

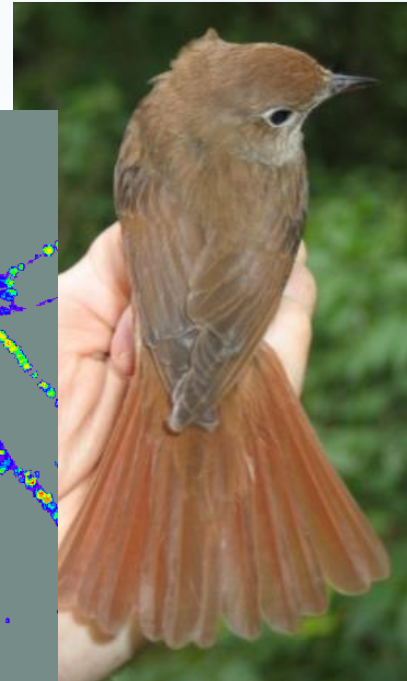
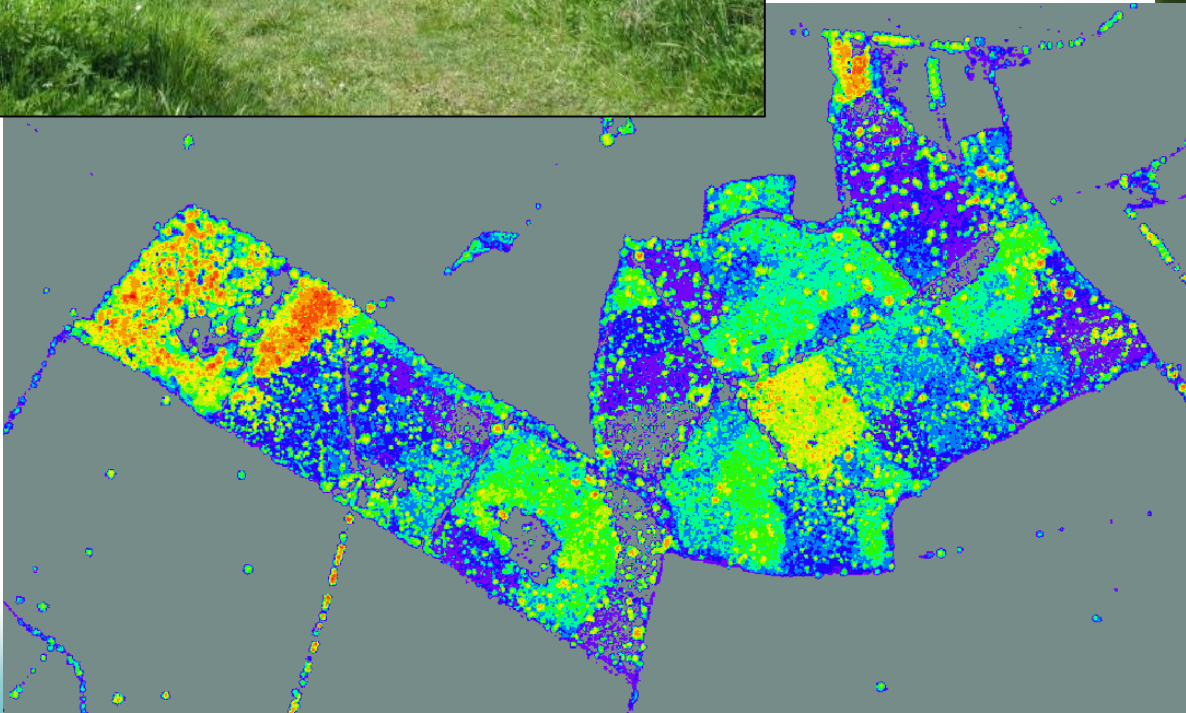


Birds & Forest Structure

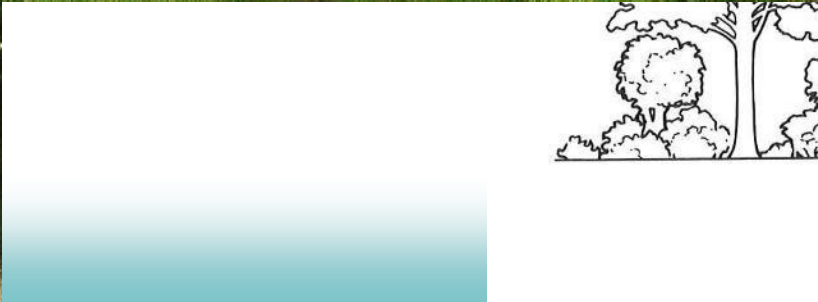
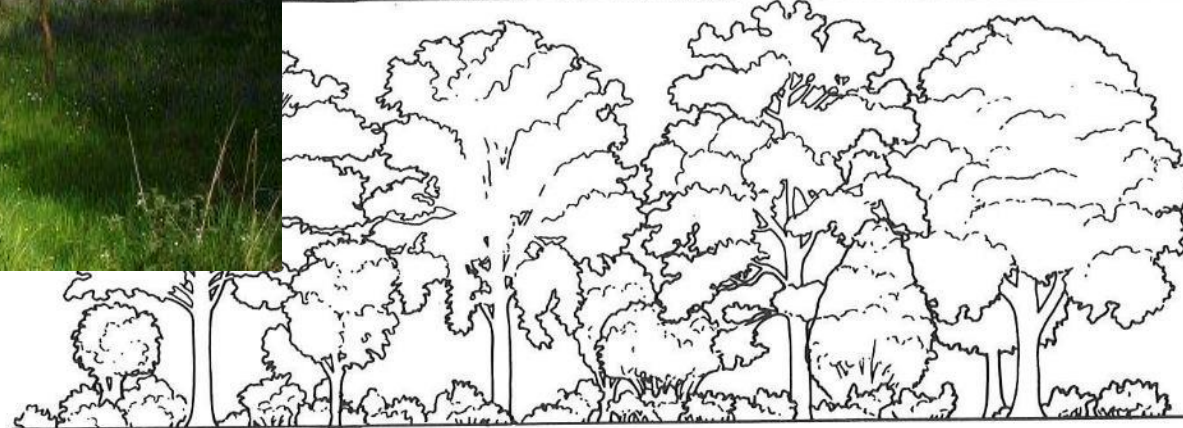
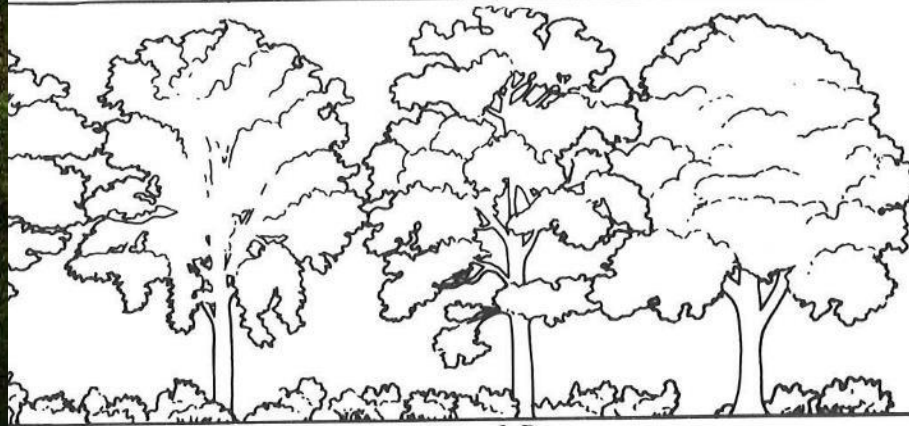
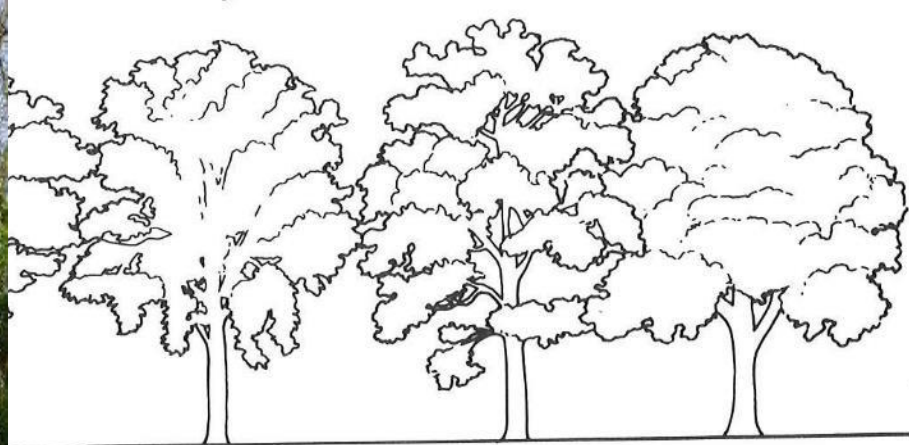
Shelley A. Hinsley (CEH)

sahi@ceh.ac.uk

Robert J. Fuller (BTO)



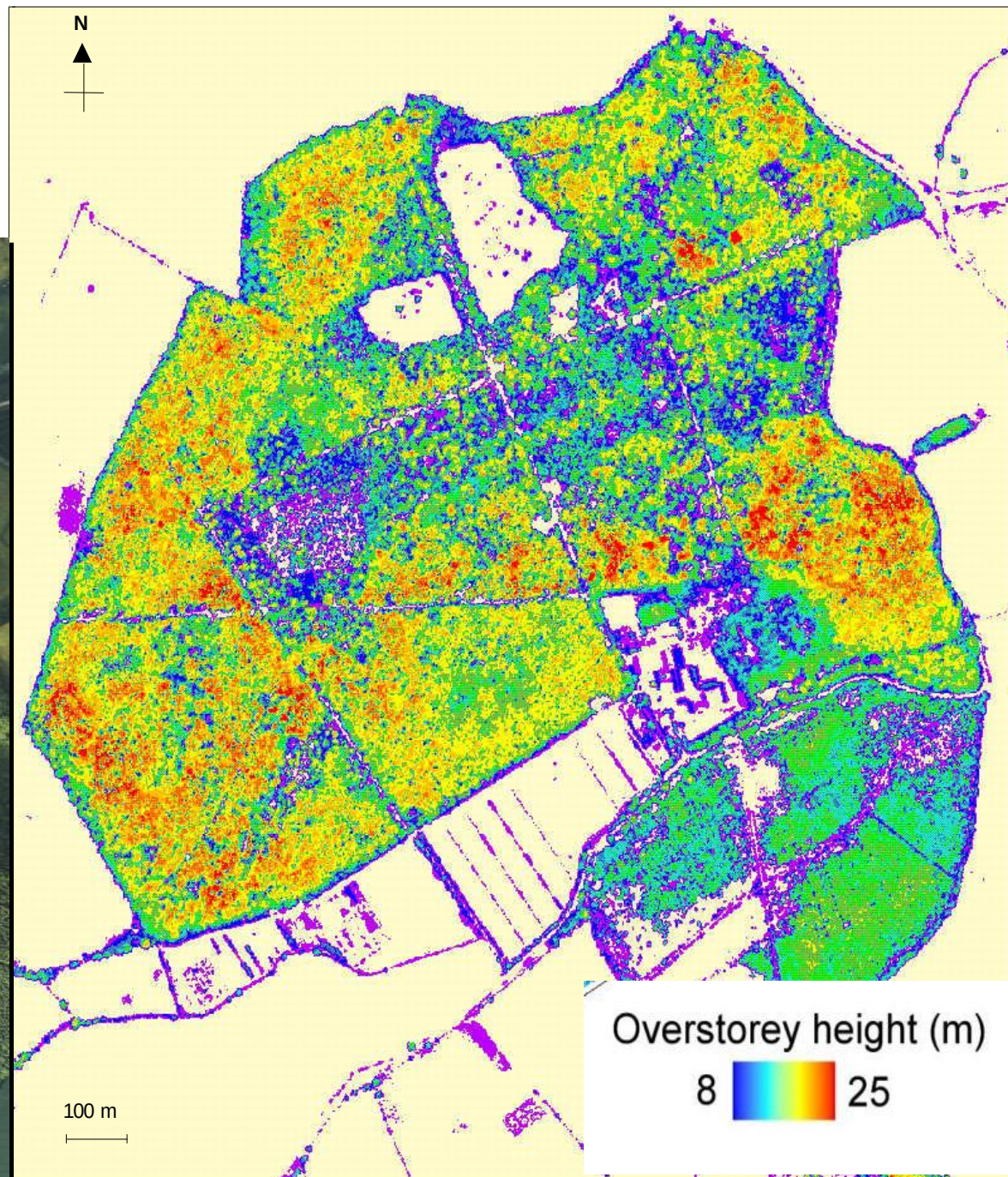








Monks Wood NNR











R.K. Broughton





Dense low cover

Good shrub layer

Open woodland

Mature trees

etc...

Wren

Blackbird

Redstart

Tits

Dunnock

Song Thrush

Wood warbler

Woodpeckers

Nightingale

Chaffinch

Robin

Treecreepers

Whitethroat

Bullfinch

Blackbird

Owls

Garden Warbler

Marsh Tit

Pied Flycatcher

Other raptors

Blackcap

Long-tailed Tit

Spotted Flycatcher

Nuthatch

Willow Warbler

Nightingale

Tree Pipit

Starling

Chiffchaff

Blackcap

Stock Dove

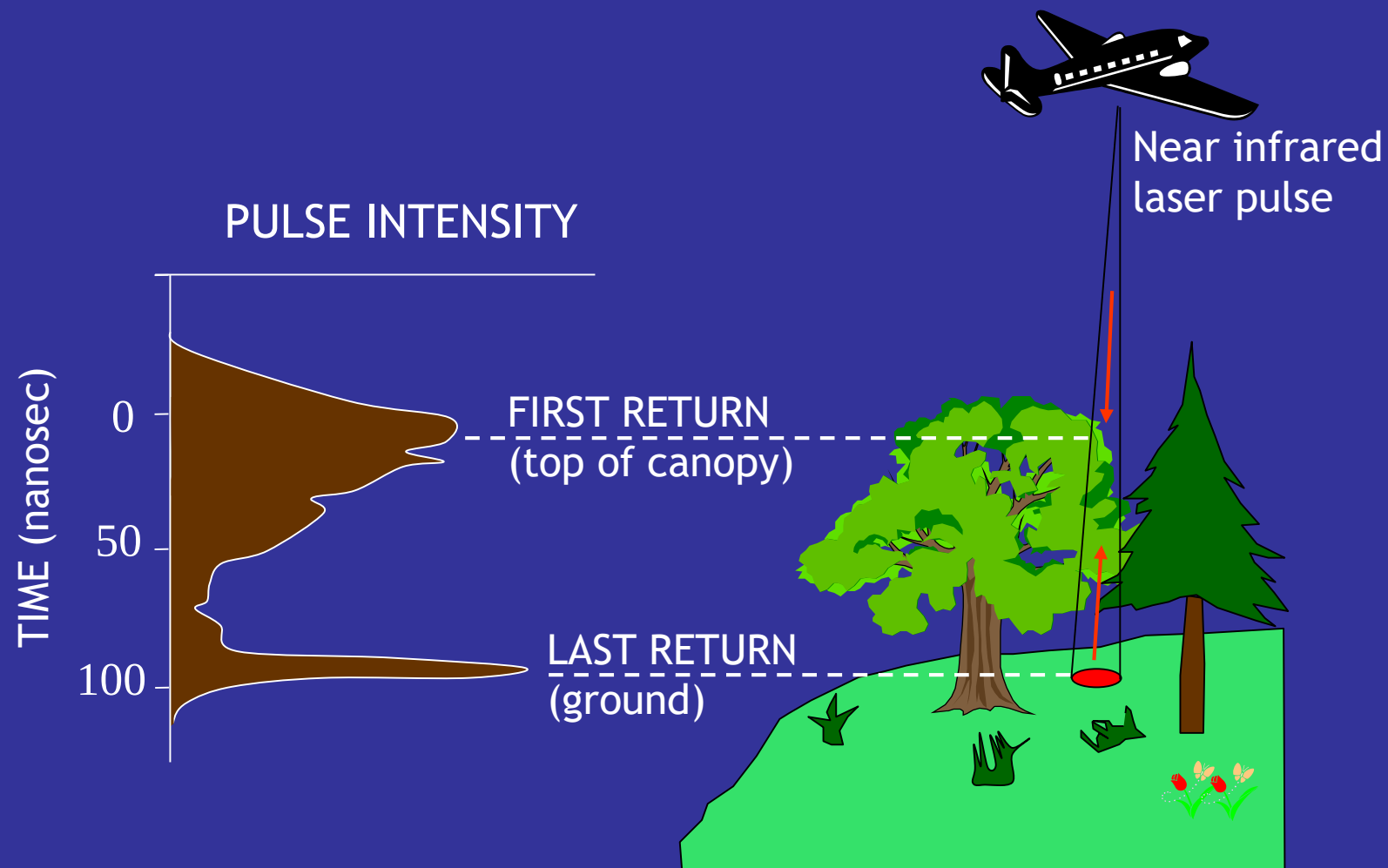


SH



BF

Schematic ALS return pulse waveform



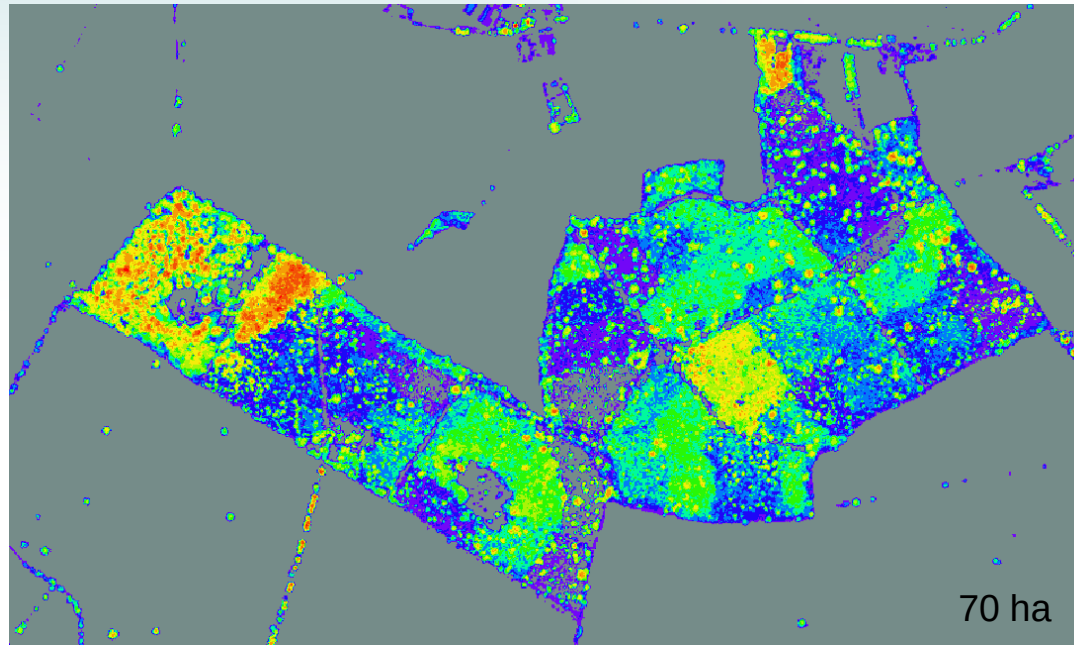
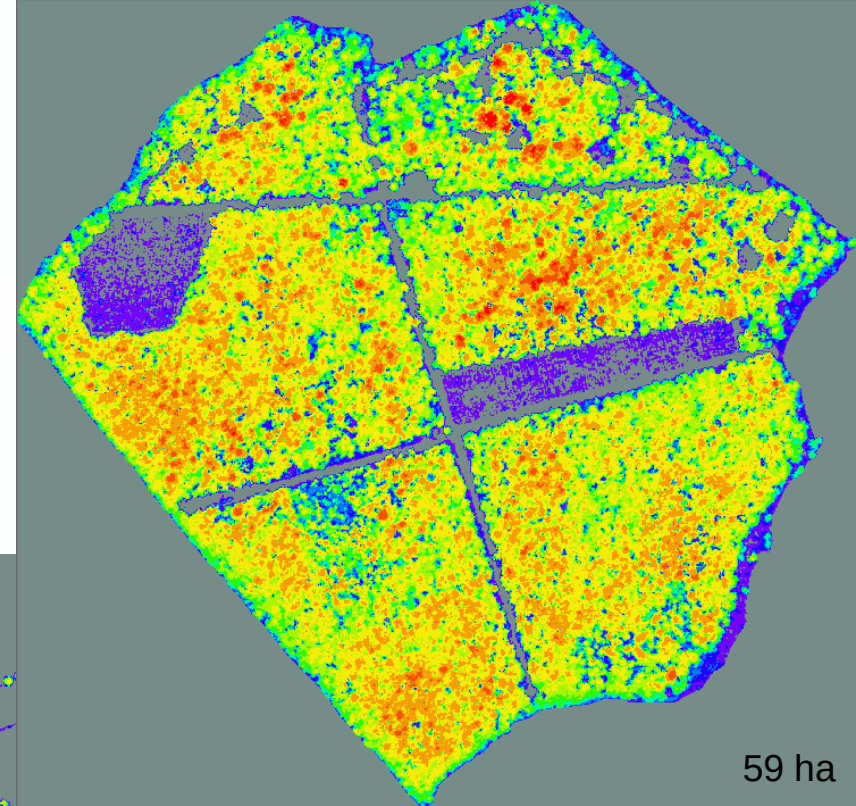
MONKS WOOD



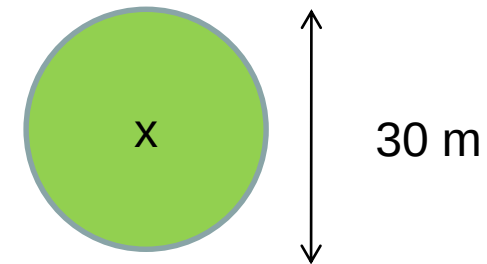
**Centre for
Ecology & Hydrology**

NATURAL ENVIRONMENT RESEARCH COUNCIL

Sheephouse Wood, Bucks



Bradfield Woods, Suffolk



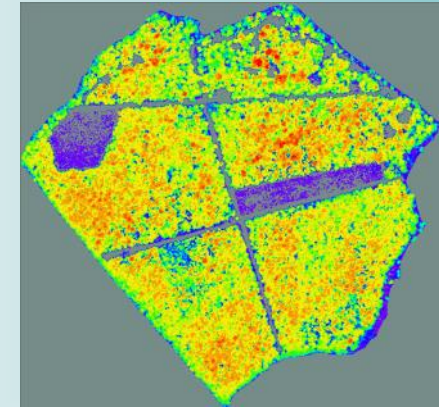
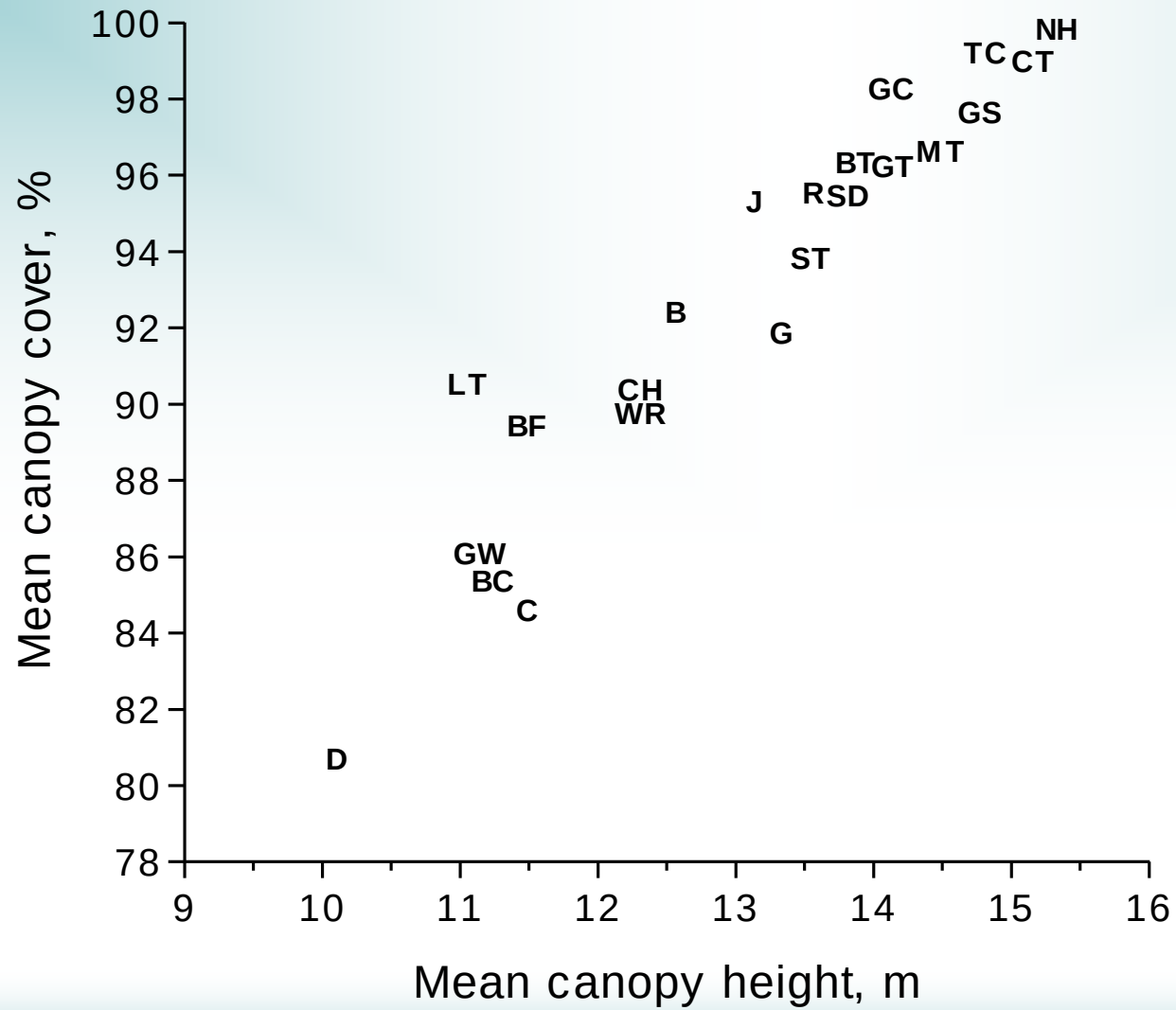
Data acquired by NERC ARSF



**Centre for
Ecology & Hydrology**
NATURAL ENVIRONMENT RESEARCH COUNCIL



a) Sheephouse Wood

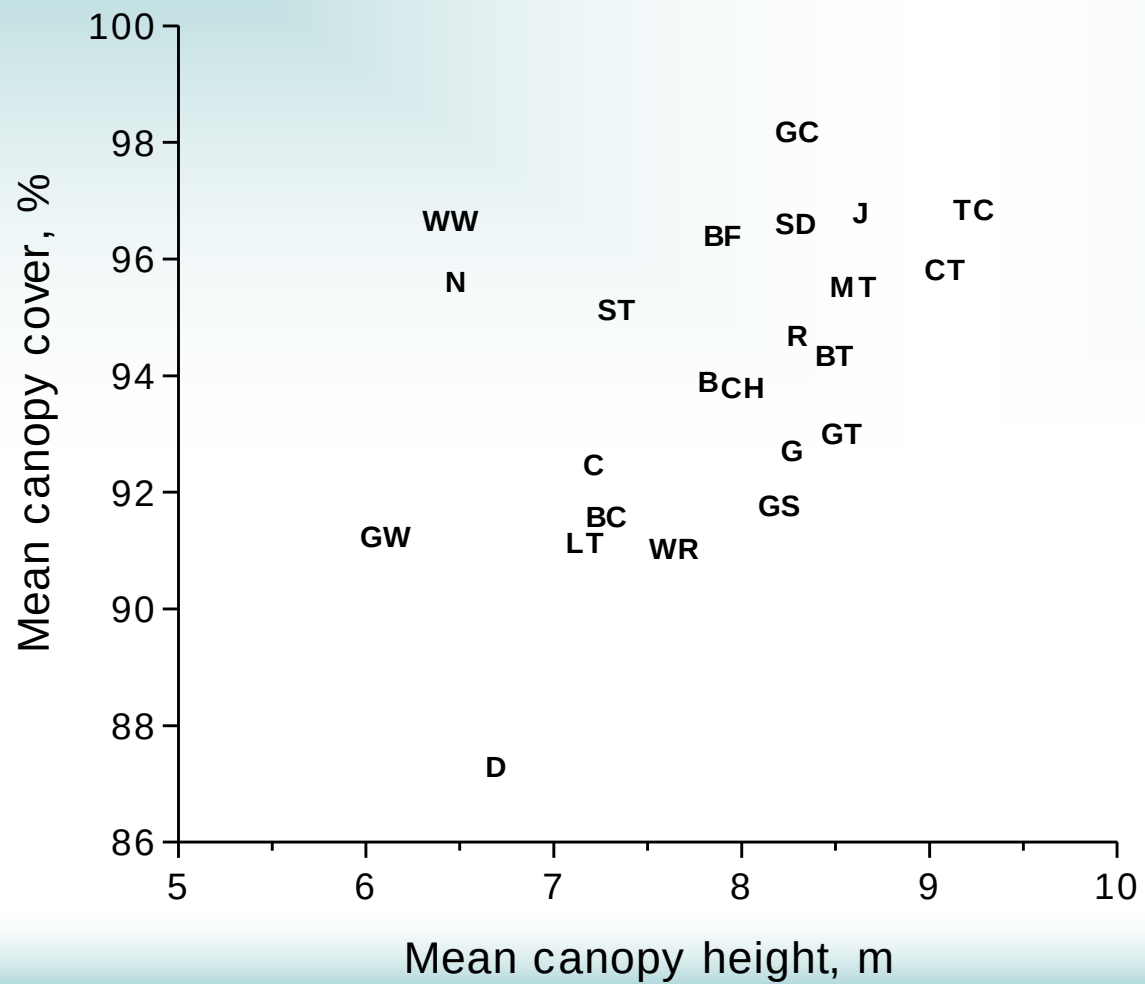


$R^2 = 0.95$

$P < 0.001$

$n = 23$

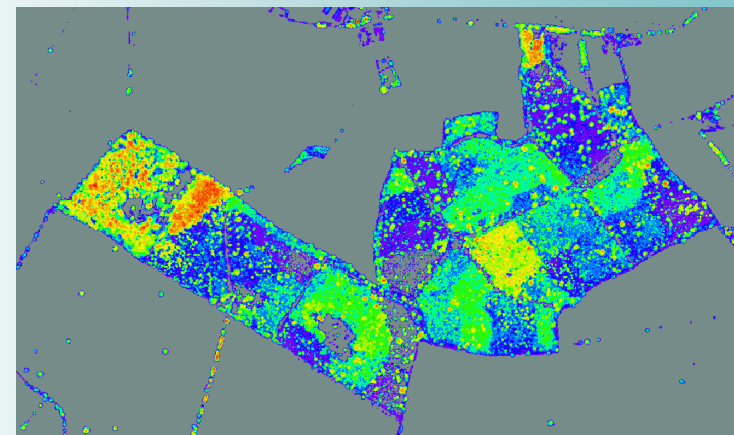
b) Bradfield Woods



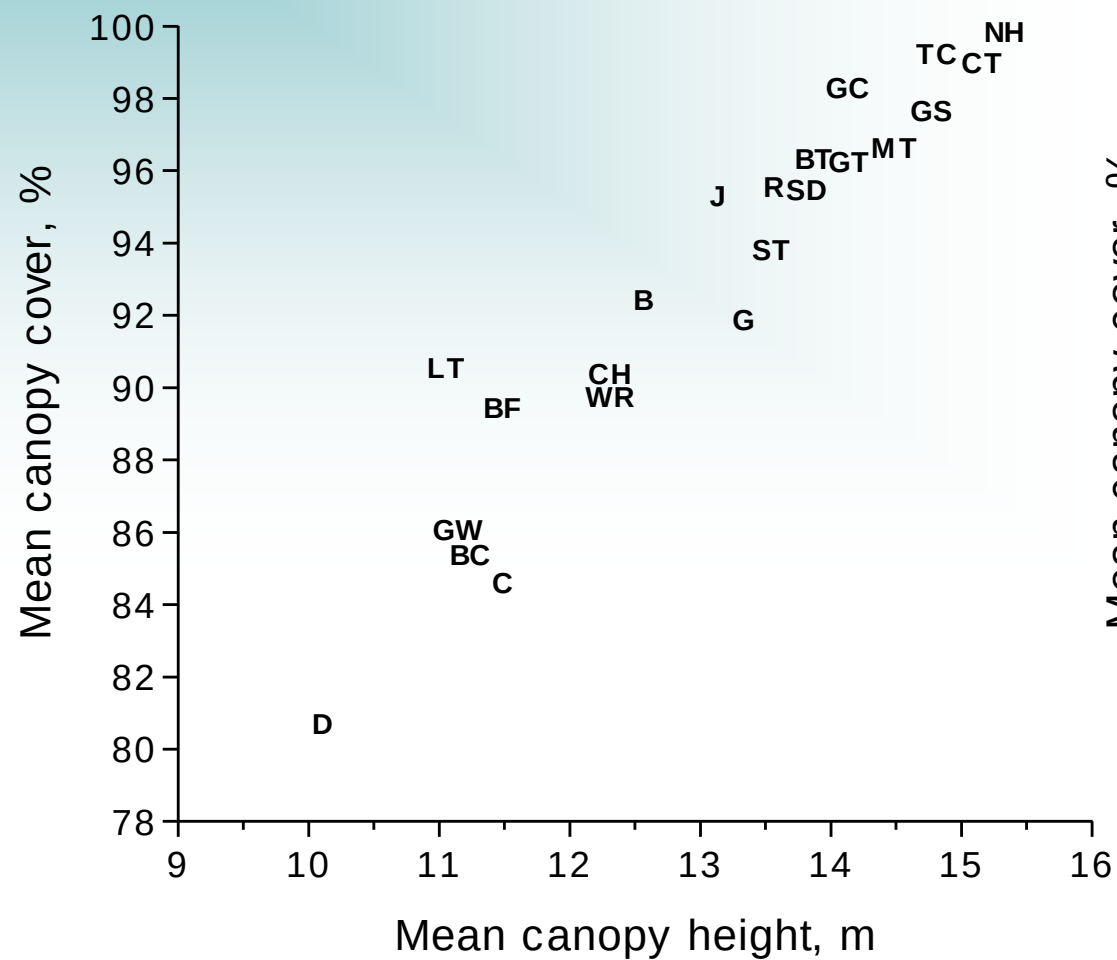
$R^2 = 0.21$

$P = 0.028$

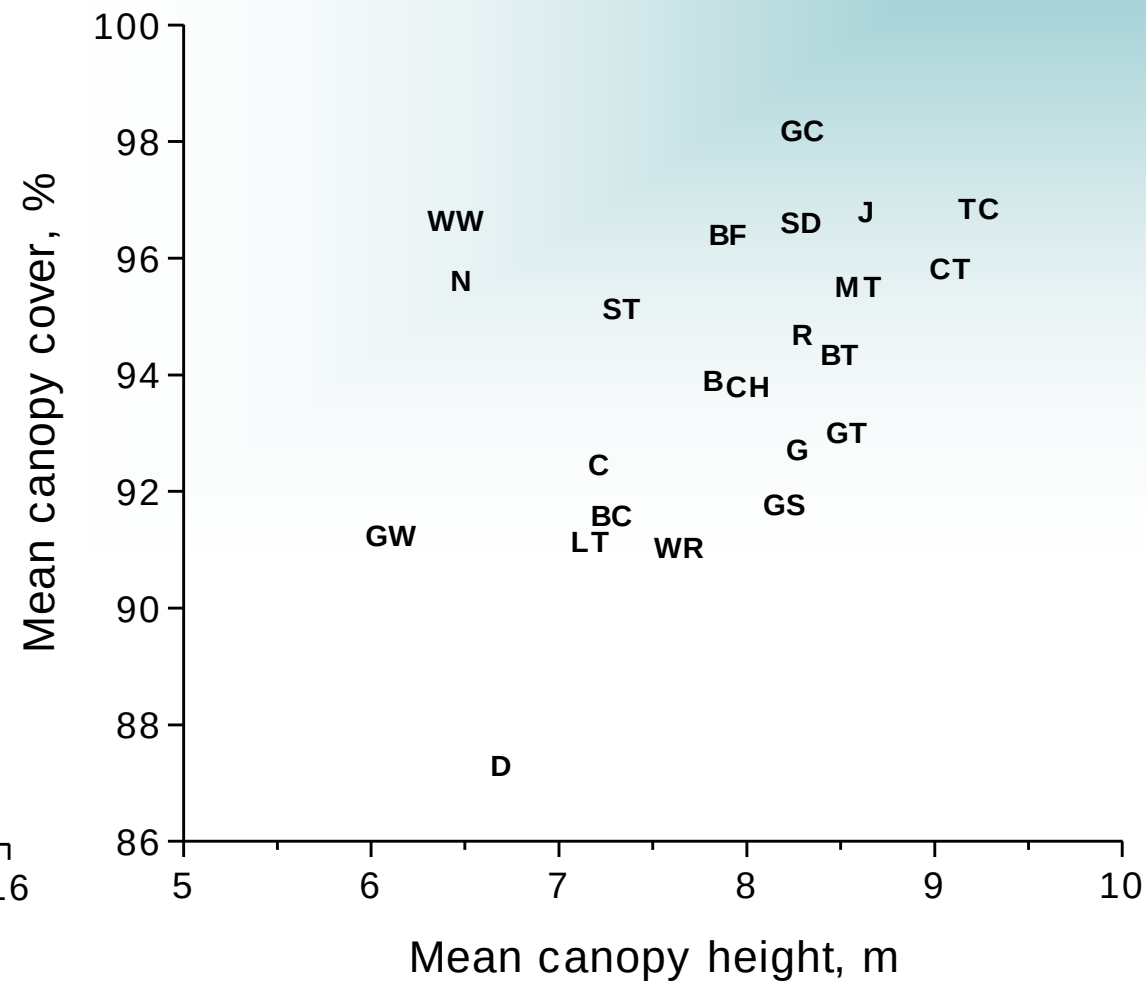
$n = 23$



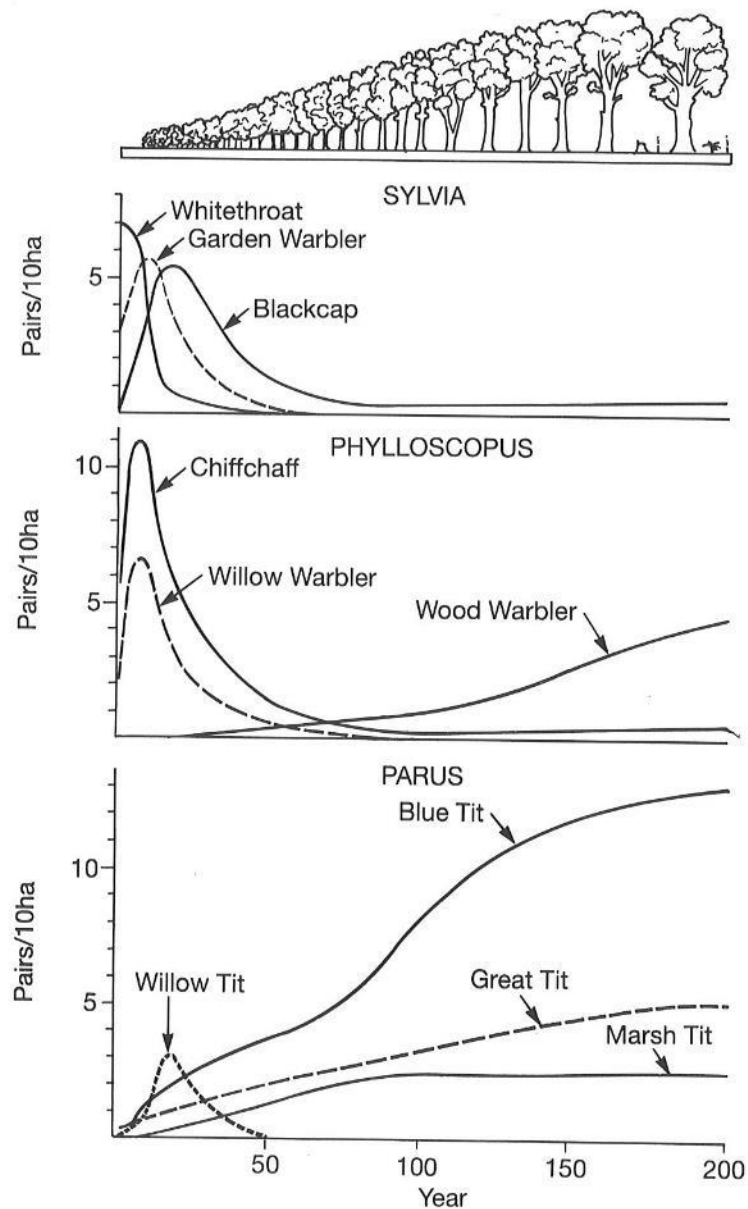
a) Sheephouse Wood



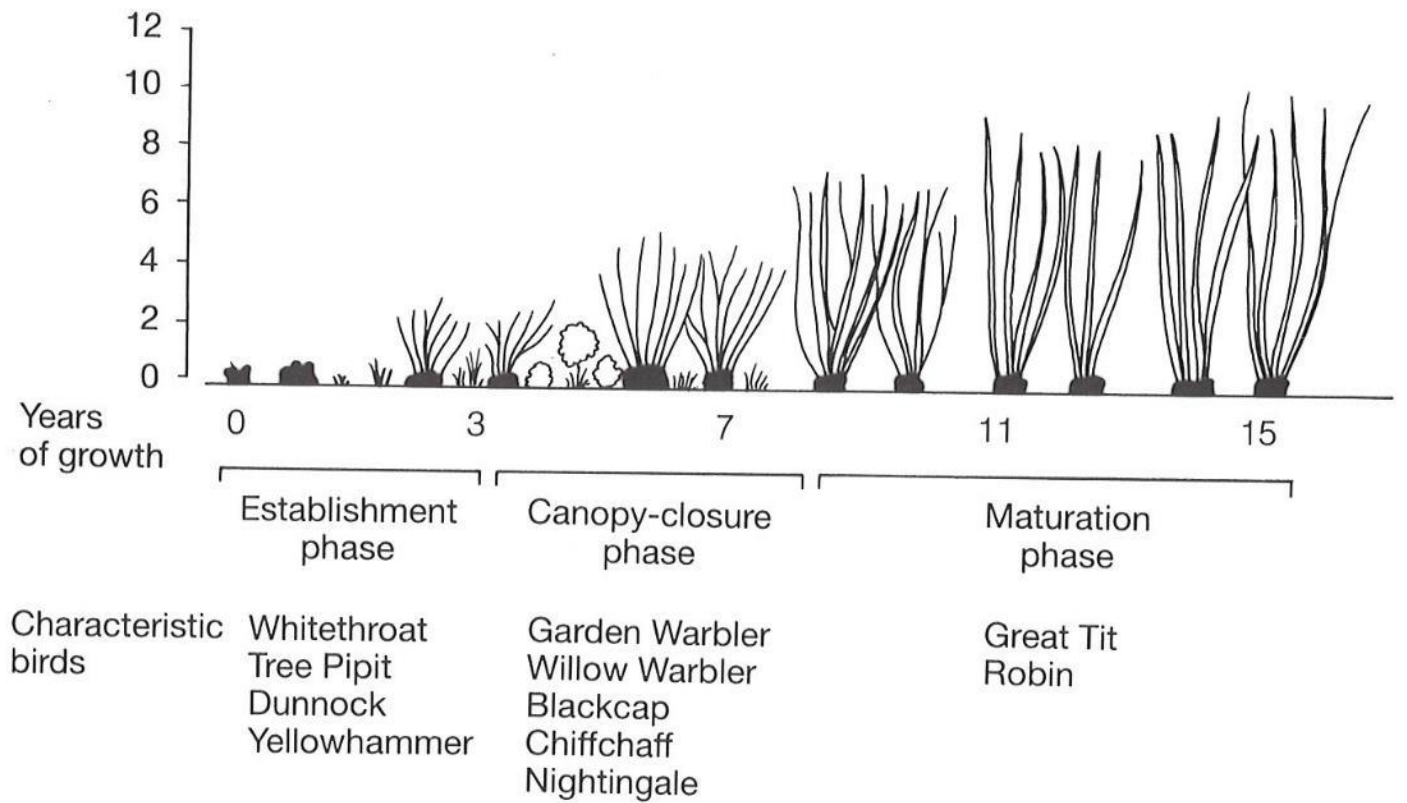
a) Bradfield Woods

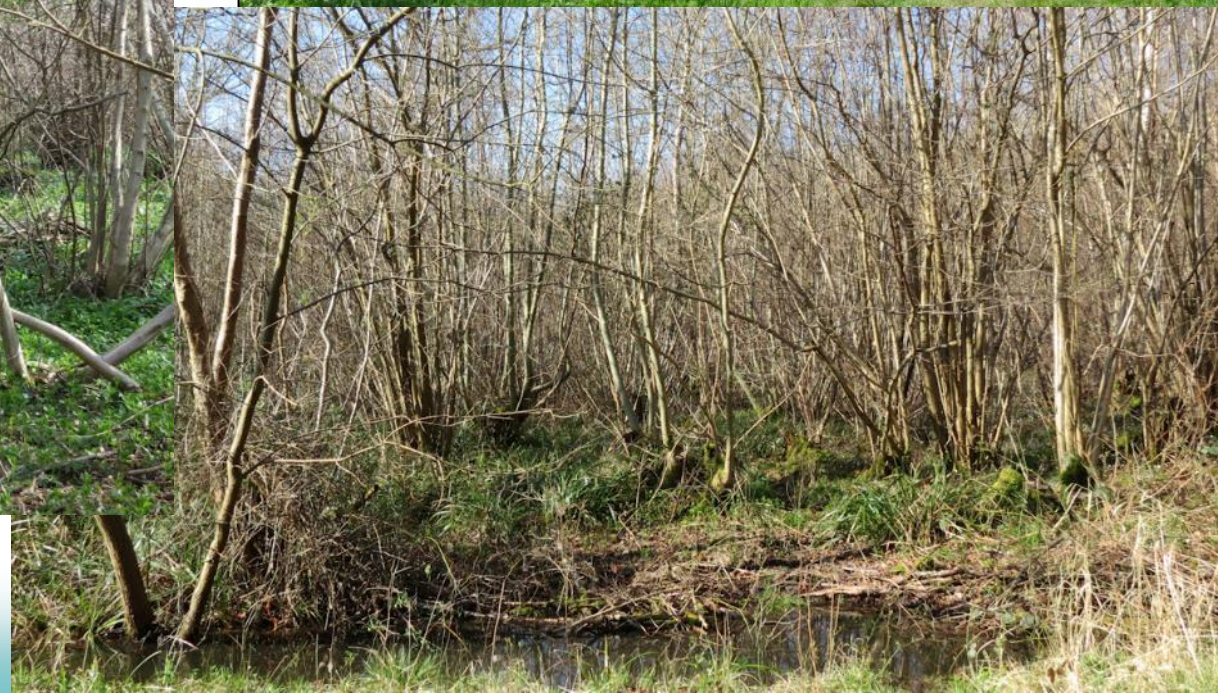






Height of coppice
(m)







Density of standards & tree canopy cover

Robin

Wren

Density of low cover in mid years

Dunnock

Blackbird

Blackcap

Garden Warbler

Nightingale

Willow Warbler





Photo: Richard Stead

Bradfield Woods Experiment

Nightingale:

**Territory density 15 x greater in plots protected from deer
Birds spent 69% of time in the 6% of the study area protected from deer**



Wytham Woods



Bradfield Woods
Dead coppice stool



Monks Wood
Ash dieback in
mature ash

Emerald Ash Borer

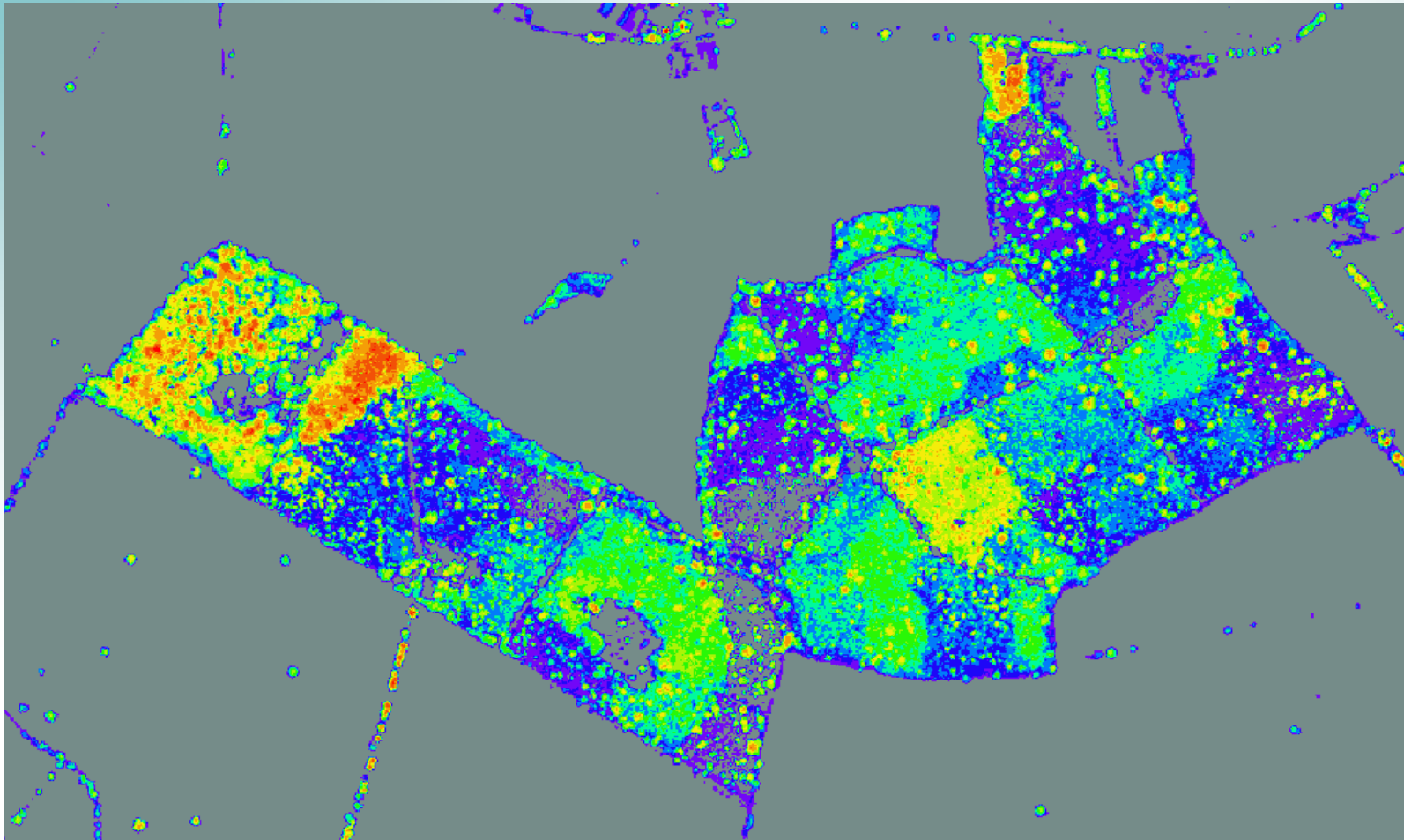


wtml



Abandoned coppice





Bradfield Woods

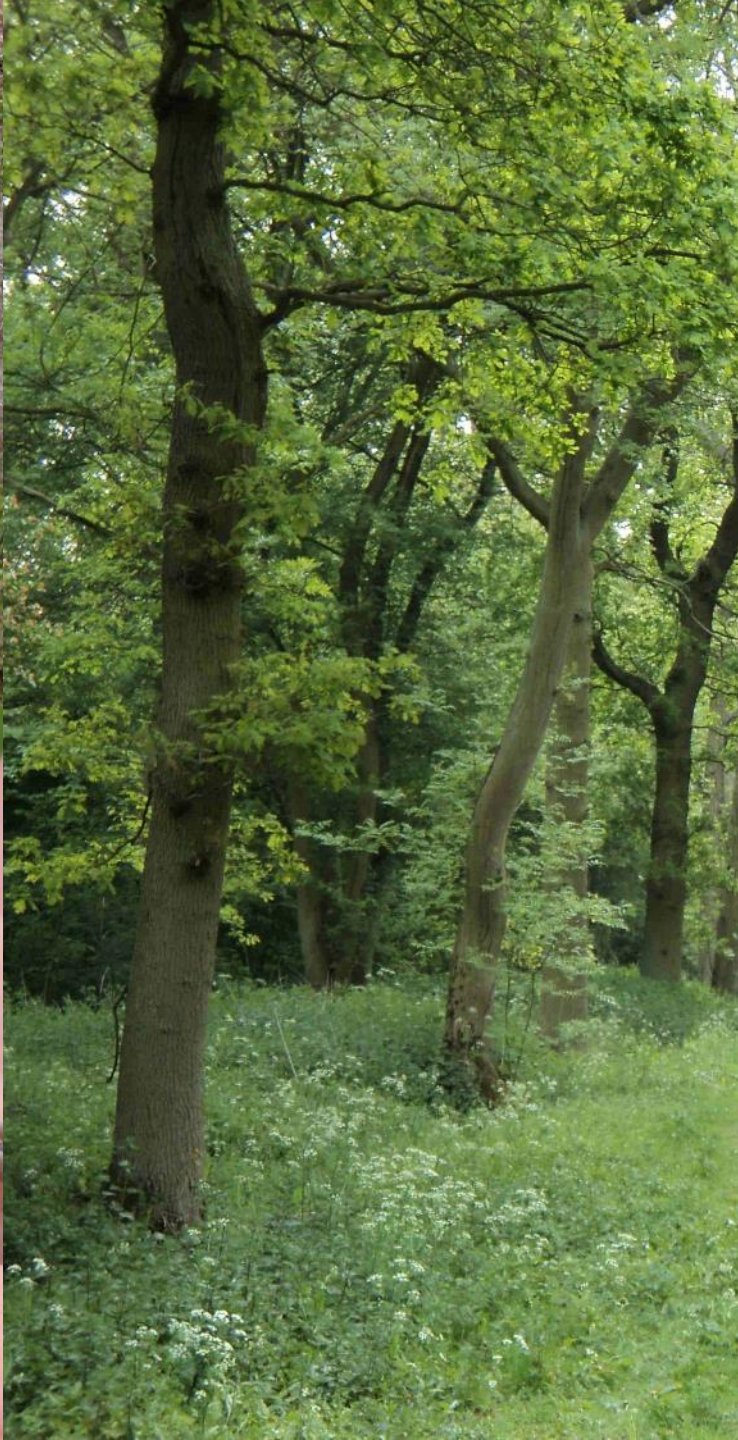
c. 56 of 70 ha in a
20 – 25 year rotation

51 panels

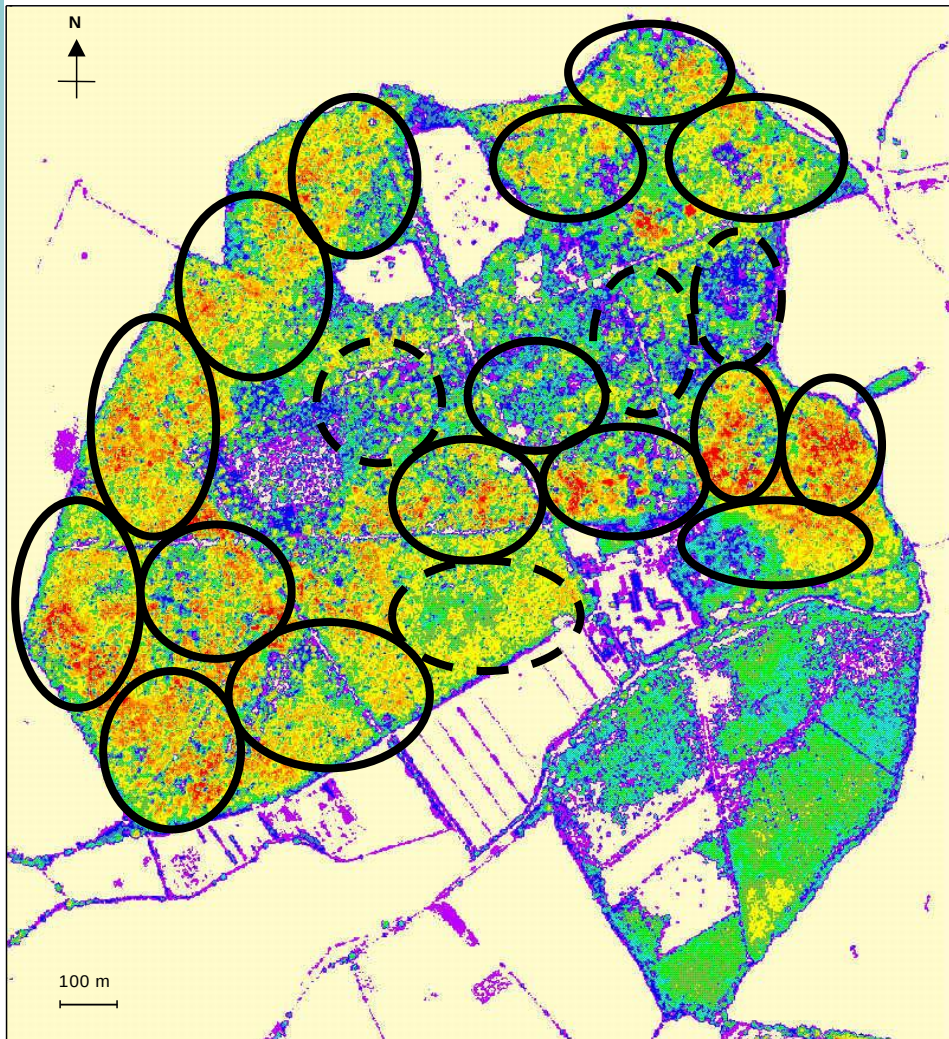
Mean panel area
 1.07 ± 0.64 ha

Panel area range
0.20 – 3.70 ha

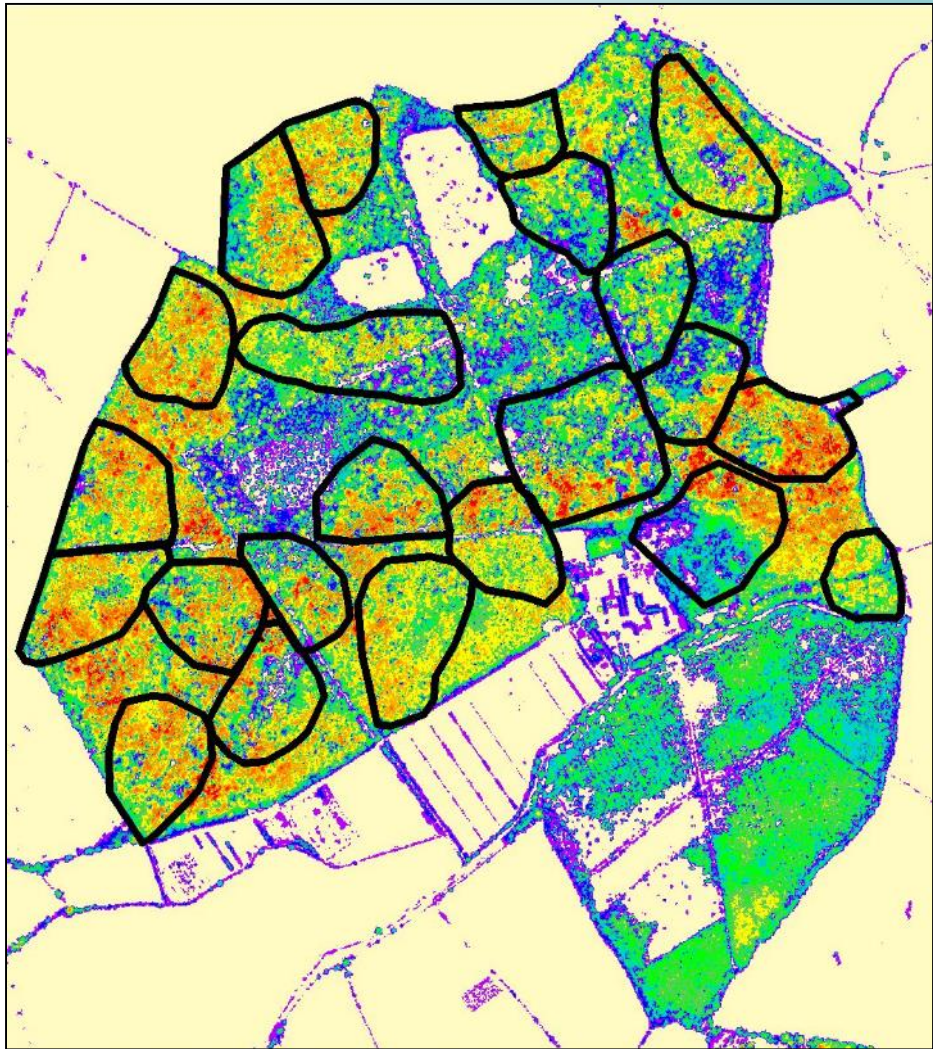
1 – 3 panels cut per year



Marsh Tit territories in Monks Wood



2000: 16 territories



2004: 22 territories



Landscape context





Elm seed, Raveley Wood