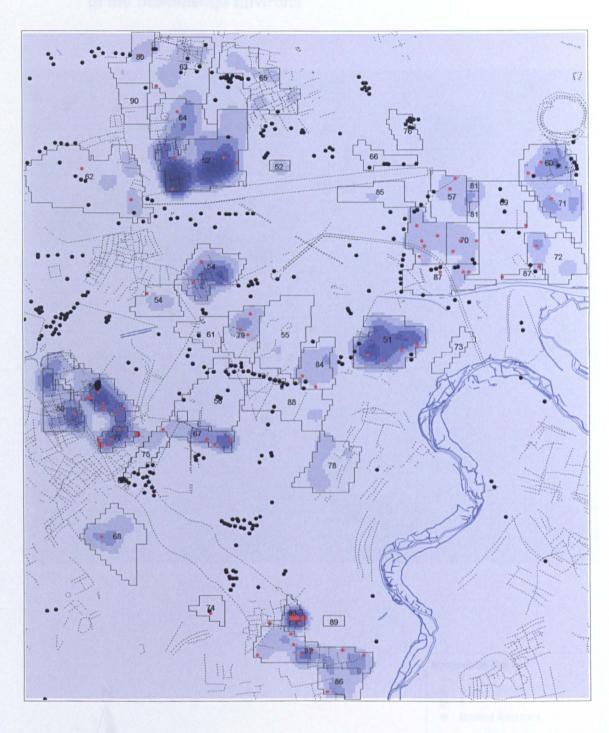
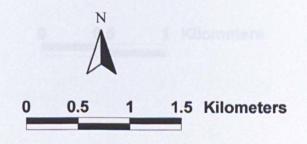


Plate 28: The distribution of systematic cores compared to overall flake density





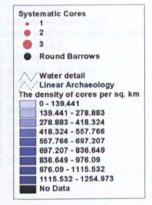
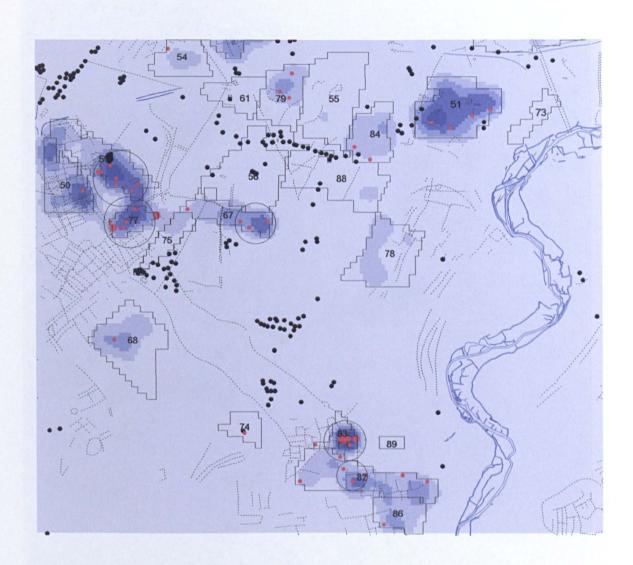
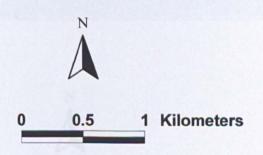


Plate 29: The concentration of systematic cores in the dry valley in the south of the Stonehenge Environs





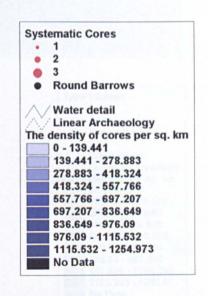
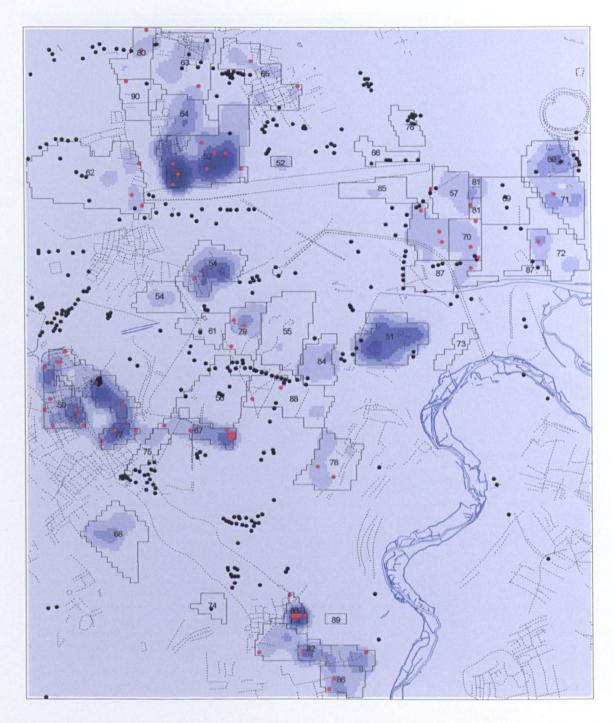
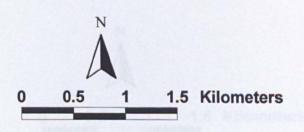


Plate 30: The distribution of Clark Type A1 cores compared overall core density





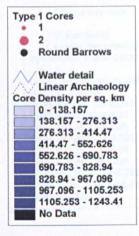
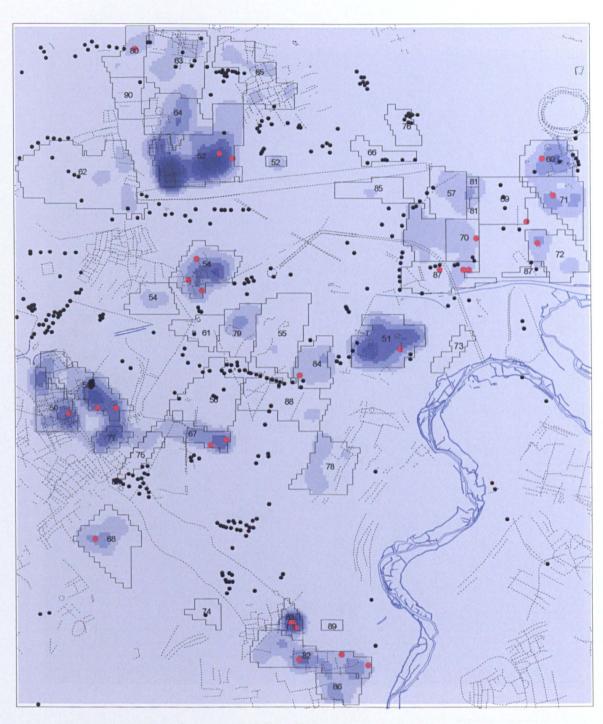
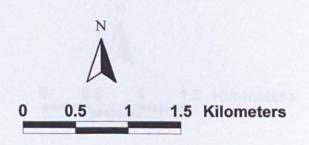


Plate 31: The distribution of conical blade cores compared to core density





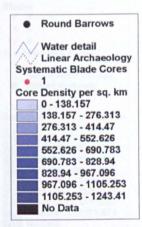
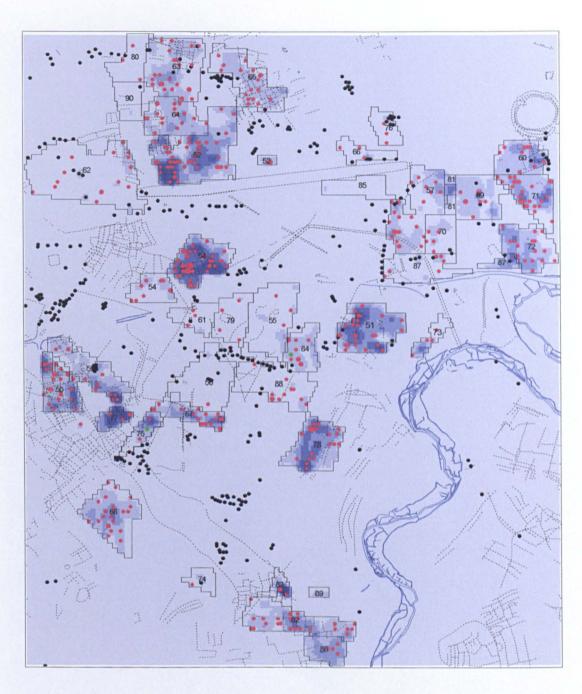
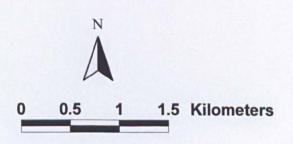


Plate 32: the distribution of blades and crested blade flakes





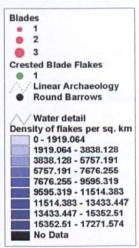
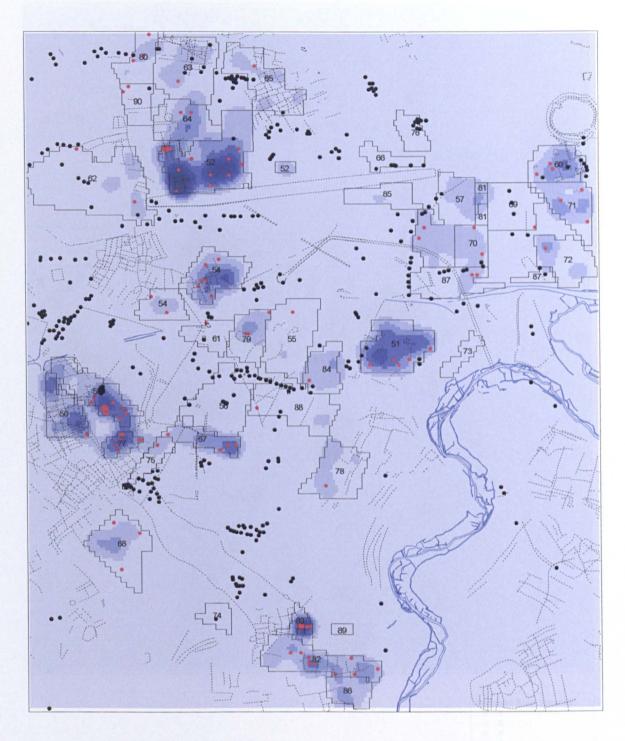


Plate 33: The distribution of cores with platfrom maintenance



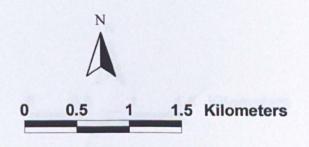
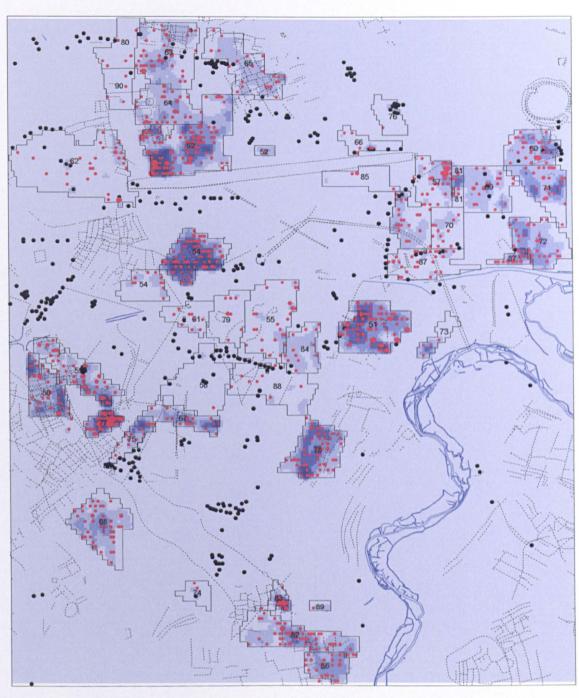
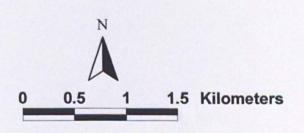




Plate 34: The distribution of flakes wth prepared butts compared to overall flake density





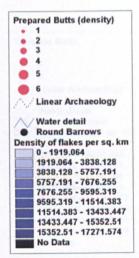
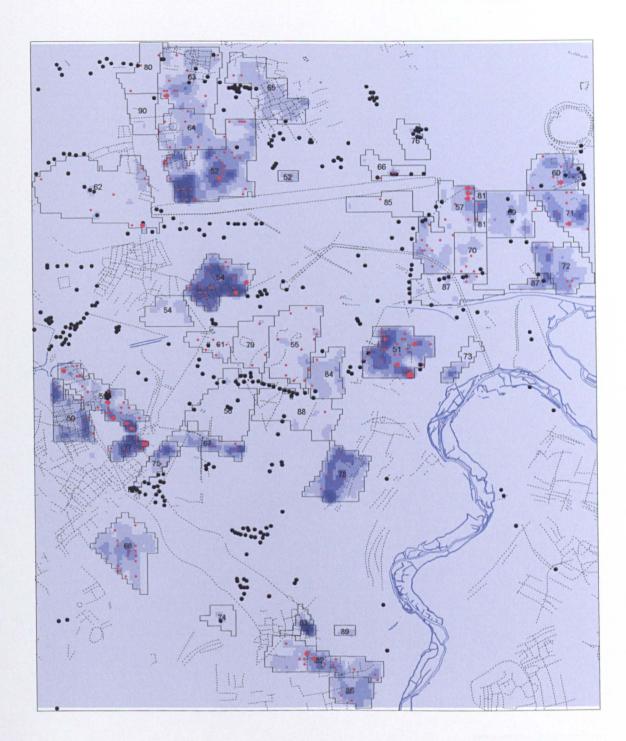
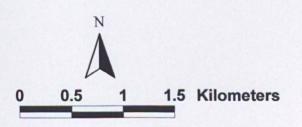


Plate 35: The distribution of flakes with trimmed butts





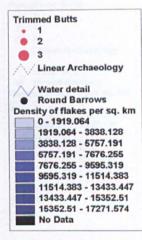
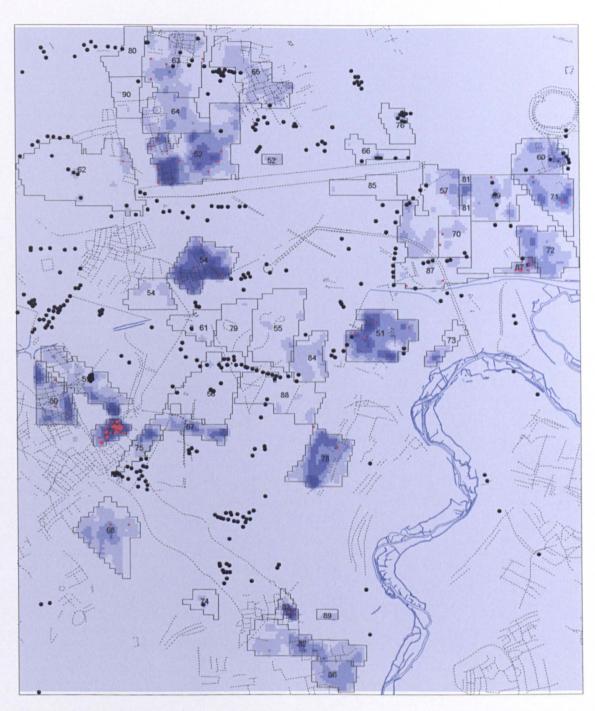
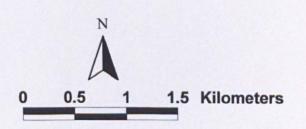


Plate 36: The distribution of flakes with punctiform butts





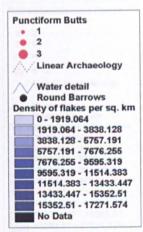
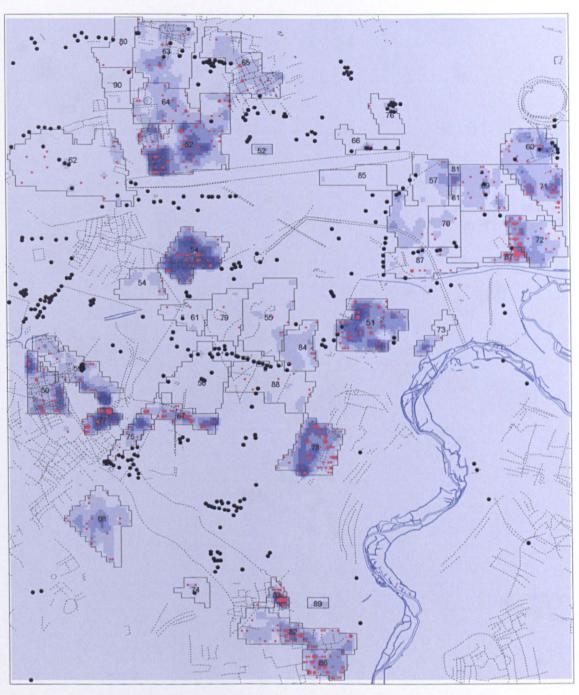
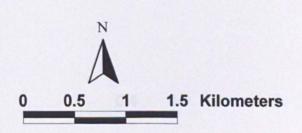


Plate 37: The distribution of retouched/utilised flakes





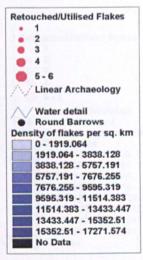
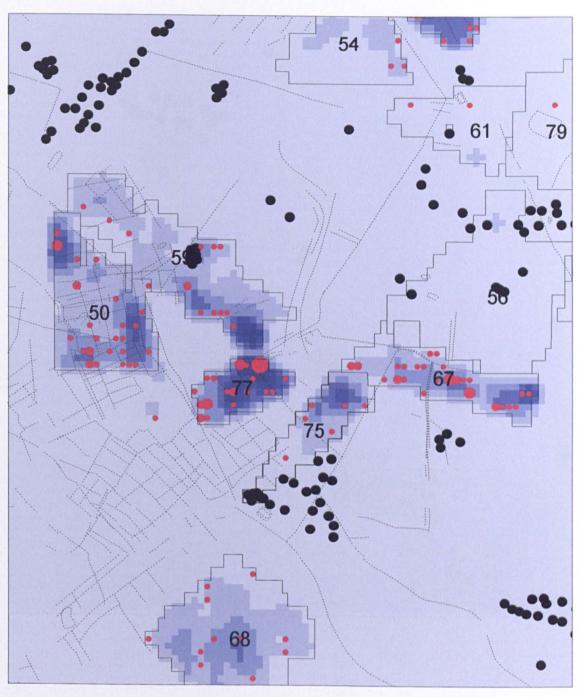
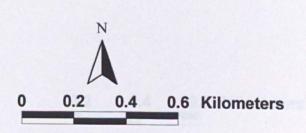


Plate 38: The distribution of retouched/utilised flakes around Wilsford





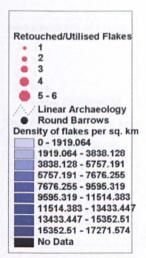


Plate 39: The distribution of retouched/utilised flakes around Rox Hill and Well House

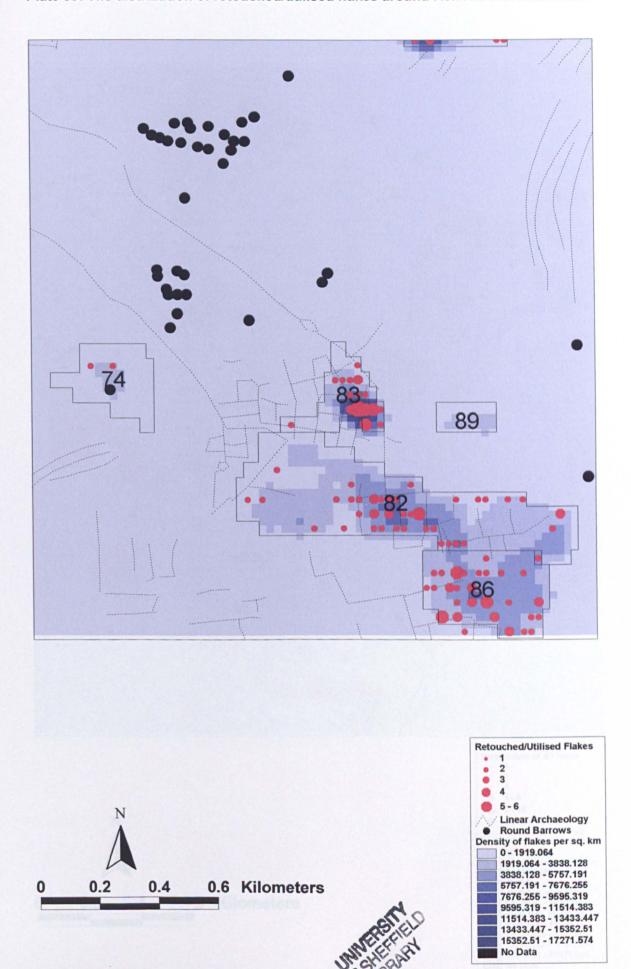


Plate 40: The distribution of all tools compared to flake density

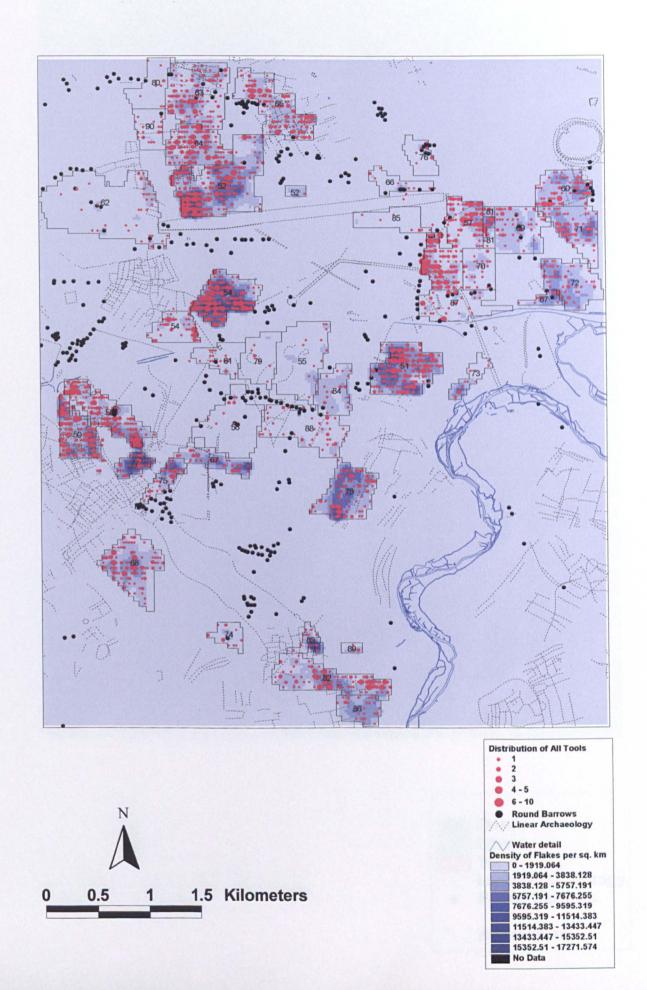
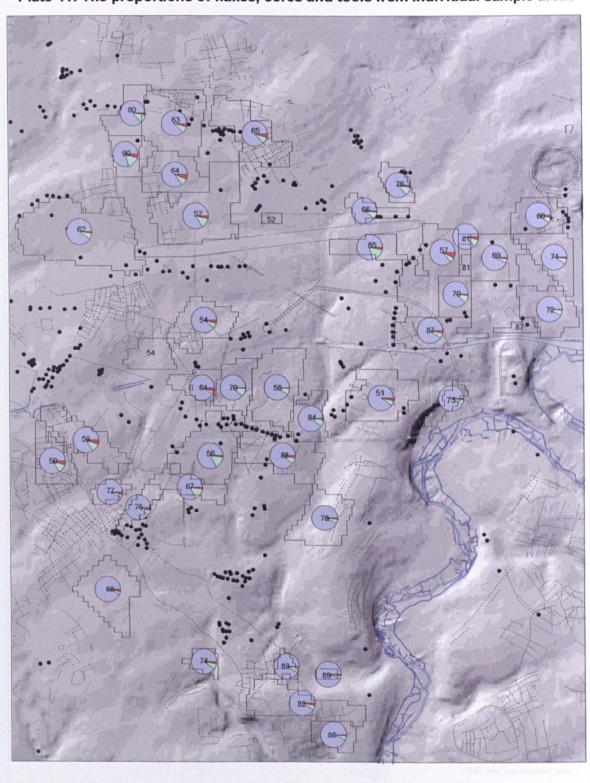
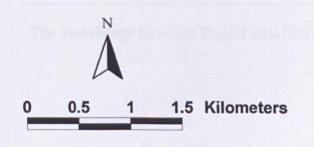
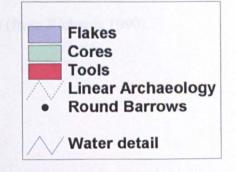
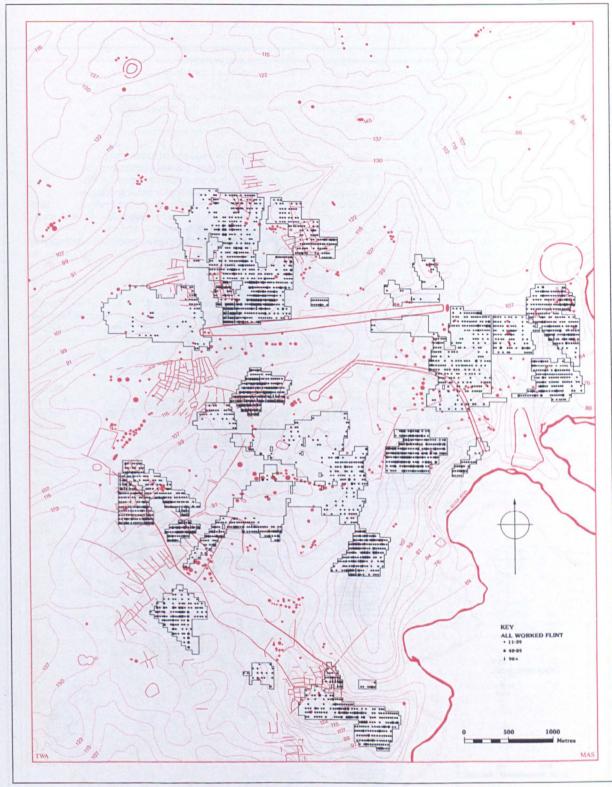


Plate 41: The proportions of flakes, cores and tools from individual sample areas

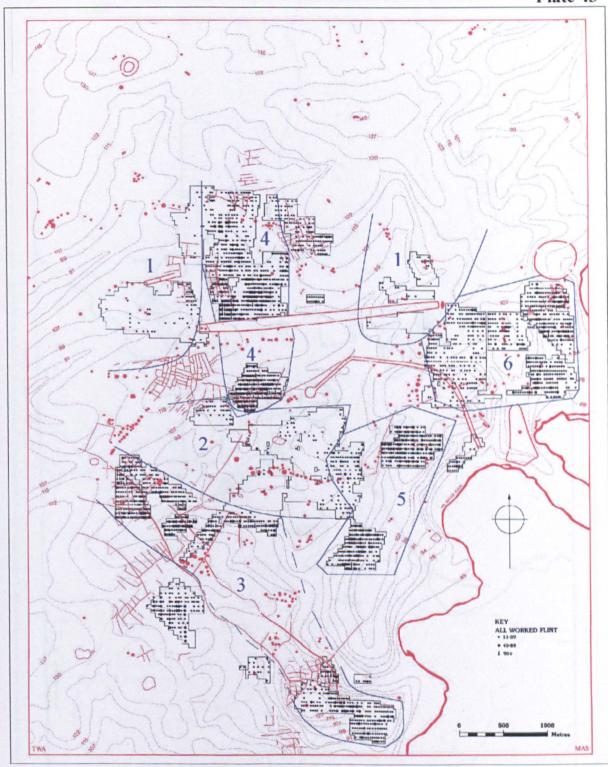




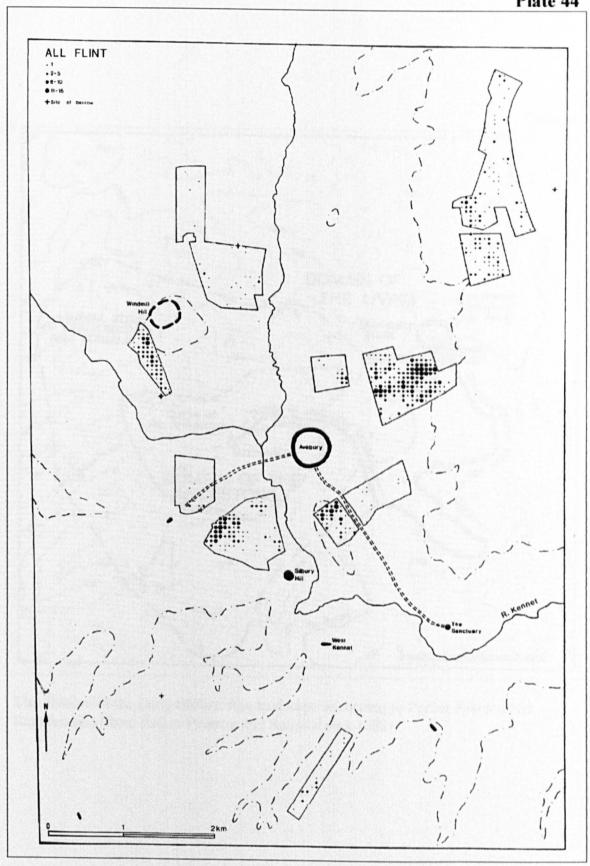




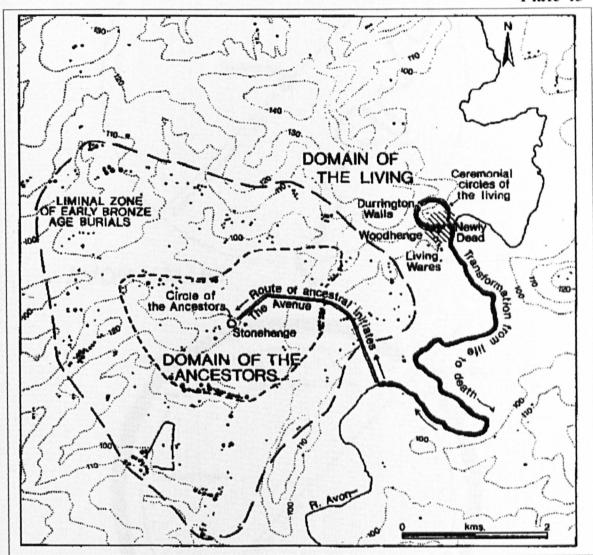
The Stonehenge Environs Project total flint distribution (from Richards 1990).



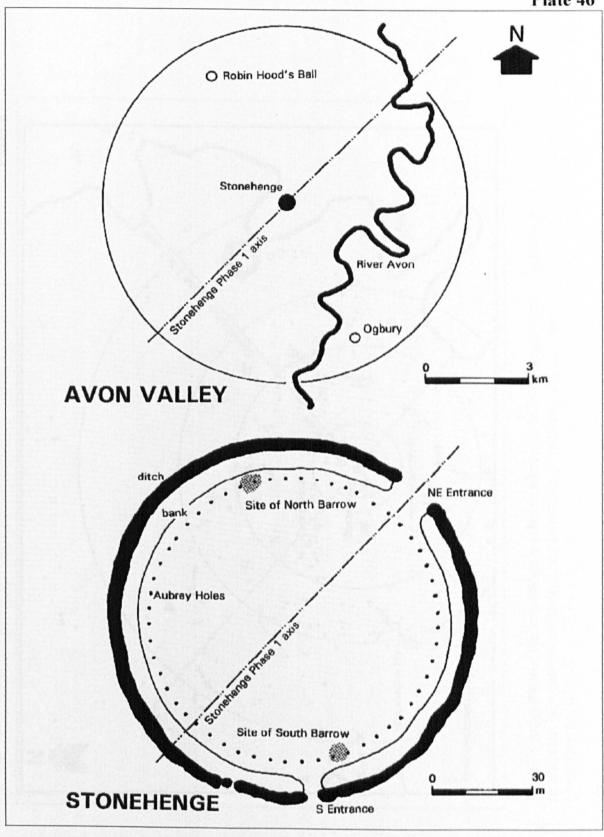
The six zones suggested by the Stonehenge Environs Project (after Richards 1990)



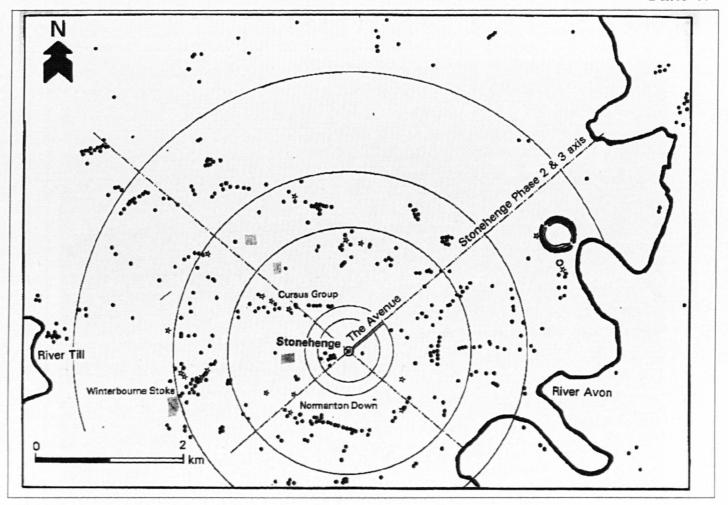
The distribution of flint collected by Holgate and Thomas from the Avebury region (from Holgate 1988)



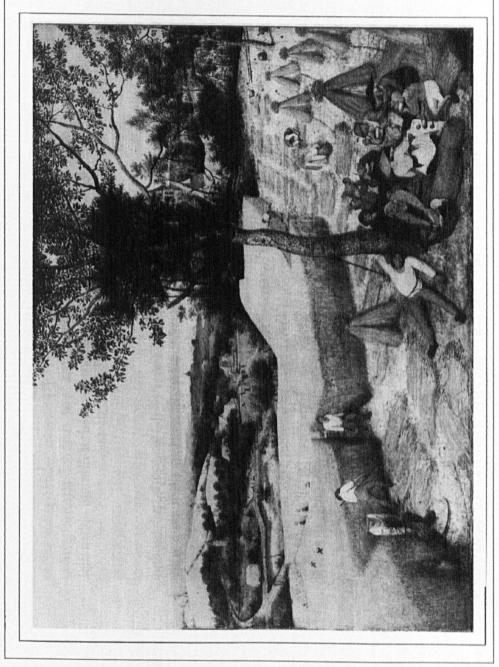
The division of the Early Bronze Age landscape according to Parker Pearson and Ramilisonina (from Parker Pearson and Ramilisonina 1988).



Darvill's suggestion of the cosmological scheme witnessed at Stonehenge Phase 1 indicating the relationship between the monument and its surrounding landscape (from Darvill 1997).

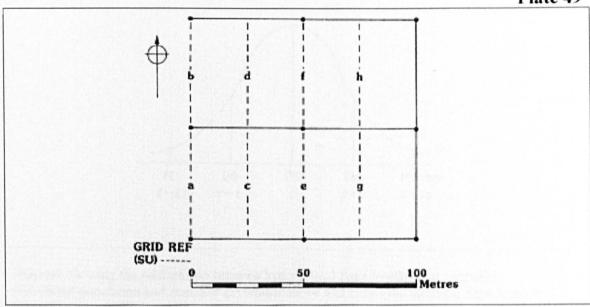


Darvill's suggestion of the cosmological scheme witnessed in Stonehenge Phase 3 indicating the relationship between the monument, the surrounding landscape and the other monuments in the Environs (from Darvill 1997).

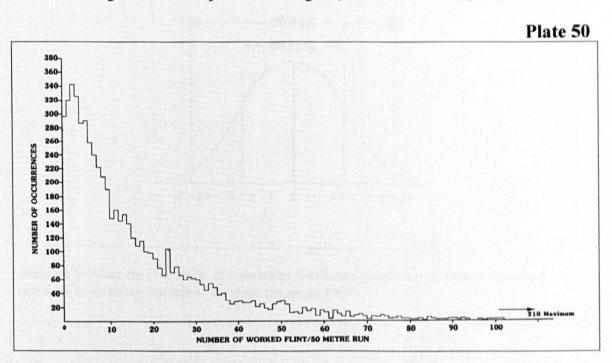


The Harvesters by Bruegal (from Ingold 1993).

Plate 49



The Stonehenge Environs Project collection grid (from Richards 1990).



Frequency of the different numbers of worked flint collected by the Stonehenge Environs Project from individual collection runs (from Richards 1990).

Plate 51

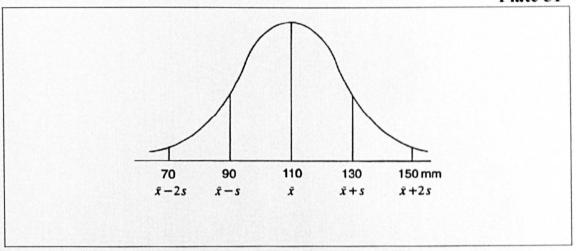


Diagram showing the relationship between hypothetical flake lengths in a normally distributed population and standard deviations above and below the mean for flake lengths (from Shennan 1997).

Plate 52

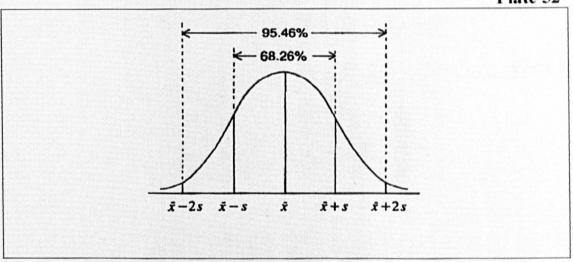
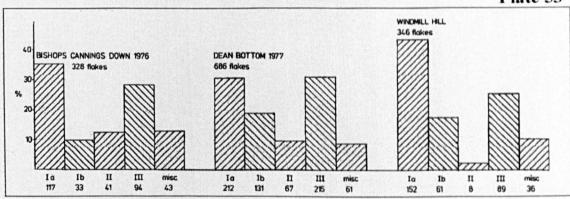


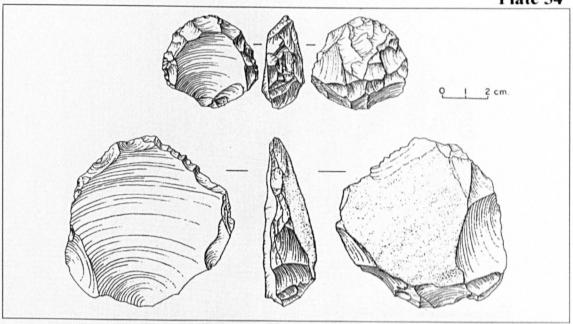
Diagram showing the proportion of a normally distributed population in different standard deviation units above and below the mean (Shennan 1997).

Plate 53

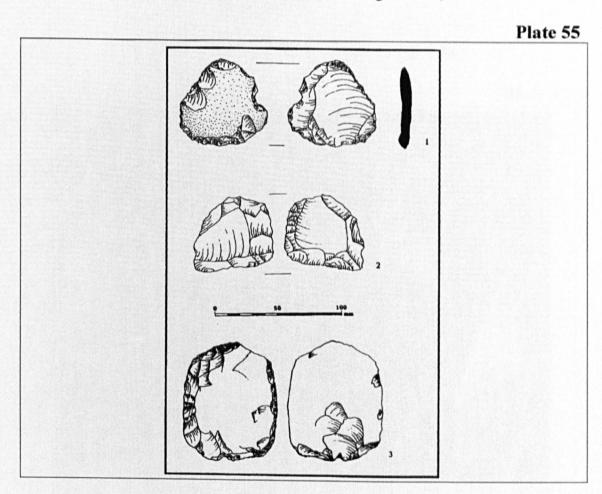


Histograms showing the proportions of flakes of different flake class categories from three archaeological sites (from Gingell and Harding 1981) (Ia= my category 1; Ib= my category 2; II= my category 3; III= my category 4; misc= my category 0).

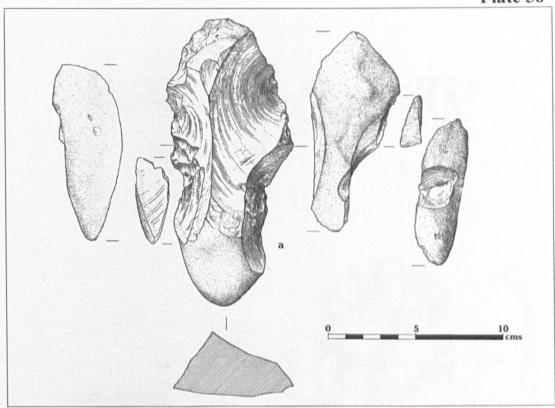
Plate 54



Examples of Palaeolithic Levallois cores (from Addington 1986).

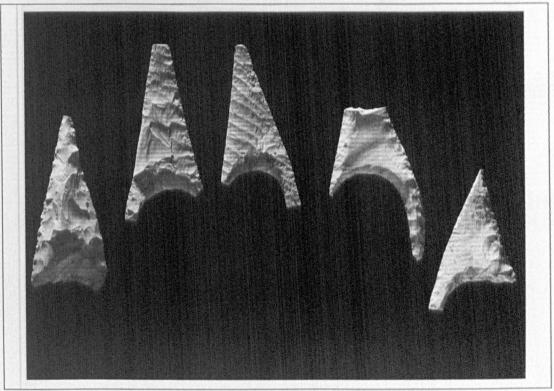


Late Neolithic levallois cores collected by Durden on the Yorkshire Wolds (1 & 2) and an example of a discoidal knife produced from these cores (3) (from Durden 1995).

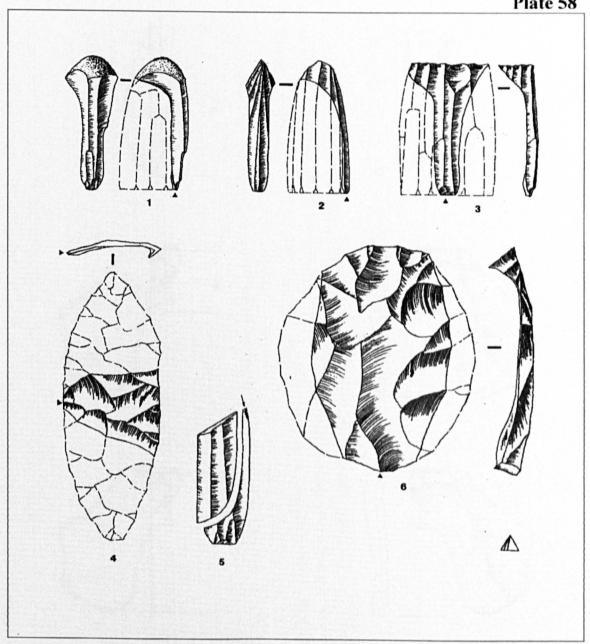


Potential axe roughout from Wilsford Down (from Richards 1990).

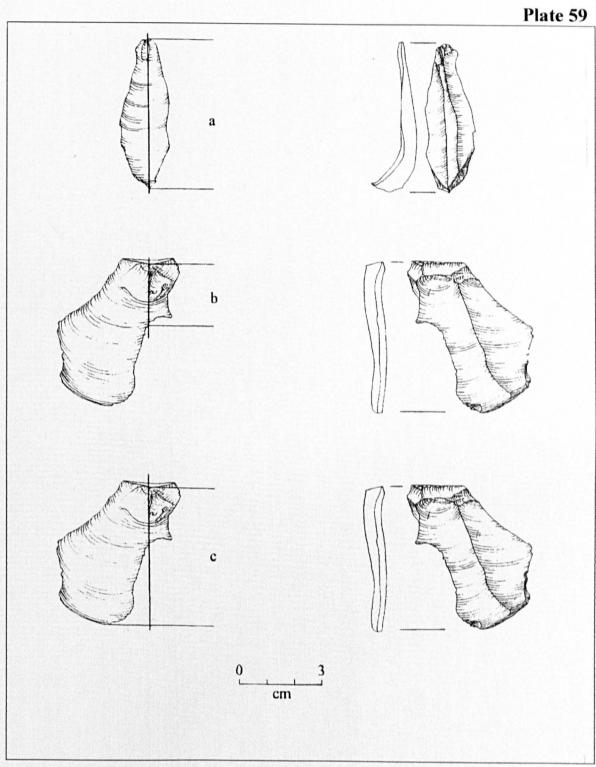
Plate 57



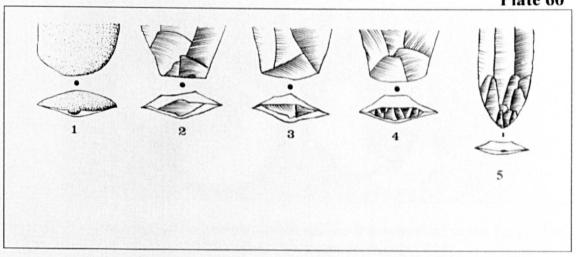
Oblique and oblique ripple flaked arrowheads from Durrington Walls (from Edmonds 1995).



Example of different types of plunging flakes: 1) on a core with a cortical end; 2) on a pyramidal pressure core; 3) on a core with two opposed platforms; 4) on a biface; 5) on an angle burin; 6)on a levallois core (from Tixier et al. 1980).

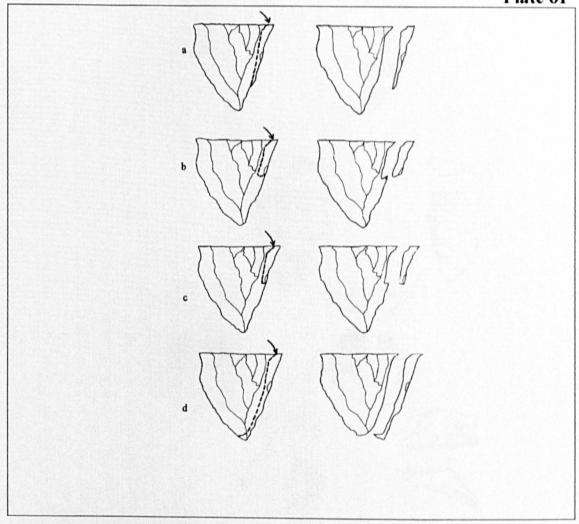


Different methods of measuring flake length (from Andrefsky 1998).



Examples of flake butt types: 1) cortical; 2) plain; 3) dihedral; 4) faceted; 5) punctiform (after Tixier *et al.* 1980).

Plate 61



Examples of different types of flake terminations: a) feathered; b) hinged; c) stepped; d) plunging (from Andrefsky 1998).

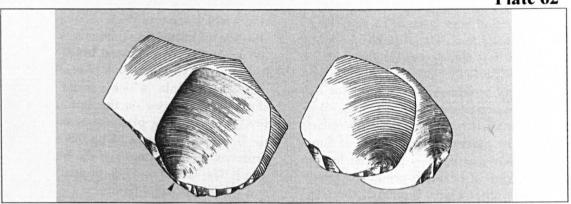


Illustration indicating the Kombewa method and the characteristics of the Janus flake that is removed using the method (from Debénath and Dibble 1994).

Plate 63

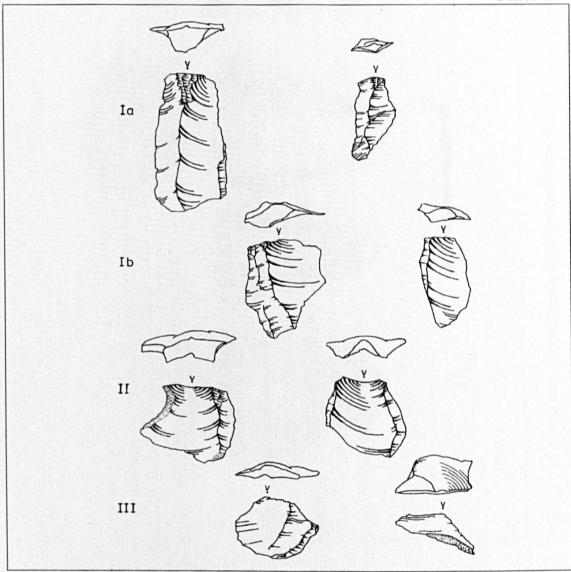
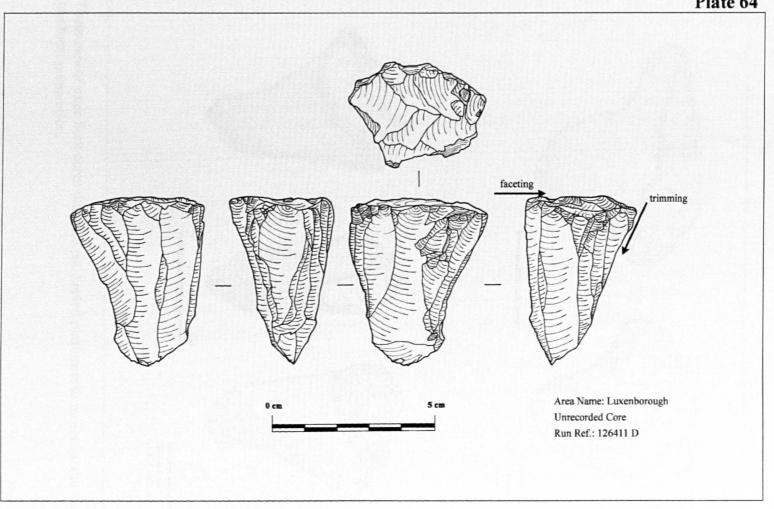
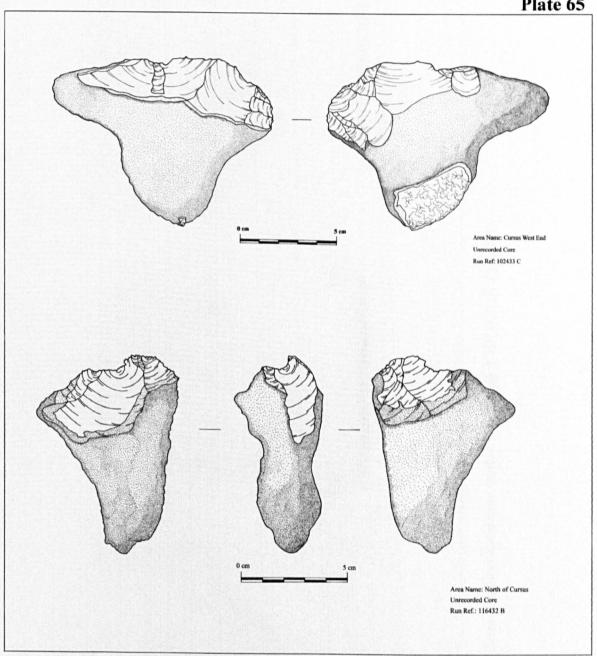


Diagram showing different flake class categories (from Gingell and Harding 1981) (Ia= my category 1; Ib= my category 2; II= my category 3; III= my category 4).

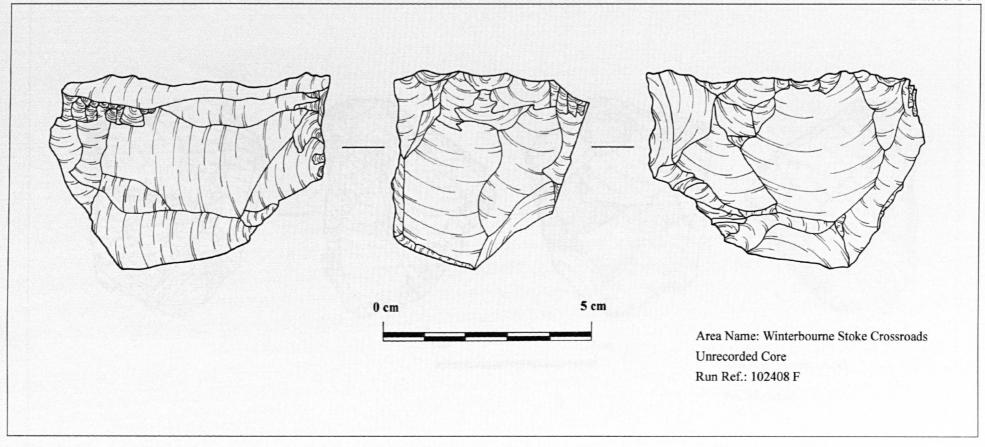
Plate 64



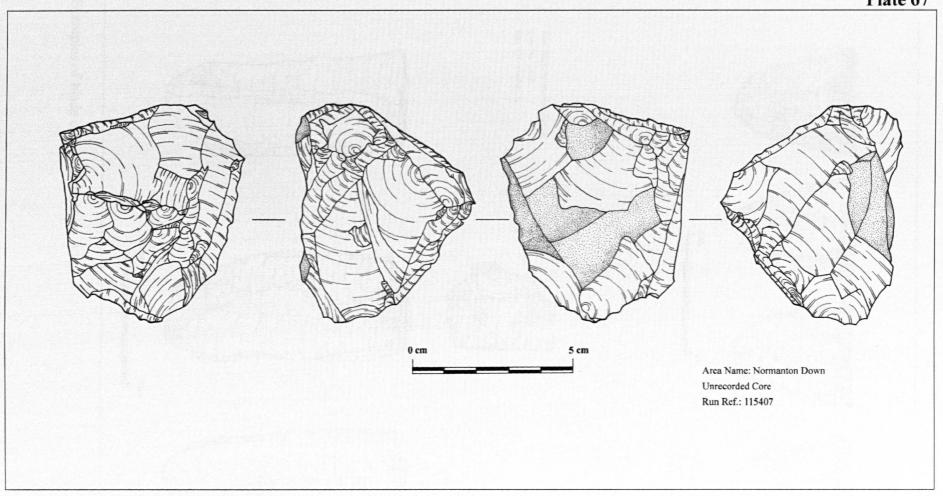
Example of a blade core also indicating the direction of faceting and trimming removals.



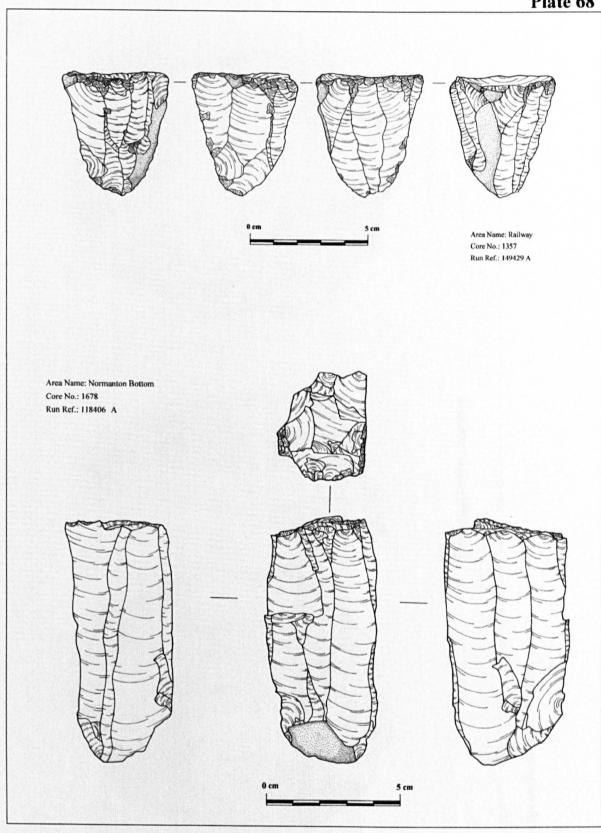
Examples of expedient cores that also use keeled platforms to minimise the need for platform preparation.



Example of a core with two platforms that has been rejuvenated by rotating it 90° (Clark Type B3).

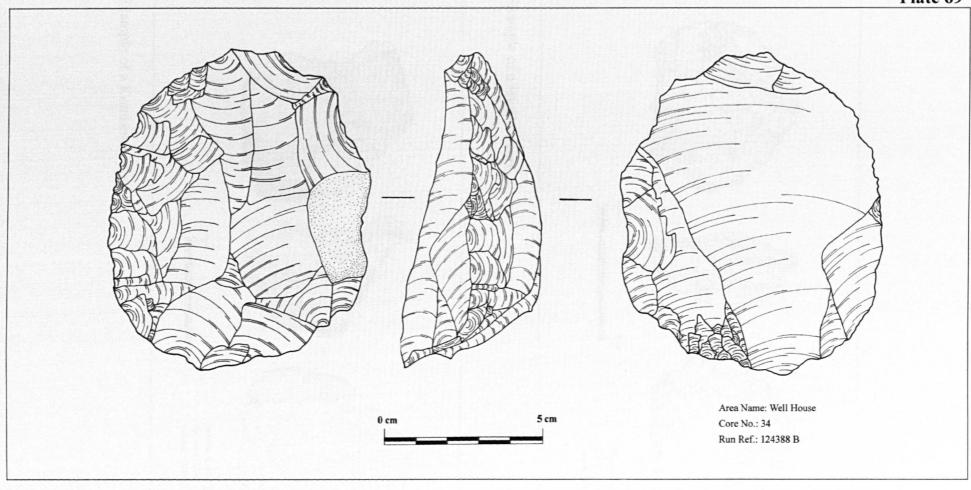


Example of a typical heavily worked multi-platform core with three platforms (Clark Type C).



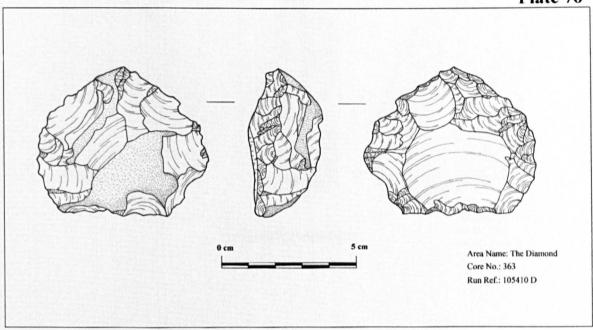
Examples of blade cores (Clark Type A1).

Plate 69

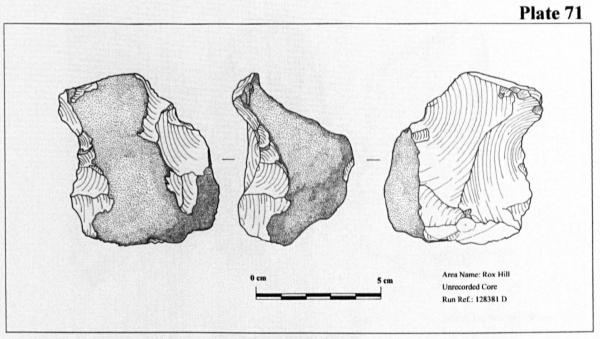


Example of a large well-worked levallois core.

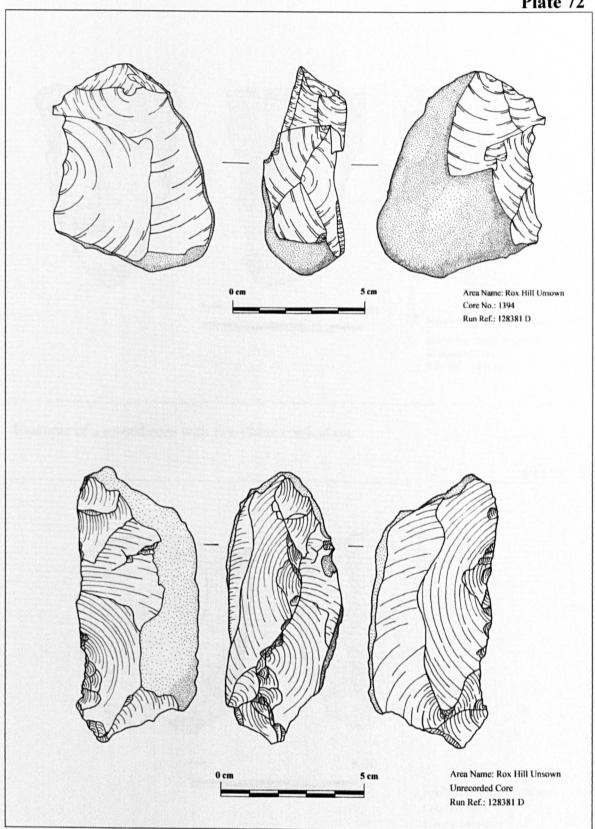
## Plate 70



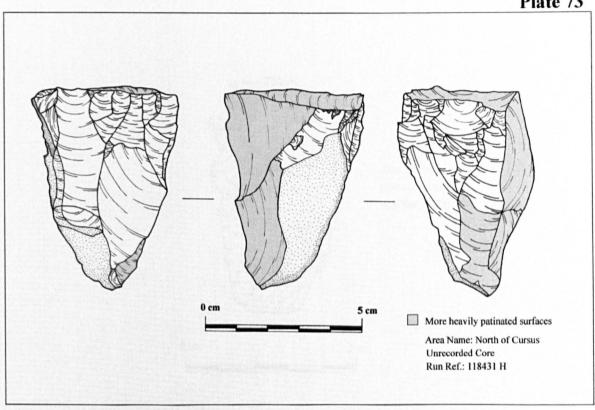
## Example of a levallois core.



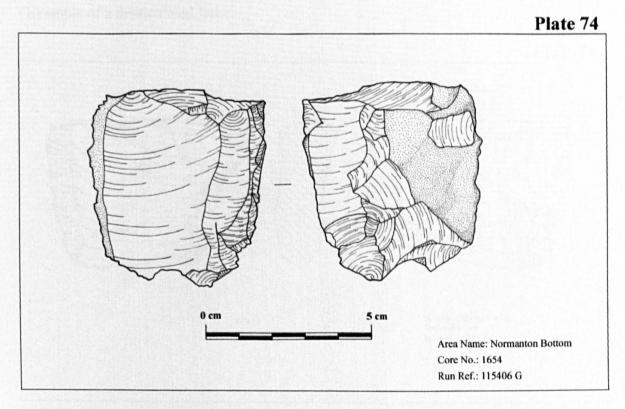
Example of a Kombewa core.



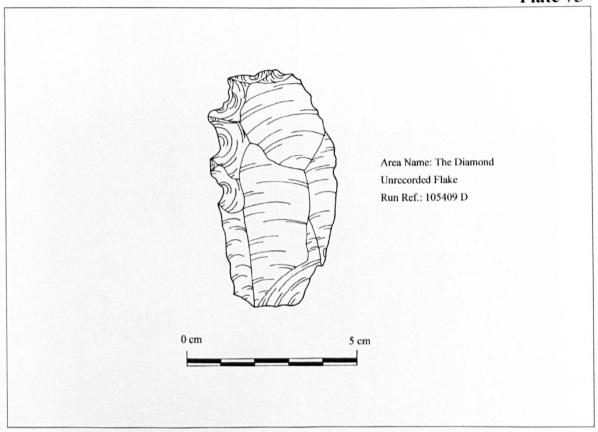
Examples of Kombewa cores.



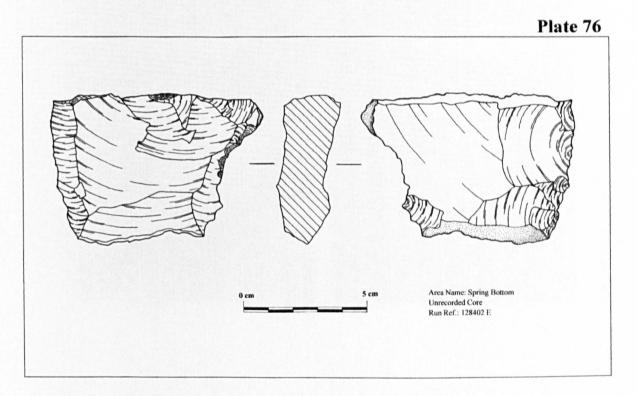
Example of a reused core with two phase cortication.



Example of a previously multi-platform core reworked into a single platform core (Clark Type A2).



Example of a denticulated flake.



Example of a bifacial tabular core.

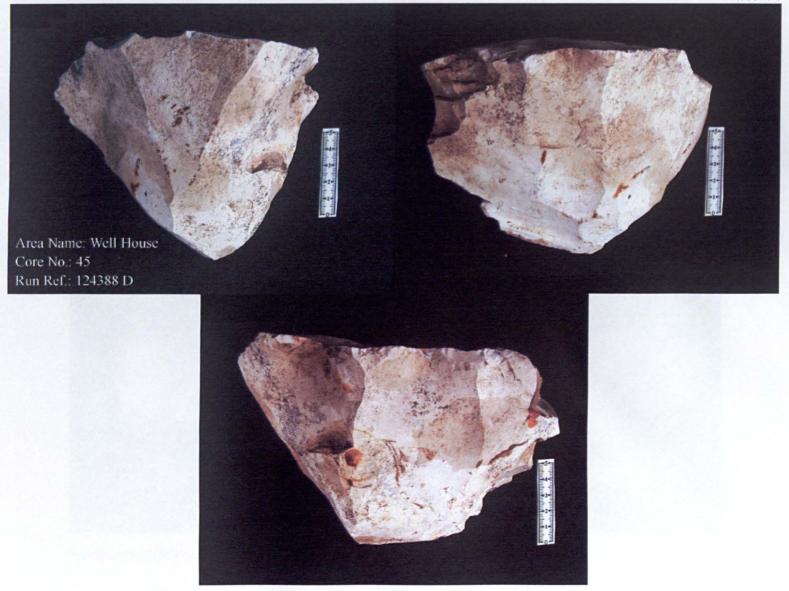
Plate 77





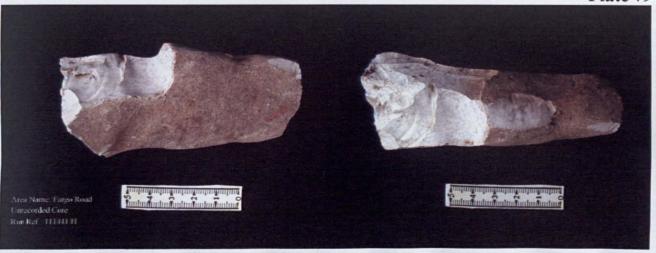
Examples of possible right angle rejuvenation flakes.

Plate 78



Large single platform core from Well House (83) (Clark Type A1).

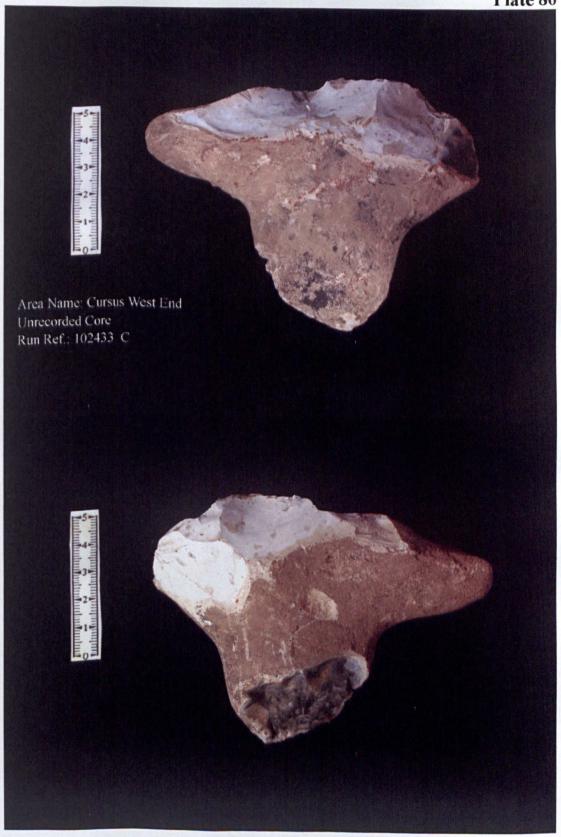
Plate 79





Small expedient cores worked with minimal preparation (Clark Type A2).





Example of an expedient core that also uses a keeled platform to minimise the need for platform preparation.

Plate 81



Example of a core with two platforms that has been rejuvenated by rotation through 90° (Clark Type B3).





Examples of typical multi-platform cores.

Plate 83





Examples of single platform blade cores (Clark Type A1).

Example of a single platform blade core (Clark Type A1).

Plate 85



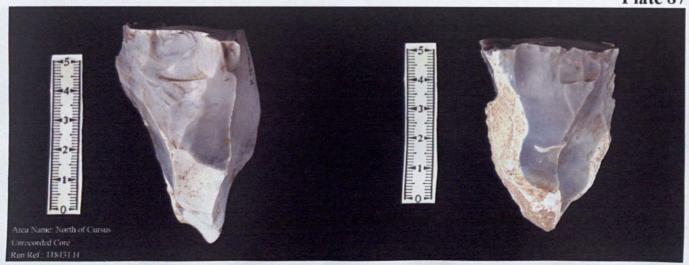
Examples of reused flakes showing two-phase cortication.





Example of a reused core exhibiting two-phase cortication.

Plate 87





Examples of reused cores exhibiting two-phase cortication.



Examples of levallois cores.



Example of a large well-worked levallois core from Well House (83).



Examples of Kombewa-style cores.

Plate 91



An example of an opposed platform blade core (Clark Type B1).

Example of a multi-platform core also used to produce blades.

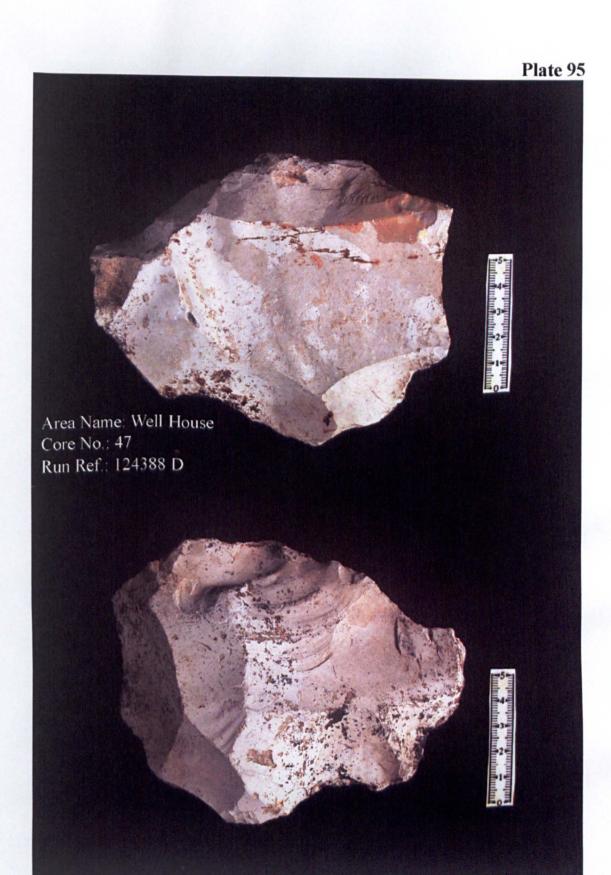
Plate 93



Example of a bladelet core of Clark Type A2.



Example of a tabular core (my core category 10).



Example of a bifacial tabular core (my core category 11).

## **Figures**

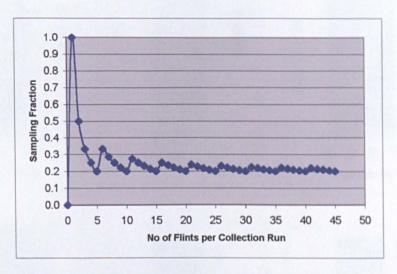


Fig. 3.1: The varying sample fraction in relation to the number of pieces of flint per collection run.

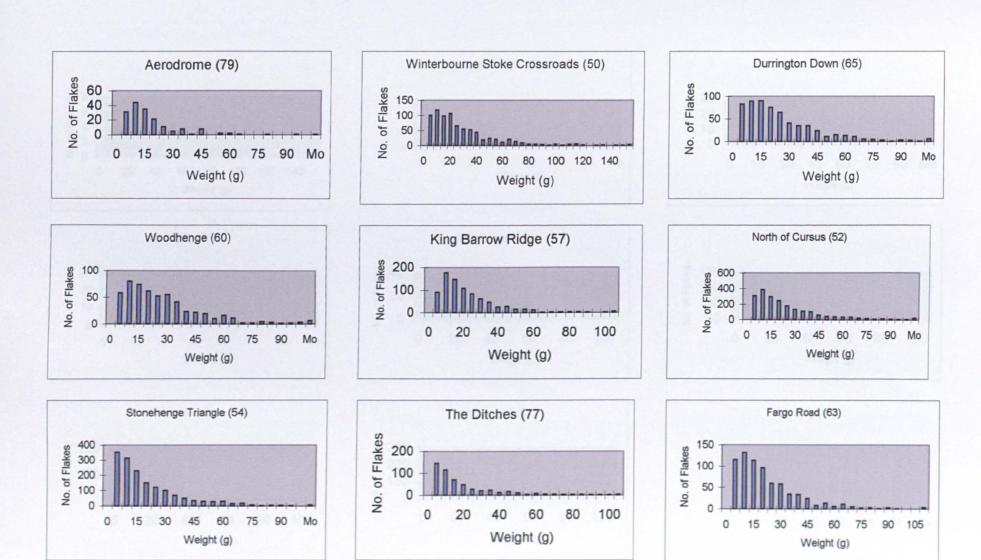


Fig. 4.1: The weights of flakes from sample areas.

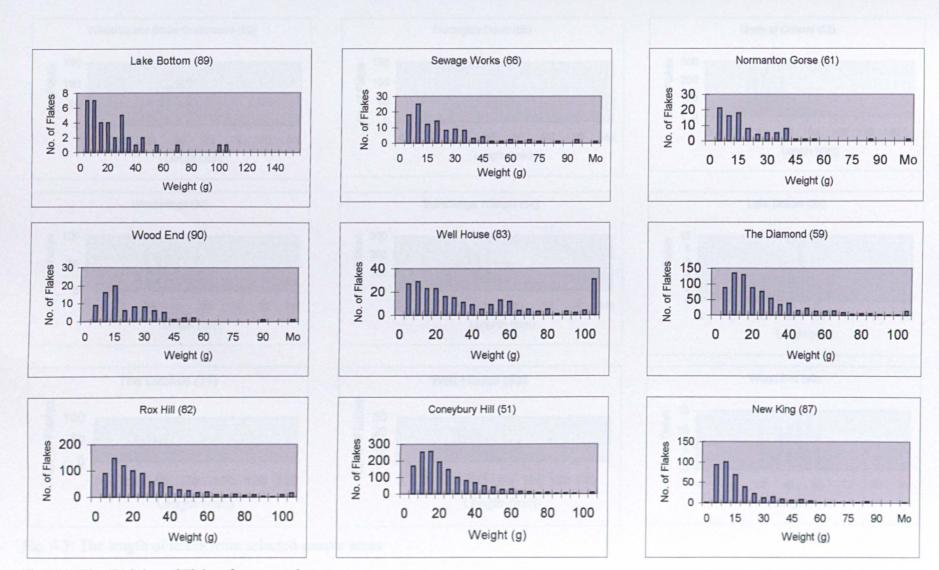


Fig. 4.2: The Weights of Flakes from sample areas.

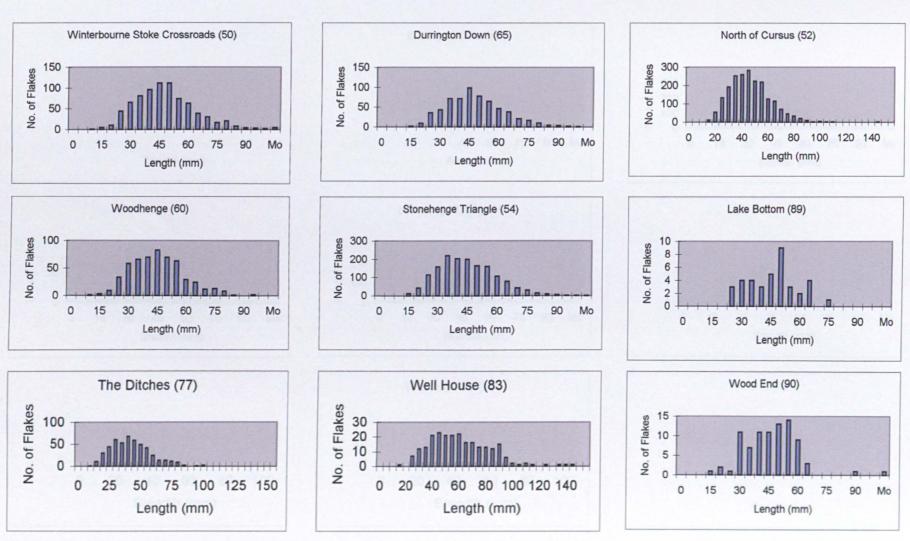


Fig. 4.3: The length of flakes from selected sample areas



Fig. 4.4: The breadths of flakes from selected sample areas.

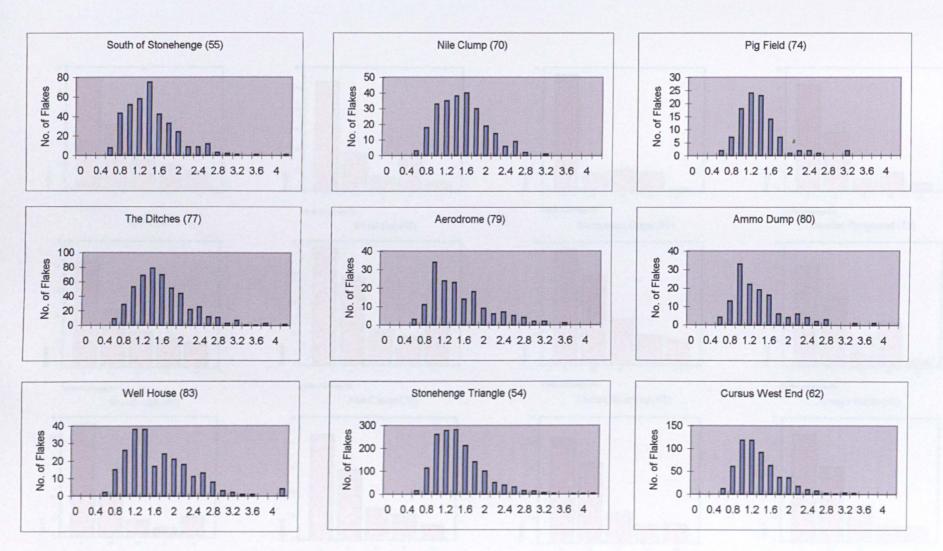


Fig. 4.5: The length:breadth ratios of flakes from selected sample areas.

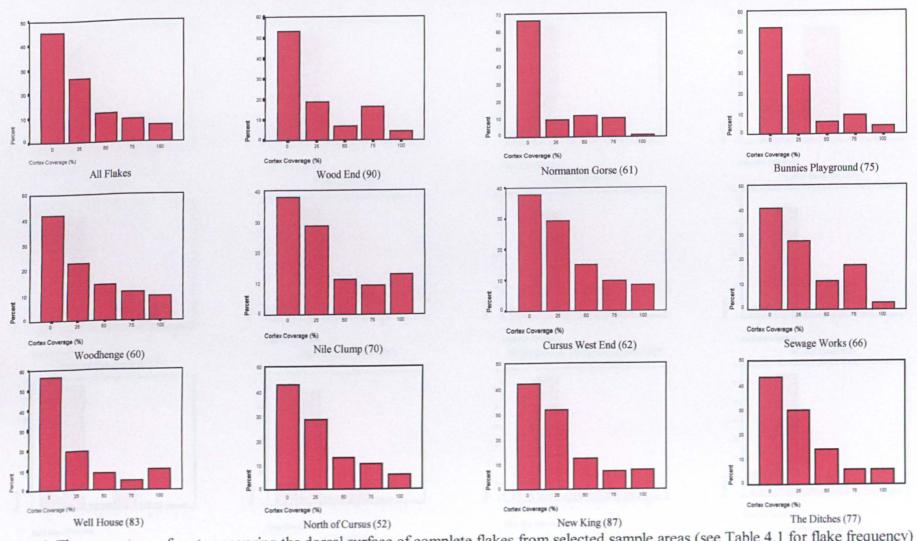


Fig. 4.6: The percentage of cortex covering the dorsal surface of complete flakes from selected sample areas (see Table 4.1 for flake frequency)

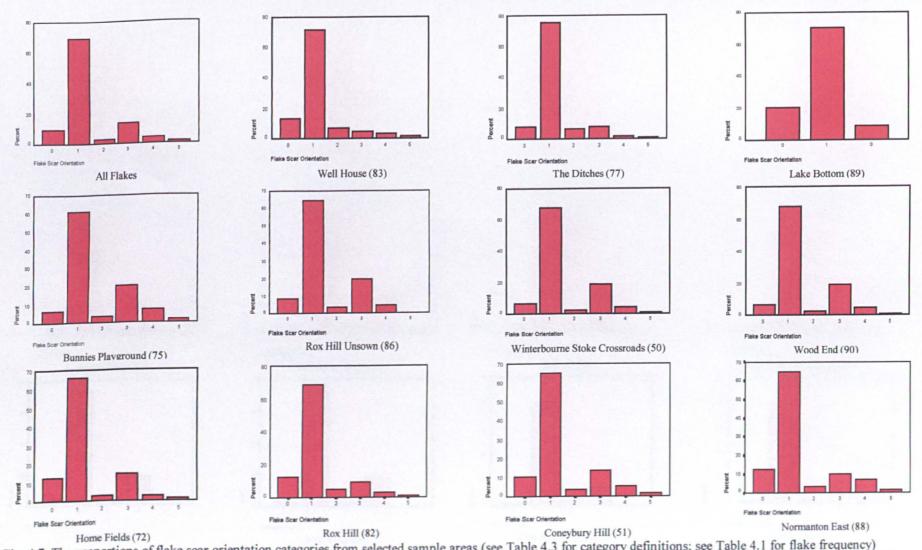


Fig. 4.7: The proportions of flake scar orientation categories from selected sample areas (see Table 4.3 for category definitions; see Table 4.1 for flake frequency)

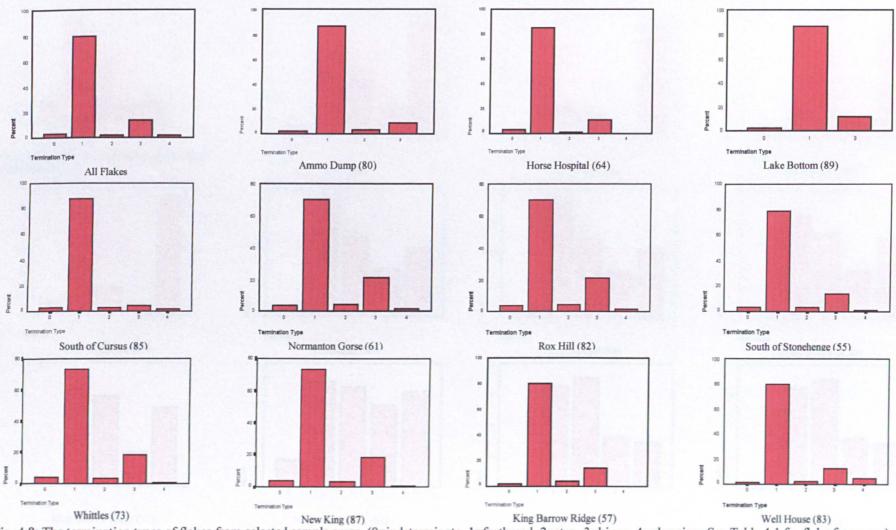


Fig. 4.8: The termination types of flakes from selected sample areas. (0=indeterminate, 1=feathered, 2=step, 3=hinge, 4=plunging; See Table 4.1 for flake frequency)

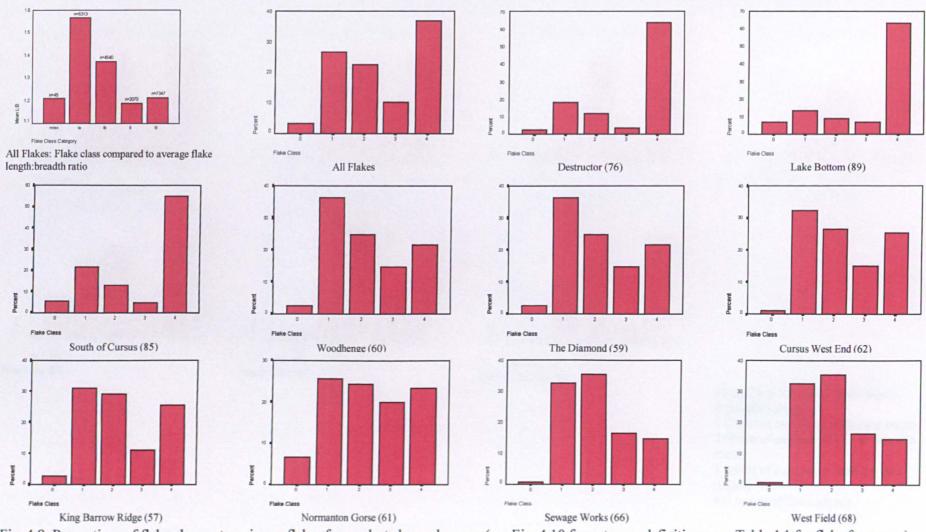


Fig. 4.9: Proportions of flake class categories on flakes from selected sample areas (see Fig. 4.10 for category definitions; see Table 4.1 for flake frequency)

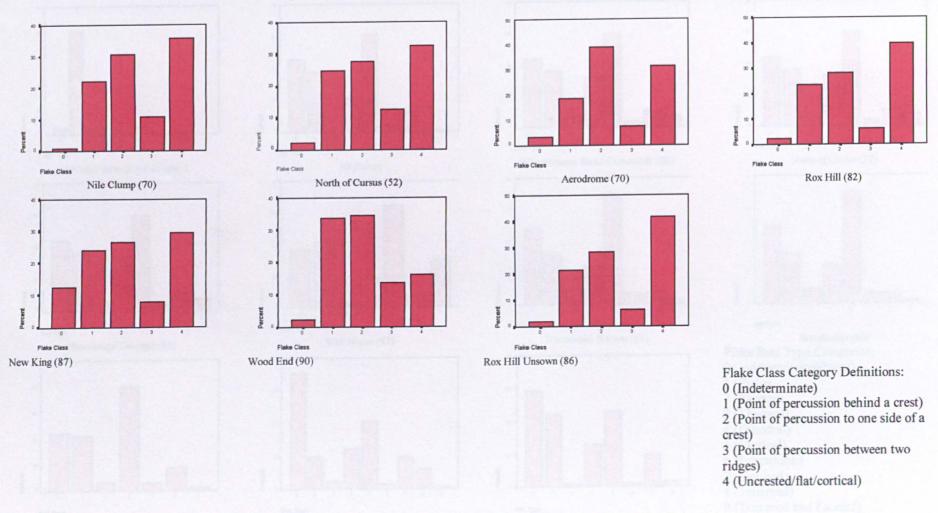


Fig. 4.10: Proportions of flake class categories on flakes from selected sample areas (see Table 4.1 for flake frequency)

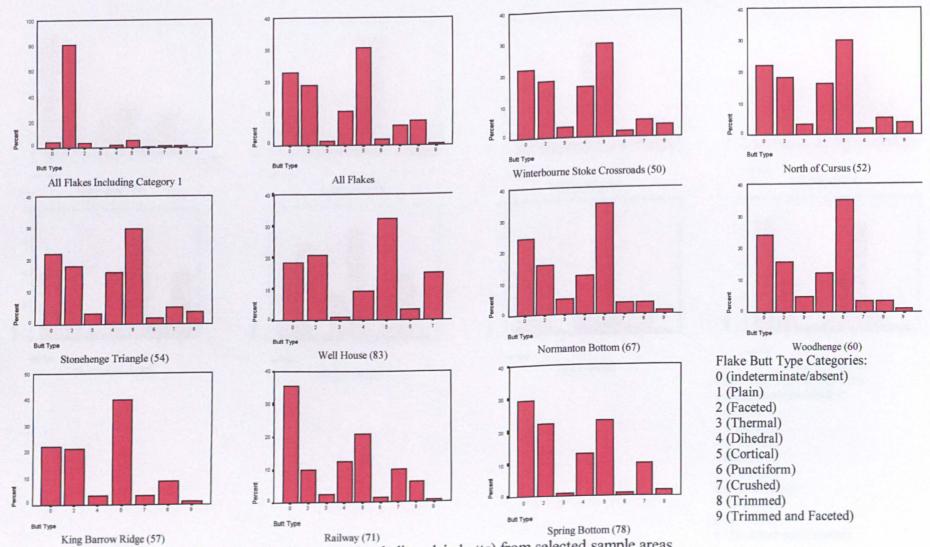


Fig. 4.11: The proportions of different flake butt types (excluding plain butts) from selected sample areas

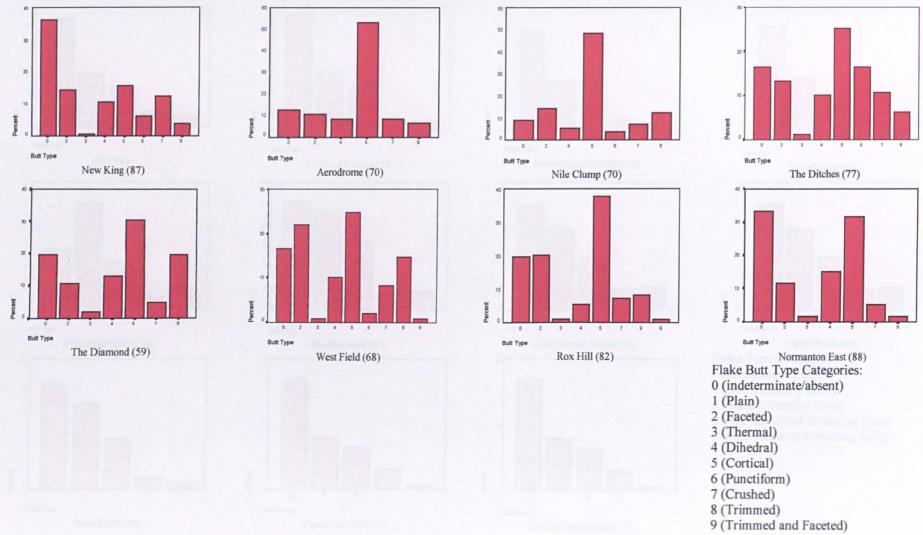


Fig. 4.12: The proportions of different butt types (excluding plain butts) from selected sample areas

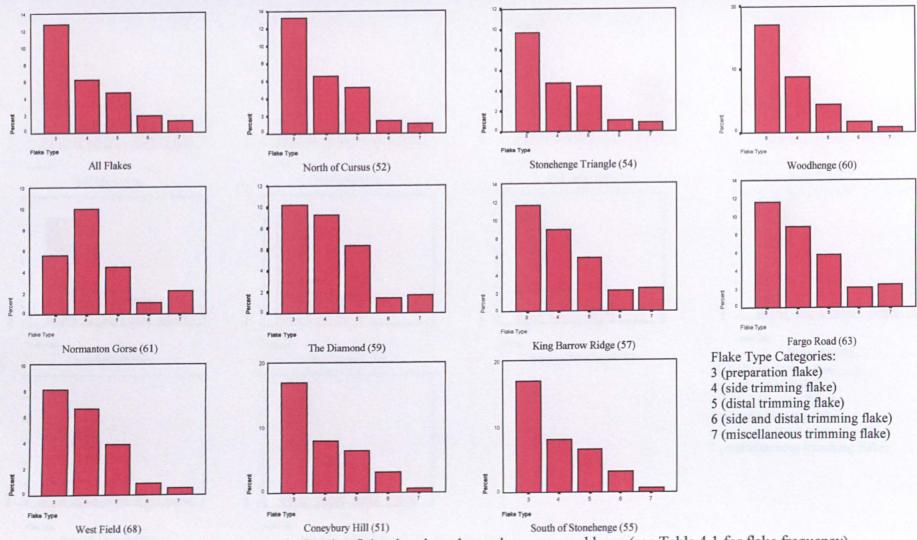


Fig. 4.13: The proportions of preparation and trimming flakes in selected sample area assemblages (see Table 4.1 for flake frequency)

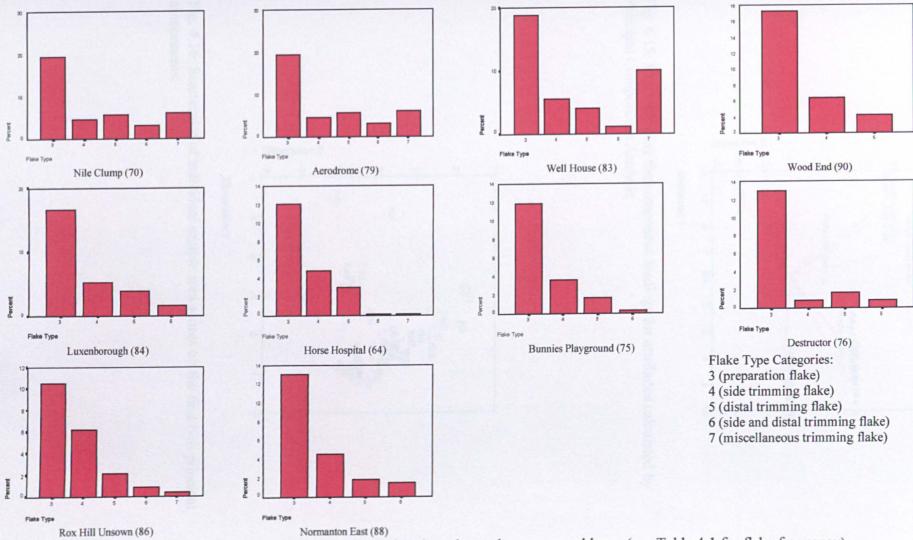


Fig. 4.14: The proportions of preparation and trimming flakes in selected sample area assemblages (see Table 4.1 for flake frequency)

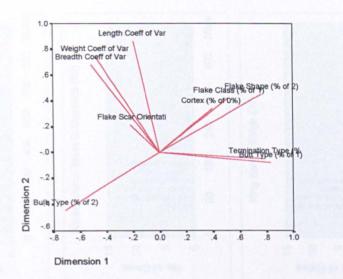


Fig. 4.15: Plot indicating the component loadings for attributes calculated by Principal Components Analysis.

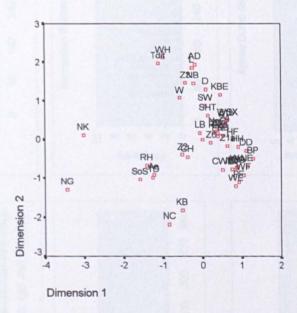


Fig. 4.16: Scatterplot of individual sample area scores on the first two principal components.

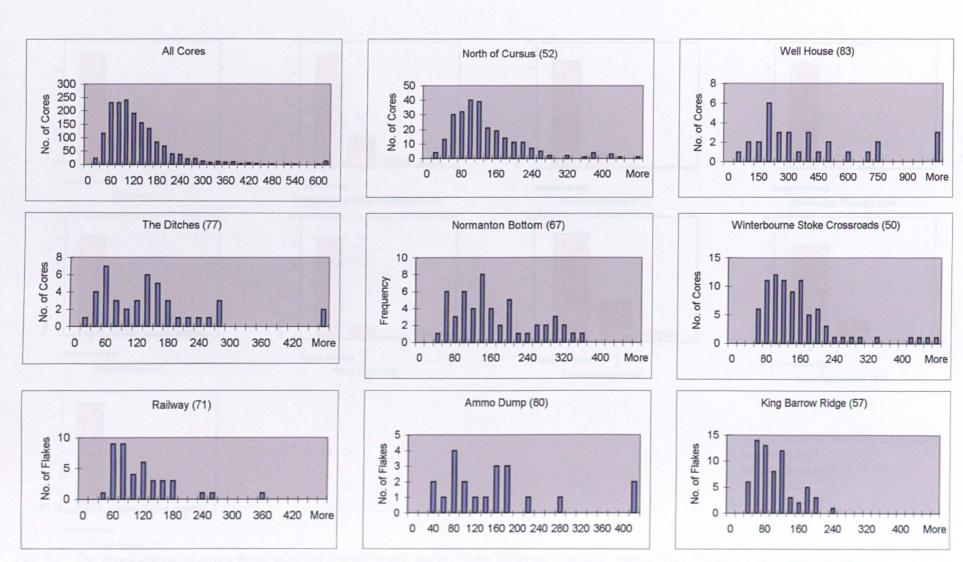


Fig. 5.1: The weights of cores (in grammes) from selected sample areas

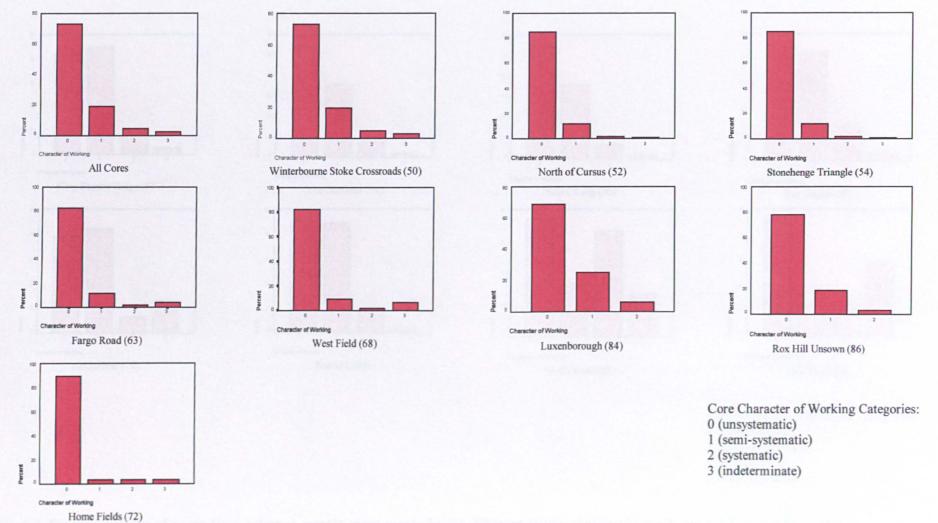


Fig. 5.2: The proportions of cores from selected sample areas worked with different levels of control (see Table 5.1 for core frequency).

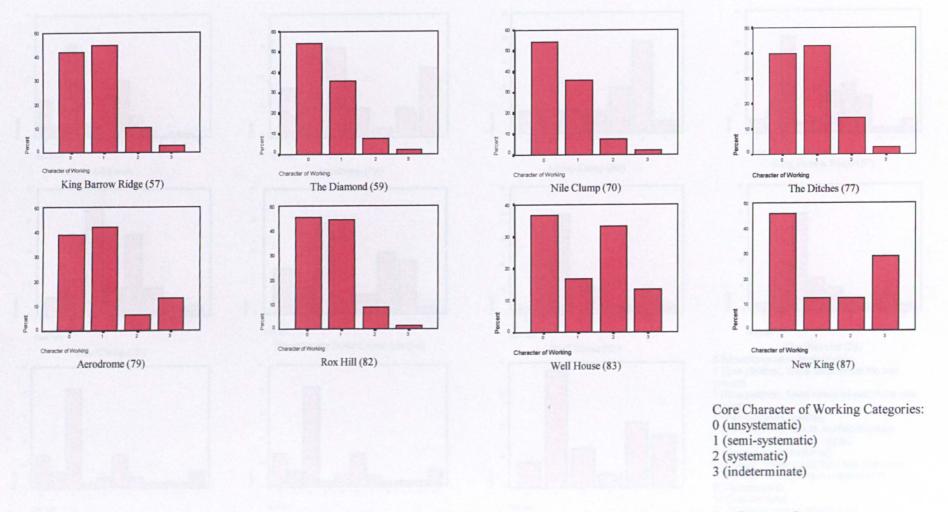


Fig. 5.3 The proportions of cores from selected sample areas worked with different levels of control (see Table 5.1 for core frequency).

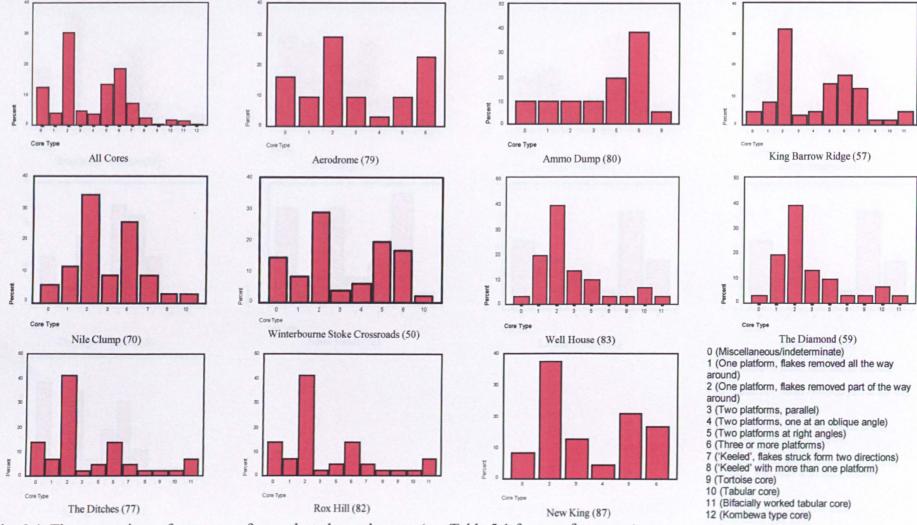


Fig. 5.4: The proportions of core types from selected sample areas (see Table 5.1 for core frequency)

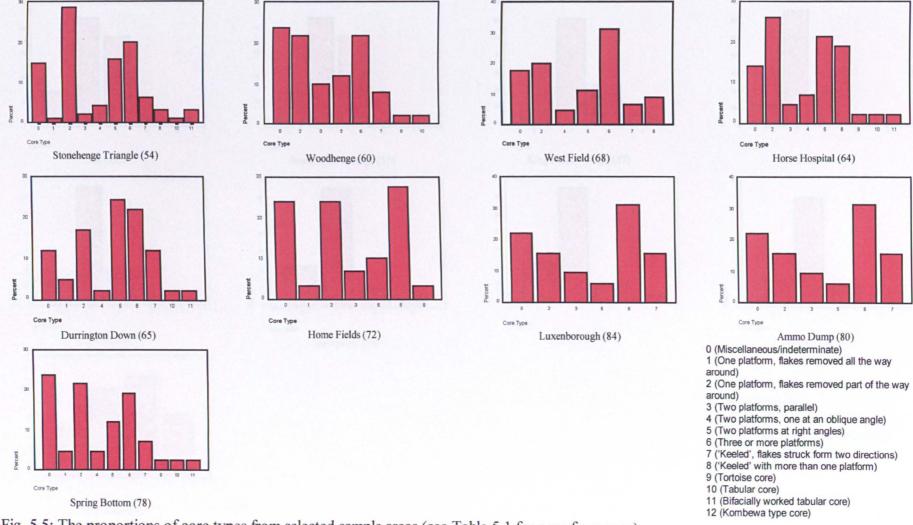


Fig. 5.5: The proportions of core types from selected sample areas (see Table 5.1 for core frequency)

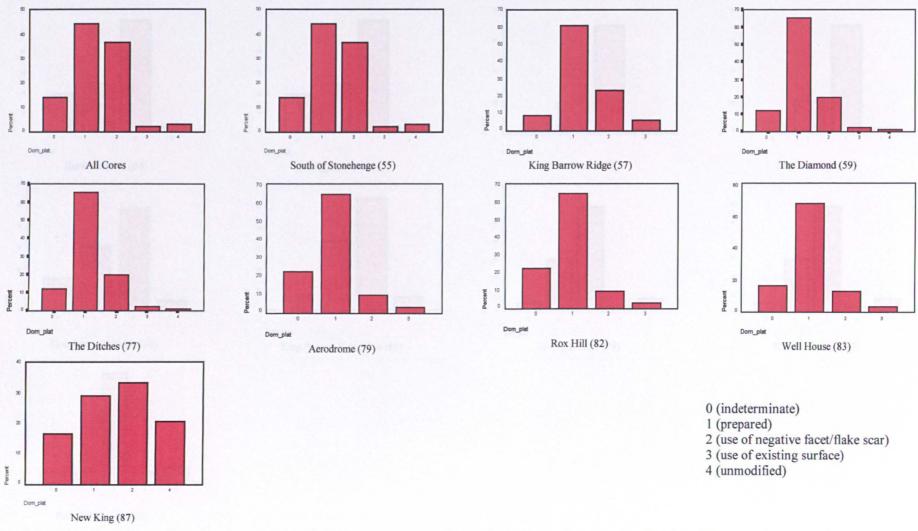


Fig. 5.6: The proportions of the dominant types of platforms on cores from selected sample areas (see Table 5.1 for core frequency)

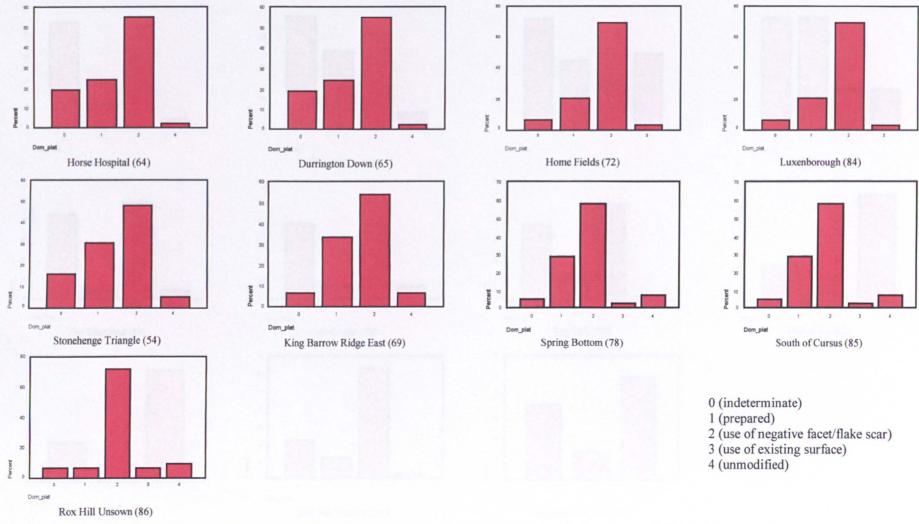


Fig. 5.7: The proportions of the dominant types of platforms on cores from selected sample areas (see Table 5.1 for core frequency)

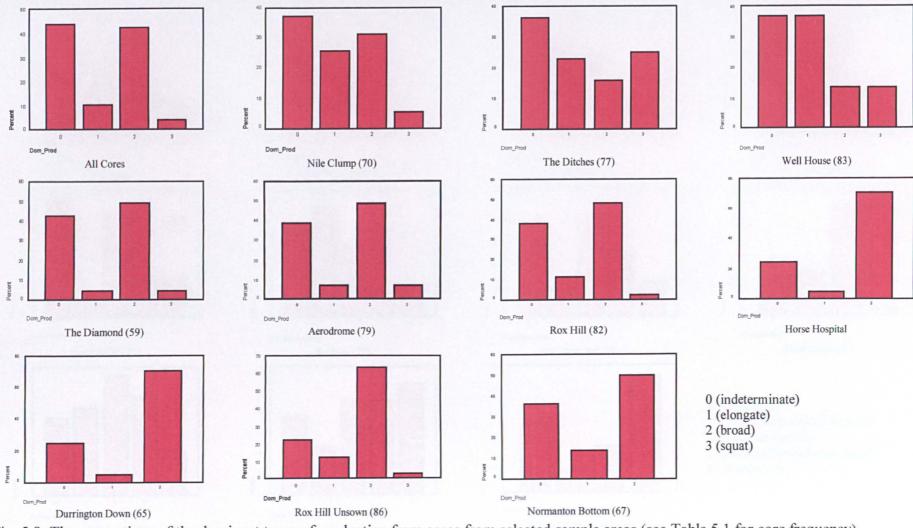


Fig. 5.8: The proportions of the dominant types of production from cores from selected sample areas (see Table 5.1 for core frequency)

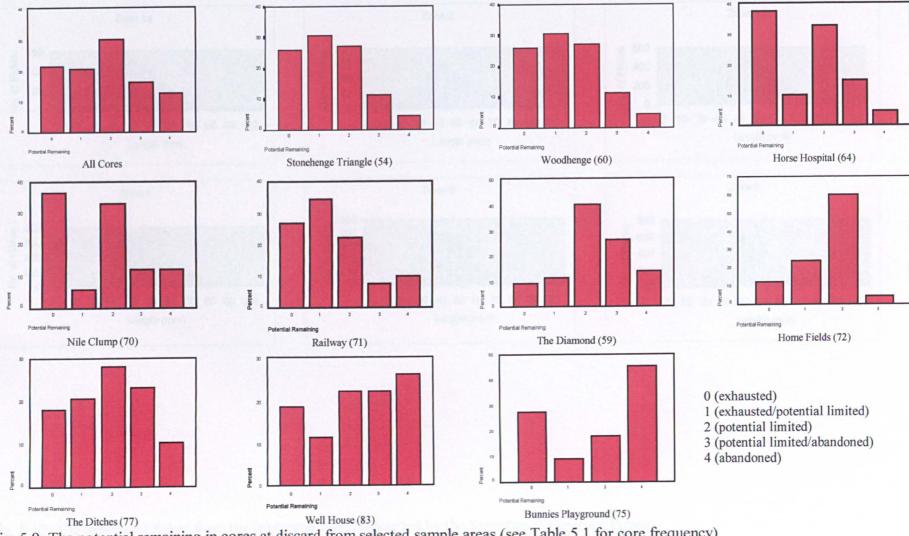


Fig. 5.9: The potential remaining in cores at discard from selected sample areas (see Table 5.1 for core frequency)

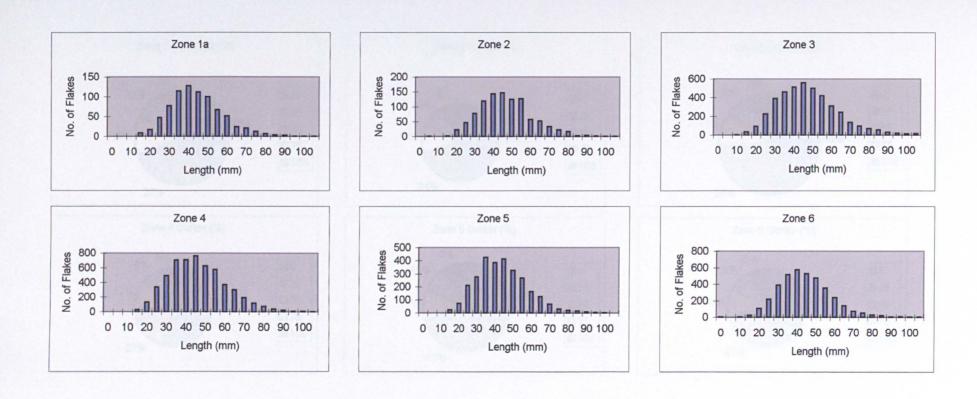


Fig. 5.10: The lengths of flakes from the landscape zones suggested by the Stonehenge Environs Project



Fig. 5.11: The percentage of cortex on flakes from the landscape zones suggested by the Stonehenge Environs Project

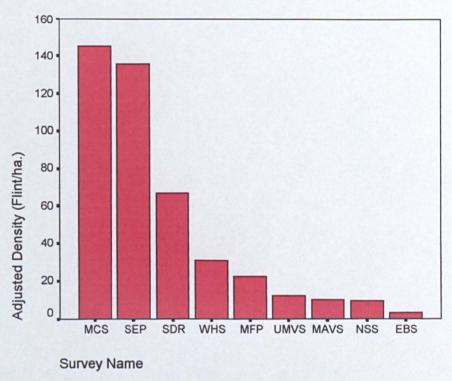


Fig. 7.1: The adjusted amount of flint per hectare collected by field survey projects in southern Britain (MCS= Maiden Castle Survey, SEP= Stonehenge Environs Project, SDR= South Dorset Ridgeway Survey, WHS= Windmill Hill Survey, MFP= Maddle Farm Project, UMVS= Upper Meon Valley Survey, MAVS= Middle Avon Valley Survey, NSS= North Stoke Survey, EBS= East Berkshire Survey).