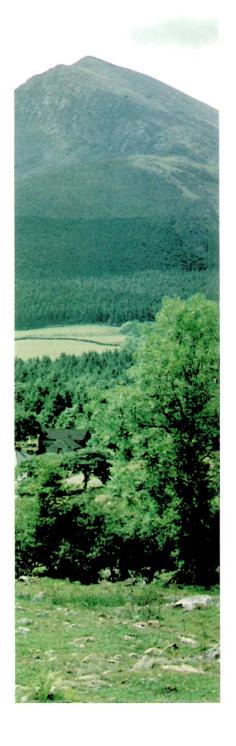
1988 - 1989

REPORT





Foreword

The Natural Environment Research Council produces an Annual Report summarising the activities across the organisation. Such an Annual Report can only provide selected information on the scientific activities of individual Institutes. It is therefore important for each Institute to produce its own Report which gives a full account of its research, its structure and its finances.

The Institute of Terrestrial Ecology is part of the Terrestrial and Freshwater Sciences Directorate of NERC. The Directorate's in-house capability also comprises the Institutes of Freshwater Ecology (formed in April 1989 from the staff and laboratories of the Freshwater Biological Association), Hydrology, and Virology and Environmental Microbiology (formerly the Institute of Virology but renamed in April 1989), the Unit of Comparative Plant Ecology (Sheffield University), the Water Resource Systems Research Unit (Newcastle University) and the Interdisciplinary Research Centre for Population Biology (Imperial College London)

The Institute of Terrestrial Ecology has a wide span of skills and disciplines and forms a core component of the Directorate. As noted in the Directors' report, the year has been active and eventful. In particular, it has been marked by the retirement of Dr Jack Dempster, its Director (South). I would like to take this opportunity to express my appreciation of his great contribution to the scientific reputation and management of ITE, and to welcome his successor Dr Mike Roberts with all good wishes for his future work with NERC.

P B Tinker

Director of Terrestrial and Freshwater Sciences Natural Environment Research Council

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Report of the Institute of Terrestrial Ecology for 1988/89

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Appendix l Staff at 31 March 1989

DIRECTORA	TES	Scientific		Franchis als 1	Research Station
	Cerrestrial Ecology (South)	Grade 6	Dr Newton I	Wareham	Research Station
	Experimental Station		21 1.07.1011 1	Dorset	
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Telex 32416	, i	Grade 7 Grade 7	Dr Hill M O Mr Lakhani K H	Head of Station	Dr Morris M G (Grade 6)
101011 02110		Grade 7	Dr Marrs R H	PS Station	Mrs Perkins M K
Director	Dr Roberts T M (Grade 5)	Grade 7	Dr Monarty F	10	14115 1 0114115 141 11
PS	Mrs Stocker B J	Grade 7	Mr Mountford M D	Administrati	ion
T - 1		Grade 7	Mr Radford G L	EO	Mrs Jones M C
Administratio Officer	==	Grade 7	Dr Sheail J	m. 10	(Station Secretary)
AO	Mr Clapp E C J (<i>HEO</i>) Mrs Knight M S	Grade 7 Grade 7	Dr Stebbings R E Dr Welch R C	TYP	Miss Weller R A
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		Grade 7	Dr Wyatt B K	Grade 7	Dr Chapman S B
			· · · ,	Grade 7	Dr Elmes G W
		SSO	Dr Bull K R	Grade 7	Dr Goss-Custard J D
		SSO	Dr Dawson A S	Grade 7	Dr Gray A J
Institute of T	Perrestrial Ecology (North)	SSO SSO	Mr French M C	Grade 7 Grade 7	Dr Kenward R E Dr Merrett P
Bush Estate		SSO SSO	Mr Frost A J Mr Fuller R M	Grade 7 Grade 7	Dr Merreit P Dr Thomas J A
Peniculk		SSO	Mrs Greene D M	Grade 7	Dr Ward L K
Midlothian		SSO	Mr Moss D	Grade 7	Dr Webb N R C
EH26 0QB	1040	SSO	Dr Parr T W		
Tel 031 445 4 Fax 031 445 3		SSO	Mr Preston C D	SSO	Mr Clarke P T
Telex 72579	3943	SSO	Dr Village A	SSO	Dr Daniels R E
10.001 12010		SSO	Mr Westwood N J	SSO SSO	Dr McGrorty S Dr Reading C J
Director	Dr Heal O W (Grade 5)	HSO	Mr Arnold H R	SSO	Mr Snazell R G
PS	Mrs Howat S L	HSO	Mr Brown N J	bbc	Wir Blidzen R C
		HSO	Miss Cox R	HSO	Mr Abbott A M
Administratio Officer		HSO	Mr Cummins C P	HSO	Mr Caldow R W G
EO	Mr Smith I C (<i>HEO</i>) Mr Tyers D J	HSO	Mr Eversham B C	HSO	Mr Pearson B
AO	Mr Crilly R T	HSO	Mr Freestone P	HSO	Mrs Wardlaw J C (PT)
	,	HSO HSO	Mr Gough M W Mrs Hall M L	SO	Mrs Le Vavesseur dit
		HSO	Mr Jones A R	ьо	Durell S E A (PT)
		HSO	Mrs Leeson E A	SO	Mr Rispin W E
		HSO	Mr Mountford J O	SO	Mr Rose R J
T 414 6 5		HSO	Mr Parish T		
Monks Wood	'errestrial Ecology (South) I Experimental Station	HSO USO	Mr Shore R F	Downey Don	and Chalon
Abbots Riptor		HSO HSO	Mr Wyllie I Mr Yates M G	Penrhos Roa	earch Station
Huntingdon	•	1150	WIT Tales WI O	Bangor	u .
PE17 2LS		SO	Mrs Asher A	Gwynedd	
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PS	Mrs King M			Station	To immore (Grade 6)
		ASO	Mr Myhill D G	PS	Mrs Lloyd A C
Administration		ASO	Mr Polwarth G J		
EO	Mrs Parsell J S	ЖТID	Mr Edwards S P	Administrati	
EO	(Station Secretary) Mrs Green J I (PT)	ÄLIB	ivit Lawatas a F	EO	Miss Owen D E (Station Secretary)
ÃO	Miss Stapleford S L	S/PHGR	Mr Ainsworth P G	AO	Mrs Pritchard J E
AA	Miss Carlin A J			TYP	Miss Jones H A
AA	Mrs Forrest W A	PTO	Mr Snapes V W	TYP	Miss Roberts M E
TYP	Miss Abblitt J M		(Workshop)	CLNR	Mrs Jones J F (PT)
TYP CLNR	Mrs Guerin E M Mrs Ennis S (PT)			BAND 4	Mr Wilson J N
CLNR	Mrs Schietzel P E (PT)			Scientific	
BAND 4	Mr White W F (PT)			Grade 7	Dr Good J E G
BAND 10	Mr Phillips R H E			Grade 7	Pr Perkins D F
H/KPR	Miss Lindstrom I S			Grade 7	Dr Walton K C

SSO	Dr Äshenden T W	HSO	Mr Lyle A A	HSO	Dr Howard D C
SSO	Dr Buse A	HSO HSO		HSO	Mrs Howard D M
			Dr May L		
SSO	Mr Dale J	HSO	Mr Morris K H	HSO	Mrs Howson G
SSO	Mr Evans D F	HSO	Mr Murray T D	HSO	Mrs Kennedy V H (PT)
SSO	Mr Hewett D G	HSO	Mr Ottley R F	HSO	Dr Livens F R
SSO	Mr Rafarel C R		(Snr Nurseryman)	HSO	Mr Rowland A P
SSO	Dr Reynolds B	HSO	Dr Sheppard L J	HSO	Mr Scott R
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SSO	Mr Stevens P A	HSO	Mr Munro R C	SO	Mr Beresford N A
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		SO	Miss Dick J M	SO	Mrs Poskitt J M (PT)
HSO	Mr Bell A A	SO	Mr Harvey F J	SO	Miss Robertson S M C
HSO	Ms Emmett B A	SO	Mr Ingleby K	SO	Mrs Shaw F J
HSO	Mr Williams W M	SO	Mr Kırıka A	SO	Mr Thomson A J
	**** **********************************	SO	Mr Leith I D	SO	Mr Woods C
SO	Mrs Bell S A	SO	Mrs Murray M B		**********************************
SO	Mr Hughes S	SO	Mr Storeton-West R L	ASO	Mıss Hodgson A L
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ASO	Mr Norns D	50	IVII VVIISOII K II F	Abo	Miss singleton D II
ASO ASO	Mr Williams T G	PTO	Mr Finhingtone C P	LIB	Mr Pogleott I
ASO	IVII VVIIIIdilis I G	TECH 1	Mr Elphinstone G B	шь	Mr Beckett J
DITIO	Mr. Washan G	IECH I	Mr McCormack J W		De Frankland I C (C/III DIII)
PTO	Mr Hughes G	# 7 TO	Mary Rolling C.M.		Dr Frankland J C (C/T PT)
		ALIB	Mrs Adair S M		Dr Jones H E (C/T PT)
		ALIB	Miss Scoular L M		
			Research Station		esearch Station
Institute of '	Terrestrial Ecology (North)	Grange-over-	Sands	Hill of Brathe	ens
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EH26 0QB		Telex 65102		Tel 03302 (E	Banchory) 3434
Tel 031 (Ed.	inburgh) 445 4343-6			Fax 03302 3	303
Fax 031 445		Head of	Dr Hornung M (Grade 6)	Telex 83939	6
m-1- 70070		Station			
Telex 72579		Station			
Telex 12519		PS	Mrs Delve J	Head of	Dr Staines B W
Head of	Dr Cannell M G R		Mrs Delve J	Station	Dr Staines B W (<i>Grade 6</i>)
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Head of	Dr Cannell M G R	PS	·	Station	(Grade 6)
Head of Station	Dr Cannell M G R (<i>Grade 6</i>)	PS Administration	on	Station	(<i>Grade 6</i>) Mrs Burnett L M (PT)
Head of Station	Dr Cannell M G R (<i>Grade 6</i>) Mrs Morris C	PS Administration HEO	on Mrs Foster E	Station TYP	(<i>Grade 6</i>) Mrs Burnett L M (PT)
Head of Station PS	Dr Cannell M G R (<i>Grade 6</i>) Mrs Morris C	PS Administration HEO HEO(T)	on Mrs Foster E Mrs Ward P A	Station TYP Administrat	(Grade 6) Mrs Burnett L M (PT) ion Mrs Oliver S T
Head of Station PS Administrat	Dr Cannell M G R (Grade 6) Mrs Morris C ion Mr Vernon P A	PS Administration HEO	on Mrs Foster E Mrs Ward P A (TFS Directorate) Mr Simms D	Station TYP Administrat	(Grade 6) Mrs Burnett L M (PT) ion Mrs Oliver S T (Station Secretary)
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Head of Station PS Administrat EO AO AO TYP TYP TYP CLNR BAND 4 Scientific	Dr Cannell M G R (Grade 6) Mrs Morris C ion Mr Vernon P A (Station Secretary) Mrs Campbell A M (PT) Mrs Shields S E (PT) Mrs Ferguson M J (PT) Mrs Lawrie E C Mrs Thompson M W (PT) Mrs Mowat E A M Mrs Innes D S (PT)	PS Administration HEO(T) EO AO TYP TYP TYP BAND 8 Scientific Grade 7 Grade 7	Mrs Foster E Mrs Ward P A (TFS Directorate) Mr Simms D (Station Secretary) Mrs Holgate A (PT) Miss Cottam S Mrs Wilson M (PT) Miss Benson C Mr Lethbridge R Dr Bacon P J	Station TYP Administrati EO AO TYP TYP BAND 8 Scientific Grade 6 Grade 7	(Grade 6) Mrs Burnett L M (PT) ion Mrs Oliver S T (Station Secretary) Mrs Ratcliffe R (PT) Mrs Allan E J P Mrs Andrews P A Mr Littlejohn A D Dr Watson A Dr Harris M P Dr Kruuk H
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Head of Station PS Administrat EO AO AO TYP TYP TYP CLNR BAND 4 Scientific Grade 7 Grade 7 Grade 7 Grade 7 Grade 7	Dr Cannell M G R (Grade 6) Mrs Morris C ion Mr Vernon P A (Station Secretary) Mrs Campbell A M (PT) Mrs Shields S E (PT) Mrs Ferguson M J (PT) Mrs Lawrie E C Mrs Thompson M W (PT) Mrs Mowat E A M Mrs Innes D S (PT) Dr Bailey-Watts A E Dr Booth M A Dr Fowler D Dr Leakey R R B Dr Longman K A	PS Administration HEO HEO(T) EO AO TYP TYP TYP TYP BAND 8 Scientific Grade 7	Mrs Foster E Mrs Ward P A (TFS Directorate) Mr Simms D (Station Secretary) Mrs Holgate A (PT) Miss Cottam S Mrs Wilson M (PT) Miss Benson C Mr Lethbridge R Dr Bacon P J Mr Brown A H F Dr Bunce R G H Dr Callaghan T V Dr Harrison A F Dr Horrill A D Mr Howard P J A	Station TYP Administrative EO AO TYP TYP BAND 8 Scientific Grade 6 Grade 7 SSO SSO SSO	(Grade 6) Mrs Burnett L M (PT) ion Mrs Oliver S T (Station Secretary) Mrs Ratcliffe R (PT) Mrs Allan E J P Mrs Andrews P A Mr Littlejohn A D Dr Watson A Dr Harris M P Dr Kruuk H Dr Miller G R Dr Miles J Dr Moss R Mr Welch D Dr Bayfield N G Mr Cummins R P
Head of Station PS Administrat EO AO AO TYP TYP TYP TYP CLNR BAND 4 Scientific Grade 7	Dr Cannell M G R (Grade 6) Mrs Morris C ion Mr Vernon P A (Station Secretary) Mrs Campbell A M (PT) Mrs Shields S E (PT) Mrs Ferguson M J (PT) Mrs Lawrie E C Mrs Thompson M W (PT) Mrs Mowat E A M Mrs Innes D S (PT) Dr Bailey-Watts A E Dr Booth M A Dr Fowler D Dr Leakey R R B Dr Longman K A (in Cameroon) Mr Smith I R	Administration HEO HEO(T) EO AO TYP TYP TYP TYP BAND 8 Scientific Grade 7	Mrs Foster E Mrs Ward P A (TFS Directorate) Mr Simms D (Station Secretary) Mrs Holgate A (PT) Miss Cottam S Mrs Wilson M (PT) Miss Benson C Mr Lethbridge R Dr Bacon P J Mr Brown A H F Dr Bunce R G H Dr Callaghan T V Dr Harrison A F Dr Horrill A D Mr Howard P J A Mr Lindley D K Mr Sykes J M	Station TYP Administrative EO AO TYP TYP BAND 8 Scientific Grade 6 Grade 7 SSO SSO SSO SSO	(Grade 6) Mrs Burnett L M (PT) ion Mrs Oliver S T (Station Secretary) Mrs Ratcliffe R (PT) Mrs Allan E J P Mrs Andrews P A Mr Littlejohn A D Dr Watson A Dr Harris M P Dr Kruuk H Dr Miller G R Dr Miles J Dr Moss R Mr Welch D Dr Bayfield N G Mr Cummins R P Mr French D D
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Appendix 2 Research projects at ITE stations at 31 March 1989

ITE (8) MO	nks wood experimental station		T02059d1	The effects of nitrogen on species	J O Mountford
	2 Land use, agriculture and the environ			diversity and agricultural production on	
T02052-5 T02052a2	EIC Remote sensing Remote sensing techniques for habitat surveys	BK Wyatt RM Fuller	T02059e5	the Somerset Moors British Rail-sponsored grassland experiments	J O Mountford
T02052e1	Remote sensing in the Less Favoured Areas models for rural land use planning	B K Wyatt	T02061-3	Agriculture and the environment] Sheail
T02052f2	Characterisation of grassland type and	B K Wyatt		(special topic programme)	-
T02052g5	condition using remotely sensed data Use of remote sensing for mapping and monitoring Sahelian rangelands	B K Wyatt	T02061f3	Reducing residual soil fertility of abandoned agricultural land for the restoration of native vegetation	R H Marrs
T02053_5	EIC GIS and cartography	B K Wyatt			
T02053a2	Digital cartographic service	G L Radford		4 Management of aquatic ecosystems	
T02053b1	CORINE Biotopes project	D Moss	T04053k1	Physical habitat simulation in rivers –	J O Mountford
T02053c1	Scientific co-ordination of the CORINE programme	B K Wyatt		model calibration (PHABSIM)	
T02053e2	Ecological Data Unit	G L Radford		7 Environmental pollution	
T02054-5	EIC Biological Records Centre	P T Harding	T07061-5	Hazard assessment	S Dobson
T02054a5	Biological Records Centre botanical	C D Preston	T07061a1	Hazard assessment on chemicals	S Dobson
10200100	recording schemes	0 2	T07061b1	Pesticides 'call-off' consultancy to DOE	S Dobson B N K Davis
T02054b5	Biological Records Centre vertebrate	H R Arnold	T07061d1	Pesticide drift and impact	B N K Davis B N K Davis
10500120	recording schemes		T07061e2	Insecticide spray drift and bioassay	I Newton
T02054c2	The distribution and ecology of non- marine isopoda	P T Harding	T07061f5	Birds and pollution	
T02054d5	Biological Records Centre terrestrial and	B C Eversham	T07062-5	Aquatic ecology and ecotoxicology	K R Bull
10200340	freshwater invertebrate recording schemes	<i>D</i> 0 2 v 0 10 1 1 1 1 1	T07062a1	Classification and comparison of river and lake catchinents using computing techniques	K R Bull
T02054e5	Biological Records Centre general	P T Harding	T07062c5	Remote sensing of Eskdale and	K R Bull/
T02054f2	Population fluctuations in annual legumes	C D Preston	10100203	Dunnerdale	B K Wyatt
T02054g5	Biological Records Centre data bank	C Appleby	T07062d2	Life history of the common frog	C P Cummins
T02054h5	Butterfly monitoring scheme	T J Yates	T07062el	Froglet production related to water	C P Cummins
MAGAEE 1	Englander of agreement	M D Hooper		chemistry and tadpole density in semi-	
T02055-1 T02055a1	Environmental impact assessment Avalon Lakes design studies	M D Hooper		natural pools	
T02055b1	Channel Tunnel construction – monitoring terrestrial (and freshwater) ecology	R C Welch	T07062f2	Modelling of atmospheric deposition into catchments	K R Bull
T02055cl	Folkestone terminal – specialist advice	M D Hooper			D 0-1
T02055d1	Ecological appraisal of a potential power	M D Hooper	T07063-5	Toxicology	D Osborn
	station site		T07063a2	Heavy metals in bats	R F Shore R F Shore
			T07063b1	Bats and pollution	R F Shore
T02056-5	Grassland ecology	T C E Wells	T07063c2	Hedgehogs and pollution Heavy metal metabolism in wild small	R F Shore
T02056a2	Monitoring floristic changes	T C E Wells	T07063d2		K F SHOTE
T02056b1	Cutting of chalk grassland	T C E Wells	T07063e2	mammals The effects of liming moorland on small	R F Shore
T02056c2	Population studies on orchids	T C E Wells	10700362	mammal populations (proposal)	K r Shore
T02057-5	Historical ecology	J Sheail	T07065_3	Animal ecotoxicology (special topic	A S Dawson
T02057a5	Historical aspects of environmental	J Sheail		programme)	
	perception		T07065c3	Interactive effects of pesticides on reproduction in birds	C Walker/ A S Dawson
T020585	Vegetation dynamics	T W Parr		reproduction in birds	A 5 Dawson
T02058a2	Roadside vegetation dynamics	T W Parr			
T02058b2	Modelling competition in grass swards	T W Parr	Programme	8 Population ecology	
T02058cl	Effects of growth retardants on the	T W Parr	T08054-5	Population dynamics	I Newton
	ecology of roadside vegetation in west		T08054a5	Population ecology of sparrowhawks	I Newton
T02058d1	Sussex Phragmites seedlings – their use in RBTS	T W Parr		(Accipiter nisus)	
10000001	sewage treatment		T08055-5	Farmland birds	A Village
T02058e1	Factors affecting the establishment and	T W Parr	T08055a2	Kestrels in farmland	A Village
	performance of reeds (Phragmites		T08055b5	Birds on arable farmland	A Village
	australis) in RBTS systems a survey in the				
	UK of reed bed treatment		T 08056-5	Bird physiology	A S Dawson
T02058f1	Experimental studies on the management	T W Parr	T08056a2	Physiological factors causing deferred	A S Dawson
	of reed beds for RBTS sewage treatment		moonee-o	sexual maturity in birds	A C Da
T02059-5	Wetland dynamics and management	T Parish/	T08056c2	Reproduction in rabbits	A S Dawson
		J O Mountford	T08057g1	Sediment classification of the Rivers Stour	M G Yates
T02059a2	Modern agriculture and wildlife	T Parish	10000191	and Orwell	141 O 10162
T02059b2	Land use and ecology of Swavesey Fens -			V21100	
	the fauna and flora in relation to both				
	established and changing management		Programme	9 Community ecology	
T02059c5	Environmental impact of flood protection	J O Mountford	T09051-5	Coastal systems	L A Boorman
	measures on the water regimes of wildife		T09051a2	Sand dune studies in East Anglia	L A Boorman
	habitats		T09051b2	Plant establishment in woodland	L A Boorman

T09051d1	Studies on salt marsh erosion in Essex	L A Boorman	T08059-5	Plant genecology	A J Gray
T09051e2	Invertebrates of Scottish sand dunes	R C Welch	T08059a2	Iso-enzyme studies in Sphagnum	R E Daniels
T09051f5	Comparative studies of salt marsh	L A Boorman	T08059b2 T08059c5	Spartina population ecology	A J Gray
	processes (proposal)		T08059d2	Genetic variation in <i>Phragmites australis</i> Nitrogen economy of <i>Drosera</i> species	R E Daniels R E Daniels
T09052-2	Heath and moorland systems	R H Marrs	T08059d2	Spartina niche model marginal vegetation	A J Gray
T09052a2	Heathland management research	R H Marrs	100000001	in a post-barrage environment	A J Glay
T09052b2	Long-term studies of vegetation change at	R H Marrs	T08059f1	Poole Bridge environmental enhancement	A J Gray
	Moor House NNR		T08059g1	Poole Bridge replacement environmental	N R Webb
T09052c2	Effects of grazing in Snowdonia	M O Hill		impact assessment	
			T08059h5	Culture and supply of reed plants	R E Daniels
T09053-2	Ecological processes in farm woodland	M O Hill	T0805912	Population biology in peatland	R E Daniels
T09053a2	Autecology of selected species on farm	M O Hill		angiosperms	
	woodland				
T09053b2	Farm woodland - primary and secondary	J M Sykes	T08060-5	Butterfly and ant studies	J A Thomas
managa a	effects of tree planting on soil (proposal)	14 O IVII	m00000 - n	600	G W Elmes
T09053c2	Modelling succession in farm woodland	M O Hill	T08060a5	The conservation of the large blue	J A Thomas
T09053d2	Invertebrate fauna of native and introduced broadleaved trees in Britain	R C Welch	T08060b1	butterfly The ecology of woodland fritillary	J A Thomas
T09053el	Management guidelines for the	R H Marrs	10000001	butterflies	J A Inomas
10303361	conservation of invertebrates, especially	IV II Mails	T08060c2	Social biology of Myrmica species	G W Elmes
	butterflies, in plantation woodlands		T08060d2	Large blue butterfly/Myrmica ant	G W Elmes/
T09053f2	Nitrogen mineralisation in tropical forest	R H Marrs		interactions	I A Thomas
	soils		T08060e2	Population ecology and adaptive	G W Elmes
T0905312	Artificial intelligence applied to	M O Hill		speciation of Myrmica	
	ecological and distributional information				
	systems				
T09053 ₁ 2	A survey of sand dunes in relation to	L A Boorman	Programme	• • • • • • • • • • • • • • • • • • • •	
	grazing		T09055-5	Heathland impacts	N R Webb
			T09055al	Wytch farm development biological	R E Daniels
D.,,	11 Programmeter Malarm and chamisters		mooocer 1	monitoring	B.E.Damala
T11053m2	• 11 Freshwater biology and chemistry The numbers of Atlantic salmon in some	K H Lakhanı	T09055b1	Purbeck–Southampton pipeline biological	R E Daniels
T11055m2	Scottish rivers	к п пакнаш	T09055c1	monitoring Hinkley Point public enquiry	R E Daniels
	Scottish Tivers		T09055d1	Rehabilitation of oil well sites	R E Daniels
			T09055e2	Heathland invertebrates	N R Webb
Programme	e 13 Scientific services		T09055f1	Restoration of heathland	N R Webb
T13060-2	Statistical services in ITE South	K H Lakhani/	T09055g1	Restoration experiments for New Forest	N R Webb
		M D Mountford		gas pipeline	
T13060a2	Estimation of population parameters	K H Lakhanı	T09055h2	Dorset heathland survey	N R Webb
T13060b2	Statistical consultancy	K H Lakhanı	T09055ml	Survey at Sandford Heath	N R Webb
T13060c2	Population regulation and estimation	M D Mountford			
T13060d2	Statistical consultancy in ITE	M D Mountford	T09056-5	Grassland and scrub dynamics	M G Morris
			T09056a2	Grassland management – invertebrates	M G Morns
T13061-1	ITE South consultancies	T M Roberts	T09056b2	Study of scrub succession on chalk at	L K Ward
T13061a1	Small consultancies at ITE Monks Wood	M D Hooper	macono o	Aston Rowant NNR	
			T09056c2	Rotational management of scrub at Castor	L K Ward
			T09056d5	Hanglands NNR Demography and conservation of scrub	L K Ward
			T09056f2	Weevil studies	M G Morns
			T09056g5	National survey of natural ecosystems in	M G Morns
			20000090	Korea (proposal)	M C MOILE
197E (C) E111	RZEBROOK RESEARCH STATION		T09056h2	Invertebrate geographical ranges and	L K Ward
(,	e 8 Population ecology			climate	
T08057-5		D Goss-Custard			
T08057a2	Predator/prey interactions between the	I D Goss-	T09057-5	Heathland vegetation dynamics	S B Chapman
	oystercatcher, Haematopus ostralegus, and		T09057a2	Nutrient cycles in lowland heath	S B Chapman
	its prey, particularly the mussel, Mytilus		T09057b2	Autecology of the marsh gentian	S B Chapman
	edulis on the Exe estuary and adjacent				
	coastal areas		Dynamana	e 13 Scientific services	
T08057b2	Winter feeding ecology of juvenile	J D Goss-	T13060e2	Statistical and computing services at	R T Clarke
	oystercatchers on the Exe estuary	Custard	11300002	Furzebrook	K I Clarke
T08057c2	Habitat contraction, breeding density and	J D Goss-	T13060f2	Statistical and computing services for the	R T Clarke
	reproductive output in waders, a feasibility	Custard	11000011	River Laboratory	I I OMIKC
T08057d1	study Wash burds and invertabrates	D. Coss Custord	T13060g2	Statistical research	R T Clarke
T08057G1	Wash birds and invertebrates J Predicting post-barrage densities of	D Goss-Custard I D Goss-			
10003161	invertebrates and shorebirds birds	Custard	T13061-1	ITE South consultancies	T M Roberts
T08057f1	Cardiff Bay barrage feasibility study	C J Reading	T13061b1	Small consultancies at ITE Furzebrook	M G Morns
10000111	Rhymney alternative feeding grounds	O j Reading			
	,o, and				
T08058-5	Resident vertebrate ecology	R E Kenward			
T08058a2	Grey squirrel damage and management	R E Kenward			
T08058b1	Goshawk population dynamics	R E Kenward			
T08058c2	Foraging and reserve storage in red and	R E Kenward	_ ,,	NGOR RESEARCH STATION	
macant ::	grey squirrels			2 Land use, agriculture and the environ	
T08058d1	Raptor ecology of Kluane Valley	R E Kenward	T02060-5	Biogeochemistry and land use	J E G Good
T08058e2	Breeding success and survival in the	C J Reading	T02060al	Nature conservation in upland conifer	JEGGood
T08058f2	common toad Ecology and population dynamics of the	C J Reading	T02060b2	forests Clonal selection in Betula and Salix	I E C Cood
10000012	grass-snake (Natrix natrix helvetica)	C) Reading	T0206062	Ecological survey of Capel Cynon	J E G Good G L Radford
	g-wo simile (aradia mana merrenca)		10200001	zorogram survey or capet Cytton	O I MACHOIC

T02060d2	Geochemical cycling in the uplands	B Reynolds	T01060-5	Tropical forestry and tree improvement	R R B Leakey
T02060f2	Effects of clearfelling plantation forests -	P A Stevens	T01060a2	Domestication of tropical hardwoods	R R B Leakey
	extension		T01060b1	Seed production and tree improvement in	R R B Leakey
T02060g1	Cwm Dylı pipeline consultancy	J E G Good	TO1000~1	Cameroon	D D D I aslesse/
T02060h5	The role of mires as sinks for N, P and S	B Emmett	T01060c1	World Bank forestry – EFG and ONAREF	R R B Leakey/ K A Longman
			T01060d1	Vegetation propagation of Eucalyptus	R R B Leakey
Programme	7 Environmental pollution		10100041	grandis	= =======
T07062c5	Remote sensing of Eskdale and	K R Bull/	T01060e1	Propagation of Lovoa trichilioides in	R R B Leakey
	Dunnerdale	B K Wyatt		Cameroon	
			T01060f1	Consultancy for CATIE, Costa Rica	R R B Leakey
T07064-5 T07064a5	Ecosystems' response to pollution Pollution study of Wales	K C Walton	T01060g1	(proposal) Agroforestry and mycorrhizas in E Africa	R R B Leakey
T07064a5	Effects of nitrogen dioxide on bryophytes	T W Ashenden T W Ashenden	T01060g1	Comparative ecology of endomycorrhizas	R R B Leakey/
10100401	and ferns	1 W /Bilenden	101000111	and nutrient cycling in indigenous species	P A Mason
T07064c2	Effects of acid mist on arctic-alpine plant	T W Ashenden		plantations in Cameroon	
	species		T0106011	UNESCO MAB contracts	O W Heal
T07064d2	Trace metals in terrestrial ecosystems	K C Walton			
T07064f2	Trace metals in rabbit bones from	K C Walton			
mozoc40	England and Wales, 1971–72	C P Poferol		2 Land use, agriculture and the environ	
T07064g2	Engineering development (mechanical and electronic)	C R Rafarel	T02051f1	Environmental constraints on the UK wind	B G Bell
T07064h2	Development and maintenance of site of	T W Ashenden	T0000E1140	energy resource	O W Heel
101001112	Bangor glasshouse unit	1 W IEMONGON	T02051h2 T02051ı2	Long-term environmental reference sites Data base of research sites	O W Heal M A Booth/
T0706412	Fluorine pollution studies	D F Perkins	10203112	Data base of research sites	P A Ward
T07064j2	Radiocaesium in the Snowdonia	D F Perkins			1 11 11 11 11
•	sheepwalk ecosystem		Dromammo	7 Environmental pollution	
T07064k2	Radiocaesium cycling in Nardus stricta	D F Perkins	T07055-3	The effects of atmospheric pollutants on	B G Bell
			101000	forests and crops (special topic	2020
D	0. Gammanita analama			programme)	
T09054-2	9 Community ecology Montane ecology	C Milner	T0705513	Exchange of NO _x and other gases before	D Fowler/
T09054b2	Ecology of arctic-alpine plant species in	C Milner		and after exposure to wind, ozone and	J Grace
10000122	Snowdonia	0		polluted cloud water	
			T07056-5	Ecological effects of climatic change	M G R Cannell
_			T07056a1	Impact of the mild winter 1988–89 a	M G R Cannell
	13 Scientific services		10100001	review for DOE	O II Gainion
T13061-1	ITE South consultancies	T M Roberts C Milner	T07056b2	The occurrence of extreme winds	R Milne
T13061c1	Small consultancies at ITE Bangor	C Miller	T07056d2	Response of trees to elevated CO ₂	D Eamus
				concentrations and temperature	
			T07056e2	Relationship between tree growth and	R Milne
			T07056e2		R Milne
				Relationship between tree growth and temperature analyses of tree-ring	
ITE (N) ED	INRIIRGH RESEARCH STATION		T07056e2 T07057–5 T07057a1	Relationship between tree growth and	D Fowler
	INBURGH RESEARCH STATION 1 Forest science		T07057-5	Relationship between tree growth and temperature analyses of tree-ring Atmospheric pollutants and trace gases Land/atmosphere exchange of NO _x , O ₃ and NH ₃ (dry deposition)	D Fowler D Fowler
		A D Watt/	T07057-5 T07057a1 T07057b1	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO _x , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude	D Fowler D Fowler D Fowler
Programme T01057-5	1 Forest science Temperate tree biology	M G R Cannell	T07057-5 T07057a1 T07057b1 T07057c1	Relationship between tree growth and temperature analyses of tree-ring Atmospheric pollutants and trace gases Land/atmosphere exchange of NO _x , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N _o and NO _x concentrations	D Fowler D Fowler D Fowler D Fowler D Fowler
Programme 701057-5 T01057a2	Forest science Temperate tree biology Evaluation of conifer clones and progenies	M G R Cannell s M G R Cannell	T07057-5 T07057a1 T07057b1	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO _x , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N _o and NO _x concentrations Land/atmosphere exchange of methane	D Fowler D Fowler D Fowler
Programme T01057-5 T01057a2 T01057b2	Forest science Temperate tree biology Evaluation of conifer clones and progenies Evaluation of red alder	M G R Cannell s M G R Cannell L J Sheppard	T07057-5 T07057a1 T07057b1 T07057c1 T07057d2	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO ₂ , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N ₀ and NO ₂ concentrations Land/atmosphere exchange of methane (proposal)	D Fowler D Fowler D Fowler D Fowler D Fowler
Programme T01057-5 T01057a2 T01057b2 T01057c1	Forest science Temperate tree biology Evaluation of conifer clones and progenies Evaluation of red alder Genetic improvement of tea	M G R Cannell S M G R Cannell L J Sheppard M G R Cannell	T07057-5 T07057a1 T07057b1 T07057c1	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO ₂ , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N ₀ and NO ₂ concentrations Land/atmosphere exchange of methane (proposal) Land/atmosphere exchange of ammonia	D Fowler D Fowler D Fowler D Fowler D Fowler
Programme T01057-5 T01057a2 T01057b2 T01057c1 T01057d2	1 Forest science Temperate tree biology Evaluation of conifer clones and progenies Evaluation of red alder Genetic improvement of tea Frost hardiness of Nothofagus procera	M G R Cannell S M G R Cannell L J Sheppard M G R Cannell J D Deans	T07057-5 T07057a1 T07057b1 T07057c1 T07057d2	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO _x , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N _o and NO _x concentrations Land/atmosphere exchange of methane (proposal) Land/atmosphere exchange of ammonia (proposal)	D Fowler D Fowler D Fowler D Fowler D Fowler
Programme T01057-5 T01057a2 T01057b2 T01057c1	Forest science Temperate tree biology Evaluation of conifer clones and progenies Evaluation of red alder Genetic improvement of tea Frost hardiness of Notholagus procera Agroforestry experimental assessment of	M G R Cannell S M G R Cannell L J Sheppard M G R Cannell	T07057-5 T07057a1 T07057b1 T07057c1 T07057d2 T07057e5	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO ₂ , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N ₀ and NO ₂ concentrations Land/atmosphere exchange of methane (proposal) Land/atmosphere exchange of ammonia	D Fowler D Fowler D Fowler D Fowler D Fowler M Sutton
Programme T01057-5 T01057a2 T01057b2 T01057c1 T01057d2 T01057e1 T01057f2	1 Forest science Temperate tree biology Evaluation of conifer clones and progenies Evaluation of red alder Genetic improvement of tea Frost hardiness of Nothofagus procera	M G R Cannell S M G R Cannell L J Sheppard M G R Cannell J D Deans	T07057-5 T07057a1 T07057b1 T07057c1 T07057d2 T07057e5 T07057f1 T07057g5 T07057h5	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO _x , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N _o and NO _x concentrations Land/atmosphere exchange of methane (proposal) Land/atmosphere exchange of ammonia (proposal) Cloud deposition (proposal) Pollution climate at Dunslair (proposal) Deposition of lead-210	D Fowler D Fowler D Fowler D Fowler D Fowler D Fowler M Sutton D Fowler A Crossley R Mourne
Programme T01057-5 T01057a2 T01057b2 T01057c1 T01057d2 T01057e1 T01057f2 T01057g2	I Forest science Temperate tree biology Evaluation of conifer clones and progenies Evaluation of red alder Genetic improvement of tea Frost hardiness of Nothofagus procera Agroforestry experimental assessment of novel biomass systems Assimilate partitioning in branches Light use efficiency of trees	M G R Cannell S M G R Cannell L J Sheppard M G R Cannell J D Deans G J Lawson	T07057-5 T07057a1 T07057b1 T07057c1 T07057d2 T07057e5 T07057f1 T07057g5	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO ₂ , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N ₆ and NO ₂ concentrations Land/atmosphere exchange of methane (proposal) Land/atmosphere exchange of ammonia (proposal) Cloud deposition (proposal) Pollution climate at Dunslair (proposal) Deposition of lead-210 N deposition effects on plant communities	D Fowler D Fowler D Fowler D Fowler D Fowler D Fowler M Sutton D Fowler A Crossley
Programme T01057-5 T01057a2 T01057b2 T01057c1 T01057d2 T01057e1 T01057f2 T01057g2 T01057h2	I Forest science Temperate tree biology Evaluation of conifer clones and progenies Evaluation of red alder Genetic improvement of tea Frost hardiness of Nothofagus procera Agroforestry experimental assessment of novel biomass systems Assimilate partitioning in branches Light use efficiency of trees Cones and tree carbon balance	M G R Cannell S M G R Cannell L J Sheppard M G R Cannell J D Deans G J Lawson M G R Cannell M G R Cannell M G R Cannell J McP Dick	T07057-5 T07057a1 T07057b1 T07057c1 T07057d2 T07057e5 T07057f1 T07057g5 T07057h5	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO _x , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N _o and NO _x concentrations Land/atmosphere exchange of methane (proposal) Land/atmosphere exchange of ammonia (proposal) Cloud deposition (proposal) Pollution climate at Dunslair (proposal) Deposition of lead-210	D Fowler D Fowler D Fowler D Fowler D Fowler D Fowler M Sutton D Fowler A Crossley R Mourne
Programme T01057-5 T01057-5 T01057-2 T01057-2 T01057-2 T01057-1 T01057-1 T01057-2 T01057-2 T01057-2 T01057-2 T01057-2	I Forest science Temperate tree biology Evaluation of conifer clones and progenies Evaluation of red alder Genetic improvement of tea Frost hardiness of Nothofagus procera Agroforestry experimental assessment of novel biomass systems Assimilate partitioning in branches Light use efficiency of trees Cones and tree carbon balance Silviculture of re-spacing Sitka spruce	M G R Cannell S M G R Cannell L J Sheppard M G R Cannell J D Deans G J Lawson M G R Cannell M G R Cannell J McP Dick J D Deans	T07057-5 T07057a1 T07057c1 T07057c2 T07057c5 T07057c5 T07057c5 T07057c5 T07057c6	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO ₂ , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N ₀ and NO ₂ concentrations Land/atmosphere exchange of methane (proposal) Land/atmosphere exchange of ammonia (proposal) Cloud deposition (proposal) Pollution climate at Dunslair (proposal) Deposition of lead–210 N deposition effects on plant communities (proposal)	D Fowler D Fowler D Fowler D Fowler D Fowler A Sutton D Fowler A Crossley R Mourne C Pitcairn
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Programme T01057-5 T01057a2 T01057b2 T01057c1 T01057d2 T01057f2 T01057f2 T01057g2 T01057h2 T01057j2 T01057j2 T01057j2 T01057j5	I Forest science Temperate tree biology Evaluation of conifer clones and progenies Evaluation of red alder Genetic improvement of tea Frost hardiness of Notholagus procera Agroforestry experimental assessment of novel biomass systems Assimilate partitioning in branches Light use efficiency of trees Cones and tree carbon balance Silviculture of re-spacing Sitka spruce Mechanics of windthrow Tree stability interactions among trees	M G R Cannell S M G R Cannell L J Sheppard M G R Cannell J D Deans G J Lawson M G R Cannell M G R Cannell J McP Dick J D Deans R Milne R Milne	T07057-5 T07057a1 T07057c1 T07057c2 T07057c5 T07057c5 T07057c5 T07057c5 T07057c6	Relationship between tree growth and temperature analyses of tree-ring **Atmospheric pollutants and trace gases** Land/atmosphere exchange of NO ₂ , O ₃ and NH ₃ (dry deposition) Variation of acidic deposition with altitude Rural O ₃ , N ₆ and NO ₂ concentrations Land/atmosphere exchange of methane (proposal) Land/atmosphere exchange of ammonia (proposal) Cloud deposition (proposal) Pollution climate at Dunslair (proposal) Deposition of lead–210 N deposition effects on plant communities (proposal) **Atmospheric pollution modelling and chemistry**	D Fowler D Fowler D Fowler D Fowler D Fowler A Sutton D Fowler A Crossley R Mourne C Pitcairn
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107059111	Throughlan, stemmow and 355 experiment	J N Cape	T01054-2	Ecological effects of forest management	J M Sykes/ A H F Brown
Programme T12056-3	e 12 Atmospheric science and hydrologica Atmospheric chemistry (special topic	l extremes J N Cape	T01054a2	Effects of pure and mixed stands on soils and vegetation	A H F Brown
T12056a3	programme) Atmospheric chemistry Phase I (special	J N Cape	T01054b2	The effects of management in lowland coppices	A H F Brown
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T13054a2	Utilisation of STATUS in ITE libraries cataloguing	S M Adair	T01054h2	Floristics of secondary woodlands and their manipulation (proposal)	J M Sykes
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T13059a2	Glasshouses and nursery support and development	R F Ottley			
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T13059c1 T13059d1 T13059e5	Glasshouse consultancy to IRI (proposal) Apple culture for IRI Controlled environmental facilities at ITE	R F Ottley R F Ottley R Mılne	T02051a2 T02051b1	An ecological survey of Britain The environmental and socio-economic	R G H Bunce M Bell
T13059f2	Edinburgh Operation of the Rivox field site	R Milne	T02051c1	effects of the CAP Countryside implications of changes in CAP	R G H Bunce
T13059g2	Biometrics research and consultancy at ITE Edinburgh	R I Smith	T02051d1	Environmental issues, agriculture and forestry land use options in Devon	R G H Bunce
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			T0205112	Data base of research sites	M A Booth/ P A Ward
	ERLEWOOD RESEARCH STATION		T02060e5	Review of catchment work in the COST countries (proposal)	M Hornung
	e l Forest science	7 D/L4	T02061h3	The future environmental implications of a	R G H Bunce
T01051-2 T01051a2	Ecology of woodland soil fungi Role of fungi in nutrient cycling with special reference to Mycena galopus in	J Dighton J C Frankland		possibly less intensive agricultural industry in England and Wales	
T01051b2	forest soil An assessment of the status of mycorrhizas in the soil ecosystem	J Dighton	T02064-5	Environmental impact assessment – ITE(N) Merlewood	J M Sykes
T01051c2	Faunal/microbial interactions related to nutrient cycling and agricultural stocking of the uplands	J C Frankland	T02064a1	Botanical survey - British Gas Barrow onshore terminal (proposal)	J M Sykes
T01052-5	Soil nutrient dynamics	A F Harrison		7 Environmental pollution	_
T01052a5 T01052b2	A comparison of biological and chemical assessments of the fertility of soils Cycling of key nutrients in forest soils and	A F Harrison A F Harrison	T07050-5 T07050al	Radionuclides in vegetation and soil The distribution and dynamics of radionuclides in relation to land use in	A D Horrill A D Horrill
T0105252	their inter-relationships Field methods in terrestrial nutrient	A F Harrison	T07050b2	west Cumbria The concentrations and movement of	Ā D Homil
T01052d1	cycling studies (proposal) Effects of vitamin addition on nutrient	J Dighton	10100025	americium in a coastal ecosystem in Cumbria	11 2 1101111
T01052e5	mineralisation Assessment of P & K fertiliser responses of	A F Harrison	T07050cl	Post-Chernobyl radiation levels in soils and vegetation	G R Mıller/ A D Hornil
T01052f5	Sitka spruce (proposal) Assessment of P-deficiency in Sitka	A F Harrison	T07050d1	Radioactivity and wildlife a desk study	A D Hornil/ V H Kennedy
T01052gl	spruce, Pen-y-bont, Wales (proposal) Application of nutrient bioassays to Eucalyptus forest management	J Dighton	T07050e1 T07050f1	Evaluation of data on the transfer of radionuclides in the foodchain (proposal) The influence of mycorrhizas, potassium	A D Horrill A F Harrison
T01052h1	Investigation of nutrient deficiency of citrus plantations in Cheju, Korea (proposal)	J Dighton	10103011	nutrition and microbial activity on radiocaesium cycling in heather-dominated ecosystems	A F Harrison
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T01053b5	Nutrient cycling in European forests	P Ineson	T07051-5	Radionuclide/animal transfers	B J Howard
	(proposal)		T07051al	Sheep feeding trials	B J Howard
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505050 5	Construction of a Homelite	77 D 71	M0000000	Not and a second of a stand of a second or a	M G M
T07052-5 T07052a5	Geochemistry of radionuclides Relationships between soil organic matter and the actinide elements (actinides in	FR Livens FR Livens	T09056g5	National survey of natural ecosystems in Korea (proposal)	M G Moms
T07052b2	soil organic matter) Terrestrial geochemistry of transuranic elements	A S Hursthouse	Programme T10055g3	10 Environmental microbiology Modelling intra- and interspecific	F Sanders/
T07052cl T07052d2	Radionuclides in freshwater systems Radiochemical development	FR Livens FR Livens	, and the second	competition of ectomycorrhizal fungi on tree root systems	J Dighton
T07053-5 T07053a1	Soil microbial response to pollutants Effects of forest furnigation with SO ₂ and O	P Ineson 3 J Dighton	Programme	13 Scientific services	
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T07054d1	Subcontract to Lancaster University	M Hornung/ T A Mansfield	11000011	organisations) II I dikubon
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T07054f5	Solutes beneath larch and Sitka spruce at three sites (proposal)	J K Adamson	T13057_5	Merlewood scientific support services	D K Lindley
T07055h3	Effects of elevated inputs of nitrogen on	G R Stewart/	T13057a2 T13057b2	Graphics and publications Biometrics and modelling support services	C B Benefield D K Lindley
T07055k3	the uptake metabolism, retention and allocation of nitrogen in tree crops Interaction of enhanced N loading on soil	A F Harnson M Hornung	T13057c1	at Merlewood ITE advice and services to NCC	J M Sykes
10105585	nutrient dynamics and forest growth	M Hornang			
T07056f2 T07056g2	Phenology in the spring of 1989 (proposal) Modelling the impact of climatic change on the productivity, species composition,	J M Sykes P Ineson/ A F Harrison			
	and decomposition in a UK mixed deciduous forest (proposal)			ICHORY RESEARCH STATION 2 Land use, agriculture and the environs	nent
T07056h2	Evaluating the response of upland organic soils to CO ₂ -induced climatic change	P Ineson	T02050-5 T02050al	Human impact, erosion rehabilitation Human impact in the Cairngorms	A Watson A Watson
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	induced climatic change on forest decomposition processes (proposal)		T02050f2	Yorkshire Dales National Park Committee Soil erosion on north-east Scottish	A Watson
T07066-3	Environmental radioactivity (special	V H Kennedy	T02050g1	farmland Effects of past management on the	G R Miller
T07066b3	topic programme) Uptake of radiocaesium by plants and the role of mycorrhizal fungi in mediating	J Dighton	F7000F01-1	potential of upland soils to support plant growth (proposal)	N C Destald
T07066c3	uptake Effects of sward conditions on	R Mayes/	T02050h1 T02050 ₁ 1	Restoration of upland vegetation Path revegetation trials on the Pennine Way	N G Bayfield N G Bayfield/ G R Miller
	radiocaesium cycling in hill and upland sheep systems	B J Howard	T0205011	Environmental impact assessment of Intake 8 (proposal)	N G Bayfield
T07066d3	Dynamic modelling of pathways for radionuclides from the atmosphere to	M H Unsworth/ B J Howard	T02050m2	Manipulation of plant successions on disturbed ground (proposal)	N G Bayfield
T07066g3	grazing animals Migration and retention of radionuclides in soils	A G O Donnell/ D Rimmer/ P Ineson	T02050n1	Erosion control on the North/South Highway, Malaysia (proposal)	N G Bayfield
Programme		D I Pagan	Programme T07050c1	7 Environmental pollution Post-Chernobyl radiation levels in soils	G R Miller/
T08050g2 T08052_5	Population genetics of mute swans Plant strategies: response to	P J Bacon T V Callaghan		and vegetation	A D Hornll
T08052a2	environmental stress Plant responses to environmental stress at		T07056c5	Summer and autumn snow patches on Scottish mountains in relation to climate	A Watson
T08052b5	high latitudes Strategies of growth and population	T V Callaghan	Programma	8 Population ecology	
	dynamics of fundra plants related to climatic change		T08050-5	Vertebrate population dynamics and upland habitat geometry	R Moss
Programme T09053b2	9 Community ecology Farm woodland – primary and secondary	I M Sylva	T08050a2 T08050b5	Population dynamics of red grouse Demographic effects of nest predation on	R Moss R A Parr
70	effects of tree planting on soil (proposal)	J M Sykes		golden plovers and other moorland waders	

T08050c5 T08050d1	Population ecology of capercaillie Effects of afforestation on moorland birds	R Moss R A Parr	T09050c2	Development of subalpine scrub at northern Corries, Cairngorms SSSI	G R Miller
10000041	and their predators		T09050d1	Response of Gentiana nivalis population to	G R Miller
T08050e1	Park Hall grazing survey (proposal)	R Moss		withdrawal of sheep grazing	
T08050f5	Adaptation of capercaillie to novel	R Moss	T09050e1	Modelling the agricultural and	B W Staines/
	environments (proposal)			environmental consequences of sheep and	D Welch
				red deer grazing heather moorland	
T08051-5	Population ecology of predators	H Kruuk		(proposal)	
T08051a2	Herons and pollutants in aquatic	M Marquiss	T09050f2	Vegetation dynamics and soils	J Mıles
	ecosystems		T09050g2	The effects of birch on moorland soils and	J Miles
T08051b2	Occurrence of some heavy metals and	H Kruuk		vegetation	
	PCBs in otters in Shetland		T09050h2	Early changes in soils under birch and	A J Ramsay
T08051c5	The effects of environmental factors on	H Kruuk		heather	
	populations of otters and fish in the north		T0905012	Dynamics of Macchia (proposal)	J Miles
	of Scotland		T09050 ₃ 5	Effects of sheep withdrawal on upland	R Moss
T08051d5	Piscivorous birds in Scottish salmon rivers	M Marquiss		vegetation and wildlife (flora and fauna)	
T08051e5	Ecology of the pine marten	D Balharry		and landscape	
T08051f5	Effect of water temperature on the	P S Taylor	T09050k2	Deer in production forests	B W Staines/
	behaviour and ecology of the European		тосополо	P 404	D Welch
maaan	otter (Lutra lutra)	14 D II	T0905012	Response of Sitka spruce to browsing and	D Welch/
T08051h5	Monitoring of seabird populations and	M P Harns		bark-stripping damage	B W Staines
T0805112	performance in the North Sea	M P Harns			
10800112	Feeding ecology and energetics of high- and low-latitude shags	W F name	Dromamme	e 13 Scientific services	
	and low-landuce snags		T13053-5	Services at ITE Banchory	B W Staines
			T13053a1	Ecological advisory appointment with SDD	I Miles
Programme	9 Community ecology		T13053b5	Caring for the high mountains –	J W H Conroy
T09050-5	Dynamics of upland and montane plant	G R Miller	11000020	conservation of the Carrigorms	, W II COILO
200000	communities		T13053c1	Brathens consultancies	B W Staines
T09050a2	Quantity and quality of seeds produced by	G R Miller	T13053d2	Computing and statistical advice	D D French
	montane plants		T13053e1	Scottish Office consultancy	I Miles
T09050b5	Effects of grazing on Nardus and Calluna	D Welch		·	,

moorland

Appendix 3 Publications by ITE staff in 1988–89

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- **Bell, M.** 1988 Integration and evaluation of rural policy in a period of rapid change. In *Rural information for forward planning*, edited by R. G. H. Bunce & C. J. Barr., 33-39. (ITE symposium no 21.) Grange-over-Sands. Institute of Terrestrial Ecology.
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- **Brown, N J & Norris, D A.** 1988 Early applications of geographical information systems at the Institute of Terrestrial Ecology *Int J geogr Inf Systems, 2,* 153-160
- **Bull, K R.** 1988 Classification models and water resource planning in *Rural information for forward planning*, edited by R G H Bunce & C J Barr, 82-84 (ITE symposium no 21) Grange-over-Sands Institute of Terrestrial Ecology
- **Bull, K R, Hall, J R & Bunce, R G H.** 1988 The use of physical parameters for selecting representative samples of river catchments *J environ Manage*, **27**, 405-420
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