

Species and Habitat Action Plan Assessment Form

Please refer to the accompanying guidance for information about how to complete this form and an explanation of terms used

Field 1: Action Plan details

Species/Habitat Action Plan	Endemic <i>Limonium</i> species
Lead Partner/Agency	Botanical Society of the British Isles and National Trust
Steering Group/Other organisations	<p><i>Steering group in existence? Please state yes or no. Please list the organisations represented.</i></p> <p>Yes.</p> <p>English Nature Countryside Council for Wales Pembroke Coast National Park National Museum of Wales BSBI National Trust Birkbeck College, London</p>
Work programme in existence?	<p><i>Please state yes or no. If in existence, please use the agreed work programme to update Field 3 and Table B.</i></p> <p>No.</p>

Field 2: Objectives and targets overview

Please list the targets for the action plan, indicating in which country/region the target is applicable, and additional comments including the rationale for new targets. For each new target please add new sequential paragraph numbers and target text. Please provide information about progress and country disaggregation in Table A for all targets.

Number and text	UK	E	NI	S	W	Comments
4.1 Maintain the range of <i>L. procerum</i> and <i>L. britannicum</i> .	Y	Y		Y	Y	SNH not represented at meeting. Distribution of these taxa, especially the constituent subspecies, is incompletely known - further survey required in many areas, as well as taxonomic clarification of some particularly 'difficult' populations."
4.2 Maintain the other endemic <i>Limonium</i> taxa at all extant sites.	Y	Y		Y	Y	SNH not represented at meeting. Distribution of several taxa is still probably incompletely known - further survey required in some areas, eg. Pembrokeshire, Gower, S.Devon, Dorset, Cornwall

Field 3: Proposed actions overview

Please list the proposed actions for the action plan, indicating in which country/region the action is applicable. For each new action please add new sequential paragraph numbers and action text. If the action is regarded as significant (please see guidance) indicate this in the box and provide further details in Table B. For actions not regarded as significant simply state if the action is ongoing or complete. Remember any action which is being dropped from the workplan will be regarded as significant for the first round of reporting.

Number and text	UK	E	NI	S	W	Action significant?	Action complete or ongoing? (Please state yes, not started, or ongoing.)
5.1.1 Following taxonomic clarification, reconsider species for addition to Schedule 8.	Y	Y	-	Y	Y	No.	Yes. Steering group concluded that Schedule 8 not appropriate to endemic <i>Limonium</i> conservation.
5.1.2 Consider proposing endemic <i>Limonium</i> for Annex II of EC Directive.	Y	Y	-	Y	Y	No.	Yes. Annex II not appropriate.
5.1.3 Promote management policies to help maintain natural geomorphology especially shingle habitats for <i>L. binervosum</i> agg.	Y	Y	-	Y	Y	No.	Yes. Action assigned to EA (not present at steering group meeting). Steering group to write to EA representative in 2000. In England, Shoreline Management Plans are also potentially useful
5.1.4 Ensure identification of marine environmental high risk areas to help management of oil transport and reduce pollution risk.	Y	Y	-	Y	Y	No.	Not started. Action assigned to DETR (not present at steering group meeting). Steering group to write to DETR representative in 2000. Steering group concluded this as low risk/low priority.
5.2.1 Ensure <i>Limonium</i> requirements are taken into account for management plans for SACs.	Y	Y	-	Y	Y	No.	Not started. SAC management plans anticipated for 2000/1 (?). List of management needs to be drawn up by steering group.
5.3.1 Promote the development of an <i>ex situ</i> conservation programme.	Y	Y	-	Y	Y	Yes.	Ongoing. National Botanic Garden of Wales approached to hold endemic <i>Limonium</i> collection.
5.4.1 Ensure that rock climbing organizations are aware of <i>Limonium</i> spp. and advise on areas to be avoided.	Y	Y	-	Y	Y	Yes.	Ongoing. Occasional and / or local restrictions arranged with climbing clubs. A systematic information strategy is required. Liaison with climbing clubs in areas holding particularly vulnerable populations (eg <i>loganicum</i> in West Penwith).

5.5.1 Promote research into genetics and taxonomy to inform future action plan.	Y	Y	-	Y	Y	Yes.	Ongoing. NERC grant applied for from Birkbeck College to carry out further genetic research. CCW organized training day – listed partners undertook training / preliminary field recognition course. 2nd training event planned for 2000 in southern England (probably Dorset).
5.5.2 Collate expert data and resurvey where necessary to assess population status.	Y	Y	-	Y	Y	Yes.	Ongoing. All current records on Threatened Plants Database. Resurvey where necessary (see 5.5.1) and continue to collect detailed information on the many populations still requiring taxonomic assessment.
5.5.3 Investigate current threats to populations.	Y	Y	-	Y	Y	Yes.	Ongoing. Steering group reviewed current and potential threats and proposed monitoring strategy.
5.5.4 Investigate conservation of <i>L. binervosum</i> agg. in Europe for UK programme.	Y	Y	-	Y	Y	No.	Not started.
5.5.5 Establish monitoring strategy.	Y	Y	-	Y	Y	Yes.	Ongoing. Survey data sufficient to prescribe population census technique; further taxonomic surveys still necessary in certain areas. There is still considerable need for further surveys/resurveys of some areas, many populations still requiring critical taxonomic assessment.
5.5.6 Assess effects of Sea Empress oil spill.	Y	Y	-	Y	Y	Yes.	Yes. No impact.
5.6.1 Assess need to raise awareness in tourism sector e.g. literature.	Y	Y	-	Y	Y	Yes.	Not started. Requirement for improved illustrations and publicity identified.
5.7.1 Consider linkages to maritime cliffs and shingle HAPs.	Y	Y	-	Y	Y	Yes.	Not started. Approach to be made to HAP steering groups.

Possible new actions discussed for consideration in the next review of the SAP:

- 1) the need to extend the SAP to include endemic subspecies within the non-endemic *L. binervosum sensu stricto* (ie *saxonicum*, *anglicum*, *mutatum*, *cantianum*).
- 2) the proposal to draw up 'mini-plans' for each taxon to supplement the published plan for the group as a whole;
- 3) the need to establish how well the species/subspecies are represented within the SSSI series. (eg we need to be able to answer the question: "Are there any taxa not currently protected within at least one SSSI?")

Field 4: Assessment of status

Please tick the appropriate category to indicate the assessment of status of the species or habitat, for each country/region where appropriate, and provide a statement supporting the category selected.

	Not appropriate	Recovered	Signs of recovery	No change	Declining	Lost	Insufficient information
UK							<input type="checkbox"/>
England							<input type="checkbox"/>
Northern Ireland	<input type="checkbox"/>						
Scotland							<input type="checkbox"/>
Wales							<input type="checkbox"/>
<p>UK - several of the taxa covered by this SAP were not recognised as distinct species/subspecies until the mid-1980s, making any long term assessment of population trends problematical.</p> <p>Wales - No detailed distribution and abundance data to show evidence of increase or decline.</p> <p>Scotland - No detailed distribution and abundance data to show evidence of increase or decline.</p> <p>England – No detailed distribution and abundance data to show evidence of increase or decline, though some populations known to be at risk from climbing activities (eg <i>L. loganicum</i> in West Penwith).</p>							

Field 5: Summary statement

Please provide an overview of plan implementation, including new factors affecting the species or habitat which will accelerate or constrain progress towards meeting of the targets. Where a factor results in new action(s) please cross-reference back to the relevant numbers under Field 3 and Table B.

The need for improved field recognition and training materials was seen to be a priority for survey, monitoring and taxonomic review (and most subsequent action points in this plan). Any major threats to populations are considered to be local and not widespread, based on current knowledge. Given the lack of immediate threats and a need to improve field and desktop information a ten to fifteen year programme for implementation is seen as more appropriate for conservation of these taxa.

Field 6: Signing off

Please 'sign off' the form below to confirm that steering group members or key contacts have been consulted and agreed the information provided.

Contact details	Lead Partner	Contact Point
Name	Sarah Whild	Simon Leach
Organisation	Botanical Society of the British Isles	English Nature
Assessment date (dd/mm/yy)	19/09/99	28/09/99

Completed forms should be submitted to JNCC

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 Joint Nature Conservation Committee
 Monkstone House
 City Road
 Peterborough PE1 1JY
 Tel: 01733 562626
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 E-mail: lpr99@jncc.gov.uk

Table A: Action Plan objectives and targets (Copiable table)

For each target please state how, if applicable, it has been disaggregated to the country level. Please insert the paragraph number, UK target and country-specific disaggregated target(s) into the table. Please tick the appropriate category to indicate progress against published and disaggregated targets. For each target please copy the table and detail the (existing or new [new paragraph numbers should run sequentially, under relevant headings in the published volumes]) paragraph number, target text and an assessment of progress.

Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.1 Maintain the range of <i>L. procerum</i> and <i>L. britannicum</i> in Scotland, England and Wales.				
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
UK			<input type="checkbox"/>		
England			<input type="checkbox"/>		
Northern Ireland	<input type="checkbox"/>				
Scotland			<input type="checkbox"/>		
Wales			<input type="checkbox"/>		
Both species are routinely noted as important site features where they occur on SSSIs; however, some large populations are currently outwith SSSIs. For both species (and several of the subspecies), full extent of range only incompletely known; further survey required in some areas. SSSI coverage needs to be reviewed.					
Objective/target (For new or revised targets please provide the new paragraph number and target text.)	4.2 Maintain the other endemic <i>Limonium</i> taxa at all extant sites in Scotland, England and Wales.				
Country	Not appropriate	Target achieved	Some progress	No progress	Insufficient information
UK			<input type="checkbox"/>		
England			<input type="checkbox"/>		
Northern Ireland	<input type="checkbox"/>				
Scotland			<input type="checkbox"/>		
Wales			<input type="checkbox"/>		
Text description of target progress (separate for each country/region):					
There may be other populations of the endemic species yet to be discovered (as recent experience of <i>L. parvum</i> in south Pems. has highlighted); further survey required, particularly in vicinity of known sites for rare endemics.					

Table B: Proposed actions (Copiable table)

For each significant action please copy and complete the table below.

Published action/organisation(s) responsible (For new or revised actions please provide the new paragraph number and action text.)	5.3.1 Promote the development of an <i>ex situ</i> conservation programme (CCW, EN, RBG Kew)	
Work plan/organisation(s) responsible (Summary of work plan agreed by the steering group, broken down by year if possible.)	Countryside Council for Wales to approach NBGW 2000 –04.	
Action/workplan undertaken? (Please state yes or no.)	Yes	
Description of work taken and organisation responsible	National Botanic Garden of Wales approached to hold endemic <i>Limonium</i> collection.	
Output and timescale	A collection of endemic <i>Limonium</i> spp. at NBGW by 2005.	Action by 2005
Constraints to action (Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)	Source of funding required. Field skills of collectors. Potential cultivation / horticultural problems.	
Action complete or ongoing? (Please state yes, not started, or ongoing.)	Ongoing	
Next steps	Please outline future action/work including an indication of expected output, timescale and organisation responsible.	
Output and timescale	Collection and cultivation methods/strategy to be developed by all partners.	Action by 2005

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.4.1 Ensure that rock climbing organizations are aware of <i>Limonium</i> species and aware of areas to be avoided.	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Lead partners to develop information strategy and protocol.	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	No.	
Description of work taken and organisation responsible	Occasional and / or local restrictions arranged with climbing clubs, notably at West Penwith. A systematic information strategy is required.	
Output and timescale	Strategy achieved.	<i>Action by 2005.</i>
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Insufficient data on current distribution. Time required to produce publishable guidelines. Inadequate current illustrations and publicity materials.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	Strategy to be written. Appropriate UK and local climbing restrictions. Publicity in climbing press.	<i>Action by 2005</i>

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.5.1 Promote research into genetics and taxonomy to inform future action plan.	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	.Martin Ingrouille, Birkbeck College, responsible for genetic research to identify threatened and restricted taxa.	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	Yes.	
Description of work taken and organisation responsible	NERC grant applied for from Birkbeck College to carry out further genetic research. CCW organized training day – listed partners undertook training / preliminary field recognition course.	
Output and timescale	Clarification of UK status of <i>Limonium</i> .	Action by 2005
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Funding. Field skills of collectors.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing.	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	Further training courses. Publications and illustrations. Detailed locality and status data to be held on Threatened Plants Database.	Action by 2001+

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.5.2 Collate expert data and resurvey where necessary to assess population status.	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	.BSBI, National Trust, CCW, EN, SNH to develop survey strategy to feed into Threatened Plants Database (see 5.5.1).	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	No.	
Description of work taken and organisation responsible		
Output and timescale	Site managers and/or contract surveyors to record extent and abundance of all taxa.	<i>Action by</i> 2005+
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Funding. Taxonomic difficulties, including likelihood of some modifications in light of further genetic and taxonomic research.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing.	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	Taxonomists to determine species status. Regular publicity of taxonomic developments to be produced for botanical press.	<i>Action by</i> 2000

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.5.3 Investigate current threats to populations.	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Develop a monitoring strategy.	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	Yes.	
Description of work taken and organisation responsible	Preliminary locality and abundance data of known taxa by country agencies, BSBI and Birkbeck College.	
Output and timescale	Detailed register by 2005.	<i>Action by 2005</i>
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Clarification of taxonomy.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing.	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	Detailed register by 2005.	<i>Action by 2005</i>

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.5.5 Establish monitoring strategy	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	BSBI, Country agencies and National Trust to develop detailed locality and abundance and recording method under guidance from Birkbeck College.	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	No.	
Description of work taken and organisation responsible		
Output and timescale	Detailed locality and abundance register.	Action by 2005
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Funding. Taxonomic difficulties, including likelihood of some modifications in light of further genetic and taxonomic research.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Ongoing.	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	Publicity for monitoring and research – by 2000. Detailed locality and abundance register – by 2005.	Action by 2005

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.5.6 Assess effects of Sea Empress oil spill.	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	CCW report.	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	Yes.	
Description of work taken and organisation responsible	Assessment of <i>Limonium parvum</i> at Stackpole and Castlemartin.	
Output and timescale	Short report.	Action by 1997
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Inadequate previous data.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Yes.	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	No further action required.	Action by

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.6.1 Assess need to raise awareness in tourism sector.	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Development of improved illustrations and literature.	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	No.	
Description of work taken and organisation responsible	N/A	
Output and timescale	Commissioned botanical illustrations and popular account.	<i>Action by 2005</i>
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Funding.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Not started.	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	Commission botanical illustrations and popular account for publication in appropriate media.	<i>Action by 2001</i>

Published action/organisation(s) responsible <i>(For new or revised actions please provide the new paragraph number and action text.)</i>	5.7.1 Consider linkages to maritime cliffs and shingle HAPs.	
Work plan/organisation(s) responsible <i>(Summary of work plan agreed by the steering group, broken down by year if possible.)</i>	Country agencies to propose linkage 2000 – 2001	
Action/workplan undertaken? <i>(Please state yes or no.)</i>	No.	
Description of work taken and organisation responsible	N/A	
Output and timescale	Formal link to sea cliff and shingle HAP steering groups.	<i>Action by 2002</i>
Constraints to action <i>(Please provide an explanation of the significant issues or difficulties encountered and how they have been or will be resolved. Any constraints which the steering group are unable to resolve should also be detailed.)</i>	Administrative/organizational.	
Action complete or ongoing? <i>(Please state yes, not started, or ongoing.)</i>	Not started.	
Next steps	<i>Please outline future action/work including an indication of expected output, timescale and organisation responsible.</i>	
Output and timescale	Formal link to sea cliff and shingle HAP steering groups.	<i>Action by 2002</i>