

1990 LOCH SURVEY WEST ROSS

Code.. NG9433 Name. Loch Dughais Grid Ref NG995470 ...
 Date... 14th September '90 Surveyors.. LA.. IB Estate. Achnashellach ...
 Area.. 120.9 ...ha Altitude 30m Catchment. 10,025 ...ha Geology. PR, Ms ...
 Water Colour.. Brown Clarity. clear Boat used. Secchi disk depth.
 Loch type 3 Edge types(s)..... S9|2
 Status..... Access..... 1 Road/houses Present (underline)
 Land Use Σ Open Water..... 2 Semi-natural..... 93 Forestry..... 5 Agriculture.....
 (218.65) 460

Substrate types (underline main type tick others present)

<input checked="" type="checkbox"/> Bedrock	<input checked="" type="checkbox"/> Sand (0.1 - 4 mm diam.)
<input type="checkbox"/> Boulders (>30 cm max diam.)	<input checked="" type="checkbox"/> Silt (< 0.1mm diam.)
<input checked="" type="checkbox"/> Stones (5-30cm diam.)	<input type="checkbox"/> Organic mud
<input checked="" type="checkbox"/> Gravel (4-50mm diam.)	<input checked="" type="checkbox"/> Peat
	<input type="checkbox"/> Artificial embankment

Uses and Damage

USE	AREA AFFECTED	DAMAGE
Water abstraction	.....	.....
Sewage inflow <input checked="" type="checkbox"/> <u>Waste water inflow from Achnashellach</u> .....	.....
Agricultural pollution	.....	.....
Edge trampling	.....	.....
Adjacent forestry	.....	.....
Fishing (Edge/boat) <input checked="" type="checkbox"/> <u>boats x 4</u> .....	.....
	..... <u>litter</u> .....	.....

Fauna	Mammals	Reptiles	Dragonflies	Fish
Birds		Amphibians	and other Invertebrates	Trout
<u>2 mallards</u>				
<u>Pied wagtail</u>				
<u>Grey wagtail</u>				

Species diversity

Edge: <u>19</u>	Alkalinity.....
Open Water..... <u>16</u>	Conductivity.... <u>34 μS</u>
Total..... <u>33</u>	pH..... <u>6.14</u>

Rare Species
 National Subularia aquatica
Elatine hexanervis
 Rare in River Purification Board

Site name... hoo.w. Pinguicula ... of NG99SH70 NO. NG99433...

NHCH

EMERGENT AND EDGE SPECIES:

Map code	DAFOR	Map code	DAFOR
1319 Myl	Myosotis laxa	1319 Myl	Myosotis laxa
1323 Masc	Myosotis secunda	1323 Masc	Myosotis secunda
1322 Masc	Myosotis scorpioides	1322 Masc	Myosotis scorpioides
1348 Mas	Nasturtium officinale	1348 Mas	Nasturtium officinale
1363 Oc	Onanthe crocata	1363 Oc	Onanthe crocata
1366 Ol	Onanthe lachenalii	1366 Ol	Onanthe lachenalii
1454 Pa	Phalaris arundinaceae	1454 Pa	Phalaris arundinaceae
1465 Pha*	Phragmites australis	1465 Pha*	Phragmites australis
1521 Pam	Polygonum amphibium	1521 Pam	Polygonum amphibium
1592 Pop	Potentilla palustris	1592 Pop	Potentilla palustris
1651 RL	Ranunculus flammula	1651 RL	Ranunculus flammula
1653 Rh	Ranunculus hederaceus	1653 Rh	Ranunculus hederaceus
1655 RL*	Ranunculus lingua	1655 RL*	Ranunculus lingua
1851 Sl	Scirpus lacustris	1851 Sl	Scirpus lacustris
1860 Sm	Scirpus maritimus	1860 Sm	Scirpus maritimus
1852 St*	Scirpus tabernaemontanae	1852 St*	Scirpus tabernaemontanae
1981 Sper	Sparganium erectum	1981 Sper	Sparganium erectum
1983 Spera	Sparganium emersum	1983 Spera	Sparganium emersum
2111 Tl*	Typha latifolia	2111 Tl*	Typha latifolia
2163 Vaa*	Veronica anagallis-aquatica	2163 Vaa*	Veronica anagallis-aquatica
2166 Vb	Veronica beccabunga	2166 Vb	Veronica beccabunga
2179 Vs	Veronica scutellata	2179 Vs	Veronica scutellata
713 Ef	Equisetum fluviatile	713 Ef	Equisetum fluviatile
717 Ep	Equisetum palustre	717 Ep	Equisetum palustre
	Species total		7
	Other edge species		
361 Cxd	Carex demissa	361 Cxd	Carex demissa
370 Cxe	Carex echinata	370 Cxe	Carex echinata
400 Cxcp	Carex panicea	400 Cxcp	Carex panicea
401 Cxpa	Carex paniculata	401 Cxpa	Carex paniculata
882 Gp	Gallium palustre	882 Gp	Gallium palustre
1891 Sa	Senecio aquaticus	1891 Sa	Senecio aquaticus
2102 Tp	Triglochin palustris	2102 Tp	Triglochin palustris
2215 Vp	Viola palustris	2215 Vp	Viola palustris
	Species total		0

SUBMERGED AND FLOATING SPECIES:

Map code	DAFOR	Map code	DAFOR
303 Cah	Callitriche hamulata	303 Cah	Callitriche hamulata
307.13Cpl*	Callitriche platycarpa	307.13Cpl*	Callitriche platycarpa
307 Cas	Callitriche stagnalis	307 Cas	Callitriche stagnalis
671 Ela	Elatine hexandra	671 Ela	Elatine hexandra
681 Ec	Elodea canadensis	681 Ec	Elodea canadensis
Fon	Fontinalis antipyretica	Fon	Fontinalis antipyretica
981 Hip	Hippuris vulgaris	981 Hip	Hippuris vulgaris
999 Hyd	Hydrocotyle vulgaris	999 Hyd	Hydrocotyle vulgaris
Isb	Isoetes brochoni	Isb	Isoetes brochoni
1043 Ise*	Isoetes echinospora	1043 Ise*	Isoetes echinospora
1045 Isl	Isoetes lacustris	1045 Isl	Isoetes lacustris
1058 Jb	Juncus bulbosus var. fluitans	1058 Jb	Juncus bulbosus var. fluitans
1126 Lm*	Lemna minor	1126 Lm*	Lemna minor
1175 Lit	Littorella uniflora	1175 Lit	Littorella uniflora
1177 Lob	Lobelia Dortmanna	1177 Lob	Lobelia Dortmanna
1330 Mal	Myriophyllum alterniflorum	1330 Mal	Myriophyllum alterniflorum
1331 Msp	Myriophyllum spicatum	1331 Msp	Myriophyllum spicatum
1356 Nul*	Nuphar lutea	1356 Nul*	Nuphar lutea
1358 Na	Nymphaea alba	1358 Na	Nymphaea alba
1357 Nup*	Nuphar pumila	1357 Nup*	Nuphar pumila
1474 Pil*	Pilularia globulifera	1474 Pil*	Pilularia globulifera
1521 Pam	Polygonum amphibium	1521 Pam	Polygonum amphibium
Ph	Polygonum hydropiper	Ph	Polygonum hydropiper
1558 Pal	Potamogeton alpinus	1558 Pal	Potamogeton alpinus
1559 Pbe	Potamogeton bertholdii	1559 Pbe	Potamogeton bertholdii
1568 Pgr	Potamogeton gramineus	1568 Pgr	Potamogeton gramineus
1570 Pn	Potamogeton natans	1570 Pn	Potamogeton natans
1571 Pxn	Potamogeton x nitens	1571 Pxn	Potamogeton x nitens
1573 Pob*	Potamogeton obtusifolius	1573 Pob*	Potamogeton obtusifolius
1574 Ppec*	Potamogeton pectinatus	1574 Ppec*	Potamogeton pectinatus
1575 Pper	Potamogeton perfoliatus	1575 Pper	Potamogeton perfoliatus
1576 Ppol	Potamogeton polygonifolius	1576 Ppol	Potamogeton polygonifolius
1577 Ppra**	Potamogeton praelongus	1577 Ppra**	Potamogeton praelongus
1578 Ppu*	Potamogeton pusillus	1578 Ppu*	Potamogeton pusillus
	Species total		6

* species requiring special protection within the HRPB area (Palmer & Newbold 1977)

** species occurring in less than 100 10 x 10 km squares in Great Britain.

EMERGENT AND EDGE SPECIES:

Map code	DAFOR	Map code	DAFOR
139 Ags	Agrostis stolonifera	1319 Myl	Myosotis laxa
137 Apr	Apium nodiflorum	1323 Hsc	Myosotis secunda
140 Cap	Callitriche palustris	1322 Hsc	Myosotis scorpioides
143 Cxa**	Carex aquatilis	1348 Nas	Nasturtium officinale
146 Cxl	Carex lasiocarpa	1363 Oc	Oenanthe crocata
148 Cxll	Carex limosa	1366 Ol	Oenanthe lachenalii
153 Cxn	Carex nigra	1434 Pa	Phalaris arundinacea
154 Caro	Carex rostrata	1465 Pha*	Phragmites australis
156 Cxv	Carex vesicaria	1521 Pam	Polygonum amphibium
157 Cxv	Carex vesicaria	1592 Pop	Potentilla palustris
160 Clv	Cirsium virosa	1651 Rrl	Ranunculus lanamula
163 Clc*	Cladium mariscus	1653 Rh	Ranunculus hederaceus
165 Des**	Deschampsia setacea	1655 Rl*	Ranunculus lingua
174 Elm	Eleocharis multicaulis	1851 Sl	Scirpus lacustris
175 Elp	Eleocharis palustris	1860 Sm	Scirpus asperitimus
177 Elq	Eleocharis quinqueflora	1852 St*	Scirpus tabernaemontanae
178 Elu	Eleocharis uniglumis	1981 Spcr	Sparganium erectum
179 Era	Eriophorum angustifolium	1983 Spem	Sparganium emersum
183 Glf	Glyceria fluitans	2111 Tl*	Typha latifolia
187 Hlp	Hippuris vulgaris	2163 Vaa*	Veronica anagallis-aquatica
189 Hyd	Hydrocotyle vulgaris	2166 Vb	Veronica beccabunga
193 Ip	Iris pseudocorus	2179 Vs	Veronica scutellata
199 Jac	Juncus acutiflorus	713 Ef	Equisetum fluviatile
199 Ja	Juncus articulatus	717 Ep	Equisetum palustre
199 Jb	Juncus bulbosus	Species total	19
199 Jc	Juncus conglomeratus	Other edge species	
199 Je	Juncus effusus	361 Cxd	Carex demissa
199 Lit	Littorella uniflora	370 Cxe	Carex echinata
199 Lyc	Lycopodiella inundata	600 Cxcp	Carex panicea
199 Lyp*	Lythrum portula	401 Cxpa	Carex panicea
199 Lys	Lythrum salicaria	882 Gp	Galium palustre
199 Ma	Mencha aquatica	1891 Sa	Senecio aquaticus
199 Mc	Menyanthes trifoliata	2102 Tp	Trifolium palustris
199 Mg	Mimulus guttatus	2215 Vp	Viola palustris
199 Ml	Mimulus luteus		
199 Ms	Mimulus moschatius		
199 Msp	Mimulus sp.		
199 Mon	Montia fontana		

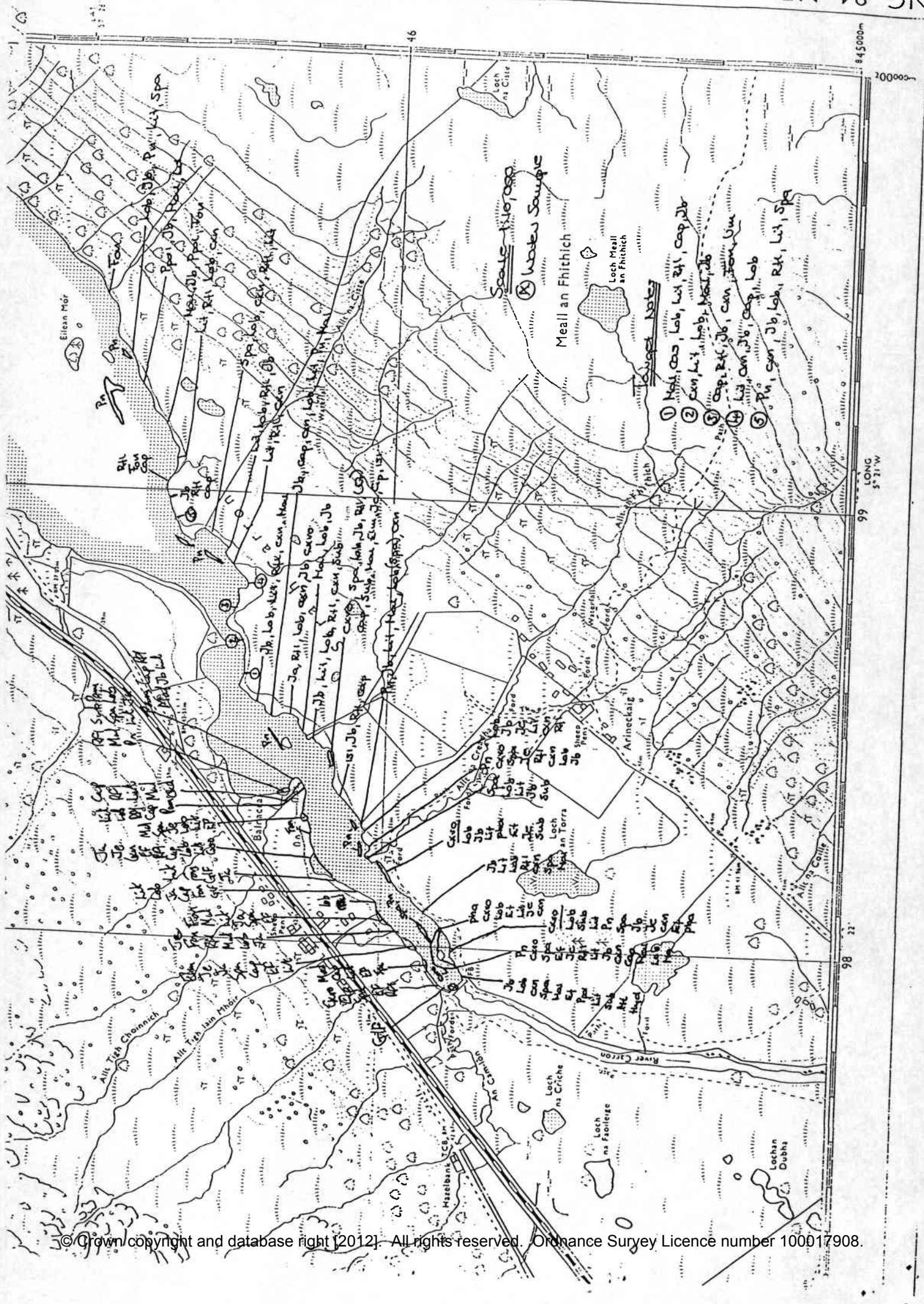
SUBMERGED AND FLOATING SPECIES

Map code	DAFOR	Map code	DAFOR
303 Cah	Callitriche hamulata	1579 Pr**	Potamogeton rutilus
307.13Cpl	Callitriche platycarpa	1582 Pxz	Potamogeton x zizzi
307 Cas	Callitriche stagnalis	1653 Rh*	Ranunculus hederaceus
671 Ela	Elatine hexandra	679 Sf	Scirpus fluitans
681 Ec	Elodea canadensis	1980 Sda	Sparganium angustifolium
Fon	Fontinalis antipyretica	1983 Spem	Sparganium emersum
981 Hip	Hippuris vulgaris	1982 Spal	Sparganium minimum
999 Hyd	Hydrocotyle vulgaris	2020 Sub**	Subularia aquatica
Iab	Isoetes brochonii	2129 Utl	Utricularia intermedia
1043 Ise**	Isoetes echinospora	2130 Um	Utricularia minor
1045 Isl	Isoetes lacustris	4335 Us	Utricularia stygia
1058 Jb	Juncus bulbosus var fluitans	2131 Une	Utricularia neglecta
1126 Lm*	Leana minor	4334 Uo	Utricularia ochroleuca
1175 Lit	Littorella uniflora	2132 Uva	Utricularia vulgaris/australis
1177 Lob	Lobelia dortmanna	2237 Zan*	Zannichellia palustris
1330 Mal	Myriophyllum alterniflorum	Cha	Chara sp
1331 Msp	Myriophyllum spicatum	Mit	Mitella sp
1356 Nul*	Nuphar lutea	Species total	16
1358 Na	Nymphaea alba		
1357 Nup**	Nuphar pumila		
1474 Pila**	Pilularia globulifera		
1521 Pam	Polygonum amphibium		
Ph	Polygonum hydropiper		
1558 Pal	Potamogeton alpinus		
1559 Pbe	Potamogeton bertholdii		
1568 Pgr	Potamogeton gramineus		
1570 Pn	Potamogeton nitens		
1571 Pxn	Potamogeton x nitens		
1573 Pob*	Potamogeton obtusifolius		
1574 Ppec*	Potamogeton pectinatus		
1575 Pper	Potamogeton perfoliatus		
1576 Ppol	Potamogeton polygonifolius		
1577 Ppra**	Potamogeton praelongus		
1578 Ppu*	Potamogeton pusillus		

No Utricularia species identified.

* species requiring special protection within the HRPB area (Palmer & Newbold 1977)

** species occurring in less than 100 10 x 10 km squares in Great Britain.



Scale 1:50,000
 (X) Water Sample

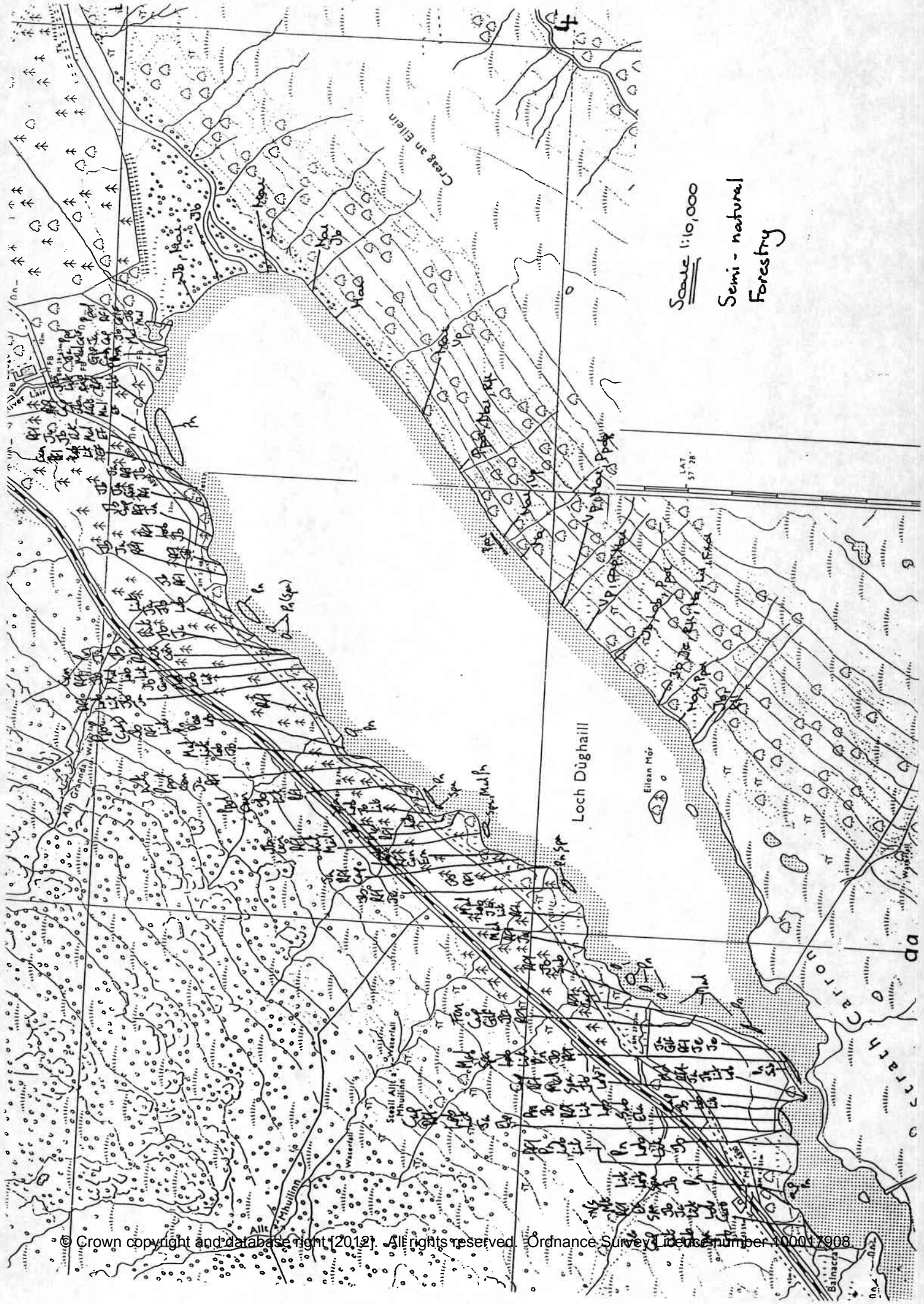
Notes

- ① Mhí, Cas, Lab, Lit, Rk, Cap, Spá
- ② Can, Lit, Lab, Mhí, Spá
- ③ Cap, Rk, Spá, Can, Mhí, Lit
- ④ Lit, Can, Spá, Cap, Lab
- ⑤ Pn, Spá, Lab, Rk, Lit, Spá

99 LONG
 57° 21' W

98 22'

84,500m



Scale 1:10,000
 Semi-natural
 Forestry