

1993 LOCH SURVEY LOCHABER

Code NN0142 Name LOCH AWE Grid Ref NN009169

Date 27/9-1/1093 Surveyors OLL/JJ/TH Estate

Area 37.2 ha Altitude 40m Catchment ha Geology 38/6/90

Water colour CLEAR-PALE BROWN Clarity CLEAR Boat used ✓ Secchi disc depth m

Loch type 3 Edge type(s) SAa, SBa, SCa, SDa, SEa, S10a, S11a, S12a, S22a, S28a

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 Area affected

Table with 3 columns: Use, Area affected, Damage. Rows include Water abstraction, Sewage inflow, Agricultural pollution, Edge trampling (SOME SHORES), Adjacent forestry (SEE MAPS), Fishing (Edge/boat) (✓ FISHING FROM BANK & BOAT), Shooting (LITTER SEEN ON ALL SHORES & IN LOCH).

FAUNA

Table with 5 columns: Birds (MERGANSER, DIPPERS, HERONS, CORMORANT, MALLARD), Mammals, Reptiles Amphibians, Dragonflies & other inverts, Fish (3-SPINED STICKLEBACK, BROOK TROUT, RAINBOW TROUT).

Species diversity

Table with 2 columns: Edge (23), Open water (25), Total (43).

Water Chemistry

Table with 2 columns: NORTH (Alkalinity 0.10, Conductivity 1120, p.H. 5.83), SOUTH (Alkalinity 0.316, Conductivity 2000, p.H. 7.13).

RARE SPECIES Rare in RPB area

National

Table with 3 columns: 10km squares (1190.1, 1190.2, 1190.4, 1190.5, 1190.6), NN02 (NM91, NM80, NM90), NN0142.1 (NM80).

OLL 6/93

1993 LOCHABER LOCH SURVEY: AQUATIC PLANT SPECIES LIST

EMERGENT & EDGE SPECIES Site name LOCH AWE Grid ref..... Code.....

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	RIVER	(IN FORD RIVER)	O1		Oenanthe lachenalii	.....	.....
Bm		Bolboschoenus maritimus	.....	.....	Pam		Persicaria amphibia	.....	.....
Cap		Caltha palustris	Lf...	.....	Pha		Phalaris arundinacea	LA	.....
Cxat	#@	Carex acuta	.....	.....	Phr	#@	Phragmites australis	LA	.....
Cxaf	#@	Carex acutiformis	.....	.....	Pop		Potentilla palustris	R	.....
Cxa	#+	Carex aquatilis	LA	(1 LOCATION) SEE MAP)	Rfl		Ranunculus flammula	Lf	.....
Cxl		Carex lasiocarpa	.....	.....			ssp. flammula	.....	.....
Cxli		Carex limosa	.....	.....			ssp. minimus	.....	.....
Cxm		Carex nigra	LA	.....			ssp. scoticus	.....	.....
Cxpc	#	Carex pseudocyperus	.....	.....	Rh		Ranunculus hederaceus	.....	.....
Cxri	#@	Carex riparia	.....	.....	Rs	#	Ranunculus sceleratus	.....	.....
Cxro		Carex rostrata	LA	.....	RI	#@	Ranunculus lingua	.....	.....
Cxv		Carex vesicaria	LA	.....	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	LD	(SEE MAP FOR LOCATION)
Ela	#+	Eleocharis acicularis	.....	.....	St	#@	Schoenoplectus tabernaemontani	.....	.....
Elm		Eleocharis multicaulis	.....	.....	Sd	@	Solanum dulcamara	.....	.....
Elp		Eleocharis palustris	LA	.....	Sper		Sparganium erectum(4ssp)	LD	.....
Elq		Eleocharis quinqueflora	.....	.....	Spem		Sparganium emersum	.....	.....
Elu		Eleocharis uniglumis	.....	.....	Stp	@	Stellaria palustris	.....	.....
Es	#	Equisetum fluviatile	LA	.....	Ta	@	Typha angustifolia	.....	.....
Ep		Equisetum palustre	.....	.....	Tl	#	Typha latifolia	.....	.....
Era		Eriophorum angustifolium	.....	.....	Vaa	#	Veronica anagallis-aquatica	.....	.....
Gld		Glyceria declinata	.....	.....	Va		Veronica beccabunga	.....	.....
Glf		Glyceria fluitans	LA	.....	Vc	@	Veronica catenata	.....	.....
Glp	#@	Glyceria notata	.....	.....	Vs		Veronica scutellata	.....	.....
Hlp		Hippuris vulgaris	.....	.....			FONTINALIS ANTIPIRETIKA A PILULARIA GLOBULIFERA. 04 ELATINE HEXANDRA R	.....	.....
Hyd		Hydrocotyle vulgaris	Lf	.....	Other edge species			.....	.....
He	#	Hypericum elodes	.....	.....	Cxd		Carex viridula ssp oedocarpa (C.denissa)	.....	.....
Ip		Iris pseudacorus	.....	.....	Cxe		Carex echinata	.....	.....
Jac		Juncus acutiflorus	.....	.....	Cxp		Carex panicea	.....	.....
Jaa	#+	Juncus alpinoarticulatus	.....	.....	Cspa		Carex paniculata	.....	.....
Ja		Juncus articulatus	Lf	.....	Gp		Galium palustre	.....	.....
Jbt		Juncus bulbosus	Lf	.....	Gr		Genm rivale	.....	.....
Jc		Juncus conglomeratus	.....	.....	Sa		Senecio aquaticus	.....	.....
Je		Juncus effusus	o	.....	Tp		Triglochin palustre (T.palustris)	.....	.....
Lit	#	Littorella uniflora	A	.....	Vp		Viola palustris	.....	.....
Lyc		Lycopodiella inundata	.....	.....				.....	.....
Lyt	+	Lysimachia thyrsoflora	.....	.....				.....	.....
Lyp	#	Lythrum portula	.....	.....				.....	.....
Lys		Lythrum salicaria	.....	.....				.....	.....
Ma		Mentha aquatica	Lf	.....				.....	.....
Nt		Nemophila trifoliata	LA	.....				.....	.....
Nm		Nimulus moschatus	.....	.....				.....	.....
Ng		Nimulus guttatus	.....	.....				.....	.....
Nl		Nimulus luteus	.....	.....				.....	.....
Ni		Nimulus sp.	.....	.....				.....	.....
Mon		Montia fontana (4ssp)	R	.....				.....	.....
Nyl		Nyosotis laxa	.....	.....				.....	.....
Nsec		Nyosotis secunda	.....	.....				.....	.....
Nsc		Nyosotis scorpioides	.....	.....				.....	.....
Nst	+	Nyosotis stolonifera	.....	.....				.....	.....

Pilularia globulifera recorded at: NN136273
NN028210

Alisma plantago-aquatica (in ford river)

1993 LOCHABER LOCH SURVEY: AQUATIC PLANT SPECIES LIST

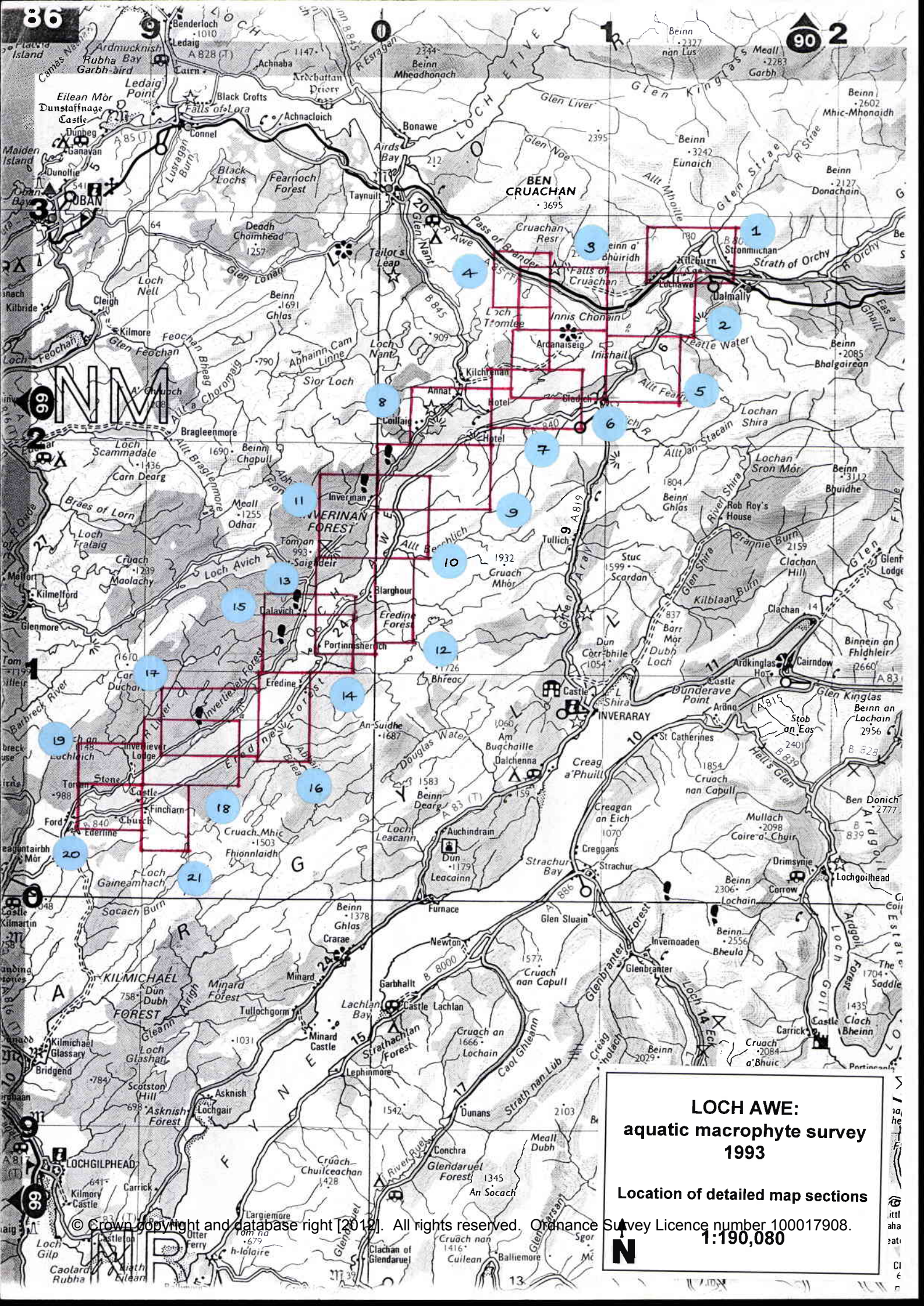
SUBMERGED & FLOATING SPECIES Site name Loch Awe Grid ref..... Code.....

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>	.....	..... (N FORD RIVER)	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>	LF	.....	Pxz		<i>Potamogeton x zizii</i>	.....	.....
Cher	#+	<i>Callitriche hermaphroditica</i>	.....	.....	Rbas	#+	<i>Ranunculus baudotii</i> Sp.	R	..... (WATER CROWFOOT - 1 LOCATION)
Cpla		<i>Callitriche platycarpa</i>	.....	.....	Rc	@	<i>Ranunculus circinatus</i>	.....	.....
Cas		<i>Callitriche stagnalis</i> sp	o	.....	Rf	#@	<i>Ranunculus fluitans</i>	.....	.....
Cra	*	<i>Crassula aquatica</i>	.....	.....	Rh		<i>Ranunculus hederaceus</i>	.....	.....
Ela	#+	<i>Elatine hexandra</i>	R	.....	Ro	#	<i>Ranunculus omiophyllus</i>	.....	.....
Elh	+	<i>Elatine hydropiper</i>	.....	.....	Rp	#	<i>Ranunculus peltatus</i>	.....	.....
Ec		<i>Rhodea canadensis</i>	LF	.....	Rpp	?	<i>R. penicillatus</i>	.....	.....
Ef		<i>Eleogiton fluitans</i>	R	.....			ssp. <i>penicillatus</i>	.....	.....
Ese	#+	<i>Eriocaulon aquaticum</i>	.....	.....			ssp. <i>pseudofluitans</i>	.....	.....
Fon		<i>Fontinalis antipyretica</i>	A	.....	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>	LF	.....
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>	LF	.....	Sp	@	<i>Spirodela polyrhiza</i>	.....	.....
Iss	#+	<i>Isoetes setacea</i> (echinospora)	.....	.....	Sub	#+	<i>Subularia aquatica</i>	o-LF	.....
Jba		<i>Juncus bulbosus</i> (var fluitans)	o-LA	.....	Uti	@	<i>Utricularia intermedia</i>	.....	.....
Ln	#	<i>Lemna minor</i>	.....	.....	Utm		<i>Utricularia minor</i>	.....	.....
Lt	@	<i>Lemna trisulca</i>	.....	.....	Ua		<i>Utricularia australis</i>	.....	.....
Lita		<i>Littorella uniflora</i>	D	.....	Uo		<i>Utricularia ochroleuca</i>	.....	.....
Lob		<i>Lobelia dortmanna</i>	F	.....	Us		<i>Utricularia stygia</i>	.....	.....
Mal		<i>Myriophyllum alterniflorum</i>	A	.....	Uva	@	<i>Utricularia vulgaris/australis</i>	.....	.....
Msp		<i>Myriophyllum spicatum</i>	.....	.....	Uts		<i>Utricularia</i> spp.	.....	.....
Nf	#+	<i>Najas flexilis</i>	.....	.....	Zan	#@	<i>Zannichellia palustris</i>	.....	.....
Nul	#	<i>Nuphar lutea</i>	LF	.....	Zoa	#+	<i>Zostera angustifolia</i>	.....	.....
Nup	#+	<i>Nuphar pumila</i> ?	R	.....	Zom	#+	<i>Zostera marina</i>	.....	.....
Na		<i>Nymphaea alba</i>	.....	.....	Zon	#+	<i>Zostera noltii</i>	.....	.....
		ssp. <i>alba</i>	.....	.....	Chavi		<i>Chara sp. virgata</i>	LF	..... spec. No. 73, 76
		ssp. <i>occidentalis</i>	.....	.....	Nit op		<i>Nitella sp. opaca</i>	LF	..... spec. No. 72, 74, 75, 76, 77
Pil	#+	<i>Pilularia globulifera</i>	LF	..... (SEE MAP FOR LOCATION)	Nittr		<i>Nitella translucens</i>	LF	..... Spec No. 80
Pam		<i>Persicaria amphibia</i>	.....	.....				.....	.....
Ph		<i>Persicaria hydropiper</i>	.....	.....				.....	.....
Pal		<i>Potamogeton alpinus</i>	LD	..... spec. No. 20, 21, 22				.....	.....
Pbe		<i>Potamogeton bertholdii</i>	.....	.....				.....	.....
Pcr	#	<i>Potamogeton crispus</i>	LF	..... spec. No. 16				.....	.....
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>	LF	.....				.....	.....
Pxn		<i>Potamogeton x nitens</i>	LF	..... spec. No. 19				.....	.....
Pob	#	<i>Potamogeton obtusifolius</i>	.....	.....				.....	.....
Ppec	#	<i>Potamogeton pectinatus</i>	.....	.....				.....	.....
Pper		<i>Potamogeton perfoliatus</i>	LF	..... spec. No. 17, 18				.....	.....
Ppol		<i>Potamogeton polygonifolius</i>	R	.....				.....	.....

PIL recorded at NN136273
NN028210

Potamogeton specimens confirmed by C.D. Preston

SL 6/93



LOCH AWE:
aquatic macrophyte survey
1993

Location of detailed map sections

1:190,080



1 metre = 3.2808 feet
 1 foot = 0.3048 metre

0 100 500 1000 2000 3000 4000 5000
 Metres
 0 100 500
 Feet

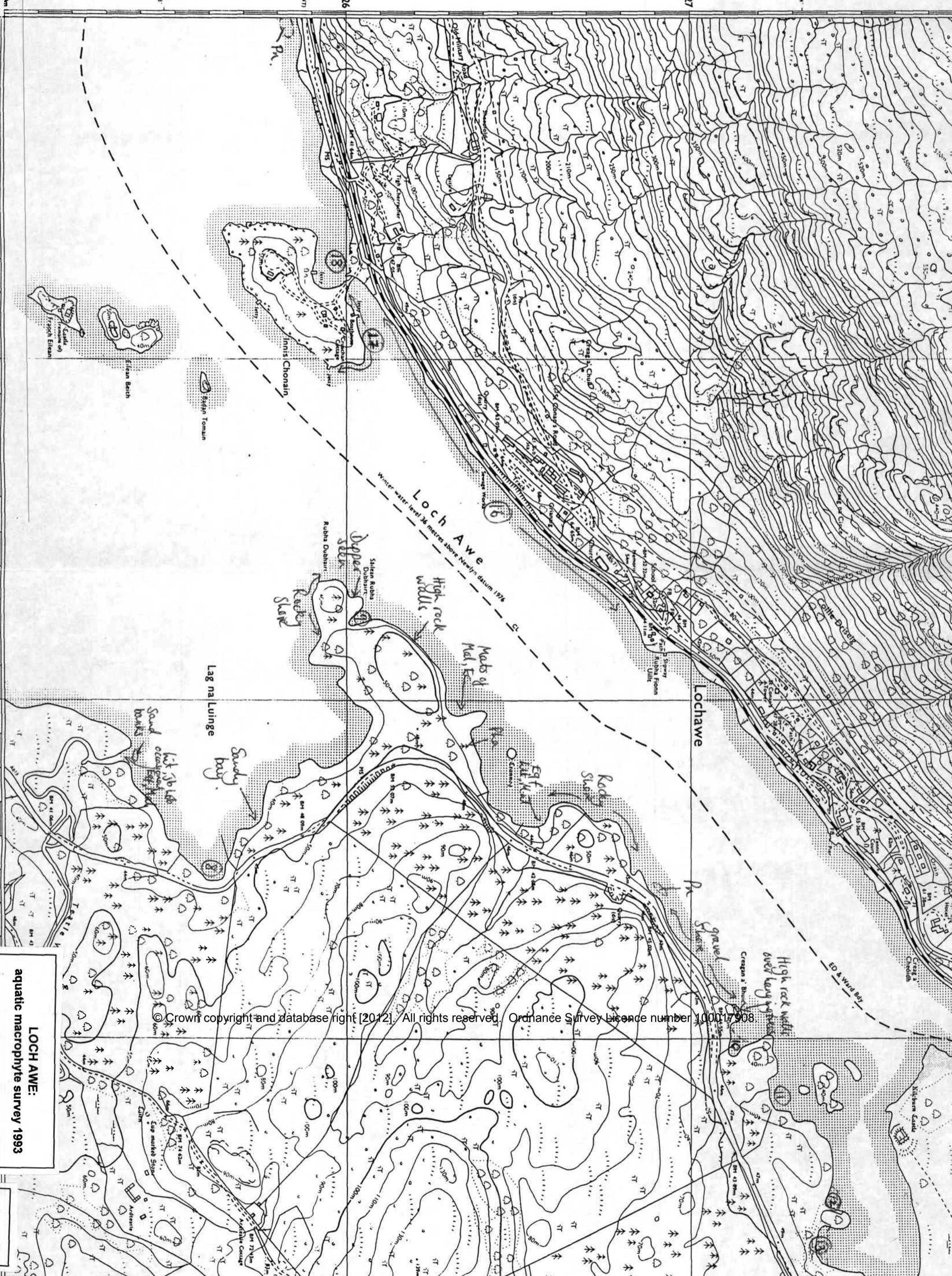
Survey, as used
 is a right of way

NN12 NW

LOCH AWE:
 aquatic macrophyte survey 1993
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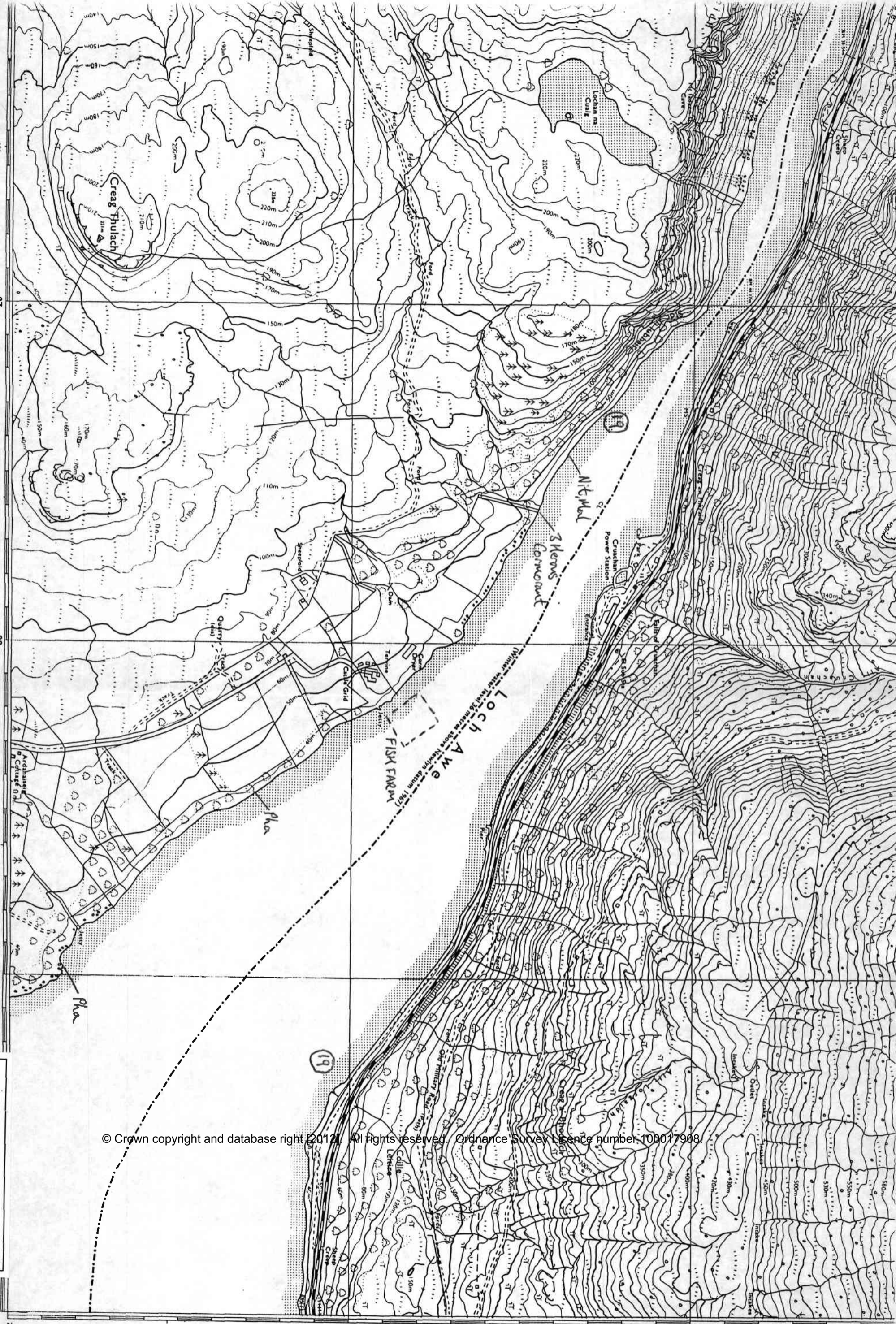
MAP 2

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NN02 NE

GLENORCHY AND INSHAL CP



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MAP 3

NN 02 NE

NN 02 NE

- W 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
- Shingle
- Sand

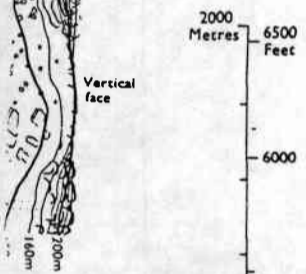
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Shown only when not coincident with other boundaries.

ry markings.

FEATURES **CONVERSION SCALE**

Metres - Feet



- Police Station
- Post Office
- Public Convenience
- Public House
- Signal Box
- Tramway
- Telephone Call Box
- Telephone Call Post
- Well

SYSTEM

METRES

are NN

the ins. 05

ords 2

052

the ins. 25

ords 7

257

nce NN 052257

Resulting reference

ned is sufficiently

n to one mile and

North and at the

3° West of Grid

LOCH AWE:
aquatic macrophyte survey 1993

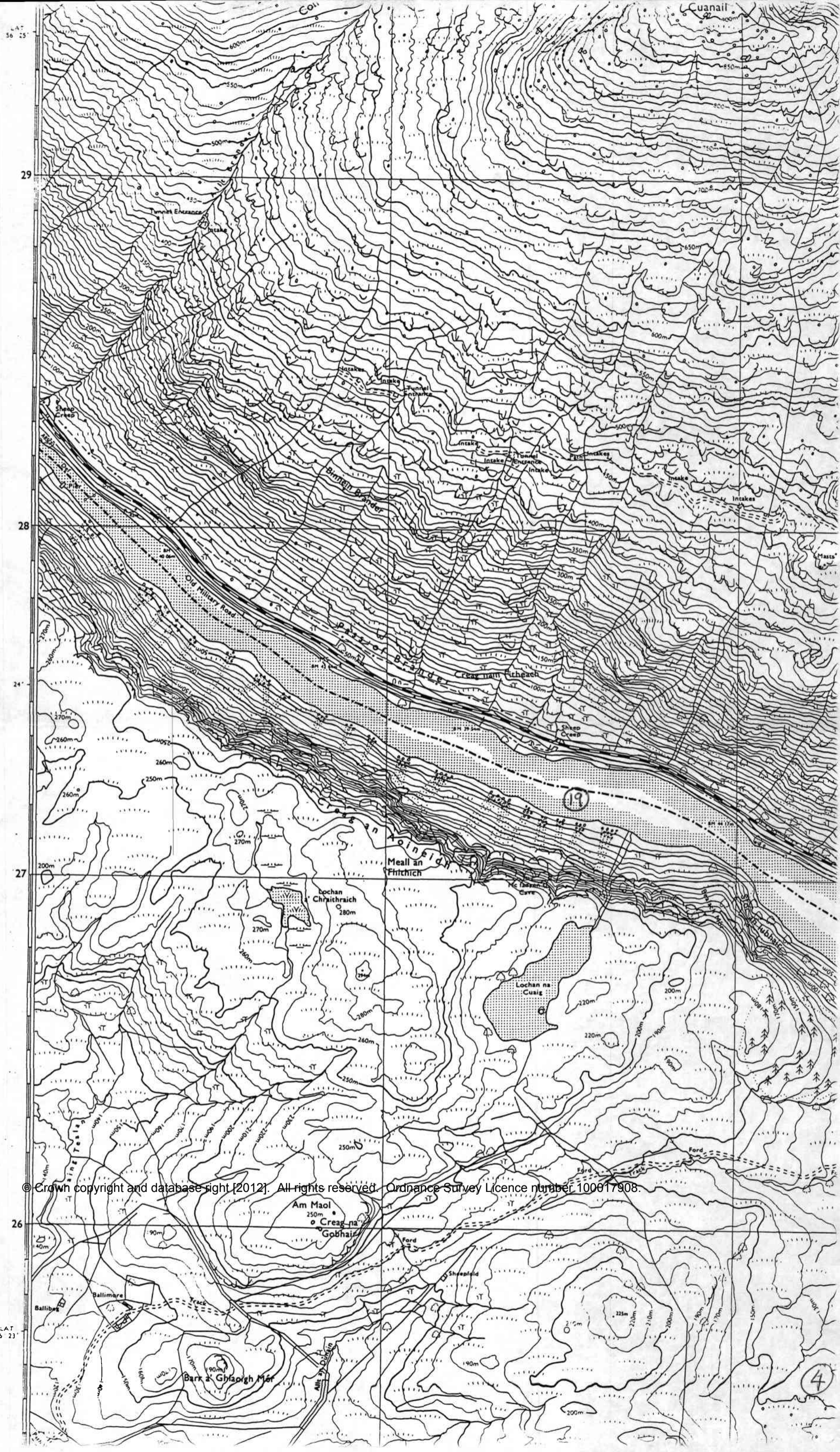
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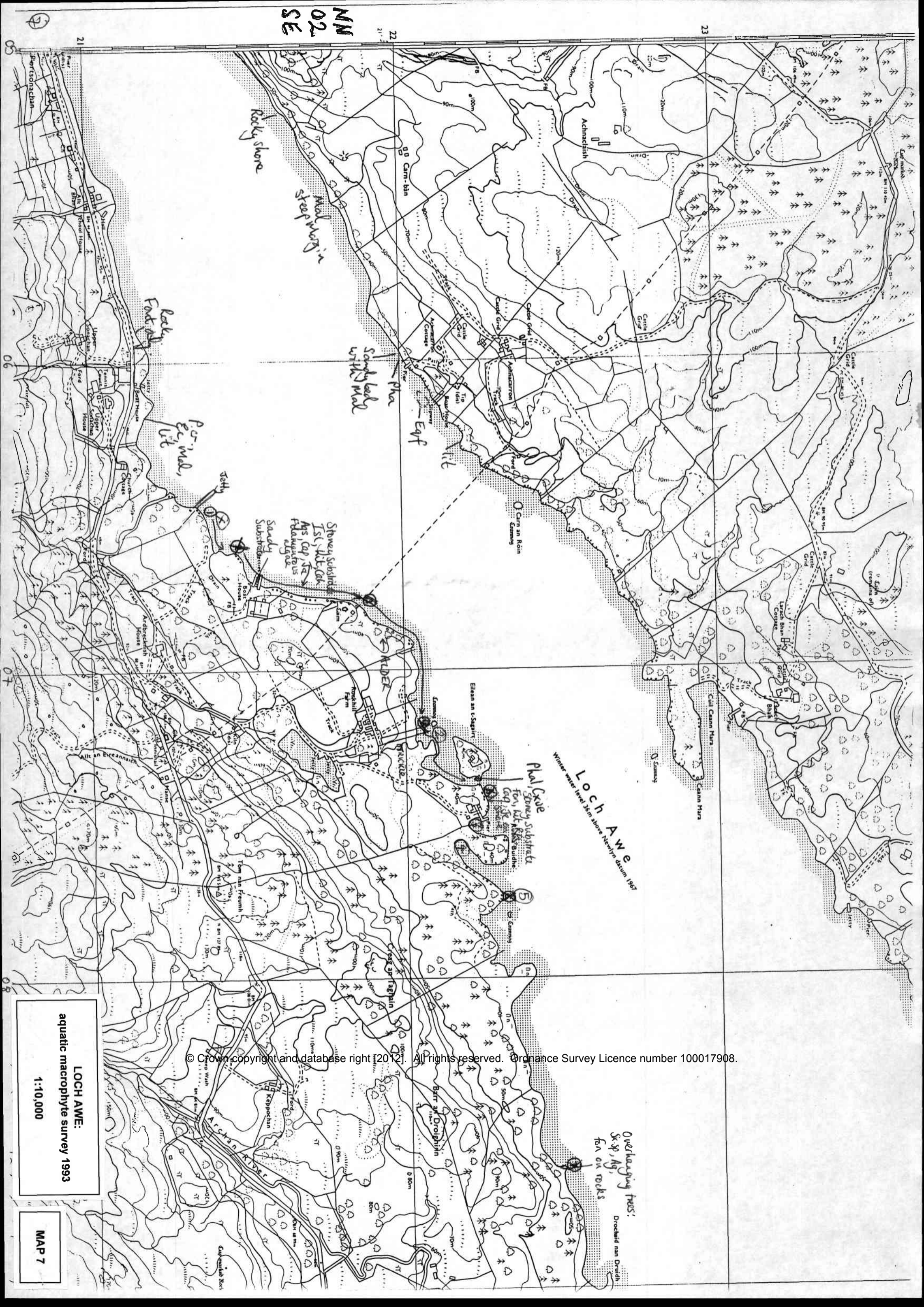
1 metre = 3 2808 feet

1 foot = 0 3048 metre

MAP 4

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NW
02
SE

Rocky
Fork

Pier
w/ Mal

Stoney substrate
T.S. w/ lake
M.S. cap / 1/2
F. w/ water
M.S. w/ 1/2

Sandy beach
with Mal

Phal
Stoney substrate
Fon, w/ lake
M.S. w/ 1/2

Loch Awe
Winter water level 36m above Newry datum 1967

Overhanging trees:
S. sp, Ag,
Fon on rocks

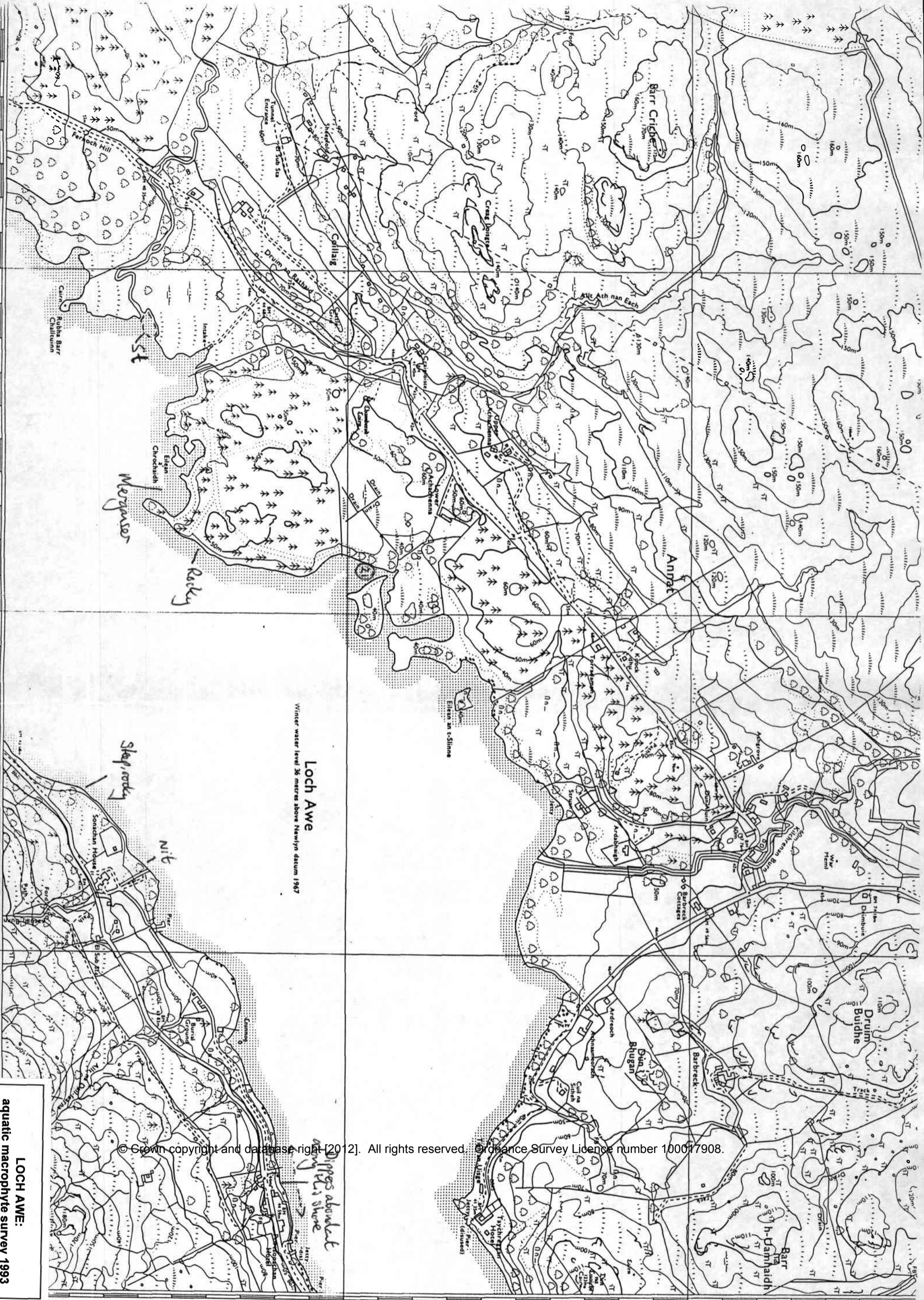
Droichead nan Druidh

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LOCH AWE:
aquatic macrophyte survey 1993

MAP 7

1:10,000



02

03

04

LONG
5.10'W

LOCH AWE:
aquatic macrophyte survey 1993
1:10,000

MAP 8
WS 2

LAT
56 20

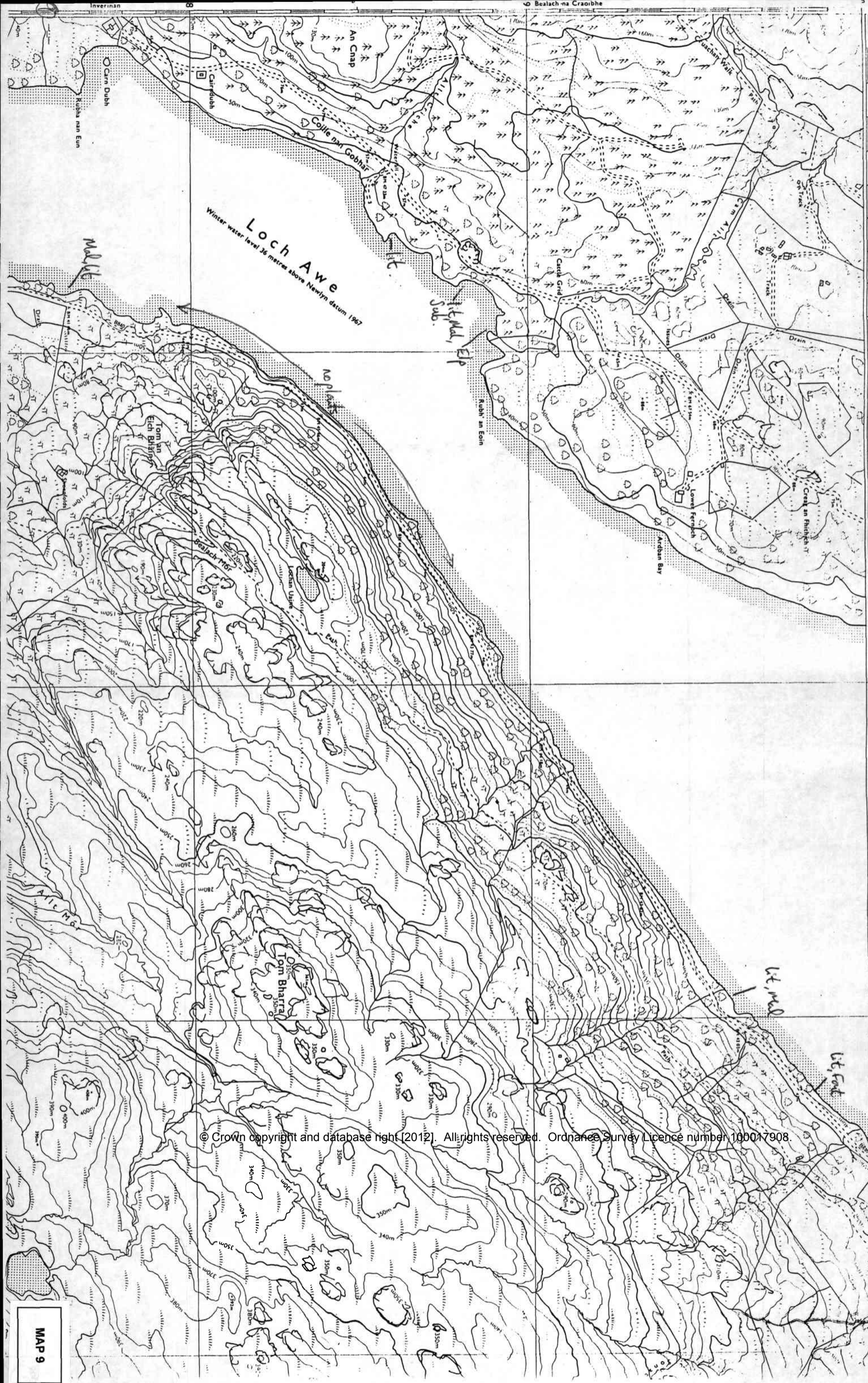
Portsochan

21

22

NO 2
S13

ARGYLLSHIRE 01 SOUTH LORN DISTRICT 02 KILCHRENNAN AND DALAVICH CP 03 ARGYLL CO. 04

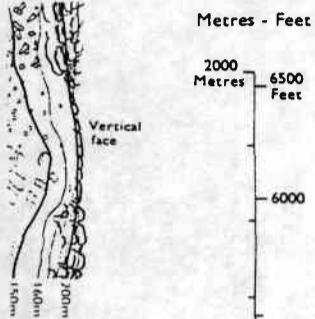


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MAP 9

Triangulation station
 Shingle
 Sand
NN 01 NW
 The first appropriate symbol in this list is shown when coincidence of boundaries occurs.
 Shown alternately with one of the symbols above when coincidence of boundaries occurs. Shown only when not coincident with other boundaries.
 Dry meringes.

FEATURES
CONVERSION SCALE



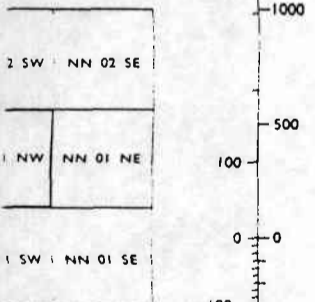
- Police Station
- Post Office
- Public Convenience
- Public House
- Signal Box
- Spring
- Telephone Call Box
- Telephone Call Post
- Well

SYSTEM

METRES
 Unit are NN
 of the regions wards
 of the regions wards
 reference NN011165

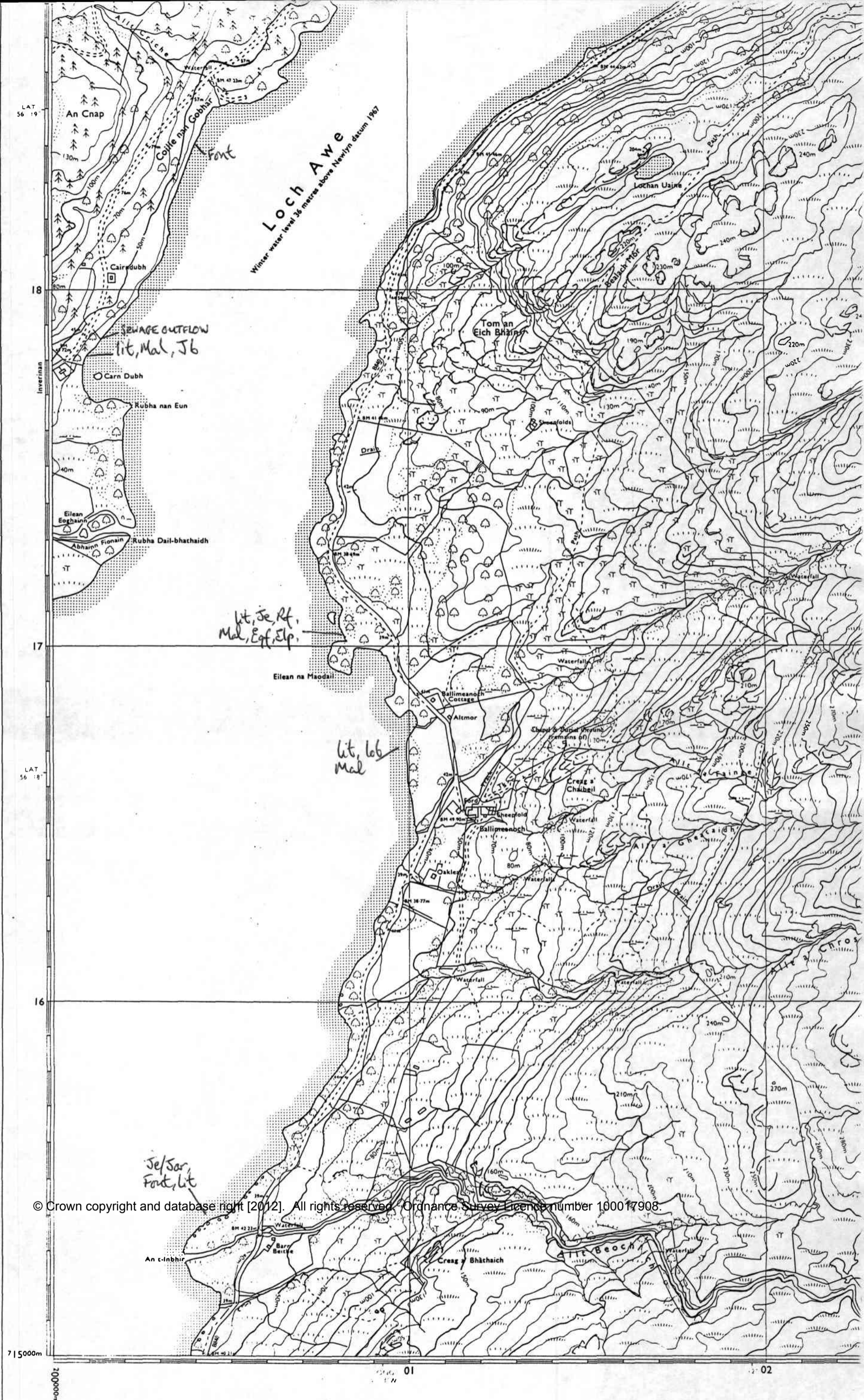
resulting reference
 earned is sufficiently
 nch to one mile and

GRID SHEETS



LOCH AWE:
 aquatic macrophyte survey 1993
 1:10,000

MAP 10



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LAT 56° 19'

18

17

16

Loch Awe

715000m

LONG 5° 14' W

200000m

98

15'

99

11

LOCH AWE:
aquatic macrophyte survey 1993
1:10,000

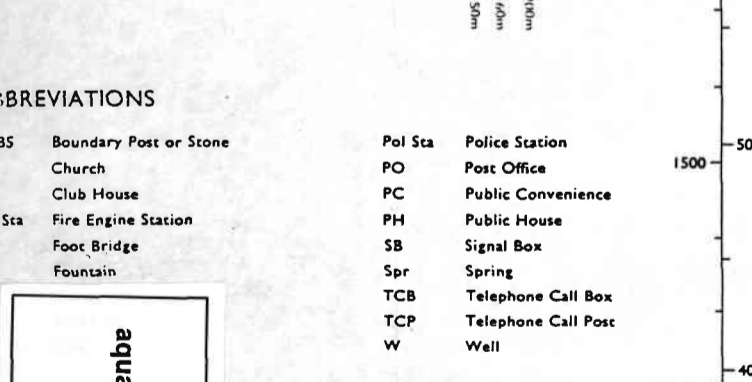
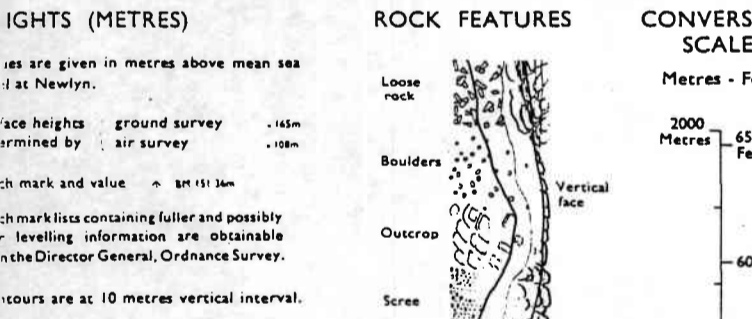
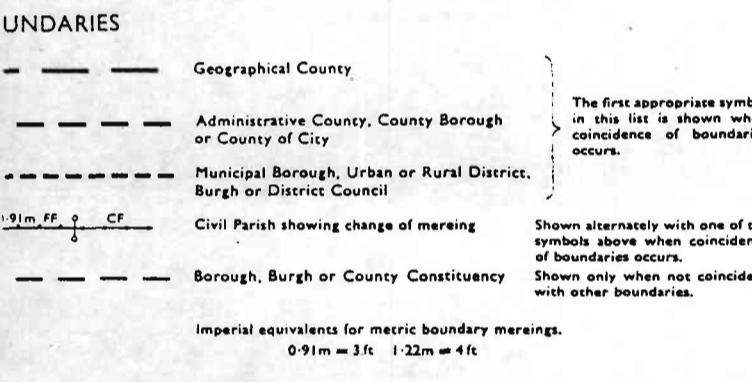
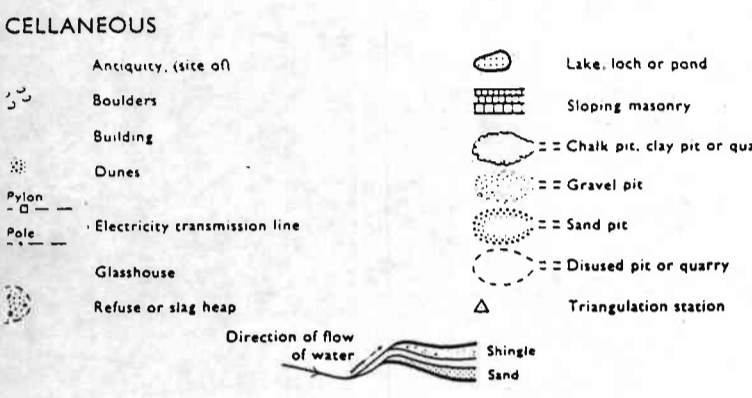
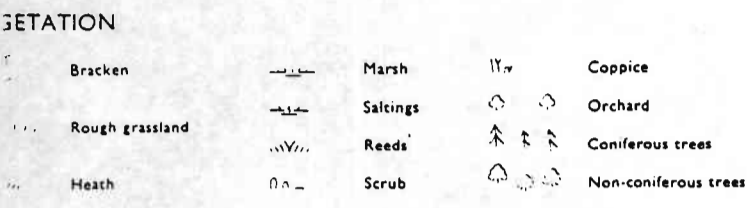
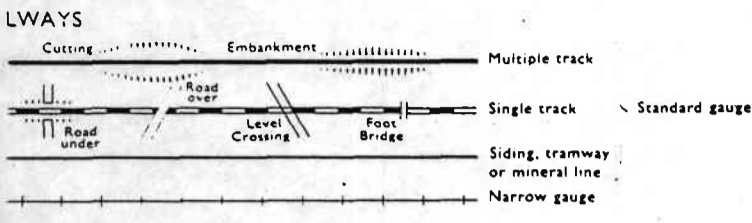
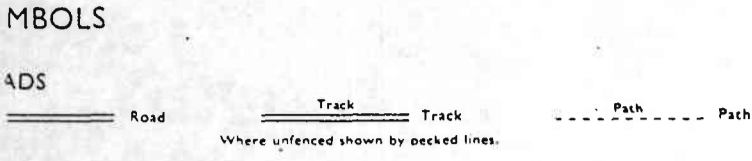
MAP 11
M91 NE

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NN 01 SW

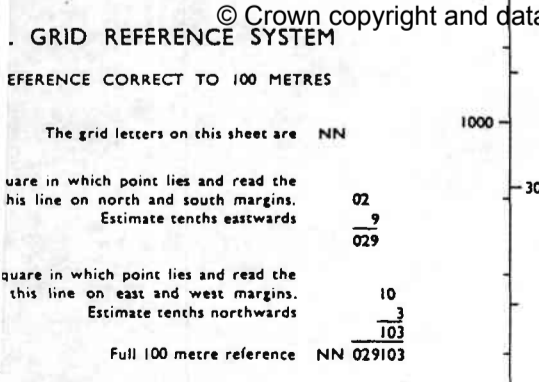
HEIGHTS IN METRES

SCALE 1:10 000



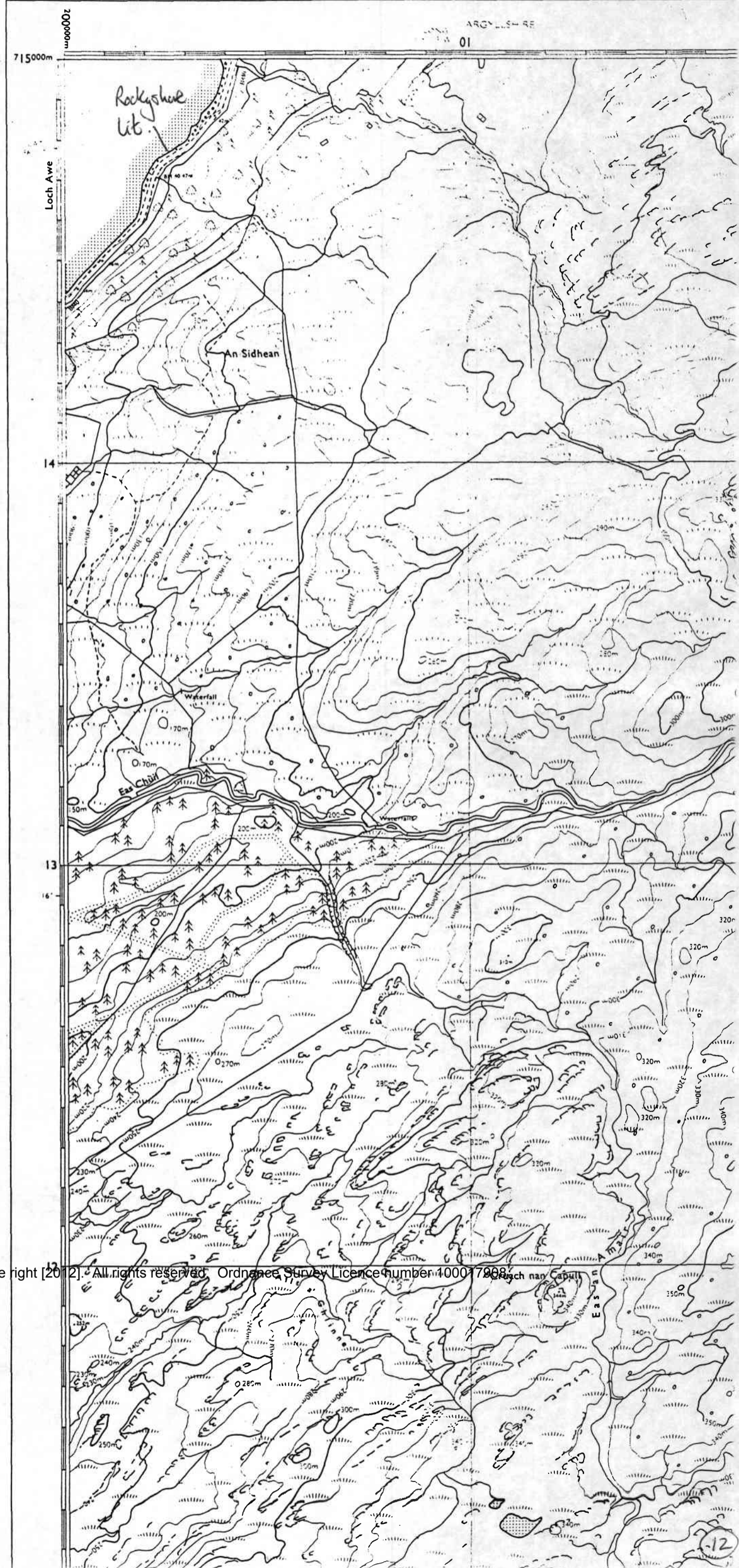
LOCH AWE:
aquatic macrophyte survey 1993
1:10,000

MAP 12



above is unique. If grid letters are omitted, the resulting reference intervals of 100 kilometres. When the area concerned is sufficiently small to be the case with maps on scales of one inch to one mile and contours are normally omitted.

of this sheet True North is 2° 37' East of Grid North and at the East of Grid North, Magnetic North was about 8° West of Grid North in 1950. It is now about 4° in five years.



NM 91 SE

LOCH AWE:
aquatic macrophyte survey 1993

1:10,000
MAP 15



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NM90 NE

HEIGHTS IN METRES

ORDI

0 000

Path Path
d lines.

Multiple track
Single track } Standard gauge
Siding, tramway or mineral line
Narrow 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

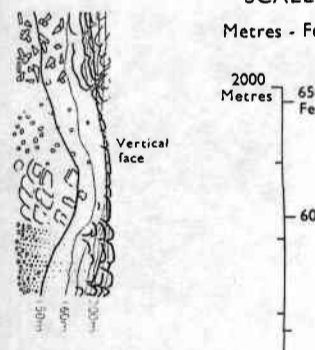
Shingle
Sand

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Shown only when not coincident with other boundaries.

Boundary mereings.
= 4 ft

FEATURES



- Police Station
- Post Office
- Public Convenience
- Public House
- Signal Box
- Spring
- Telephone Call Box
- Telephone Call Post
- Well

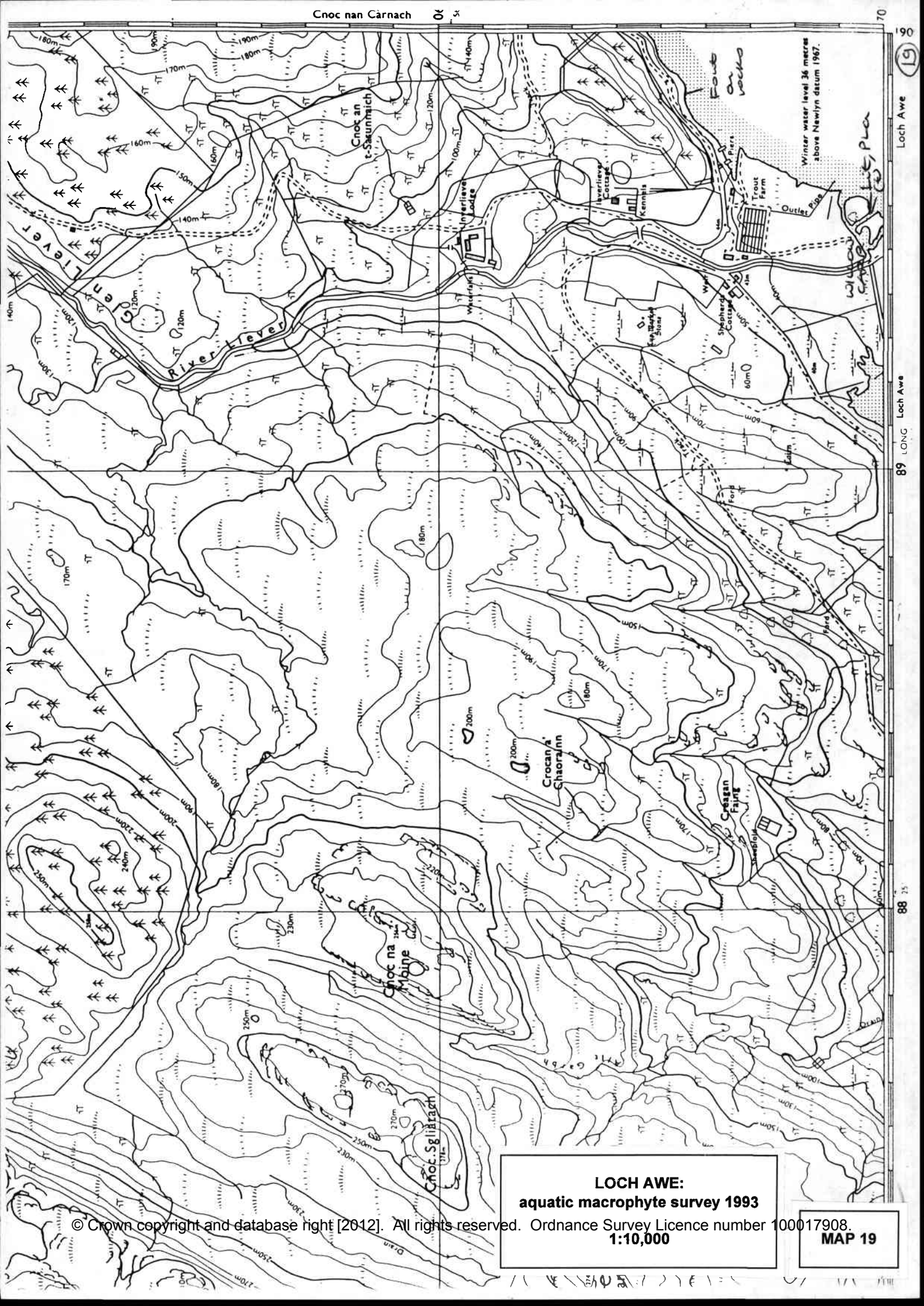
LOCH AWE:
aquatic macrophyte survey 1993

1:10,000

at the of Grid
MAP 16
TS



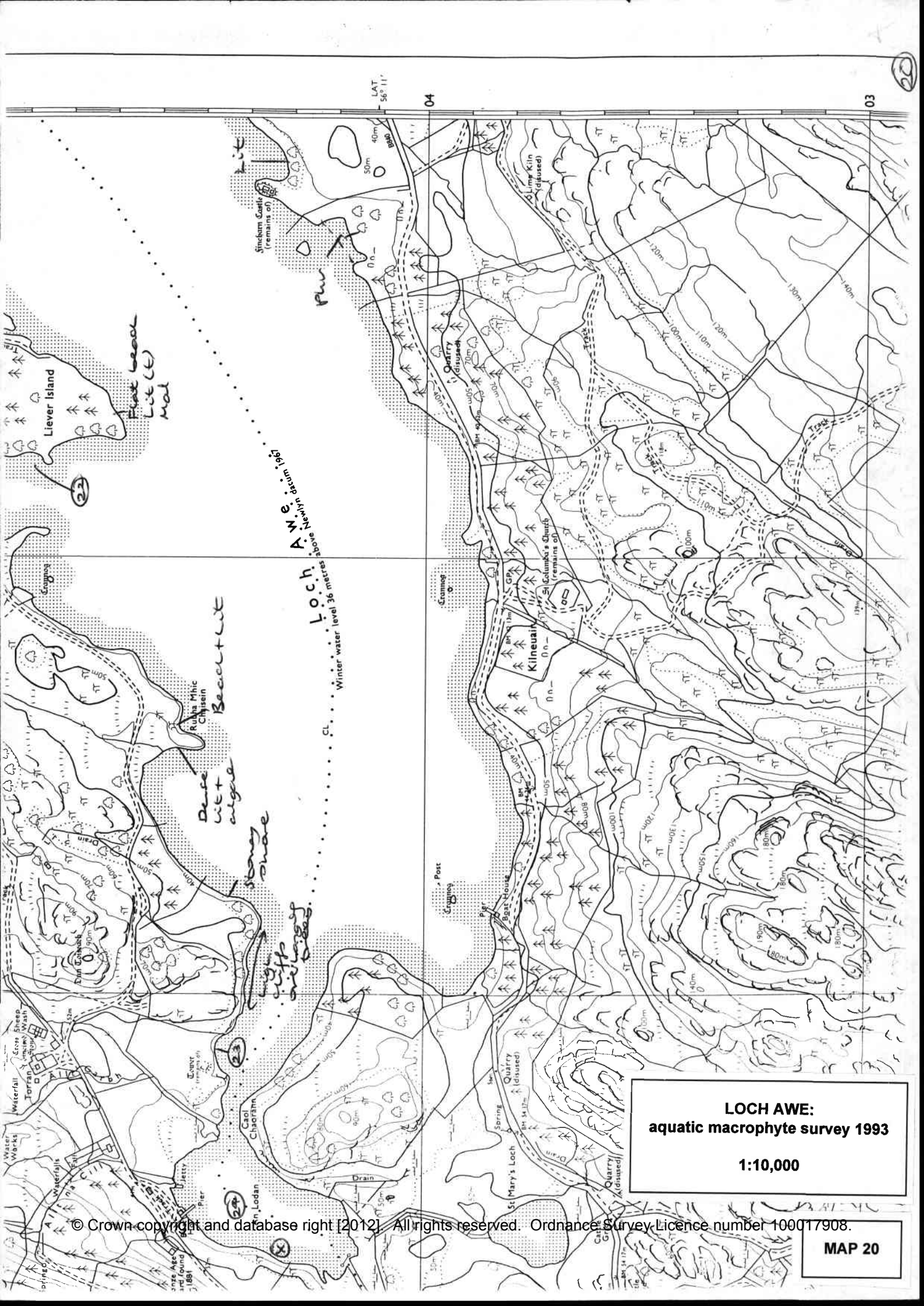
16



LOCH AWE:
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1:10,000

MAP 19

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Beetle lit
Dulse wet algae
stone shade with swimming plants

Flat wood Lit (E) mal

LOCH AWE:
aquatic macrophyte survey 1993
1:10,000

HIGHTS IN METRES

(a) KILMARTIN CP

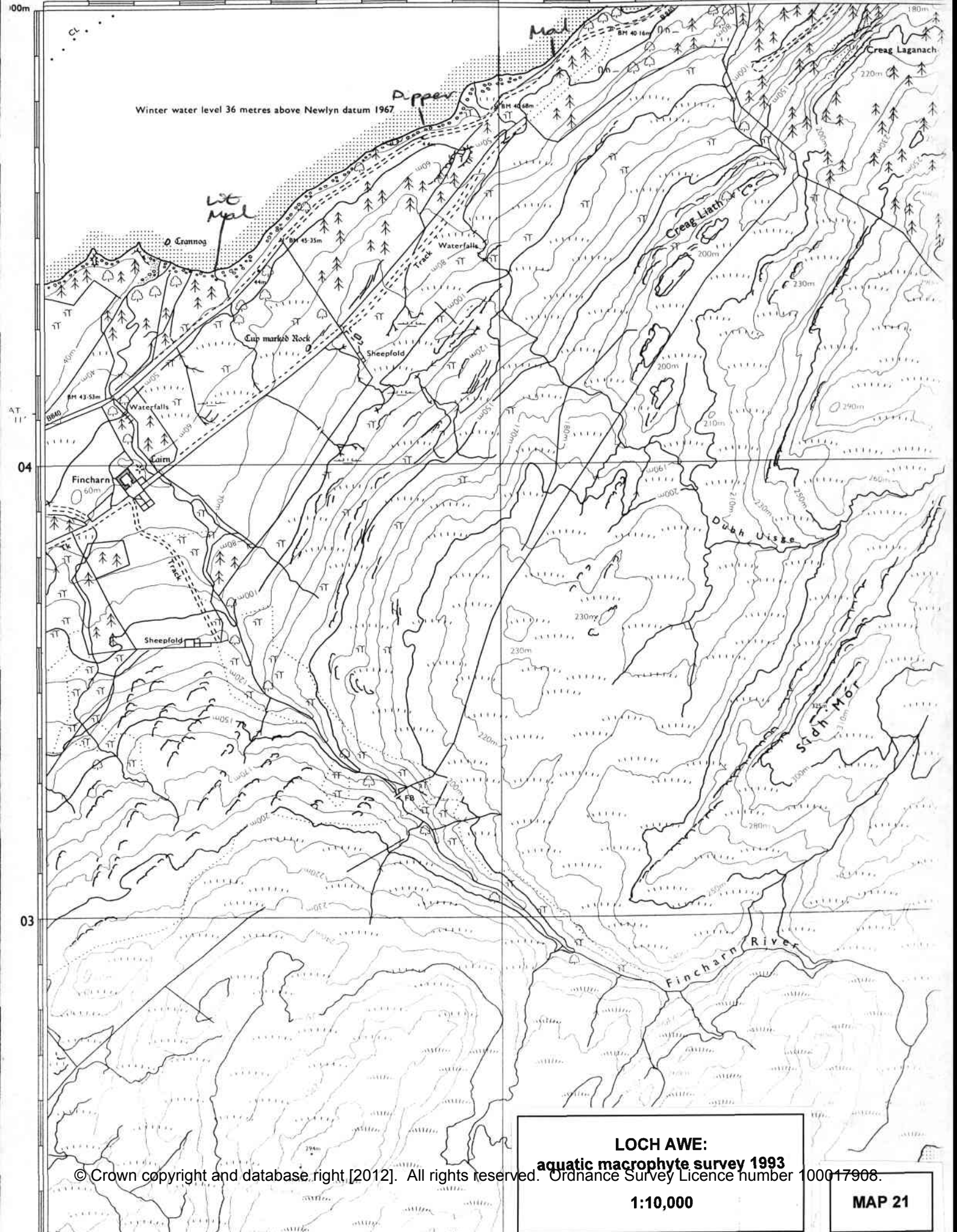
ARGYLLSHIRE

LONG
(a) 5° 23' W

Loch Awe

91

22'



Winter water level 36 metres above Newlyn datum 1967

Upper Mal

Lower Mal

Cronnog

Cup marked Rock

Waterfalls

Track

Sheepfold

Fincharn 60m

Sheepfold

Fincharn River

Sìdh Mòr

Dubh Uisge

LOCH AWE:
aquatic macrophyte survey 1993
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1:10,000

MAP 21

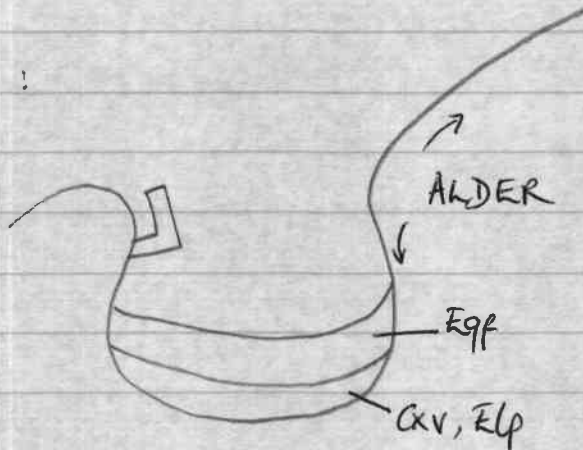
LOCH AWE TARGET NOTES.

27.9.93. (ARD) BRECKNISH Ho. PIER NN065213)

① Potamogeton crispus, Mal, Callitriche lanulata, fon
lit, Rpl, Aqs., Isl, Je(Jb) on stoney shore
Elodea canadensis in clumps offshore

② Bay behind Eilean an t-Sagairt. Silty substrate supporting
marsh vegetation - Cah, Rpl, Jb, Cap, Gf, Aqs, Pop, Hyd,
(*Mentha aquatica*), Cxv, Cxv, Pha, Efp, Je, Sper

③ Silty bay:



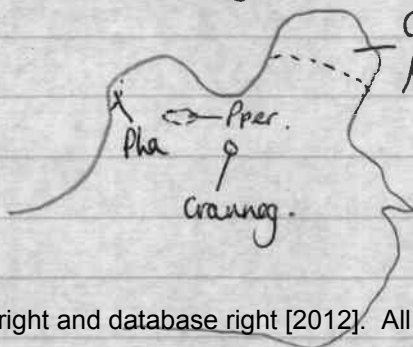
in addition: Je, Hyd, Ma, Gf
Cah, Jb(T), Cap,
Pn, Aqs, Rpl,
Sper, Pop, Pha, Dc
lit, fon, Ja.

④ Rocky bay supporting occasional lit. On perimeter Pha, Rpl, fon,
Pn, Jb, Cxv, Mal, Efp, Efp, Je, Pop, Cap, Hyd, Sper.

⑤ Rocky shore - Pal (washed up), lit, fon, Isl (lob) On shore: Pha, Rpl,
Cap. Submerged vegetation covered in filamentous algae

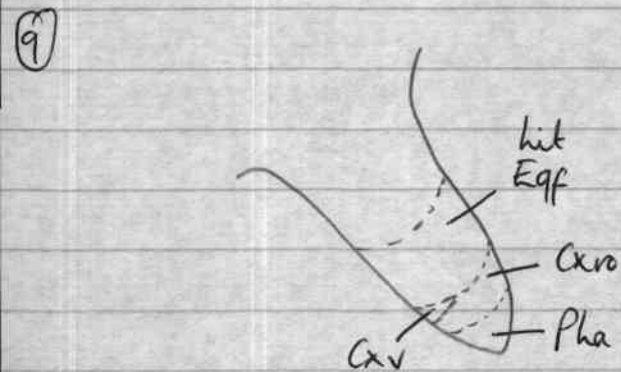
28.9.93

⑥ Large sand/stone bay: Mal, lit (lob), Jb
Cxv, Cxv, Efp, Pha,
Mt, Spsp., Gf



⑦ Sandy bay: Egf, Cxv, Pha, ~~lit~~, Alp, G4, Mt, Rpl, Ja. Along edges - lit lawn, Mal, Jb. Willow, alder, birch on edges.

⑧ Sandy bay supporting emergent stands: Egf, Cxv, Pha, Cxro, Sper, ELP in addition Ma, Cap, Ja, Jb, lit, Mal, G4, Pper, Rpl, Ec, lob.



⑩ Sandy bay supporting Egf, Cxv, Pha, and occasional ELP.

⑪ Cxro, Cxv, Pha, G4, Egf - emergent stands. In addition lit, lob, 1st Sp. sp., dense area of Sub, & water crowfoot (species ~~is~~ unidentified)

⑫ Large stand of SL (NN 134274).

⑬ Dense stand of Cxro on silty substrate. In addition: Egf, Nup?, Cxvi, ELP, Je, lit lob, Pilularia globulifera, Ags, ELP, Sub, Cap, Ma, Hyd, Ppal, Cha, Nit (NN 136134)
273

⑭ Mats of floating Sp. sp. near shore, and Pn. Mal, lob, Jb, ELP, Cah, G4

⑮ Vegetation sparse, occasional ^{floating} stands Sp. sp. Rocky shore with Ag woodland and scattered [^] Pha

⑯ Steep railway embankment of boulders. No vegetation.

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⑰ Callitriche sp., 1st, Pper, lit. On outer shore of island water

Stoney substrate, no vegetation.

⑱ Sandy bay: Font, lit, Jb, Mal, Ec, Iob, Pha

⑲ This arm of the loch has steeply sloping margins of boulders, with no vegetation growing.

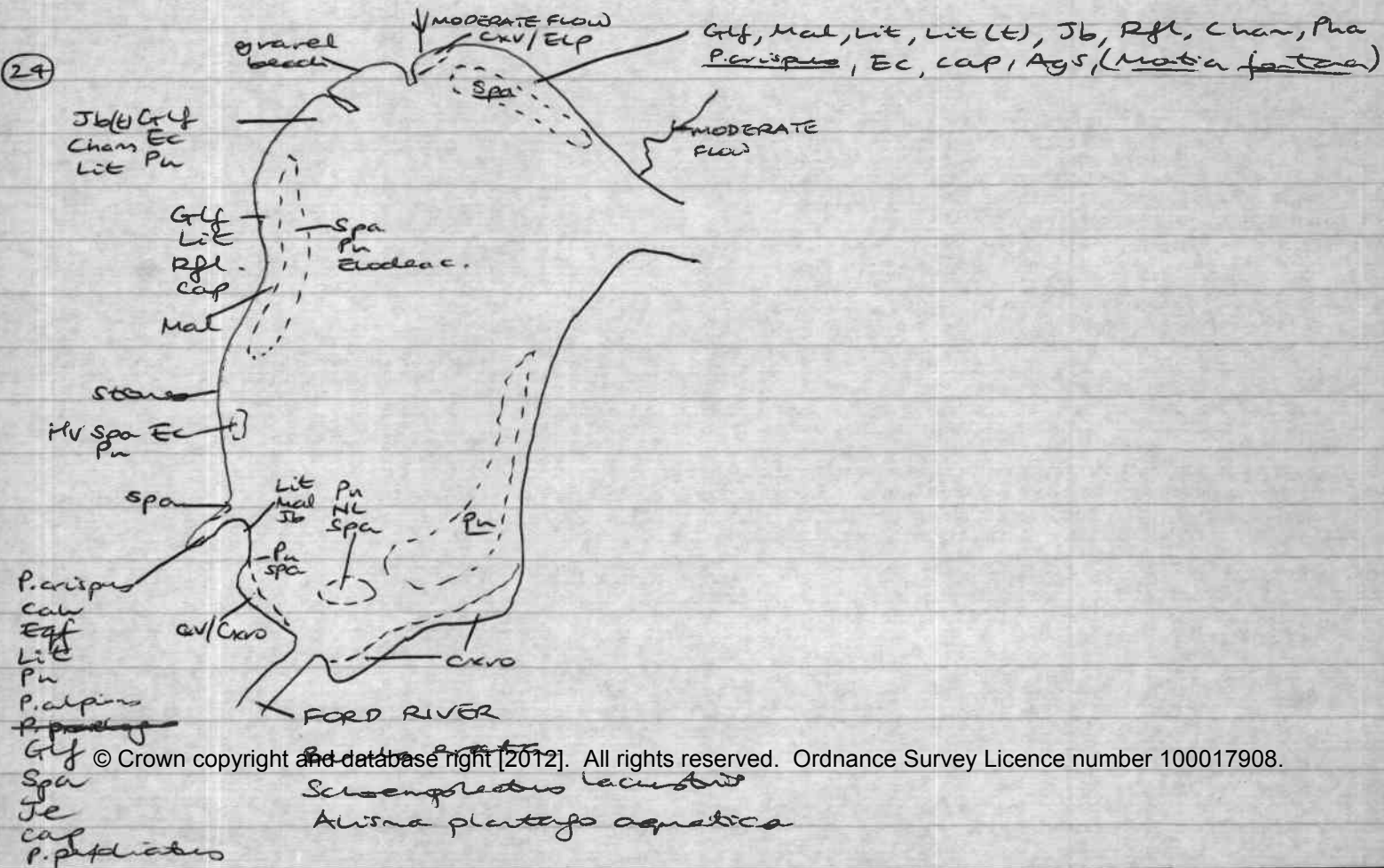
⑳ Most of the margins of the islands are too steep and deep for vegetation, however in sheltered bays of Inishail: Pha, lit, Mal, P. perf were found.

㉑ Sandy, sheltered bay with rich vegetation. Stands of Phr, Pha, Cxro, Cxv, Je, Ccn. Pihleria and Elatine hex., Rf, Jb, lit, Mal. Glf,

㉒ Cxro, Callitriche sp. mt, Je, Carex aquatilis, Ma, Eaf, Pha
Plr, Lit, Mal, Glf, Jb, Eyp.

㉓ Ec, Mal, Lit + lit (terrestrial) Pha, Cxv, Cxro on shore

㉔ Glf, Mal, Lit, Lit (T), Jb, Rfl, Chan, Pha
P. crispus, Ec, cap, Ags, (Motia foetida)



LOCH AWE 27/9/93 - 1/10/93

Two areas of shore omitted for survey:

- ① Innis Chonnell (NN977119) south to Rubha Eneise (NN966096) on the eastern shore & Bàrr Phàc (NN966105) ^{north} to Dalavice (NN970128) on the western shore
- ② Finchar Castle (NN898043) south along the eastern shore to the north of Al Loda (NN877044).

LOCH AWĒ 10km sq. records NNO142 Survey no: 1190

SPECIES	1190.1		1190.2		1190.3		1190.4		1190.5		1190.6	
	NNO2	NN12	NNO1	NM91	NM80	NM90						
Ags	✓	/	✓	/			✓					
Ber		/	/				✓			/		
Cap	✓	/	✓				✓					
Cxa			/				✓	/				
Cxw	✓	/	✓					/				
Cxvo	✓		✓				✓					
Cxv	✓		✓				✓					
Elp	✓		✓	✓			✓					
Epf	✓		✓	✓	✓		✓					
GLf	✓		✓				✓					
Hyd			✓				✓					
Ja	✓		✓	✓	✓							
Jbt			✓				/					
Je	✓		✓	✓			✓					
Litt							✓					
Ma			✓		✓		✓					
mt							✓					
Mon							✓					
Pha	✓		✓		✓		✓			✓		
Rtl	✓		✓	✓								
SL			✓				✓					
Spar	✓											
Spa	✓		✓		✓		✓					
Sub	✓		✓	✓								
Apr							✓					
Cal	✓		✓				✓					
Ec	✓		✓		✓		✓					
Ela	✓		✓									
Ef			✓									
Fou	✓			✓	✓		✓					
Isl	✓		✓							✓		
Jbw	✓		✓	✓			✓					
Lita	✓		✓	✓	✓		✓			✓		
Lob	✓		✓	✓								
Mal	✓		✓	✓	✓		✓			✓		
Mel							✓					
Nup?			✓									
Pil	✓		✓									
Pal			✓				✓					
Per	✓						✓			✓		
Pr			✓				✓					
Pxn												
Pr												
R			✓									
Ppal			✓									

Chavi
 NITOP
 NITV
 Ca
 Phv

not sure which

NO 0142