1988 INVERNESS DISTRICT
LOCH SURVEY

Loch name NESS Estate UNKNOWN No NH5804

Site code No: 110

Grid reference NH Date surveyed 7/9/88

Loch size 564 ha. Altitude 20 m Surveyor's name SB/IB

Catchment size 17,500 ha. Boat used X Secchi disk depth —

Water colour Colourless Water clarity clear

Loch type 3 Edge type None apart from an area of sg/z in Glenurquhart bay.

Catchment Geology

Substrate types (underline main type tick others present)

✓ Bedrock		✓ Sand	(0.1 - 4mm diam.)
Boulders	(>30cm max diam.)	Silt	(< 0.1mm diam.)
Stones	(5-30cm diam.)	Organic mud	
✓ Gravel	(4-50mm diam.)	Peat	
		✓ Artificial embankment	

Uses and Damage

USE		AREA AFFECTED	DAMAGE
Water abstraction	.....	.....	.....
Sewage inflow	?	.....	.....
Agricultural pollution	✓	Dead sheep	.....
Edge trampling	✓	Paths around parts of shore. Cattle poaching (localised)	
Adjacent forestry	.....	.....	.....
Fishing (Edge/boat)	✓	.....	.....
Shooting (Cartridges)	?	.....	.....
Others Boating, Picknicking (litter)	.....	.....	.....

Fauna

Birds	Mammals	Reptiles Amphibians	Dragonflies and other Invertebrates	Fish
Heron Grey wagtail Mute Swan Mallard				Minnows Trout

Species diversity Conductivity: 40 umhos Detailed water analysis X

Edge: 18 pH: 6.5

Open water 11 Total 29

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Site name ...NESS..... Gr ..... No. .....

Site name ..... Gr ..... No .....

EMERGENT AND EDGE SPECIES:

Map code		DAFOR
*	Alisma plantago-aquatica	F
Ags	Agrostis stolonifera	.....
Bu	Butomus umbellatus	.....
Cap	Caltha palustris	.....
Cxa**	Carex aquatilis	.....
Cxl	Carex lasiocarpa	.....
Cxli	Carex limosa	.....
Cxn *	Carex nigra	LF
Cxro *	Carex rostrata	D
Cxv *	Carex vesicaria	LF
Elm	Eleocharis multicaulis	.....
Elp	Eleocharis palustris	.....
Era	Eriophorum angustifolium	.....
Glf	Glyceria fluitans	.....
Hlp *	Hippuris vulgaris	LA
Hyd	Hydrocotyle vulgaris	.....
Ip	Iris pseudacorus	.....
Ja	Juncus articulatus	.....
Jb	Juncus bulbosus	.....
Jc	Juncus conglomeratus	.....
Je	Juncus effusus	.....
Lit	Littorella uniflora	.....
Lyc	Lycopodiella inundata	.....
Lyp*	Lythrum portula	.....
Ma *	Mentha aquatica	O
Mt	Menyanthes trifoliata	.....
Mg *	Mimmulus guttatus ?	LF
Ml	Mimmulus luteus	.....
Mon	Montia fontana	.....
Myl	Myosotis laxa	.....
Msc	Myosotis scorpioides	.....
Nas	Nasturtium officinale	.....
Oc	Oenanthe crocata	.....
Pa	Phalaris arundinaceae	.....
Pha*	Phragmites australis	.....
Pop *	Potentilla palustris	O
Rfl	Ranunculus flammula	.....
Sl	Scirpus lacustris	.....
St*	Scirpus tabernae-montanae	.....
Sper *	Sparganium erectum	LF
Spem	Sparganium emersum	.....
Tl*	Typha latifolia	.....
Vb	Veronica beccabunga	.....
Vaa*	Veronica anagalis-aquatica	.....
Vs	Veronica scutellata	.....
Ef	Equisetum fluviatile	.....
Ep	Equisetum palustre	.....
	Species total	19
	Other edge species	
Cxd	Carex demissa	.....
Cxe	Carex echinata	.....
Cxp	Carex panicea	.....
Cxpa	Carex paniculata	.....
Sa *	Senecio aquaticus	O
Tp	Triglochin palustris	.....
Vp	Viola palustris	.....

SUBMERGED AND FLOATING SPECIES

Map code		DAFOR
Api*	Apium inundatum	.....
Ba *	Baldellia ranunculoides	.....
Cah	Callitriche hamulata	.....
Cher**	Callitriche hermaphroditica	.....
Cpla	Callitriche platycarpa	.....
Ca5 *	Callitriche stagnalis	LA
Ec	Elodea canandensis	.....
Fon	Fontinalis antipyretica	.....
Hip	Hippuris vulgaris	.....
Hyd	Hydrocotyle vulgaris	.....
Isl	Isoetes lacustris	.....
Iss **	Isoetes setacea	.....
Jb	Juncus bulbosus var fluitans	.....
Lm *	Lemna minor	.....
Lit	Littorella uniflora	.....
Lob	Lobelia dortmanna	.....
Lur	Luronium natans	.....
Mal	Myriophyllum alterniflorum	.....
Msp	Myriophyllum spicatum	.....
Na	Nymphaea alba	.....
Nup **	Nuphar pumila	.....
Pil **	Piluria globulifera	.....
Pam *	Polygonum amphibium	LD
Ph	Polygonum hydropiper	.....
Pal	Potamogeten alpinus	.....
Pbe	Potamogeton berchtoldii	.....
Pcr *	Potamogeton crispus	.....
Pfr **	Potamogeton friesii	.....
Pfil **	Potamogeton filiformis	.....
Pgr	Potamogeton graminus	.....
Pn	Potamogeton natans	.....
Pxn	Potamogeton x nitens	.....
Pob *	Potamogeton obtusifolius	.....
Ppec*	Potamogeton pectinatus	.....
Pper	Potamogeton perfoliatus	.....
Ppra**	Potamogeton praelangus	.....
Ppol	Potamogeton polygonifolius	.....
Ppu *	Potamogeton pusillus	.....
Pr **	Potamogeton rutilus	.....
Pxz	Potamogeton x zizzi	.....
Ra * *	Ranunculus aquatilis sl.	R
RP *	Ranunculus peltatus	.....
Rt *	Ranunculus trichophyllus	.....
Sf	Scirpus fluitans	.....
Spa *	Sparganium angustifolium	LA
Spmi	Sparganium minimum	.....
Sub **	Subularia aquatica	.....
Uti	Utricularia intermedia	.....
Um	Utricularia minor	.....
Uva	Utricularia vulgaris/ australis	.....
Une	Utricularia neglecta	.....
Zan *	Zannichellia palustris	.....
Cha	Chara sp	.....
Nit	Nitella sp	.....
	Species total	11

* Species only found in Glenurquhart bay

* 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.

DAFOR only given for species found exclusively in Glenurquhart bay. Impossible to estimate abundance of other species as only small proportion of loch surveyed

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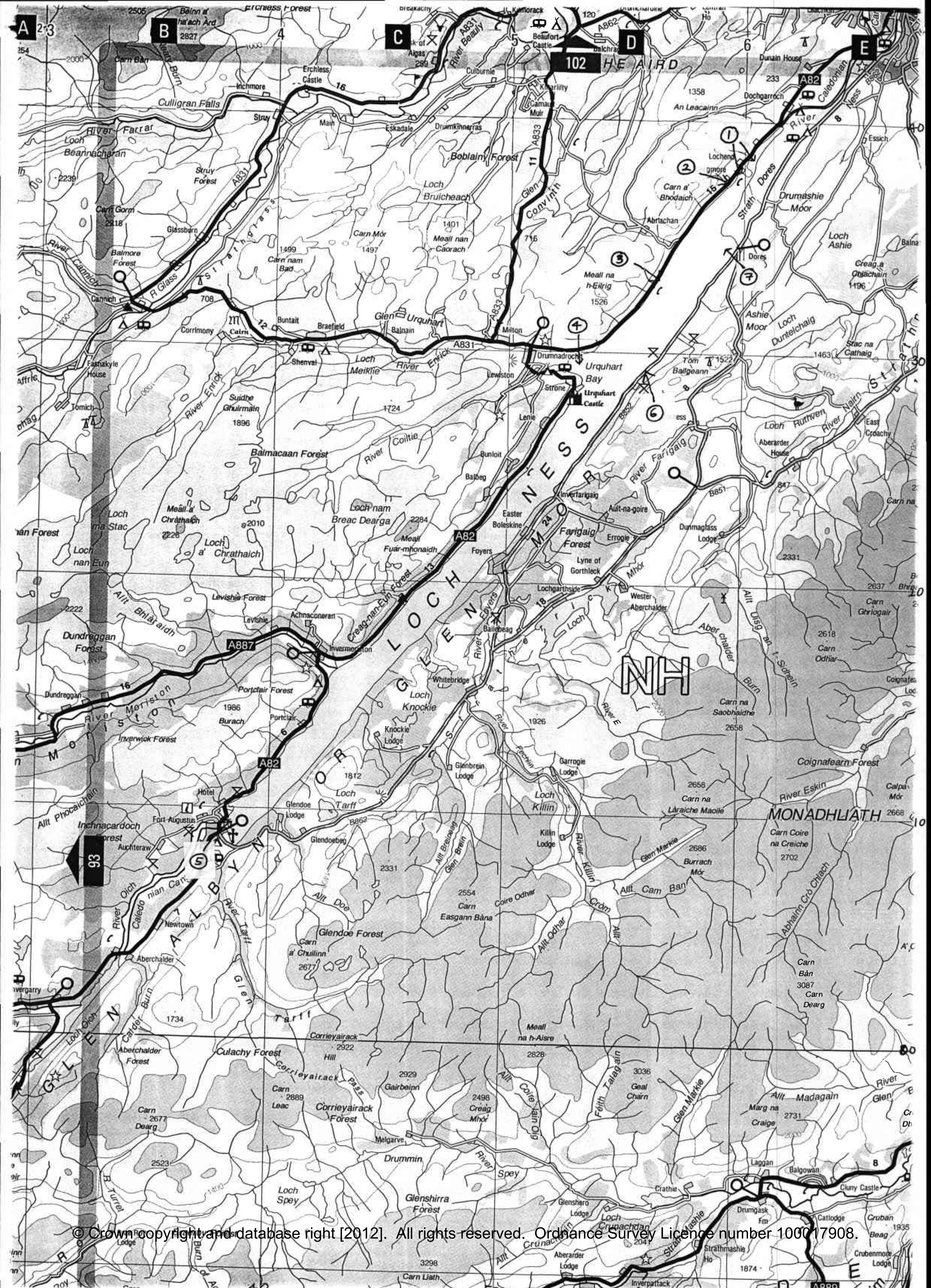

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LOCH NESS - NH 5204 **7.9.88**

Due to the large size of this loch, and the limited time available, it was not surveyed in the usual method.

Several points on the loch shore were visited and the species at that point recorded. The sites visited were those which were the most accessible, and which looked from a map as if they would be sheltered.

1. Bays at Lochend. NH 5937 6937

   This is wave washed gravel and stones.

   Myriophyllum alterniflorum, Isoetes lacustris, Littorella uniflora were washed up.

   Some Ranunculus flammula and Juncus articulatus were found on the shore.

2. NH 585368

   Boulders, stones, bedrock. No vegetation.

3. NH 562330

   A marina has been constructed here. There is little vegetation. In a small, shallow bay, there is Juncus articulatus, Glyceria fluitans and Juncus effusus.

   Stones and boulders are the substrate

4. Urquhart bay NH 52 29

   In the main bay stones are the dominant substrate with occasional Fontinalis antipyretica and Juncus articulatus. Callitriche hamulata was found washed up.

   Around the river inflows is an area of Carex rostrata swamp with: Alisma plantago-aquatica, Phalaris arundinacea, Littorella uniflora Agrostis stolonifera, Myosotis scorpiodies, Callitriche stagnalis, Glyceria flutans, Mimmulus sp (x cupreus has been recorded from here.) Juncus articulatus, J. effusus Ranunculus flammmula, Mentha aquatica, Potamogeton polygonifolius, Filipendula ulmaria, Sparganium erectum subsp. neglectum, Hippuris vulgaris, Caltha palustris, Potentilla palustris, Senecio aquaticus, Scutellaria galericulata, Carex vesicaria, Carex nigra. Ranunculus sp. (Batrachium Ranunculus -only a small, non-flowering part was found making identification impossible.)

   Also present in this bay are:

   Polygonum amphibium (which forms a LD patch), P. cuspidatum (which occurs in the wood), Potamogeton natans (washed up), Myriophyllum alterniflorum, Sparganium angustifolium occurs in the river.

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LOCH NESS (CONTD)

5. Fort Augustus NH 381 093

Stones, sand and boulders

Ranunculus flammula, Littorella uniflora, Juncus articulatus, Phalaris arundinacea, Fontinalis antipyretica

6. NH 557 293

Stones and boulders

Juncus articulatus, Phalaris arundinacea

7. Bay at Dores - NH 5835 5935

Wave washed stony beach.

At Tor Point there is some Phalaris arundinacea, Juncus articulatus, J effusus and Caltha palustris, Isoetes lacustris was found washed up.

A small patch of Montia fontana occurs at NH 598 347.

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