

## 1997 LOCH INVENTORY: SOUTH EAST SCOTLAND\*

Code NN 4001 Name Loch Katrinae Grid Ref NN 435 093  
 Date 24.7.97 Surveyors CC + OLL Estate .....

Area 1242.9 ha Altitude 110 m Catchment ..... ha Geology 19  
 Water colour COLOURLESS Clarity CLEAR Boat used  Secchi disc depth ..... m  
 Loch type 3 Edge type(s) S19a S19b M23a S9a S11a S22a (NVC codes)  
 Status ..... Access 1 Road/houses present (underline)  
 Land use % Open water ..... Semi-natural ..... Forestry ..... Agriculture .....

## 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  
Observations

Use	Observations
Adjacent forestry	.....
Agricultural pollution	.....
Edge trampling	.....
Fishing (edge/boat)	.....
Litter	<u>Some cans + bottles from picnickers</u>
Shooting	.....
Water abstraction	<u>Drawdown evident at southern end</u> <u>Boat trips by large steamer on loch</u>

## SURROUNDING LAND USE:

Rough grazing  
Recreation

## FAUNA

Mammals	Birds	Reptiles Amphibians	Fish	Dragonflies & other invertebrates
	<u>Oystercatcher</u>			

SPECIES DIVERSITY	RARE SPECIES	WATER CHEMISTRY
Edge <u>20</u>	Scarce (*) .....	Alkalinity <u>0.08</u> meq/l
Open water <u>12</u>	Red Data Book (**) .....	Conductivity <u>43</u> $\mu$ S/cm
Total <u>30</u>		p.H. <u>6.08</u>

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\* Includes Angus, City of Edinburgh, Clackmannanshire, Dundee City, East Lothian, Falkirk, Fife, Midlothian, Perth & Kinross, Scottish Borders, Stirling and West Lothian unitary authorities.

1997 SOUTH EAST SCOTLAND LOCH INVENTORY: AQUATIC PLANT SPECIES LIST

Code NM 4001 Site name LOCH KATRINE Grid ref NM 435 093 Date 24.7.97

SUBMERGED & FLOATING SPECIES

Map code	Species	DAFOR	Map code	Species	DAFOR
<u>Api</u>	<u>Apium inundatum</u>	<u>O/LF</u>	Pxn	Potamogeton x nitens	.....
Apd	Aponogeton distachyos	.....	Pob	Potamogeton obtusifolius	.....
Af	Azolla filiculoides	.....	Pxo	Potamogeton x olivaceus	.....
Bar	Baldellia ranunculoides	.....	Ppec	Potamogeton pectinatus	.....
Cah	Callitriche hamulata	.....	Pper	Potamogeton perfoliatus	.....
Cher	Callitriche hermaphroditica	.....	<u>Ppol</u>	<u>Potamogeton polygonifolius</u>	<u>R</u>
Cao	Callitriche obtusangula	.....	Ppra	Potamogeton praelongus	.....
Cpla	Callitriche platycarpa	.....	Ppu	Potamogeton pusillus	.....
Cas	Callitriche stagnalis	.....	Pxsa	Potamogeton x salicifolius	.....
Ca	Callitriche sp.	.....	Pxsp	Potamogeton x sparganiifolius	.....
Ced	Ceratophyllum demersum	.....	Pxsu	Potamogeton x suecicus	.....
Crh	Crassula helmsii	.....	Pt*	Potamogeton trichoides	.....
Ela	Elatine hexandra	.....	Pxz	Potamogeton x zizii	.....
Elh*	Elatine hydropiper	.....	Ra	Ranunculus aquatilis	.....
Ef	Eleogiton fluitans	.....	Rb	Ranunculus baudotii	.....
Ec	Elodea canadensis	.....	Rc	Ranunculus circinatus	.....
En	Elodea nuttallii	.....	Rf	Ranunculus fluitans	.....
<u>Fon</u>	<u>Fontinalis antipyretica</u>	<u>O/LF</u>	Rxk	Ranunculus x kelchoensis	.....
Grd	Groenlandia densa	.....	Rp	Ranunculus peltatus	.....
Hip	Hippuris vulgaris	.....	Rpse	Ranunculus penicillatus	.....
Hmr	Hydrocharis morsus-ranae	.....		ssp. pseudofluitans	.....
Hyd	Hydrocotyle vulgaris	.....	Rtr	Ranunculus trichophyllus	.....
Ise*	Isoetes echinospora	.....	Rum	Ruppia maritima	.....
<u>Isl</u>	<u>Isoetes lacustris</u>	<u>R</u>	Sas	Sagittaria sagittifolia	.....
Jb	Juncus bulbosus	<u>LF</u>	<u>Spa</u>	<u>Sparganium angustifolium</u>	<u>O/LF</u>
Lam	Lagarosiphon major	.....	Spem	Sparganium emersum	.....
Lg	Lemna gibba	.....	Spn	Sparganium natans	.....
Lm	Lemna minor	.....	Sp	Sparganium sp.	.....
Lt	Lemna trisulca	.....	Spp	Spirodela polyrhiza	.....
<u>Lit</u>	<u>Littorella uniflora</u>	<u>R/LF</u>	Sta	Stratiotes aloides	.....
Lob	Lobelia dortmanna	.....	<u>Sub</u>	<u>Subularia aquatica</u>	<u>O</u>
Lun	Luronium natans	.....	Uti	Utricularia intermedia	.....
<u>Lyp</u>	<u>Lythrum portula</u>	<u>R/LF</u>	Um	Utricularia minor	.....
<u>Mal</u>	<u>Myriophyllum alterniflorum</u>	<u>LF</u>	Uo	Utricularia ochroleuca	.....
Msp	Myriophyllum spicatum	.....	<u>Us</u>	<u>Utricularia stygia</u>	<u>Lo</u>
Nf*	Najas flexilis	.....	Uva	Utricularia vulgaris/australis agg.	.....
Nua	Nuphar advena	.....	Ut	Utricularia sp.	.....
Nul	Nuphar lutea	.....	Zan	Zannichellia palustris	.....
Nup*	Nuphar pumila	.....			
Nus	Nuphar x spenneriana	.....	Cha	Chara sp.	.....
Na	Nymphaea alba	.....	<u>Nitop</u>	<u>Nitella sp. opaca</u>	<u>R/LF</u>
Nyp	Nymphoides peltata	.....			
Pam	Persicaria amphibia	.....			
Pil*	Pilularia globulifera	.....			
Pal	Potamogeton alpinus	.....			
Pbe	Potamogeton berchtoldii	.....			
Pcol*	Potamogeton coloratus	.....			
Pcom*	Potamogeton compressus	.....			
Pxco	Potamogeton x cooperi	.....			
Pcr	Potamogeton crispus	.....			
Pfil*	Potamogeton filiformis	.....			
Pfr	Potamogeton friesii	.....			
Pgr	Potamogeton gramineus	.....			
Plu	Potamogeton lucens	.....			
Pn	Potamogeton natans	.....			

SPECIES TOTAL

12

Other species not included in total:

Sphag Sphagnum sp.

Charophyte identification verified by N.F. Stewart

Specimens:

Chara sp. ....

Nitella sp. N. flex 102/97

Potamogeton sp. ....

Utricularia sp. U. styg 5/97

Utricularia identification verified by N.F. Stewart

1997 SOUTH EAST SCOTLAND LOCH INVENTORY: AQUATIC PLANT SPECIES LIST

Code NN.4001 Site name LOCH KATRINE Grid ref NN.435.093 Date 24.7.97

EMERGENT & EDGE SPECIES

Map code	Species	DAFOR	Map code	Species	DAFOR
Ac	<i>Acorus calamus</i>		Ma	<i>Mentha aquatica</i>	
<u>Ags</u>	<u><i>Agrostis stolonifera</i></u>	<u>o/LO</u>	Mt	<i>Menyanthes trifoliata</i>	
Al	<i>Alisma lanceolatum</i>		Mg	<i>Mimulus guttatus</i>	
Apa	<i>Alisma plantago-aquatica</i>		MI	<i>Mimulus luteus</i>	
Apn	<i>Apium nodiflorum</i>		Mm	<i>Mimulus moschatus</i>	
Bar	<i>Baldellia ranunculoides</i>		Mi	<i>Mimulus sp.</i>	
Ber	<i>Berula erecta</i>		Mon	<i>Montia fontana</i>	
Bom	<i>Bolboschoenus maritimus</i>		Myl	<i>Myosotis laxa</i>	
Bu	<i>Butomus umbellatus</i>		Msc	<i>Myosotis scorpioides</i>	
Cal	<i>Calla palustris</i>		Msec	<i>Myosotis secunda</i>	
Cab	<i>Callitriche brutia</i>		Mst*	<i>Myosotis stolonifera</i>	
Cas	<i>Callitriche stagnalis</i>		Oa	<i>Oenanthe aquatica</i>	
Cap	<i>Caltha palustris</i>		Oc	<i>Oenanthe crocata</i>	
Cxat	<i>Carex acuta</i>		Of	<i>Oenanthe fistulosa</i>	
Cxaf	<i>Carex acutiformis</i>		<u>Pam</u>	<u><i>Persicaria amphibia</i></u>	<u>R</u>
Cxa	<i>Carex aquatilis</i>		Ph	<i>Persicaria hydropiper</i>	
Cxl	<i>Carex lasiocarpa</i>		<u>Pha</u>	<u><i>Phalaris arundinacea</i></u>	<u>R</u>
Cxli	<i>Carex limosa</i>		Phr	<i>Phragmites australis</i>	
<u>Cxn</u>	<u><i>Carex nigra</i></u>	<u>o/LF</u>	<u>Pop</u>	<u><i>Potentilla palustris</i></u>	<u>R</u>
Cxri	<i>Carex riparia</i>		<u>Rfl</u>	<u><i>Ranunculus flammula</i></u>	<u>LF</u>
<u>Cxro</u>	<u><i>Carex rostrata</i></u>	<u>o/LA</u>	Rh	<i>Ranunculus hederaceus</i>	
<u>Cxv</u>	<u><i>Carex vesicaria</i></u>	<u>R/LF</u>	RI	<i>Ranunculus lingua</i>	
Ca	<i>Catabrosa aquatica</i>		Ro	<i>Ranunculus omiophyllus</i>	
Civ*	<i>Cicuta virosa</i>		Rr	<i>Ranunculus reptans</i>	
Clm	<i>Cladium mariscus</i>		Rs	<i>Ranunculus sceleratus</i>	
Des*	<i>Deschampsia setacea</i>		Roa	<i>Rorippa amphibia</i>	
Elac	<i>Eleocharis acicularis</i>		Roi	<i>Rorippa islandica</i>	
Elm	<i>Eleocharis multicaulis</i>		Rm	<i>Rorippa microphylla</i>	
<u>Elp</u>	<u><i>Eleocharis palustris</i></u>	<u>LF</u>	Rna	<i>Rorippa nasturtium-aquaticum</i>	
Elq	<i>Eleocharis quinqueflora</i>		Rxs	<i>Rorippa x sterilis</i>	
Elu	<i>Eleocharis uniglumis</i>		Rxh	<i>Rumex hydrolapathum</i>	
<u>Egf</u>	<u><i>Equisetum fluviatile</i></u>	<u>R</u>	Scp**	<i>Scheuchzeria palustris</i>	
<u>Egp</u>	<u><i>Equisetum palustre</i></u>	<u>R</u>	SI	<i>Schoenoplectus lacustris</i>	
Eqxl	<i>Equisetum x litorale</i>		St	<i>Schoenoplectus tabernaemontani</i>	
Era	<i>Eriophorum angustifolium</i>		Spem	<i>Sparganium emersum</i>	
Gld	<i>Glyceria declinata</i>		Sper	<i>Sparganium erectum</i>	
<u>Glf</u>	<u><i>Glyceria fluitans</i></u>	<u>o/LF</u>	Ta	<i>Typha angustifolia</i>	
Glm	<i>Glyceria maxima</i>		TI	<i>Typha latifolia</i>	
Gln	<i>Glyceria notata</i>		Vaa	<i>Veronica anagallis-aquatica</i>	
Glxp	<i>Glyceria x pedicellata</i>		Vb	<i>Veronica beccabunga</i>	
Hip	<i>Hippuris vulgaris</i>		Vc	<i>Veronica catenata</i>	
<u>Hyd</u>	<u><i>Hydrocotyle vulgaris (T)</i></u>	<u>LF</u>	<u>Vs</u>	<u><i>Veronica scutellata</i></u>	<u>O</u>
<u>Ip</u>	<u><i>Iris pseudacorus</i></u>	<u>R/LA</u>		SPECIES TOTAL	<u>20</u>
Iv	<i>Iris versicolor</i>			Other edge species	
Jac	<i>Juncus acutiflorus</i>	<u>LA</u>	<u>Cxd</u>	<u><i>Carex viridula ssp. oedocarpa (=C.demissa)</i></u>	<u>R/LF</u>
Jaa*	<i>Juncus alpinoarticulatus</i>		<u>Cxe</u>	<u><i>Carex echinata</i></u>	<u>LF</u>
<u>Ja</u>	<u><i>Juncus articulatus</i></u>	<u>o/LF</u>	<u>Cxp</u>	<u><i>Carex panicea</i></u>	<u>LF</u>
<u>Jb</u>	<u><i>Juncus bulbosus</i></u>	<u>F/LA</u>	Cxpa	<i>Carex paniculata</i>	
Jc	<i>Juncus conglomeratus</i>		Gp	<i>Galium palustre</i>	<u>LO</u>
<u>Je</u>	<u><i>Juncus effusus</i></u>	<u>o/LF</u>	Sa	<i>Senecio aquaticus</i>	
Lim*	<i>Limosella aquatica</i>		Tp	<i>Triglochin palustre</i>	
Lit	<i>Littorella uniflora</i>	<u>o/LA</u>	Vp	<i>Viola palustris</i>	<u>o/LF</u>
Lyc*	<i>Lycopodiella inundata</i>				
Lyt*	<i>Lysimachia thysiflora</i>				
Lyp	<i>Lythrum portula</i>				
Lys	<i>Lythrum salicaria</i>				

Note: \* = Scarce plants (occurring in 10-100 10x10km squares in Great Britain) known to occur in the Scottish Environment Protection Agency East & West Regions.

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\*\* = Red Data Book Species (occurring in >15 10x10km squares in Great Britain) known to occur in the Scottish Environment Protection Agency East & West Regions.

All species names follow those in Slatce 1991.

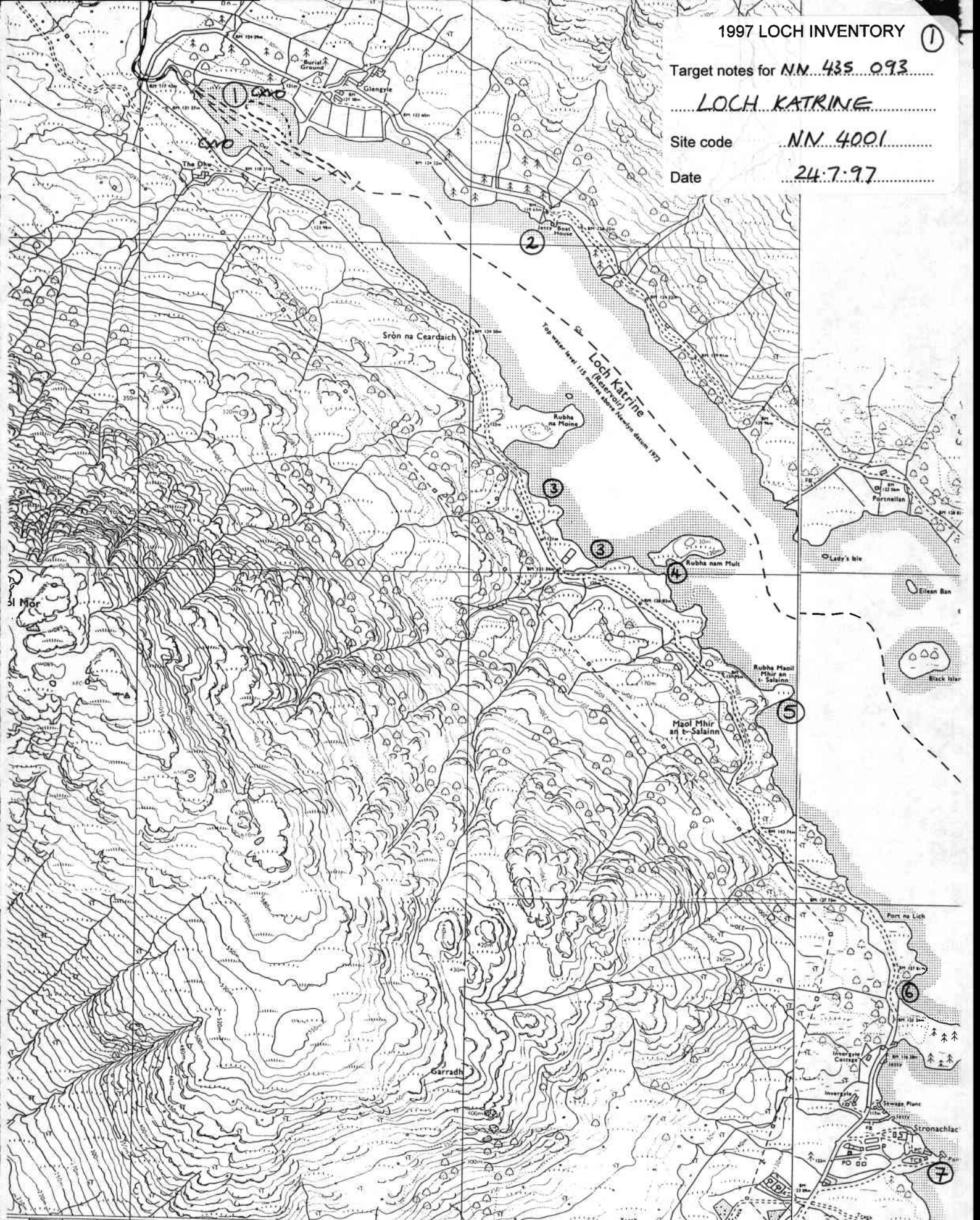
OLL5/97

Target notes for N.N. 435 093

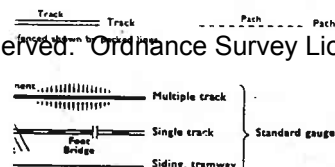
LOCH KATRINE

Site code N.N. 400.1

Date 24.7.97



RAS, SHQ

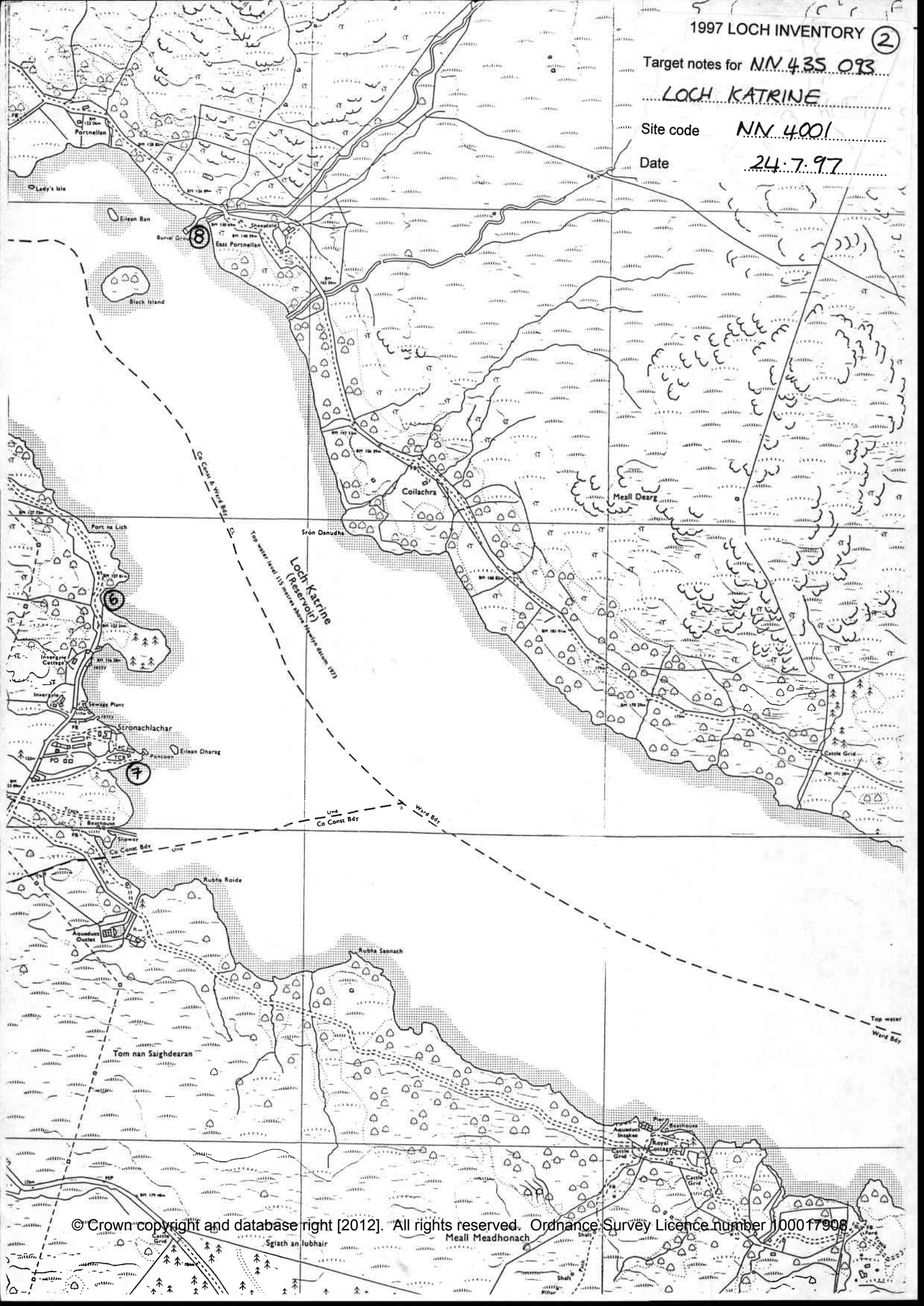


Target notes for NV 435 093

LOCH KATRINE

Site code NV 4001

Date 24.7.97

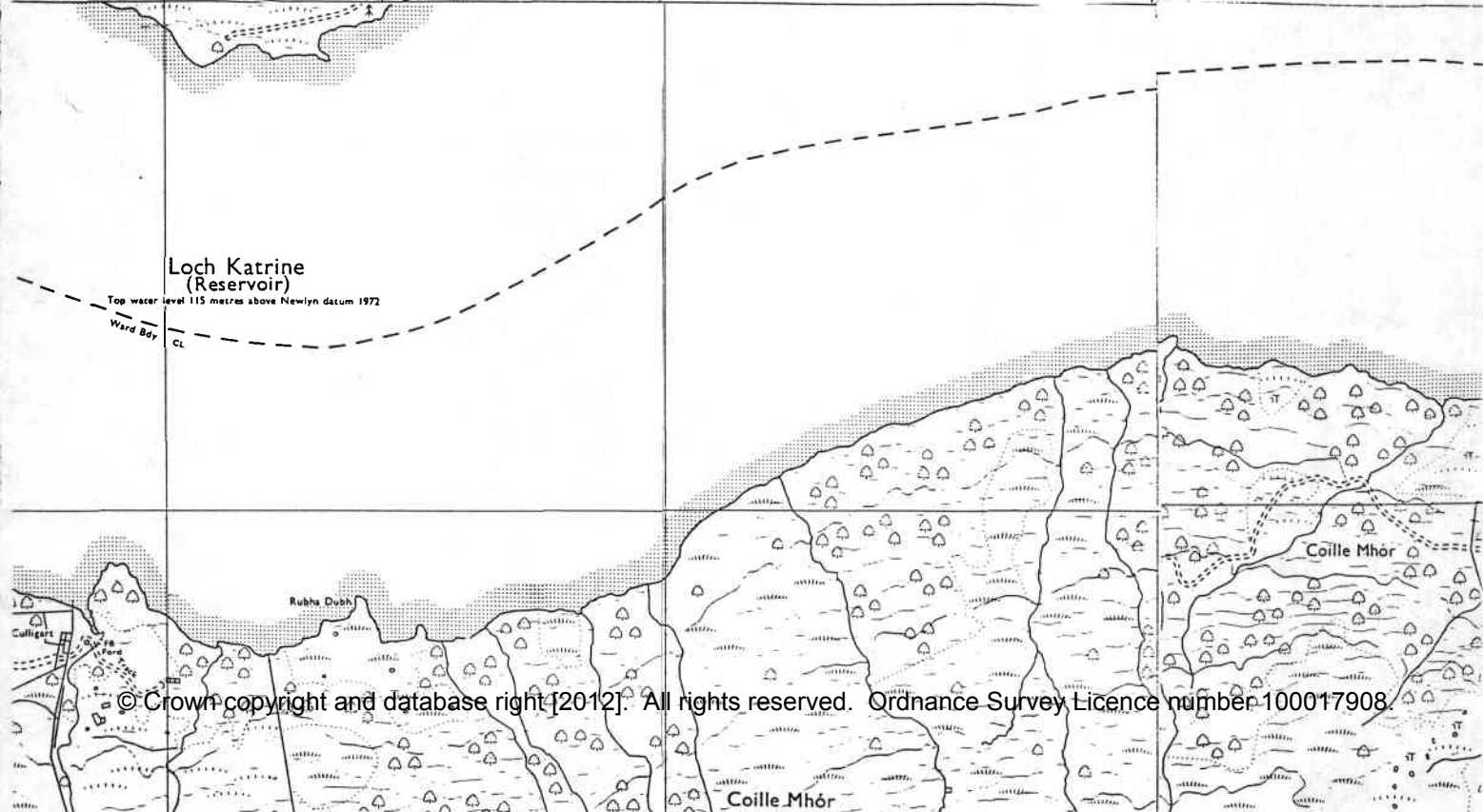
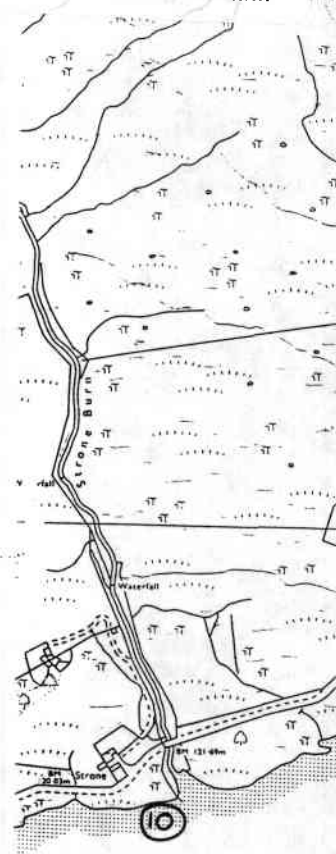
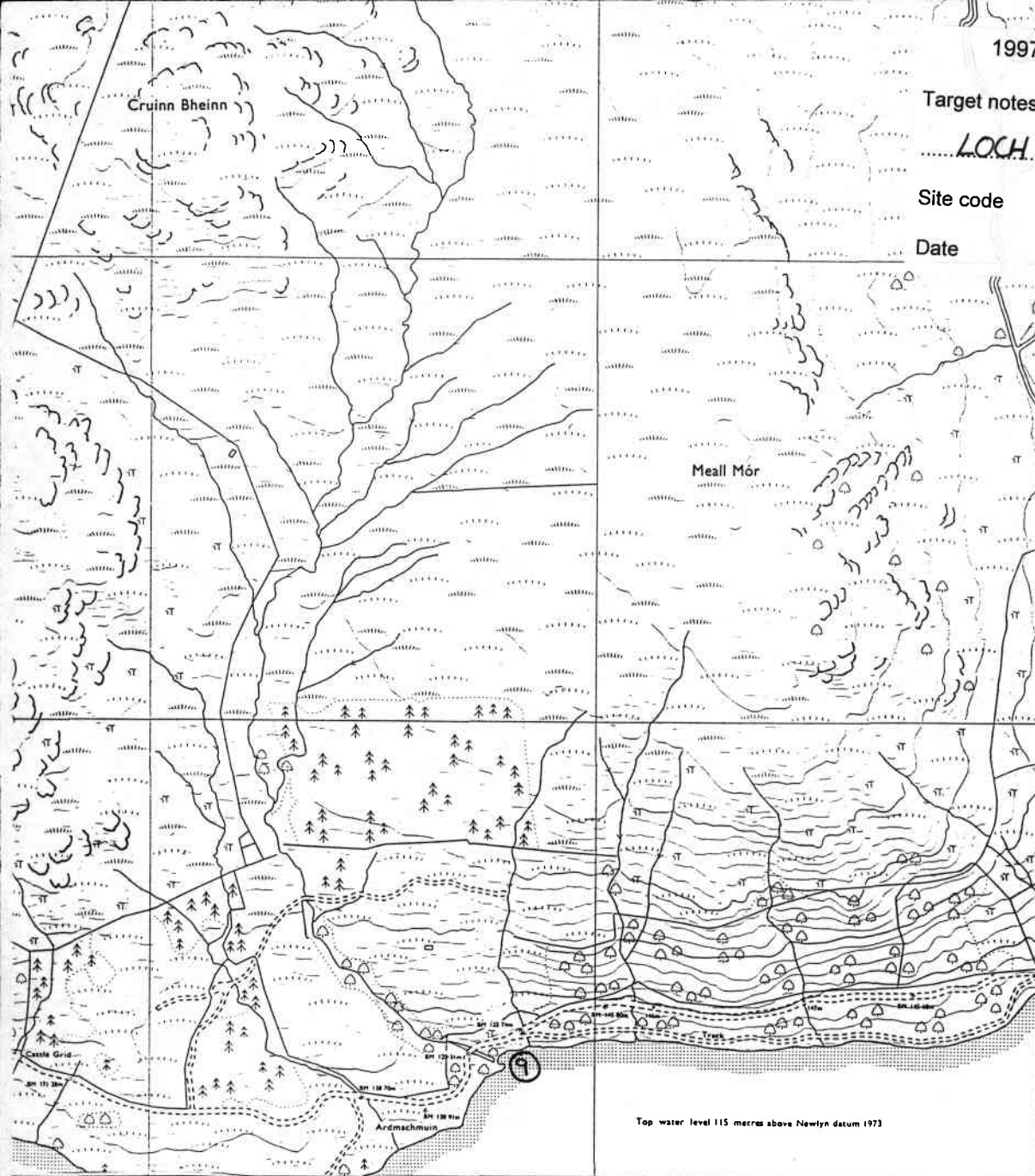


Target notes for NN 435 093

LOCH KATRINE

Site code NN 4001

Date 24.7.97

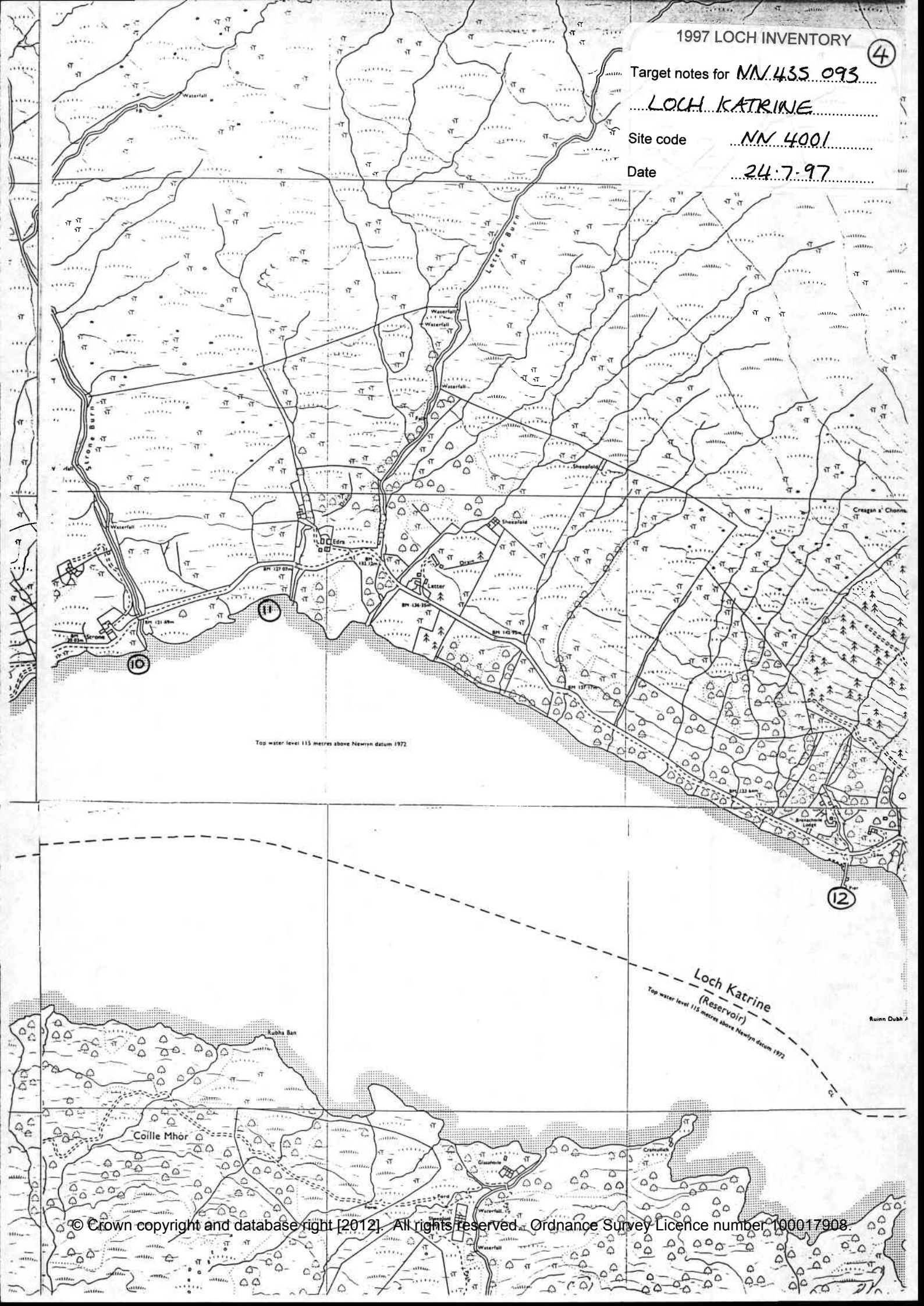


Target notes for MN 435 093

LOCH KATRINE

Site code NN 4001

Date 24.7.97



Top water level: 115 metres above Newlyn datum 1972

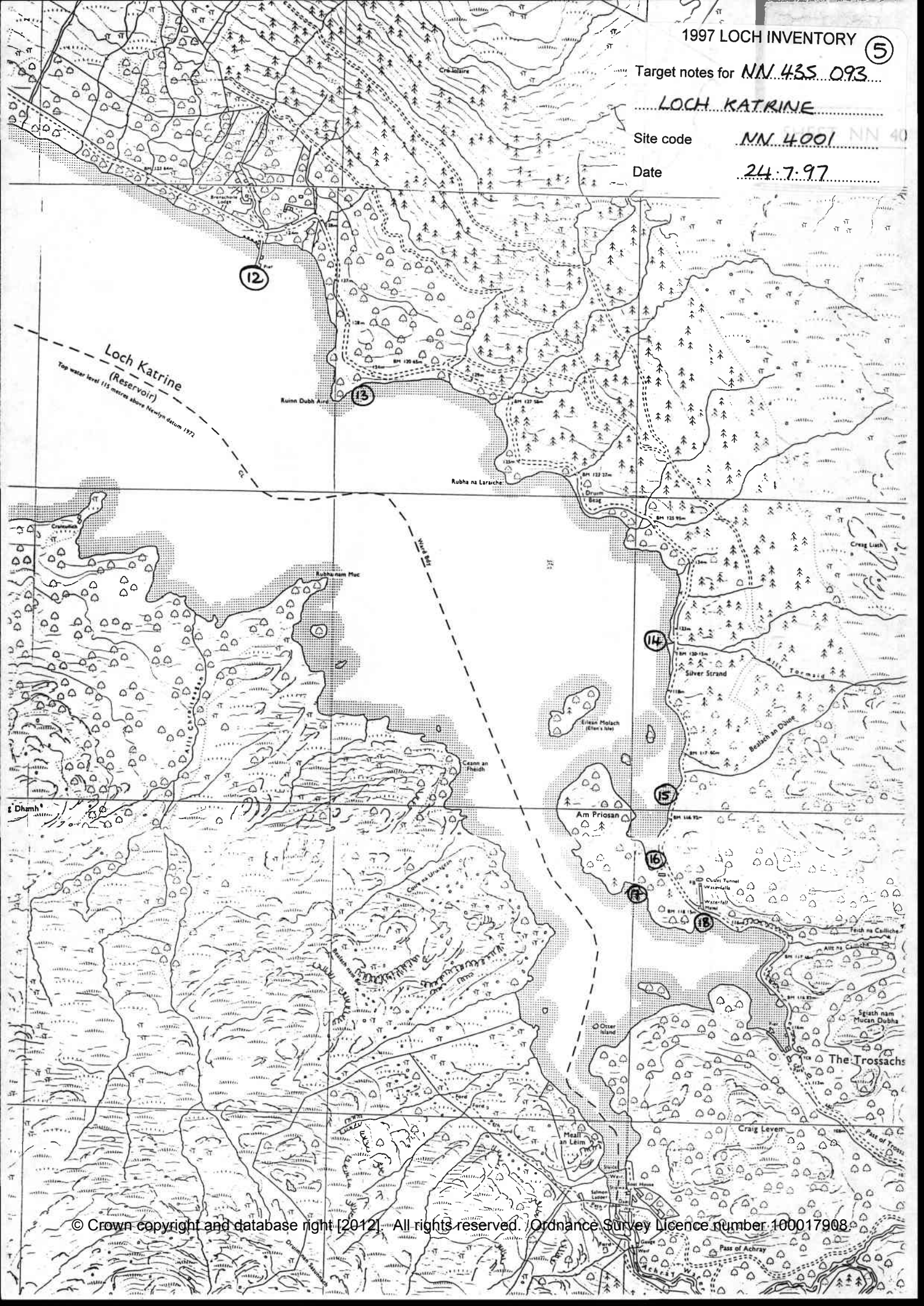
Loch Katrine (Reservoir)  
Top water level: 115 metres above Newlyn datum 1972

Target notes for NN 435 093

LOCH KATRINE

Site code NN 4001 NN 40

Date 24.7.97



Loch Katrine (Reservoir)

Top water level 115 metres above Newlyn datum 1972

Ruinn Dubh Aird

Rubha na Larache

Rubha nam Fhuic

Eilean Mòlach (Ellen's Isle)

Am Prìosan

Craigh Mhàire

Craigh Lìath

Craigh Levern

The Trossachs

Sgiath nam Mucan Dubha

Meall an Leim

Craig Levern

Pass of Trossachs

Pass of Achray



- ① Beds of Cx10, Jac and Je with hit, Jb, Spa, Mal, Hyd and Rfl. Water level has dropped but channel still discernible.
- ② Stony shore with Jac (Rfl), Jb and hit. Mal in deeper water.
- ③ Jb and hit in shallow bay (with Mal, Sub, Api). Shore with Jb, hit, Hyd, Api and grazed Gf. IF with Cx10, Elp and Jac with LA hyp. Backed by area dominated by Jac and Cx10. Ue and Egf rare in bay.
- ④ Water level has dropped leaving an area of peaty mud with Cx10, Hyd, Rfl, Jb and Gp with hit, Rfl and Jb submerged. ~~or~~ Substrate of silty sand in deeper water with frequent stones 7-15cm. Rare Is. Island (Rubha nam mult) has tumbled boulders along shore with Api, Gp and Spa.
- ⑤ Bedrock and large boulders on shore. No aquatic vegetation. Backed by acid grassland, bracken and birch trees.
- ⑥ cds ⑱. Shallow edge to loch with hit lawn and Mal. hit on shore backed by small patches of Cx10, Cxv, Elp and Jac (Rfl)
- ⑦ Artificial embankment. hit and Mal.
- ⑧ hit, Jb (Rfl, Gf), Vs (R), Elp (R) on silt and stones. IF wide stream. hit in water, stones larger offshore (10-40cm). Loch backed by Jac, Elp and Hyd.
- ⑨ Stony beach with bedrock extending into water. Exposed shore, clear water. No aquatic vegetation. Mal washed up.
- ⑩ Stony beach with hit. Backed by rush pasture (M23a)
- ⑪ cds ⑱ with Fon on bedrock. Dense lawns of hit on shore and underwater. Fringed by Alglutinosa and Salix sp with rush pasture (M23a) and wet heath (M15b).
- ⑫ Jetty with Nit off in deeper water. East of pier shallow beach with hit, Jac (as ⑱), plus Pam, Api and Nit on fine sand and silt. West of pier built up stony beach with Rumex acetosella, Cerastium fontanum and Theriacium sp.
- ⑬ As ⑱ but with broader (12m) stony (10-20cm) beach backed by acid grassland and bracken. Bedrock at point. Sub rare. Is washed up.

- ⑭ Trickle inflow through stone lined channel. Artificial embankment. No aquatics seen.
- ⑮ Artificial embankment around loch.
- ⑯ Bay with abundant washed up wood debris.
- ⑰ Peaty to waters edge, with small stony shelf extending underwater. Some bedrock.

Changes in water level and erosion causing exposure of tree roots on shore.

Backed by Oak-Birch woodland.

- ⑱ Shallow edge to loch with hit lawn on shore backed by small areas of Cxv, Cxv, Eyp and Jac(ef). Occ Pha. Backed by ~~the~~ birch woodland with frequent bracken. hit and Mal in water.