

1988 INVERNESS DISTRICT  
LOCH SURVEY

1205

Loch name AFFRIC Estate GLEN AFFRIC No NH  
 Site code n<sup>o</sup>: 59  
 Grid reference NH 160 203 Date surveyed 15.6.88

Loch size 200 ha. Altitude 200 m Surveyor's name M.S./S.B.

Catchment size 13250 ha. Boat used X Secchi disk depth —

Water colour COLOURLESS Water clarity CLEAR

Loch type 3 Edge type S9/2 crag dominant

Catchment Geology Undifferentiated moine, small amount mica schist  
(Base-poor)

Substrate types (underline main type tick others present)

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

Uses and Damage

USE	AREA AFFECTED	DAMAGE
Water abstraction	.....	.....
Sewage inflow	.....	.....
Agricultural pollution	.....	.....
Edge trampling	<input checked="" type="checkbox"/> Paths around loch	.....
Adjacent forestry	.....	.....
Fishing (Edge/boat)	<input checked="" type="checkbox"/> some litter	.....
Shooting (Cartridges)	.....	.....
Others	Blanket algae coating plants + substrate	
Algae reported as being more abundant this year than in previous years.		

Fauna

- Birds
- Mammals
- Reptiles
- Dragonflies
- Fish
- Oystercatchers
- Amphibians
- and other Invertebrates

Species diversity ..... Conductivity: 25.4 umhos Detailed water analysis   
 Edge: 9 ..... pH: 5.95 .....

Site name AFR.I.C. NH 160 223 NH1205

Gr ..... Mo .....

**EMERGENT AND EDGE SPECIES:**

Map code	DAFOR	Map code	DAFOR
Ags	Agrostis stolonifera	My1	Myosotis laxa
Bu	Butomus umbellatus	Mec	Myosotis scorpiodes
Cap	Caltha palustris	Nas	Nasturtium officinale
Cxa**	Carex aquatilis	Oc	Oenanthe crocata
Cx1	Carex lasiocarpa	Pa	Phalaris arundinaceae
Cx11	Carex limosa	Pha*	Phragmites australis
Cxn	Carex nigra	Pop	Potentilla palustris
Cxro	Carex rostrata	Rf1	Ranunculus flammula
Ckv	Carex vesicaria	S1	Scirpus lacustris
Elm	Eleocharis multicaulis	St*	Scirpus tabernaemontanae
Elp	Eleocharis palustris	Sper	Sparganium erectum
Era	Eriophorum angustifolium	Spem	Sparganium emersum
Gif	Glyceria fluitans	T1*	Typha latifolia
Hlp	Hippuris vulgaris	Vb	Veronica beccabunga
Hyd	Hydrocotyle vulgaris	Vaa*	Veronica anagalis-aquatica
Ip	Iris pseudacorus	Vs	Veronica scutellata
Ja	Juncus articulatus	Ef	Equisetum fluviatile
Jb	Juncus bulbosus	Ep	Equisetum palustre
Jc	Juncus conglomeratus	Species total	
Je	Juncus effusus	Other edge species	9
Lit	Littorella uniflora	Carex demissa	0
Lyc	Lycopodiella inundata	Carex echinata	0
Lyp*	Lythrum portula	Carex panicea	0
Ma	Mentha aquatica	Carex paniculata	0
Mt	Menyanthes trifoliata	Senecio aquaticus	0
Mg	Mammulus guttatus	Triglochin palustris	0
Ml	Mammulus luteus	Viola palustris	0
Mon	Montia fontana		

\* 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.

**SUBMERGED AND FLOATING SPECIES**

Map code	DAFOR	Map code	DAFOR
Api*	Apium inundatum	Pgr	Potamogeton graminus
Ba *	Baldellia ranunculoides	Pn	Potamogeton natans
Cah	Callitriche hamulata	Pxn	Potamogeton x nitens
Cher**	Callitriche hermaphroditica	Pob *	Potamogeton obtusifolius
Cpla	Callitriche platycarpa	Ppec*	Potamogeton pectinatus
Ca5	Callitriche stagnalis	Pper	Potamogeton perfoliatus
Ec	Eloдея canadensis	Ppra**	Potamogeton praelangus
Fon	Fontinalis antipyretica	Ppol	Potamogeton polygonifolius
Hip	Hippuris vulgaris	Ppu *	Potamogeton pusillus
Hyd	Hydrocotyle vulgaris	Pr **	Potamogeton rutilus
Isl	Isoetes lacustris	Pxz	Potamogeton x zizzi
Iss **	Isoetes setacea	Ra *	Ranunculus aquatilis
Jb	Juncus bulbosus var. fluitans	RP *	Ranunculus peltatus
Lm *	Lemna minor	Rt *	Ranunculus trichophyllus
Lit	Littorella uniflora	Sf	Scirpus fluitans
Lob	Lobelia dortmanna	Spa	Sparganium angustifolium/
Lur	Luronium natans	Spm1	Sparganium minimum
Mal	Myriophyllum alterniflorum	Sub **	Subularia aquatica
Msp	Myriophyllum spicatum	Uti	Utricularia intermedia
Na	Nymphaea alba	Um	Utricularia minor
Nup **	Nuphar pumila	Uva	Utricularia vulgaris/australis
Pil **	Pilularia globulifera	Une	Utricularia neglecta
Pam	Polygonum amphibium	Zan *	Zannichellia palustris
Ph	Polygonum hydropiper	Cha	Chara sp
Pal	Potamogeton alpinus	Nit	Nitella sp flexilis
Pbe	Potamogeton berchtoldii	Species-total	
Pcr *	Potamogeton crispus	Scapania	Scapania undulata
Pfr **	Potamogeton friesii		
Pfi **	Potamogeton filiformis		

LF  
 var. flexilis  
 (L. Venet)  
 13  
 J.M.  
 MOORE



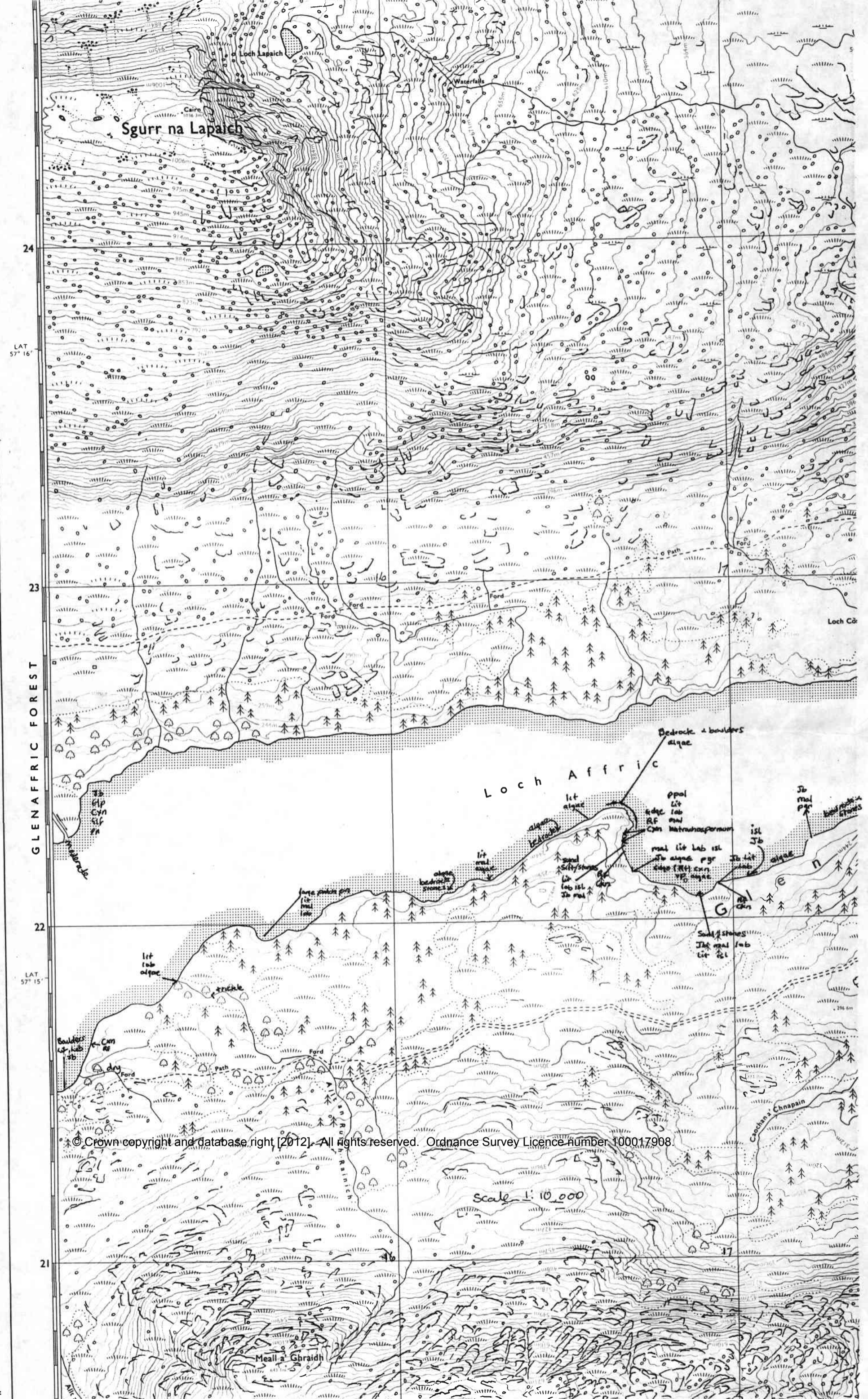
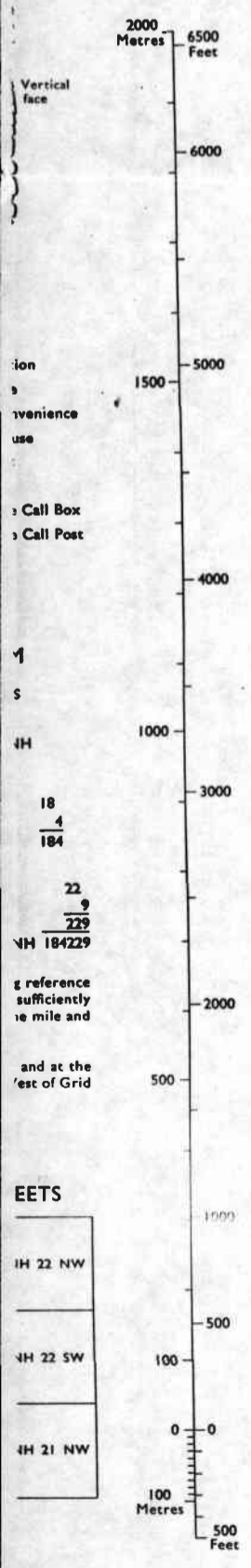


- Standard gauge
  - Coppice
  - Orchard
  - Coniferous trees
  - Non-coniferous trees
  - Lake, loch or pond
  - Sloping masonry
  - Chalk pit, clay pit or quarry
  - Gravel pit
  - Sand pit
  - Disused pit or quarry
  - Triangulation station
- The first appropriate symbol in this list is shown when coincidence of boundaries occurs.

own alternately with one of the mbols above when coincidence boundaries occurs.  
own only when not coincident th other boundaries.

### CONVERSION SCALE

Metres - Feet





22  
Loch Affric

LAT  
57° 15'

INVERNESS CO CONST  
21

Scale 1:10,000

M15 C

**WATER CHEMISTRY INVERNESS-SHIRE LOCHS - 1988**

TOTAL INVERNESS-SHIRE  
SAMPLE OF 34 LOCHS

	Loch ... <u>AFFRIC</u> .....	Sample	Sample
	GR ... <u>NH 160 223</u> .....	mean	range
Potassium K mg/l	..... <u>0.40</u> .....	0.58	0.01-5.19
Calcium Ca mg/l	..... <u>0.82</u> .....	4.66	0.24-26.56
Magnesium Mg mg/l	..... <u>0.50</u> .....	1.35	0.42-5.63
Aluminium Al mg/l	..... <u>0.024</u> .....	0.063	0.024-0.209
Chlorine Cl mg/l	..... <u>3.9</u> .....	9.6	1.0-59.9
Silica Si mg/l	..... <u>1.045</u> .....	1.756	0.109-5.474
Phosphorus P mg/l	..... <u>0.024</u> .....	0.0364	0.0043-0.2429
Phosphate PO <sub>4</sub> mg/l	..... <u>ND*</u> .....	0.002	ND*-0.026
Nitrite NO <sub>2</sub> mg/l	..... <u>0.0030</u> .....	0.0026	ND*-0.0060
Ammonium NH <sub>4</sub> mg/l	..... <u>0.013</u> .....	0.033	ND*-0.243
Alkalinity Ca CO <sub>3</sub> mg/l	..... <u>4.0</u> .....	17.0	ND*-40.0

\*ND - Not determinable