

# Data chapter

Ewan Pinnington

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## 1 Introduction

## 2 Alice Holt research site

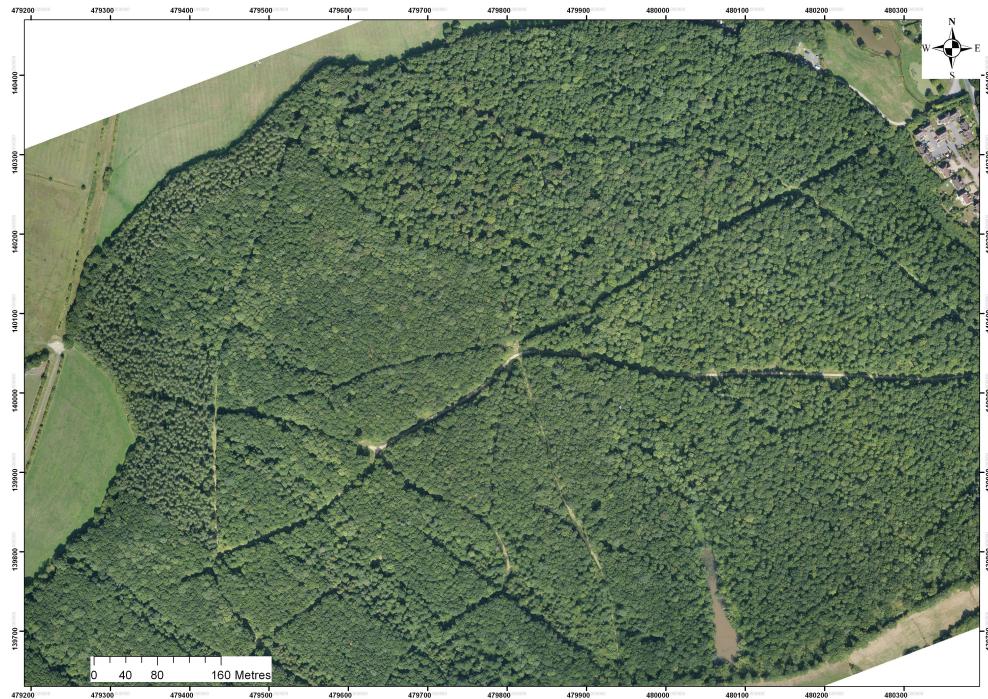


Figure 1: Alice Holt forest site in 2013.

## 3 Establishment of sampling points

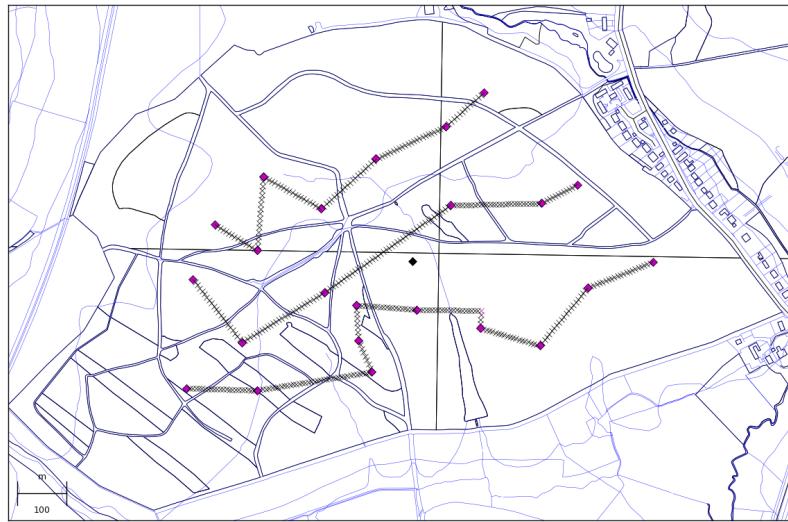


Figure 2: Sampling transects. Black crosses: sampling points at 10m intervals, pink diamonds: Forest Research mensuration plots, black diamond: Forest Research flux tower.



Figure 3: Sampling point 291, showing how fluorescent spray paint used to mark sampling points.

## 4 Leaf area index observations

### 4.1 Ceptometer

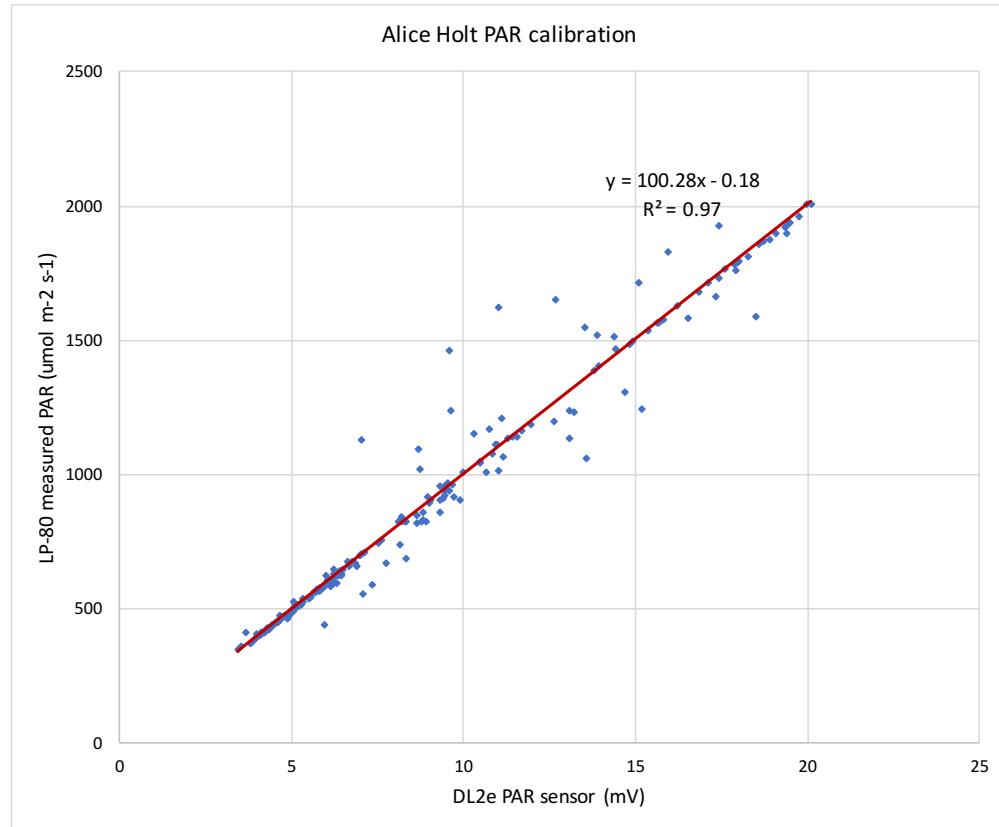


Figure 4: Calibration of above canopy PAR sensor (measuring in mV) with LP-80 ceptometer measured PAR ( $\mu\text{mol m}^{-2} \text{s}^{-1}$ ).

### 4.2 Hemispherical photographs

### 4.3 Litter traps

### 4.4 Comparison of methods

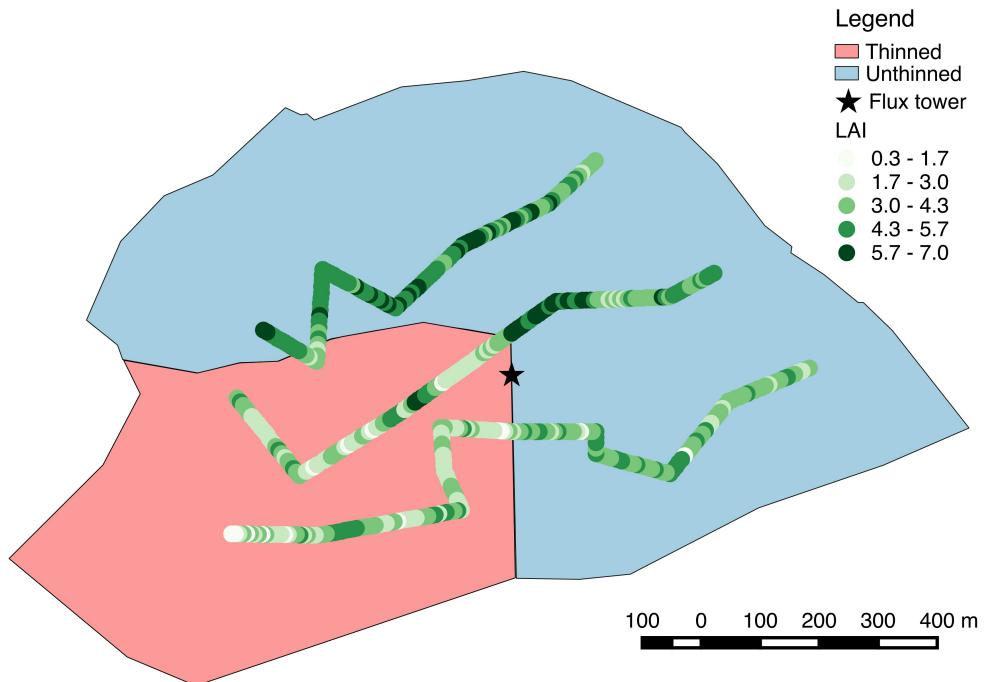


Figure 5: Ceptometer derived LAI for Alice Holt.

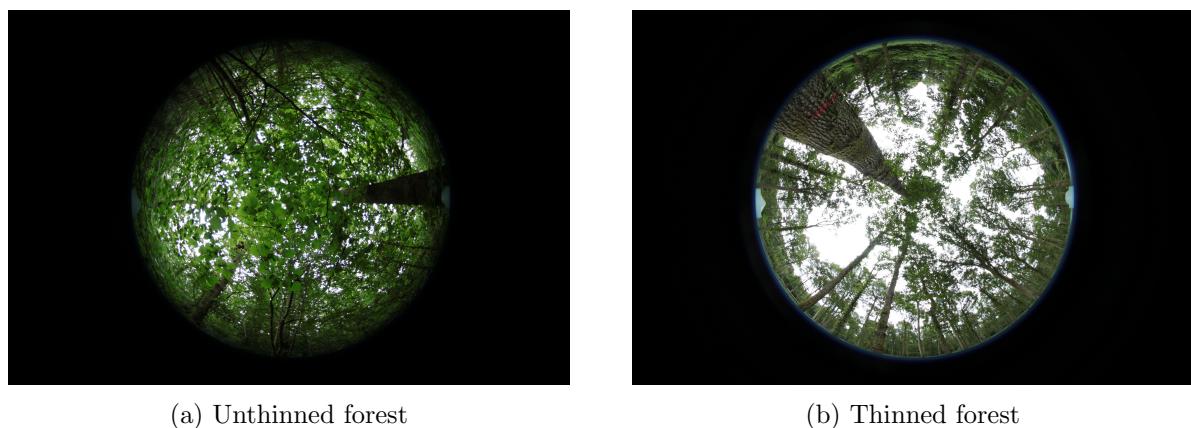


Figure 6: Hemispherical photographs from the Alice Holt flux site showing the difference between the thinned and unthinned sides of the forest.

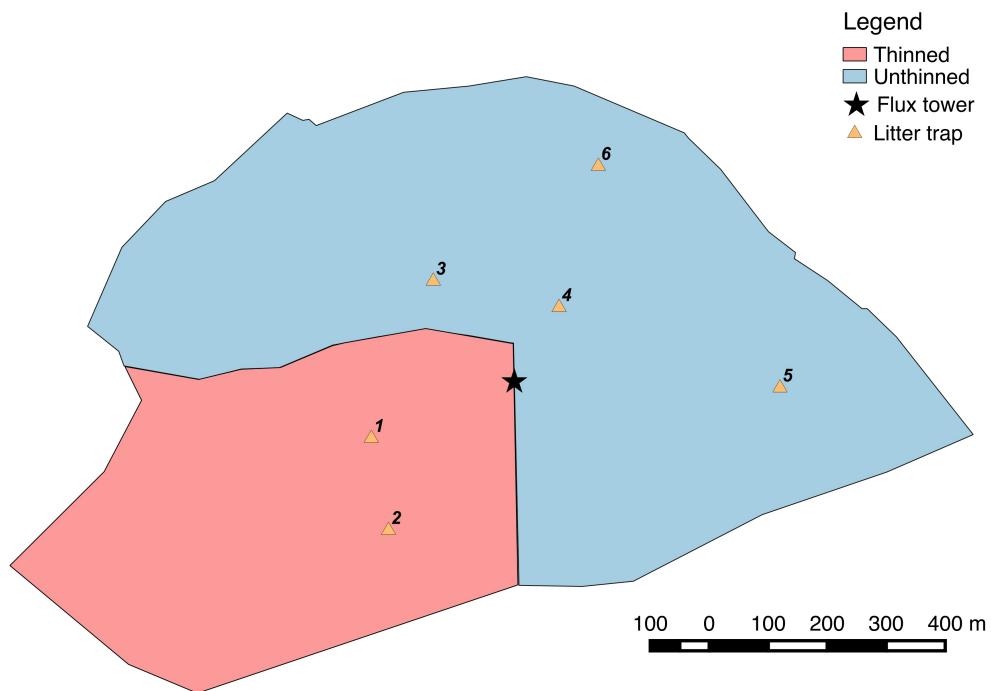


Figure 7: Litter trap locations for Alice Holt.

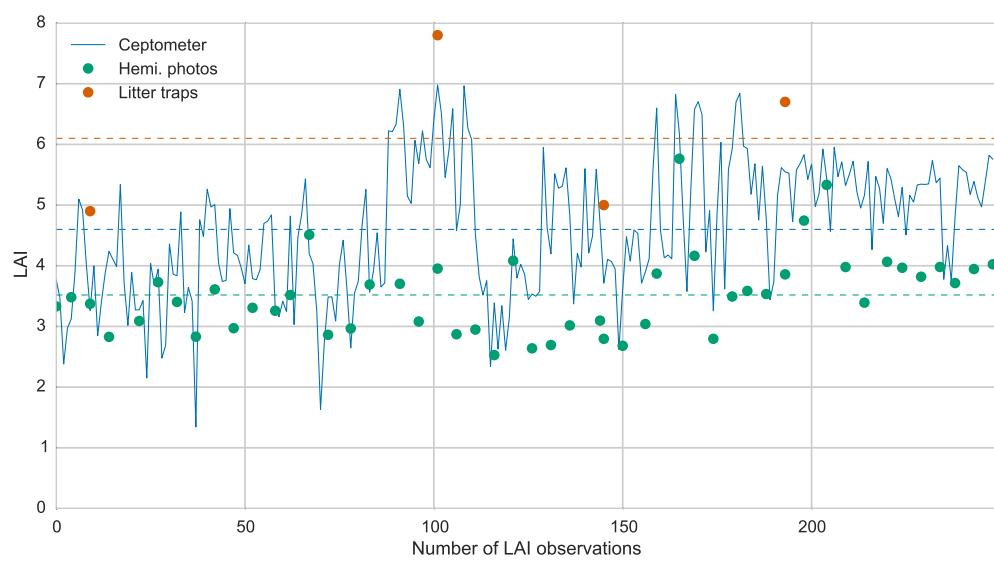


Figure 8: LAI comparison for unthinned forest.

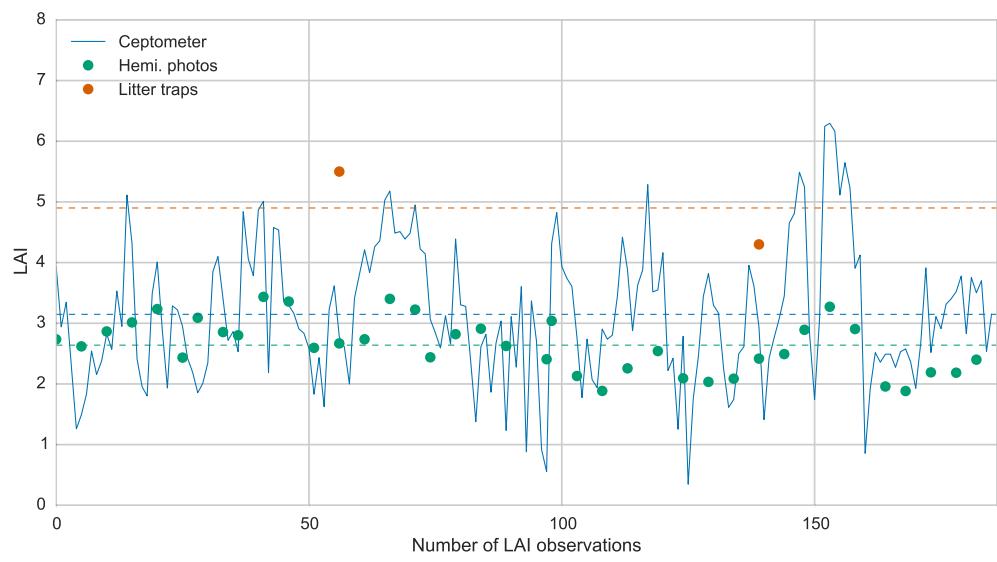


Figure 9: LAI comparison for thinned forest.

## 5 Point-centred quarter observations



Figure 10: Taking diameter at breast height measurements at Alice Holt.

## 6 Flux tower observations and data processing



Figure 11: At the top of the Alice Holt flux tower.