

1993 LOCH SURVEY LOCHABER

Code NN1802 Name LOCH LOCHY Grid Ref. NN190830  
 Date 25/8/93 Surveyors OLL Estate.....  
 Area.....ha Altitude 30 m Catchment 37723 ha Geology I.....  
 Water colour COLOURLESS Clarity CLEAR Boat used / Secchi disc depth / m  
 Loch type 3 Edge type(s) S9(2) S10/2 S11/2.....  
 Status..... Access 1 Road/houses present (underline)  
 Land use % Open water 4? Semi-natural 89? Forestry 5? Agriculture 0..

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      | ...           | <u>LOCK SYSTEM FOR CALEDONIAN CANAL</u> |
| Sewage inflow          | .....         | .....                                   |
| Agricultural pollution | .....         | .....                                   |
| Edge trampling         | .....         | .....                                   |
| Adjacent forestry      | .....         | <u>CLEAR FELLED AREAS ON N.W. SHORE</u> |
| Fishing (Edge/boat)    | .....         | .....                                   |
| Shooting               | .....         | .....                                   |
| <u>LITTER</u>          | .....         | <u>ALONG SHORELINE DRUNK CANS PAPER</u> |

FAUNA

| Birds | Mammals | Reptiles<br>Amphibians                | Dragonflies<br>& other inverts | Fish |
|-------|---------|---------------------------------------|--------------------------------|------|
|       |         | <u>FROG</u><br><u>Rana temporaria</u> |                                |      |

Species diversity

Edge.....18.....  
 Open water.....12.....  
 Total.....28.....

Water Chemistry

Alkalinity.....0.052.....  
 Conductivity.....79.0.....  
 p.H.....6.50.....

RARE SPECIES

Rare in RPB area spa

National

OLL 6/93

1993 LOCHABER LOCH SURVEY: AQUATIC PLANT SPECIES LIST

EMERGENT & EDGE SPECIES Site name LOCH LOCHY..... Grid ref. NN190870 Code. NN1802

| MC   | S  | Species                  | DAFOR | DOMIN | MC   | S  | Species                        | DAFOR | DOMIN |
|------|----|--------------------------|-------|-------|------|----|--------------------------------|-------|-------|
| Ags  |    | Agrostis stolonifera     | LF.   | ..... | Oc   |    | Oenanthe crocata               | ..... | ..... |
| Apn  | #  | Apium nodiflorum         | ..... | ..... | Of   | @  | Oenanthe fistulosa             | ..... | ..... |
| Ber  | #@ | Berula erecta            | ..... | ..... | Ol   |    | Oenanthe lachenalii            | ..... | ..... |
| Bm   |    | Bolboschoenus maritimus  | ..... | ..... | Pan  |    | Persicaria amphibia            | ..... | ..... |
| Cap  |    | Caltha palustris         | LF.   | ..... | Pha  |    | Phalaris arundinacea           | LA.   | ..... |
| Cxat | #@ | Carex acuta              | ..... | ..... | Phr  | #@ | Phragmites australis           | ..... | ..... |
| Cxaf | #@ | Carex acutiformis        | ..... | ..... | Pop  |    | Potentilla palustris           | LA.   | ..... |
| Cxa  | ++ | Carex aquatilis          | ..... | ..... | Rfl  |    | Ranunculus flammula            | LA.   | ..... |
| Cxl  |    | Carex lasiocarpa         | ..... | ..... |      |    | ssp. flammula                  |       |       |
| Cxli |    | Carex limosa             | ..... | ..... |      |    | ssp. minimus                   |       |       |
| Cxn  |    | Carex nigra              | ..... | ..... |      |    | ssp. scoticus                  |       |       |
| Cxpc | #  | Carex pseudocyperus      | ..... | ..... | Rh   |    | Ranunculus hederaceus          | ..... | ..... |
| Cxri | #@ | Carex riparia            | ..... | ..... | Rs   | #  | Ranunculus sceleratus          | ..... | ..... |
| Cxro |    | Carex rostrata           | LA.   | ..... | Rl   | #@ | Ranunculus lingua              | ..... | ..... |
| Cxv  |    | Carex vesicaria          | LD.   | ..... | Rna  |    | Rorippa nasturtium-aquaticum   | ..... | ..... |
| Ca   | #  | Catabrosa aquatica       | ..... | ..... | Rxaq | #+ | Rumex aquaticus                | ..... | ..... |
| Cd   | #@ | Ceratophyllum demersum   | ..... | ..... | Rxh  | #@ | Rumex hydrolapathum            | ..... | ..... |
| Civ  | +  | Cicuta virosa            | ..... | ..... | Sv   | #  | Samolus valerandi              | ..... | ..... |
| Clm  | #@ | Cladium mariscus         | ..... | ..... | Sp   | ++ | Scheuchzeria palustris         | ..... | ..... |
| Des  |    | Deschampsia setacea      | ..... | ..... | Sl   |    | Schoenoplectus lacustris       | ..... | ..... |
| Ela  | ++ | Eleocharis acicularis    | ..... | ..... | St   | #@ | Schoenoplectus tabernaemontani | ..... | ..... |
| Elm  |    | Eleocharis multicaulis   | ..... | ..... | Sd   | @  | Solanum dulcamara              | ..... | ..... |
| Elp  |    | Eleocharis palustris     | LD.   | ..... | Sper |    | Sparganium erectum(4ssp)       | ..... | ..... |
| Elq  |    | Eleocharis quinqueflora  | ..... | ..... | Spem |    | Sparganium emersum             | ..... | ..... |
| Elu  |    | Eleocharis uniglumis     | ..... | ..... | Stp  | @  | Stellaria palustris            | ..... | ..... |
| Eqs  |    | Equisetum fluviatile     | R.    | ..... | Ta   | @  | Typha angustifolia             | ..... | ..... |
| Eqr  |    | Equisetum palustre       | LD.   | ..... | Tl   | #  | Typha latifolia                | ..... | ..... |
| Era  |    | Eriophorum angustifolium | ..... | ..... | Vaa  | #  | Veronica anagallis-aquatica    | ..... | ..... |
| Gld  |    | Glyceria declinata       | ..... | ..... | Va   |    | Veronica beccabunga            | ..... | ..... |
| Glf  |    | Glyceria fluitans        | LF.   | ..... | Vc   | @  | Veronica catenata              | ..... | ..... |
| Glp  | #@ | Glyceria notata          | ..... | ..... | Vs   |    | Veronica scutellata            | ..... | ..... |
| Hlp  |    | Hippuris vulgaris        | ..... | ..... |      |    |                                |       |       |
| Hyd  |    | Hydrocotyle vulgaris     | ..... | ..... |      |    |                                |       |       |
| He   | #  | Hypericum elodes         | ..... | ..... |      |    |                                |       |       |
| Ip   |    | Iris pseudacorus         | ..... | ..... |      |    |                                |       |       |
| Jac  |    | Juncus acutiflorus       | ..... | ..... |      |    |                                |       |       |
| Jaa  | ++ | Juncus alpinoarticulatus | ..... | ..... |      |    |                                |       |       |
| Ja   |    | Juncus articulatus       | LD.   | ..... |      |    |                                |       |       |
| Jb   |    | Juncus bulbosus          | LF.   | ..... |      |    |                                |       |       |
| Jc   |    | Juncus conglomeratus     | ..... | ..... |      |    |                                |       |       |
| Je   |    | Juncus effusus           | LF.   | ..... |      |    |                                |       |       |
| Lit  |    | Littorella uniflora      | LD.   | ..... |      |    |                                |       |       |
| Lyc  |    | Lycopodiella inundata    | ..... | ..... |      |    |                                |       |       |
| Lyt  | +  | Lysimachia thyrsoflora   | ..... | ..... |      |    |                                |       |       |
| Lyp  | #  | Lythrum portula          | ..... | ..... |      |    |                                |       |       |
| Lys  |    | Lythrum salicaria        | ..... | ..... |      |    |                                |       |       |
| Ma   |    | Mentha aquatica          | LF.   | ..... |      |    |                                |       |       |
| Nt   |    | Nepenthes trifoliata     | ..... | ..... |      |    |                                |       |       |
| Nm   |    | Nimulus moschatus        | ..... | ..... |      |    |                                |       |       |
| Ng   |    | Nimulus guttatus         | ..... | ..... |      |    |                                |       |       |
| Nl   |    | Nimulus luteus           | ..... | ..... |      |    |                                |       |       |
| Ni   |    | Nimulus sp.              | ..... | ..... |      |    |                                |       |       |
| Non  |    | Montia fontana (4ssp)    | ..... | ..... |      |    |                                |       |       |
| Nyl  |    | Nyosotis laxa            | ..... | ..... |      |    |                                |       |       |
| Msec |    | Nyosotis secunda         | ..... | ..... |      |    |                                |       |       |
| Msc  |    | Nyosotis scorpioides     | ..... | ..... |      |    |                                |       |       |
| Mst  | +  | Nyosotis stolonifera sp  | LF.   | ..... |      |    |                                |       |       |

Other edge species  
 Cxd Carex viridula ssp oedocarpa (C.demissa)  
 Cxe Carex echinata  
 Cxp Carex panicea  
 Cxpa Carex paniculata  
 Gp Galium palustre LF  
 Gr Geum rivale  
 Sa Senecio aquaticus  
 Tp Triglochin palustre (T.palustris)  
 Vp Viola palustris

SURROUNDING LAND USE =  
 coniferous forest - various  
 open + 'A' wood.

1993 LOCHABER LOCH SURVEY: AQUATIC PLANT SPECIES LIST

SUBMERGED & FLOATING SPECIES Site name HRPB Lochy..... Grid ref. NN120870 Code. NN1802

| MC   | S  | Species                               | DAFOR                 | DOMIN           | MC   | S  | Species                               | DAFOR     | DOMIN              |
|------|----|---------------------------------------|-----------------------|-----------------|------|----|---------------------------------------|-----------|--------------------|
| All  | /  | <i>Alisma lanceolatum</i>             | .....                 | .....           | Ppra | #+ | <i>Potamogeton praelongus</i>         | .....     | .....              |
| Apa  | /  | <i>Alisma plantago-aquatica</i>       | .....                 | .....           | Ppu  | /  | <i>Potamogeton pusillus</i>           | .....     | .....              |
| Api  | /  | <i>Apium inundatum</i>                | .....                 | .....           | Pr   | #+ | <i>Potamogeton rutilus</i>            | .....     | .....              |
| Bar  | /  | <i>Baldellia ranunculoides</i>        | .....                 | .....           | Pt   | +  | <i>Potamogeton trichoides</i>         | .....     | .....              |
| Cah  |    | <i>Callitriche hamulata</i>           | <b>LA</b>             | .....           | Pxz  |    | <i>Potamogeton x zizii</i>            | .....     | .....              |
| Cher | #+ | <i>Callitriche hermaphroditica</i>    | .....                 | .....           | Rb   | #+ | <i>Ranunculus baudotii</i>            | .....     | .....              |
| Cpla |    | <i>Callitriche platycarpa</i>         | .....                 | .....           | Rc   | @  | <i>Ranunculus circinatus</i>          | .....     | .....              |
| Cas  |    | <i>Callitriche stagnalis</i>          | .....                 | .....           | Rf   | #@ | <i>Ranunculus fluitans</i>            | .....     | .....              |
| Cra  | *  | <i>Crassula aquatica</i>              | .....                 | .....           | Rh   |    | <i>Ranunculus hederaceus</i>          | .....     | .....              |
| Ela  | #+ | <i>Elatine hexandra</i>               | .....                 | .....           | Ro   | /  | <i>Ranunculus omiophyllus</i>         | .....     | .....              |
| Elh  | +  | <i>Elatine hydropiper</i>             | .....                 | .....           | Rp   | /  | <i>Ranunculus peltatus</i>            | .....     | .....              |
| Ec   |    | <i>Elodea canadensis</i>              | .....                 | .....           | Rpp  | ?  | <i>R. penicillatus</i>                | .....     | .....              |
| Ef   |    | <i>Eleogeton fluitans</i>             | <b>LO</b>             | .....           |      |    | ssp. <i>penicillatus</i>              | .....     | .....              |
| Ese  | #+ | <i>Eriocaulon aquaticum</i>           | .....                 | .....           |      |    | ssp. <i>pseudofluitans</i>            | .....     | .....              |
| Fon  |    | <i>Fontinalis antipyretica</i>        | <b>LD</b>             | .....           | Rtr  | #@ | <i>Ranunculus trichophyllus</i>       | .....     | .....              |
| Gd   | #@ | <i>Groenlandia densa</i>              | .....                 | .....           | Rma  | #@ | <i>Ruppia maritima</i>                | .....     | .....              |
| Hip  |    | <i>Hippuris vulgaris</i>              | .....                 | .....           | Rsp  | #+ | <i>Ruppia cirrhosa</i>                | .....     | .....              |
| Hp   | /  | <i>Hottonia palustris</i>             | .....                 | .....           | Spa  | @  | <i>Sparganium angustifolium</i>       | <b>LA</b> | .....              |
| Hyd  |    | <i>Hydrocotyle vulgaris</i>           | .....                 | .....           | Spem |    | <i>Sparganium emersum</i>             | .....     | .....              |
| Isb  |    | <i>Isoetes bronchii</i>               | .....                 | .....           | Spn  |    | <i>Sparganium natans</i>              | .....     | .....              |
| Isl  |    | <i>Isoetes lacustris</i>              | .....                 | .....           | Sp   | @  | <i>Spirodela polyrhiza</i>            | .....     | .....              |
| Iss  | #+ | <i>Isoetes setacea</i> (echinospora)  | .....                 | .....           | Sub  | #+ | <i>Subularia aquatica</i>             | .....     | .....              |
| Jb   |    | <i>Juncus bulbosus</i> (var fluitans) | <b>LA</b>             | .....           | Uti  | @  | <i>Utricularia intermedia</i>         | .....     | .....              |
| La   | /  | <i>Lemna minor</i>                    | .....                 | .....           | Utm  |    | <i>Utricularia minor</i>              | .....     | .....              |
| Lt   | @  | <i>Lemna trisulca</i>                 | .....                 | .....           | Ua   |    | <i>Utricularia australis</i>          | .....     | .....              |
| Lit  |    | <i>Littorella uniflora</i>            | <b>LD</b>             | .....           | Uo   |    | <i>Utricularia ochroleuca</i>         | .....     | .....              |
| Lob  |    | <i>Lobelia dortmanna</i>              | .....                 | .....           | Us   |    | <i>Utricularia stygia</i>             | .....     | .....              |
| Mal  |    | <i>Myriophyllum alterniflorum</i>     | <b>LA</b>             | .....           | Uva  | @  | <i>Utricularia vulgaris/australis</i> | <b>LA</b> | ..... 75           |
| Msp  |    | <i>Myriophyllum spicatum</i>          | .....                 | .....           | Uts  |    | <i>Utricularia</i> spp.               | .....     | ..... 75           |
| Nf   | #+ | <i>Najas flexilis</i>                 | .....                 | .....           | Zan  | #@ | <i>Zannichellia palustris</i>         | .....     | .....              |
| Nul  | /  | <i>Nuphar lutea</i>                   | .....                 | .....           | Zoa  | #+ | <i>Zostera angustifolia</i>           | .....     | .....              |
| Nup  | #+ | <i>Nuphar pumila</i>                  | .....                 | .....           | Zom  | #+ | <i>Zostera marina</i>                 | .....     | .....              |
| Na   |    | <i>Nymphaea alba</i>                  | .....                 | .....           | Zon  | #+ | <i>Zostera noltii</i>                 | .....     | .....              |
|      |    | ssp. <i>alba</i>                      | .....                 | .....           | Cha  |    | <i>Chara</i> sp.                      | .....     | .....              |
|      |    | ssp. <i>occidentalis</i>              | .....                 | .....           | Nit  |    | <i>Nitella</i> sp. <i>opaca</i> ♀     | <b>LF</b> | ..... Spec No. 692 |
| Pil  | #+ | <i>Pilularia globulifera</i>          | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pan  |    | <i>Persicaria amphibia</i>            | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Ph   |    | <i>Persicaria hydropiper</i>          | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pal  |    | <i>Potamogeton alpinus</i>            | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pbe  |    | <i>Potamogeton bertholdii</i>         | <b>R.</b>             | Spec No 14/93   |      |    | .....                                 | .....     | .....              |
| Pcr  | /  | <i>Potamogeton crispus</i>            | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pcol | #+ | <i>Potamogeton coloratus</i>          | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pfil | #+ | <i>Potamogeton filiformis</i>         | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pfr  | #+ | <i>Potamogeton friesii</i>            | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pgr  |    | <i>Potamogeton gramineus</i>          | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Plu  | #@ | <i>Potamogeton lucens</i>             | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pn   |    | <i>Potamogeton natans</i>             | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pxn  |    | <i>Potamogeton x nitens</i>           | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pob  | /  | <i>Potamogeton obtusifolius</i>       | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Ppec | /  | <i>Potamogeton pectinatus</i>         | .....                 | .....           |      |    | .....                                 | .....     | .....              |
| Pper |    | <i>Potamogeton perfoliatus</i>        | <b>LO + washed up</b> | Spec. No. 15/93 |      |    | .....                                 | .....     | .....              |
| Pool |    | <i>Potamogeton polygonifolius</i>     | <b>LF</b>             | .....           |      |    | .....                                 | .....     | .....              |

Key:  
 \* = plants in HRPB area occurring in 100 or fewer 10x10km squares in Great Britain requiring special protection (List A, Palmer & Newbold 1983)  
 + = plants in CRPB area occurring in 100 or fewer 10x10km squares in Great Britain requiring special protection (List A, Palmer & Newbold 1983)  
 # = plants in HRPB area occurring in >100 10x10km squares in Great Britain but which still need special protection (List B, Palmer & Newbold 1983)  
 @ = plants in CRPB area occurring in >100 10x10km squares in Great Britain but which still need special protection (List B, Palmer & Newbold 1983)



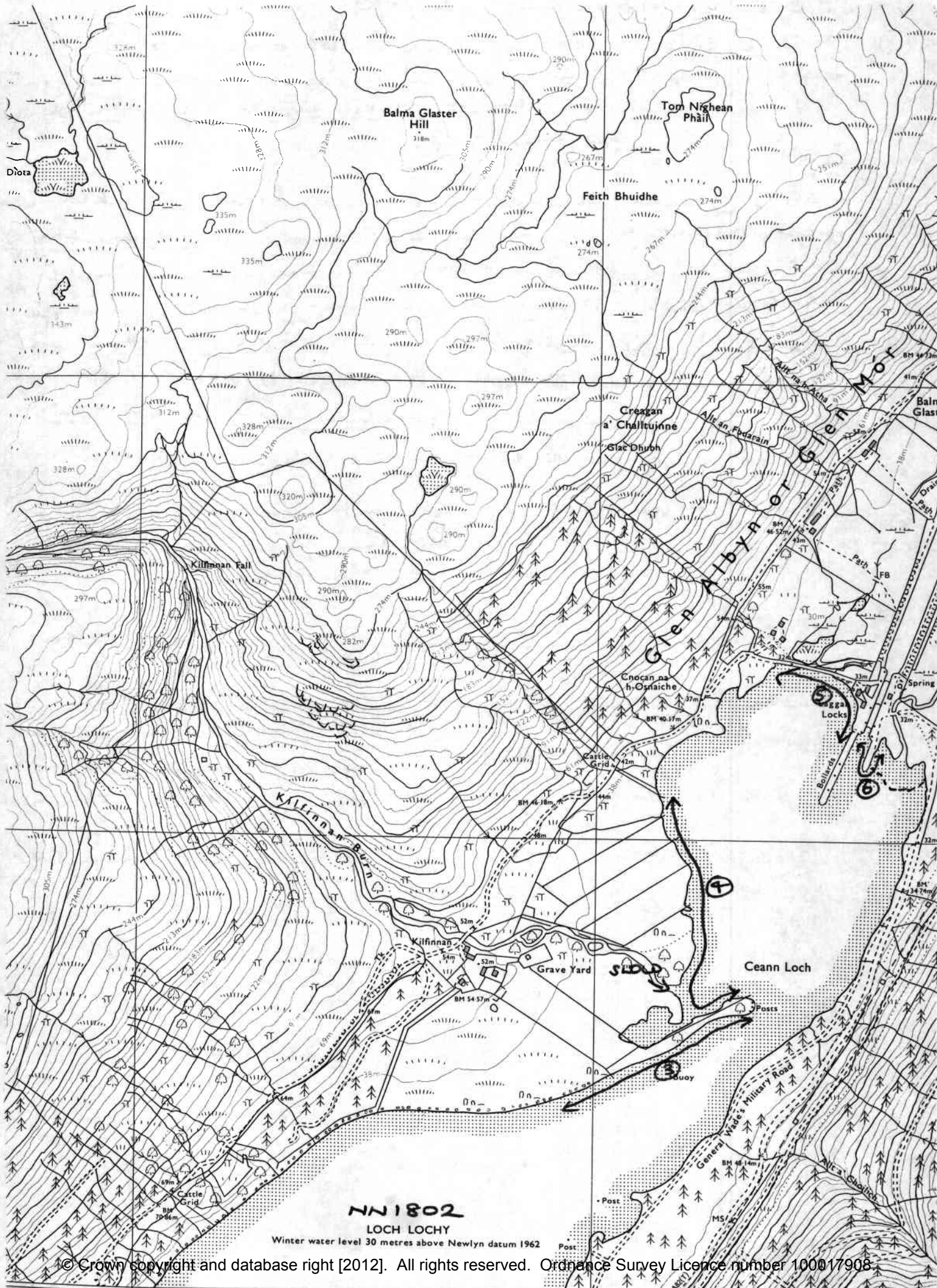


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MM1802  
25/8/93 (1:50,000 scale)  
SEE DETAILED MAPS  
FOR VEGETATED BAYS







**NN1802**

**LOCH LOCHY**

Winter water level 30 metres above Newlyn datum 1962

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NN1802 LOCH LOCHY 25/8/93

- (X) Water sample collection point.
- (1) Burnaig bay - see detailed map (1:10,000 scale)
- (2) N.W. shore - v. rocky/stony edge with no visible vegetation. one specimen of Epp along shore.  
Forestry ranged from 40+ yrs old, to clear felled to <10 yrs old along shore. Large amounts of brush along shore.  
Birch and alder trees along edge.
- (3) - (6) see 1:10,000 detailed maps
- (7) } Boulder shore - no vegetation
- (8) }

- ③ stoney spit - lots of drift wood and rubble washed up: Nitella sp, Lit stands (some emergent), Rfl, Fat, Potamogeton pectinatus washed up.
- ④ silt & gravel shore: large stands of Lit, filamentous green algae & Cal in shore and Spa, Utricularia sp. + Lit offshore, + Jb. Occasional clumps of Mal + Fat. Along the stoney shore are large stands of Elp, Ckr, Ja. Interspersed - <sup>cap</sup> - dense cl specimens of Nerda sp. Myosotis sp, Lgp & Gf + Rfl. A single specimen of Potamogeton berchtoldii found amongst the boulders along shore.
- ⑤ littered rocky bay: Jb, Lit, Mal, Cal, Fat, Nitella, Pper (washed up) Spa offshore.
- ⑥ In canal channel: Mal, Jb, Spa, Cap + Fat.  
 - In bay large stands of Pop, Ckr, Ckr, Ja  
Elp interspersed with  
Cap sp, Nerda sp, Rfl  
Pper, Gf, Phal, Jb (t)  
 - offshore: dense lawns of Lit + Cal, Pper  
Ag, Mal