

# Re-recording of storm-damaged woods in Kent and Sussex

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A FOLLOW-UP SURVEY TO  
PERMANENT TRANSECT RECORDS OF SELECTED STORM DAMAGED  
WOODLAND, IN KENT.

BY

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## Introduction

Following the storm of October 1987, K.T.N.C. was contracted by N.C.C. to set up and record, permanently marked relocatable transects through selected areas of storm damaged woodland within areas designated as non-intervention zones. The main purpose being to provide base line recording for future studies on the stand scale (level 3.) at the selected sites. The work was carried out by D.N.Hutton.

The following sites were monitored:

1. Scords Wood, Toys Hill, Sevenoaks. (National Trust owned.)
2. Westfield Wood, Maidstone. (K.T.N.C. leasehold)
3. Parsonage Wood, Cranbrook. (K.T.N.C. owned.)

The recording was based on 20m wide transects as described in Peterken and Backmerof 1988 and with reference to work done by Dr. A. Whitbread while employed by N.C.C. (1988).

This survey was a follow-up to that carried out by D.N.Hutton in 1988. Selected lengths of the transects have been resurveyed using the same method, the objective being to monitor changes in the woodland structure.

## Acknowledgements

I would like to thank Dave Hutton for all the help and advice he gave to me during the survey.

### Recording method

The recording method used was the same as that used by D.N.Hutton in 1988. (see App 1)

In some areas it was not possible to record the girths of saplings even if they reached the required height of 1.3m, this was due to considerable amount of regrowth. In such cases an attempt has be made to estimate the density of saplings per unit area.

In areas of extremely vigorous regrowth no attempt was made to force an access, this was due to the potential damage to the regrowth that would have been caused by disturbance and the hazardous nature of such areas. An attempt to describe these areas was made from a nearby vantage point.

### RESULTS

Changes to woodland structure in the 1992 survey have been plotted in red ink, on the original (1987) survey maps. The original schedules have been modified again in red ink, noting any obvious changes to individual trees.

Summaries of the changes to each area are also included.

## SCORDS WOOD.

The areas resurveyed were as follows

Transect 180 - 270m An area of major storm damage.

Transect 410 - 440m An area of major storm damage

## OBSERVATIONS

The following observations were made:-

Transect 180 - 270m

An area of major storm damage. Changes to this area may be summarised as follows:-

a) Most fallen trees (*Fagus sylvatica*) have now died and are in an advanced state of decay. (the range of fungi noted included *Neobulgia pura*, *Stereum hirsutum* and *Coriolus versicolor*)

b) Vigorous growth of *Betula pendula* occurs throughout the area (reaching a density of 15/m<sup>2</sup> in the more open areas)

c) Patches of *Ilex aquifolia* have increased in area and height.

d) The ground flora is dominated by *Chamerion angustifolium* and *Digitalis purpurea*, with *Blechnum spicant* growth apparent around the base of root pits

e) Some root plates showed signs of recent disturbance, this may have been due to recent heavy rain washing the soil off the roots.

f) There has been some disturbance in the area when the foot path was reinstated.

Transect 410 - 440m

An area of major storm damage. Changes to this area may be summarised as follows:-

a) All fallen trees still living and showing epicormic growth.

b) Girths of trees, lengths of fallen timber and the size the canopy gap show no change.

c) Vigorous growth of *Vaccinium myrtillus* of up to 0.75m now forming an field layer with few of no other species present.

d) Spread of *Ilex aquifolium*, in some areas forming a dense scrub.

### WESTFIELD WOOD (TRANSECT A)

The areas resurveyed are as follows

Transect A 0-10m an area of slight storm damage

Transect A 10-20m an area of moderate storm damage

Transect A 40-60m an area of major storm damage.

Transect A 60-70m an area of no storm damage

### OBSERVATIONS

The following observations were made,

Transect A 60-70m

This area has undergone very minor or no change since the storm (original survey).

Transect A 0-10m

This area has only undergone minor changes. These may be summarised as follows:-

a) Growth of *Acer psuedoplatanus* saplings occur in the area, these are at a low density and less than <.4m in height.

b) *Clematis vitalba* and *Rubus fruticosus agg* occur at a low density in the area.

Transect A 10-20m

This area has undergone major changes, these may be summarised as follows:-

a) Vigorous growth of *Rubus fruticosus* and *Clematis vitalba*, climbing over fallen trees.

b) Some growth of *Fraxinus excelsior* and *Sambucus nigra* upto 2m in places.

Transect A 40-60m

An area of major storm damage, vigorous re-growth only permitted limited access. Changes may be summarised as follows:-

a) The exposed woodland floor has vigorous and abundant regeneration of *Fraxinus excelsior* up to 2m in places, and some *Acer Pseudoplatanus*. This growth has an field layer of *Rubus fruticosus agg* and *Clematis vitalba*.

b) Most fallen trees are still living, with *Taxus baccata* showing epicormic growth.

c) The increased occurrence of herbaceous plant species noted in the original report have now decreased and have been replaced by the species noted above.

## WESTFIELD WOOD (TRANSECT B)

The areas resurveyed were as follows:-

Transect B 110m - 120m an area of slight storm damage.

Transect B 100m - 110m an area of slight storm damage

Transect B 70m - 90m an area of major storm damage

## OBSEVATIONS

The following observations were made,

Transect 110 -120m

This area has only undergone minor changes. These may be summarised as follows

a) Some 20 *Taxus baccata* seedlings have germinated in the area.

b) One *Fagus sylvatica* has germinated in the area.

c) *Rubus fruticosus* occur at a low density in semi-open area.

d) Most fallen (or leaning ) trees still living, with *Taxus baccata* showing epicormic growth.

Transect B 100 - 110m

This area has under gone a major change since the last survey. This may be summarised as follows.

a) A fall of trees has occurred since the first survey was carried out.

b) No change was detected in the ground flora.

Transect B 70 - 90m

An area of very major change. These may be summarised as follows.

a) The exposed woodland floor has vigorous and abundant regeneration of of *Fraxinus excelsior* up to 2.5m in places. This growth has an field layer of *Rubus fruticosus agg* and *Clematis vitalba*.

General note Westfield Wood.

a) Girths of trees, lengths of fallen timber and the size of the canopy gap show no change.

b) Root pits show little or no sign of change.

## PARSONAGE

The areas resurveyed were as follows

Transect 0 - 20m an area of no storm damage.

Transect 20 - 30m an area of minor storm damage.

Transect 30 - 60m an area of major storm damage.

## OBSERVATIONS

Transect 0 - 20m

This area has undergone very minor or no change since the storm .

Transect 20 -30m

This area of minor changes. These may be summarised as follows:-

- a) Growth of *Rubus fruticosus*, in more open areas.

Transect 30 -60m

An area of major storm damage, vigorous re-growth only permitted limited access. Changes may be summarised as follows:-

- a) The exposed woodland floor has vigorous and abundant regeneration of *Acer pseudoplatanus*, *Betula pendula*, and *Castanea sativa*. This growth has an under layer of of *Rubus fruticosus*.

General observations of Parsonage Wood.

- a) Girths of trees, lengths of fallen timber and and the size of the canopy gap show no change since the original survey.

- b) Most fallen trees are still living, many showing epicormic growth.

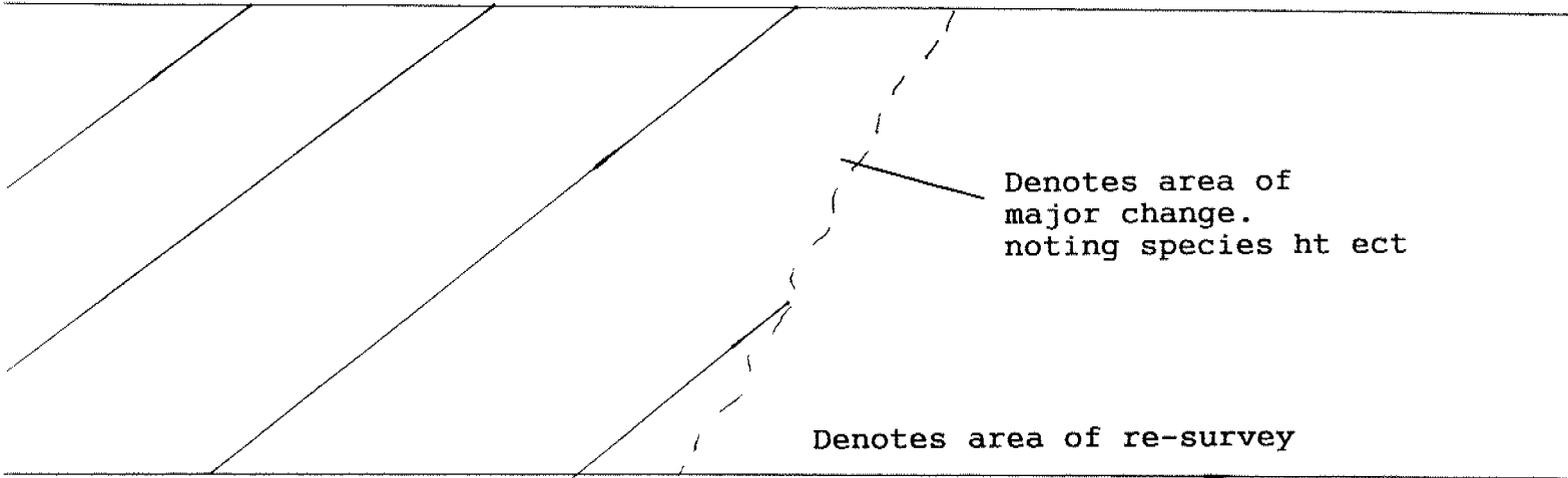
- c) Root pits show little sign of change.

- d) The fern species noted in original survey, have 'disappeared' under the carpet of *Rubus*.

KEY TO MAP MODIFICATIONS

Please see Key Appendix 1 for explanation of map symbols.

major changes to woodland structure are maked in red on the original maps thus



Denotes area of  
major change.  
noting species ht ect

Denotes area of re-survey

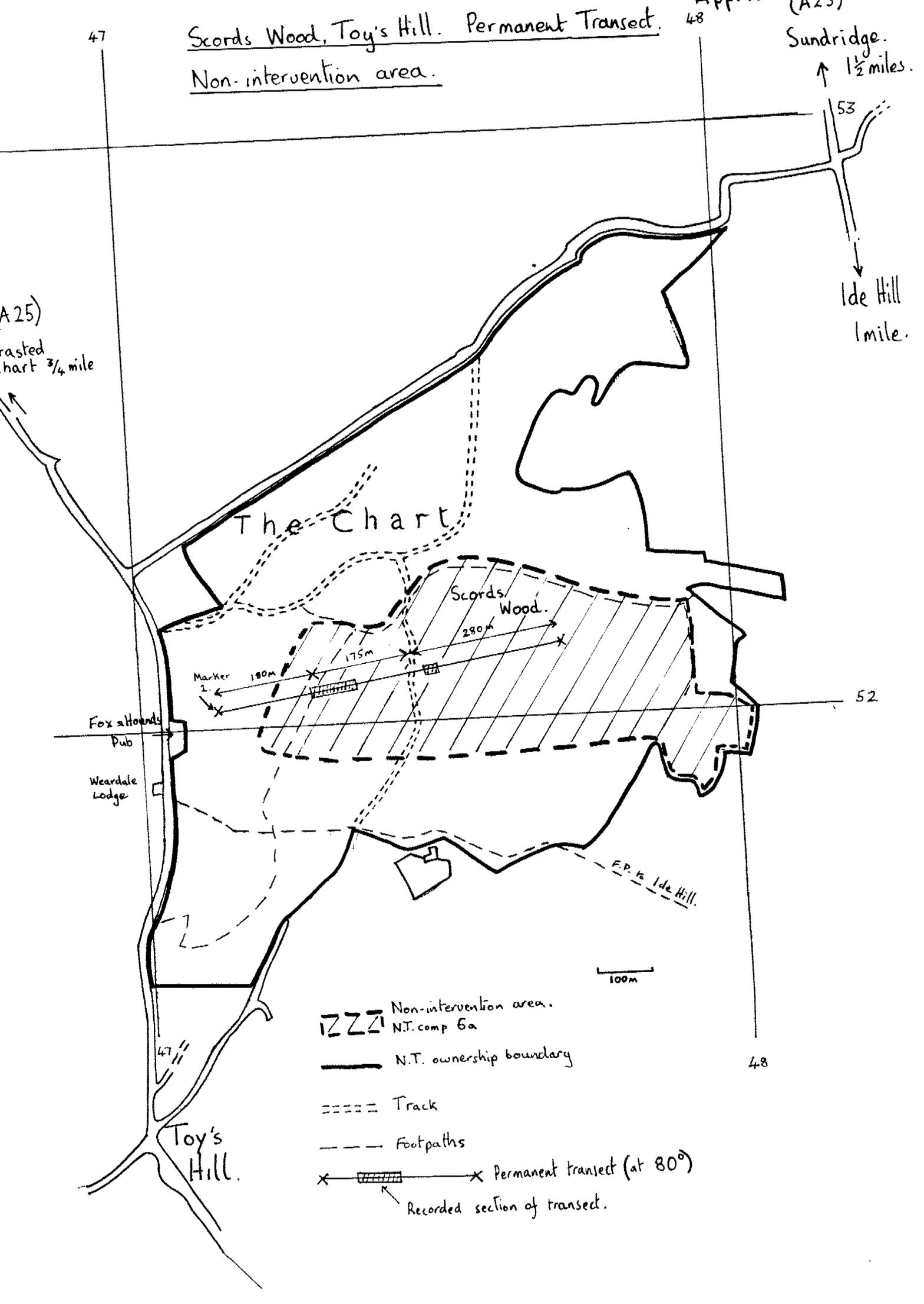
Scords Wood, Toy's Hill. Permanent Transect.

Non-intervention area.

Sundridge.  $\uparrow$  1 1/2 miles.

Idle Hill 1 mile.

(A25) crusted hart 3/4 mile



47

48

53

52

100m

48

Toy's Hill.

Non-intervention area. N.T. comp 6a

N.T. ownership boundary

Track

Footpaths

Permanent transect (at 80°) Recorded section of transect.

Stem/Strub No	Species	D.B.H	Growth form	Height cat.	Additional Notes
1	Qr	.12	St	S	Snapped (att.) at c. 3m.
2	Qr	.81	Ts	C	Major crown damage - but many limbs poss already dead + rotten. Poss over-shaded by Fs. Many epicormic growths from shattered / twisted ends of live branches.
3	(Qr)	.27			Major limb from 2. extensive rot evident.
4	Qr				Major limbs from 2 - leaning & still attached to 2.
5	Fs	.09 .14 .07	Cs	?	5 stems (only 3 measured)
6	Fs	.06 .10	Cs	S	2 main stems + other broken off. Split (att.) at c. 2m - shattered down to c. 1m.
7	Qr	.50	Ts	C	(DEAD)
8	la	.04	Ss	S	} surrounded by Jp/L/v - forming a thicket c. 2m Ø
9	la	.02 <.01	Ss	S	
10		.20 .15 .25 .30	Pc	C	
11	Fs	.14 .13	Ct	SC	
12	Fs $\xrightarrow{.10}$	1.5	Pc(6)	C	3 major primaries from one stool pollarded at c. 2.5m 2 major secondaries standing. One major primary fallen (=12a)
12a	Fs	.42			Major secondary from 12. Split from c. 2m to ground level.
13	Fs	.32			Shattered tertiary from 12
14	Fs	.79	Pc	C	Hollow centre. 2 major divisions at c. 2.5m 2/3 of crown gone - snapped off at c. 4m - 10m.
14a	Fs				Tertiary limb from 14 - snapped at c. 4m and suspended with canopy on ground.
15	Fs	.80 .35 .30 .29	Pc	C	3 major d secondaries (a) (DEAD) (b) (c)
16	Fs	.08	Ct	S	Moribund stool - 1 stem c. 1.7m (h) Ø < 0.08
17	(la)	.08			Probably dead, rotten c. 3.00(h) 3 Jp at base c. 30(h)
18	Fs	.80 .42 .41 .35	Pc	C	3 major secondaries (a) (DEAD) (b) (c)
19	Fs	.17	Ct	SC	One rotten stem + one moribund - split down length and snapped (att.) at c. 1.5m.
20					Large sawn off stump Ø c. .70 (not recent) poss Qr.

SCORDS WOOD A-W.

Additional Notes.

e/Strub N°	Species	D.B.H	Growth form	Height c.4.	
21	la	.07 (.09)	Ss	S	2 main stems 1 live snapped (att.) at c. 1.5m. Crown bearing shoots + JL 1 Dead former main stem c. 3m. (Surrounded by numerous J p/l.
22	Fs	.78	Pc	C	3 main secondaries c. .28 $\phi$
23	Fs				Snapped off tertiary limb from (25 f A-X) $\phi$ c. .16
24	Qr	.38	Tn	C	Tall straight standard - epicormics c. .25-.30 long. from 2m from base to canopy. (Ep Growth)
25	Fs	.98	Pc	C	Many rotted cavities in primary stem (poss rotten central core) 4 main secondaries (.48, .27, .14, .15)
26	Fs	.61	Pc	C	1 main secondary remaining $\phi$ c. .28
27	Fs				Snapped off secondary from 26.
28	(Fs)	(.10) (.06)	Ct		2 main stems both appear dead.
29	(Fs)		Ct		+/- moribund stool with a few shoots c. .50(h)
30	Fs		Pc	C	2 main secondaries remain standing $\phi$ c. .35.
30a	Fs	.40			} Snapped from 30.
30b	Fs	.21			
30c	Fs	.35			
31	la		Ss	S	Snapped off at c. 3.5m - vigorous growth from base + epicormic growth.
32	la	.04	Ss	S	emerging from fissure at ground level from 30.
33	Fs		Ct	Sa	New growth to c. .75
34	Fs		Ct	S	growth to 1.2m

Additional Notes.

Tree/Shrub No	Species	D.B.H	Growth form	Height cut.	Notes
1	(Fs)	.90	Pc	SC	Primary snapped at ground level - c. .70 (see 1a) completely detached primary + 1 remaining secondary.
1a	(Fs)	→ .45			
		→ .26			
2	1a	.02	Ss	S	Growing from stool + 2 dead stems
3	Fs	1.09	Pc	C	Stem divides into 3 major + many smaller c. .07-.10 ∅
		.51		(a)	(DEAD)
		.46		(b)	
		.14		(c)	
4	1a	.03	Ss	S	surrounded by c. 4m ∅ area of Jp/v/L
		.03			
5	Fs	1.20	Pc	C	Stem divides into 3 main stems NOW CUT tertiary limb snapped off * leaning on r.p. 7 A-W FOR FOOT PATH r.p covered with dead canopy from Fs Pc outside transect. Small pools of water collected in fissures on trunk - Invert larvae present
		.52			
		.35			
		.29			
6	Fs	.59	Pc	C	Main stem divides at 1.80. 2 remaining secondaries
7	Fs	.80	Pc	C	Main stem divides at 2.00 into 2 secondaries. Small pools as in 5.
		.36		(a)	(DEAD)
		.51		(b)	
(8)	Fs	1.0	Pc	C	(Outside transect) 4 major secondaries
		.38		(a)	(DEAD)
		.14		(b)	
		.34		(c)	
		.40		(d)	
9	Fs	.20			Poss. limb from 10 - snapped.
10	Fs	.90	Px	C	(Pass Ts - not quite a Pc) (DEAD)
11	Fs	.15			Poss. limb from 10 - snapped
(12)	Fs		Pc		R.p. 8m outside transect.
13	Fs				Stump c: .08 ∅ covered with moss sp. 3 vigorous shoots c. .15 long (Poss a root nodu...)
(14)	(Fs)	.22			Large limb from Ts - 4m outside transect at 22m.
(15)	(Fs)	.33			" " " " "
16	Fs	(.06)	Ct		.50(h). live shoots from c. .30-.40
(17)	(Fs)	.48			
(18)	(Fs)	.16			
(19)	1a	.06	Ss	S	Surrounded by Jp/v/L
20	Fs	1.0	Pc	C	Some major limbs appear dead + some with prematurely browning leaves. (4 major secondaries)
		.35		(a)	(DEAD)
		.28		(b)	
		.31		(c)	
		.35		(d)	
21	(Fs)	.30			
22					Large lump of well rotted wood - poss Fs.
23	Fs		Ct	S	Moribund stump - dead stems c. 2.00(h). New growth from bulbous base c. .50(h)

SCORDS WOOD A-X.

Additional Notes.

e/Strub No	Species	D.B.H	Growth form	Height cut.	Additional Notes.
24	Fs	.90 .31 .26 .22 .27	Pc	C	North facing half of base shattered. Vespula nest in hole in primary (4 major secondaries) (DEAD)
25	Fs	1.10 .37 .41 .35 .32 .40 .28	Pc	C	6 secondaries. Jv's emerging from root nodules beneath primary stem. (DEAD)
26	Fs	.63	Tc	C	Narrows at c. 1.5m then divides at c. 3m DEAD
(27)	(Qr)	.25			Top half of Tc - snapped off at c. 11m
(28)	Fs		Tc		Snapped at c. 2.5m (att.)
29	la	.04	Ss		
30	la	.05	Ss		
31	Fs	.80 .15 .25	Pc	C	2 main secondaries
31a	Fs	.10	St	SC	Growing from top of root plate 26 - probably part of same tree.
32	la	.04 .04 .02	Ss		Group of Ss (3 larger stems) surrounded by Jp/v - Major stems trapped under large Fs (Pc). Epicormics growing vigorously vertically
(33)	Fs		Pc	C	
34	Fs	1.0	Pc	C	Unable to measure accurately due to dense canopy of (33) Secondaries $\phi$ c. .25 - .30
35	(Fs)	.12			Snapped off stump at c 2m (h)
(36)	Fs		Pc		DEAD
37	(Fs)	1.0	Pc		Dead Pc stump
38	la	.01	Ss	S	Surrounded by thicket of Jp/v

e/Shrub No	Species	D.B.H	Growth form	Height Cat.	Additional Notes.
1	la	<.01	Ss	S	
2	Sar.	<.01	Jp	Sn	
3	Qr	.31	Tn	C	rotted stem at c. .50.
4	Qpxr	.24	CL	C	} 2 largest stems divide c. .80. } (Ep growth)
		.27			
		.20			
		.14			
5	la	.03	Ss	S	on r.p. of 4.
6	la	.02	Ss	S	
7	la	.02	Ss	S	
8	la	.03	Ss	S	
9	la	.02	Ss	S	
10	la	.02	Ss	S	
(11)	Qr	.11		C	
12	la	.02	Ss	S	Trapped under (11)
(13)	Qr	.27	Tn	C	(Ep growth)
(14)	(Qr)				Snapped off canopy top.
15	la	.03	Ss	S	
16	Qpxr	.19	Tc	SC	
17	Qpxr	.27	Tc	C	(Ep growth)
18	Sau.	<.01	Ss	S	
19	Tb	—	Jp	Sn	.73(h) vigorous with many side branches.
20	(Qr)	.15	Tx		lies under 17
21	(Sau.)	<.01	Ss	S	Leaves dead + attached ∴ died summer '88.
22	la	.02	Ss	S	
23	Sau.	<.01	Ss	S	
24	Sar.	—	Ss	S	1.0(h)
25	Sar.	<.01	Ss	S	
26	la	<.01	Ss	S	
27	Sau.	<.01	Ss	S	
28	Fs	<.01	Jp	S	
29	Sar.	.02	Ss	S	
30	la	.02	Ss	S	
31	Sau.	<.01	Ss	S	
32	Qpxr	.16	Tn	C	} (Ep growth)
33	Qpxr	.16	CL	C	
		.20			
		.21			
34	Qp	.18	Tc	C	
35	la	.02	Ss	S	
36	Sar.	<.01	Ss	S	
37	la	<.01	Ss	S	
38	Qp	.17	Tc	C	
39	Qp	.29	Tn	C	(Ep growth)

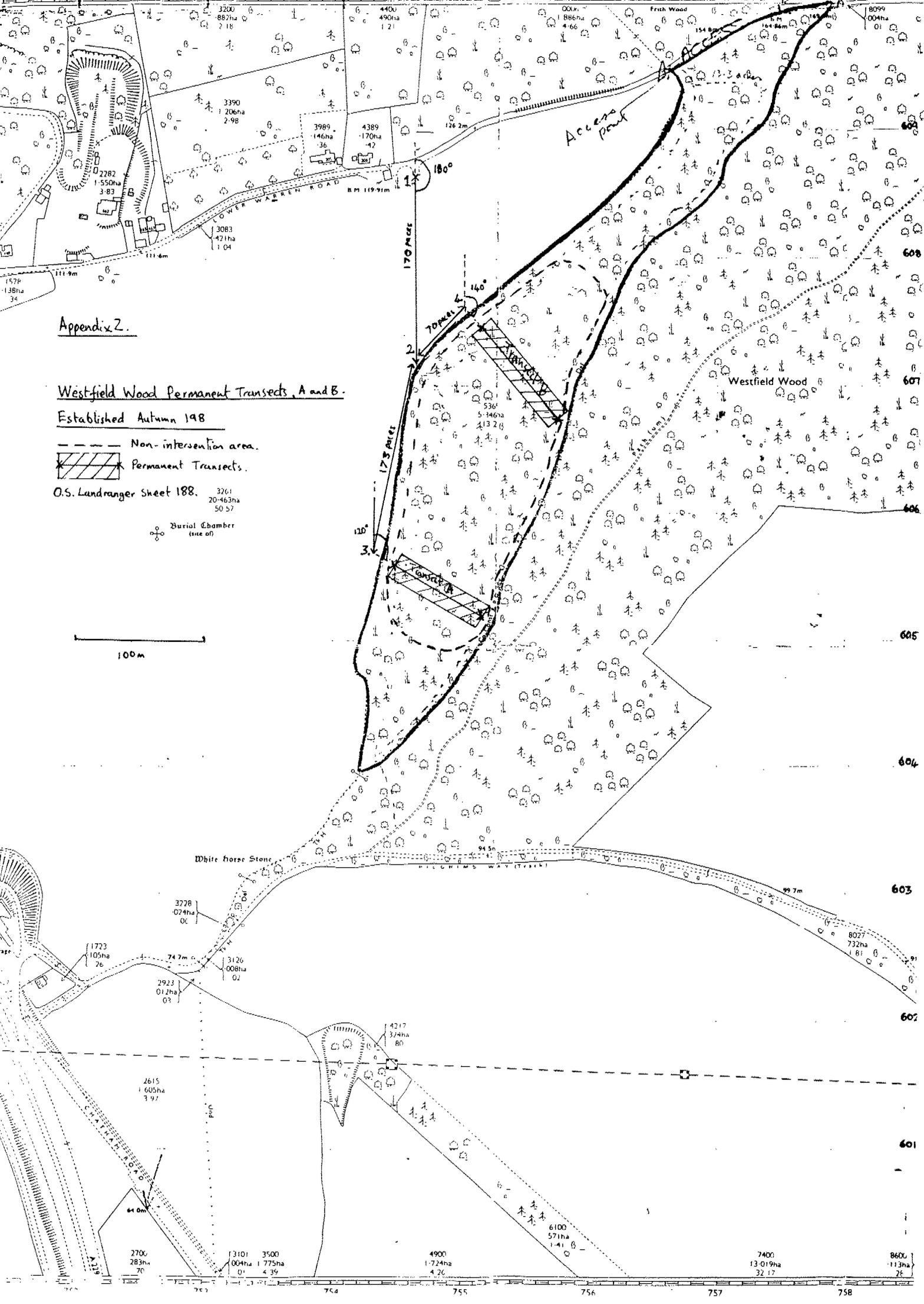
Additional Notes.

Tree/Strub No	Species	D.B.H	Growth form	Height (m)	Additional Notes.
40	la	.02	Ss	S	
41	Qp	.29	Tn	C	(Ep growth)
42	la	.02	Ss	S	Horizontal on r.p of 39.
43	la	<.01	Ss	S	
44	Qp	.13	Tn	SC	c. 6m (h) rotten at top.
45	Qp	.16	Tn	SC	
46	Qp	.12	Tn	SC	
(47)	Qp	.20	Tn	C	
48	Qp	.14	Tc	C	
(49)	Qpxr	.15	Tn	C	
(50)	Qpxr	.22	Tn	C	
(51)	Qpxr	.22	Cs	C	(Ep growth)
		.28			
(52)	Qpxr	.12 .12	Cs	C	(Ep growth)
53	Qpxr	.15	Tn	SC	Snapped (att.) at c. 2.5m(h) - canopy alive.
54	la	.02	Ss	S	
55	Qr	.09	Cs	C	}
		.19			
56	la	<.05	Ss	S	} Group of 4 surrounded by Jp/v
57	la	.01	Ss	S	
		.02			
		<.01			
		<.01			
58	Qrxp	.11	Tc	C	
59	Sau	.22	Tn	C	Jv from base.
60	la	<.01	Ss	S	Surrounded by Jp/v
61	la	<.01	Ss	S	" " "
62	la	.02	Ss	S	" " "
63	la	.02	Ss	S	" " "
64	Qrxp	.19	Tn	C	Tall straight - many epicormics
65	la	.03	Ss	S	
66	Qr	(.10)	Cs	SC	} One rotted stem c 6m (h)
		.12			
67	la	.03	Ss	S	Surrounded by Jp/v/L
68	la	.02	Ss	S	" " "
69	Qpxr	.22	Tn	C	
70	Qp	.12	Tc	C	
71	Tb		Jp	Sa	.40 (h)
72	la	.02	Ss	S	
73	Fs	<.01	Jp	Sa	
74	la	.02	Ss	S	
75	la	<.01	Ss	S	Surrounded by Jp/v/L
76	la	<.01	Ss	S	" " "
77	la	.02	Ss	S	" " "



Sp/Shrub No	Species	D.B.H	Growth form	Height cut.	Additional Notes.
1	Sar.	<.01	Ss	S	Bent over by Qpxr 4 A-X.
2	la	.02	Ss	S	" " " "
3	la	<.01	Ss	S	
4	la	.02	Ss	S	
5	Sau.	<.01	Ss	S	
6	Qrxp	.21 (.11)	CL	C	Divides at c. .50 smaller stem broken off at c. 2.3m - already rotten.
7	Qrxp	.16	Tn	C	
8	la	<.01	Ss	S	(Ep growth) bent over under 10 - top touching ground.
9	Qrxp	.13	Tc	C	hung up in fallen canopy of 4 a-x
(10)	Qp		Tn		
11	Qp	.07	-	-	Poss part of 12 Cs. - 3m(h) well rotted but alive
12	Qp	.14 .14	Cs		}
13	Sau	.02	Ss	S	
14	Sau	<.01	Ss	S	
15	Sau	<.01	Ss	S	
16	Qpxr	.18	Tc	C	
17	Qrxp	.22	Tc	C	
18	Sau	.12	SL	SC	Jv from base
19	Qpxr	.15	Tc	C	
20	la	<.01	Ss	S	
21	Qrxp	.10	Tc	SC	Top 3m appears dead
22	Qrxp	.24	Tn	C	
23	Sar.	<.01	Ss	S	
24	la	.02	Ss	S	
25	Tb	-	Jp	Sa	
26	Qp	.10	Tc	SC	Bent over under canopy of 4 a-x. Canopy leaves dead. <sup>Jv from stool</sup> c. 90°
27	Qp	.12	Tc	SC	
28	Sau	.01	Ss	S	
29	Qpxr	.14 .10	Cs	C SC	}
30	Fs	.03	Ss	S	
31	Qrxp		Tn	SC	Caught in branches of 26 - bent and twisted to c. 90°
32	Sau	<.01	Ss	S	
33	Q?				Dead coppice stool
34	la	.02	Ss	S	
35	la	.03	Ss	S	
36	Qr	.16 .18 .16 .18	Cs	C	Canopy of 33 A-X leans heavily onto - r.p. not disturbed.
37	la	<.01	Ss	S	
38	la	.02	Ss	S	
39	la	.02	Ss	S	

Tree/Shrub No	Species	D.B.H.	Growth form	Height Cat.	Additional Notes.
39	Fs	<.01	Ss	S	
40	Sar.	.01	Ss	S	
41	Sau	.03	Ss	S	
42	la	<.01	Ss	S	
43	Qr	.29	Tc	C	(Ep growth)
44	Qp	.18	Tc	C	Snapped + split (att.) at c. 2.5m - Canopy on ground att. by strip .12 x .04
45	Qp	.14 .08	Cs	SC	}
		.12 .12			
46	Qpxr	.08 .07	Cs	SC	+ 2 rotted stems
47	la	.02	Ss	S	
48	la	.03	Ss	S	
49	la	.02	Ss	S	
50	Qrxp	.12	Tn	SC	
51	la	.03	Ss	S	
52	la	.01	Ss	S	
53	la	.02	Ss	S	Bent over
54	Qrxp	.24	Tc	C	} canopy leaves died in summer '88 } poss same stool. (Ep growth)
55	Qrxp	.24 .15	Cs	C	
56	Qr	.26	Tc	C	v bulbous base c. .50 - 60 φ
57	la	.03 .02	Ss	S	} 3 individuals on r.p. of 54 & 55
		<.01			
58	la	.03 .03	Ss	S	
		.02			
59	la	.03	Ss	S	
60	Qrxp	.32	Tc	C	(Ep growth)
61	Qrxp	.23	Tc	C	2 stems divide & join again at c. 1.3m
62	la	.02	Ss	S	
63	Fs	.14	Tn	SC	Squirrel damage
64	la	.02	Ss	S	
65	la	.03	Ss	S	
66	Qrxp	.21	Tc	C	Large moss covered base
67	la	.01	Ss	S	
68	la	.02	Ss	S	
69	la	<.01	Ss	S	
70	la	.02	Ss	S	
71	Qpxr	.21	Tc	C	snapped (att.) c. 3m canopy alive.
72	Fs	<.01	Jp	Sa	
73	la	.02	Ss	S	
74	la	.02	Ss	S	
75	Fs	.02	Jp	Sa	
76	la	.02	Ss	S	
77	la	.02	Ss	S	
78	la	.03	Ss	S	
79	Fs	.01	Jp	Sa	



Appendix Z.

Westfield Wood Permanent Transects, A and B.

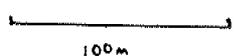
Established Autumn 198

- Non-intersection area.
- ▨ Permanent Transects.

O.S. Lundranger Sheet 188.

3261  
20-463ha  
50-57

Burial Chamber  
(see of)



100m

White Horse Stone

Access point

Westfield Wood

750 751 752 753 754 755 756 757 758

600 601 602 603 604 605 606 607 608

3728  
024ha  
02

1723  
105ha  
26

74.7m

2923  
012ha  
03

3126  
008ha  
02

2615  
1605ha  
3-97

4217  
374ha  
80

2700  
283ha  
70

3101  
004ha  
01

3500  
1775ha  
4-39

4900  
1724ha  
4-26

6100  
571ha  
1-41

7400  
13019ha  
32-17

8600  
1133ha  
26