

# **NORFOLK BIODIVERSITY PARTNERSHIP**

**Co-ordinator's Progress Report for the Period:  
6 June – 30 October 2008**



## NORFOLK BIODIVERSITY PARTNERSHIP

### Co-ordinator's Progress Report: 6 June – 30 October 2008

#### Introduction

This report presents a brief summary of the activities of the Biodiversity Co-ordinator over the five-month period from 6 June to 30 October 2008. As with the previous progress reports, it is presented using the template from Natural England, which is now in use by many LBAP partnerships across the country. Additional information is presented in a series of annexes: Annex 1 presents a summary of the issues addressed at recent Topic Group meetings; Annex 2 presents a summary of the recent project proposals considered by the Biodiversity Project Fund; Annex 3 is a list of all the projects supported to date by the Fund; and Annex 4 presents information about forthcoming biodiversity events.

#### Highlights

This has been a particularly busy and productive period for the Partnership. Highlights have included the following:

- Health and Biodiversity Seminar: As a follow-up to last year's Biodiversity Forum, an in-depth seminar on Biodiversity and Health was organised on 2 July, in collaboration with NHS Norfolk. The seminar was designed to: explore the linkages between health and the natural environment; promote information sharing and co-ordination among the various "health and environment" initiatives in Norfolk (eg, health walks, green gyms, etc); encourage greater collaboration and synergies between the health and environment sectors; and explore the desirability of creating a permanent Health and Biodiversity Forum.
- Fourth Planning and Biodiversity Seminar: The annual Planning and Biodiversity Seminar was held on 11 September, in collaboration with the Suffolk Biodiversity Partnership. The seminar was facilitated once again by Mike Oxford from the Association of Local Government Ecologists (ALGE), and attracted over 50 participants, including nearly 30 planners and development control officers. The day featured presentations from Natural England (on protected species), The Wildlife Trusts (on their role in the planning process), and the Norfolk and Suffolk Biological Record Centres. Heather Webb from the Bedfordshire and Luton Biodiversity Partnership gave a particularly well-received presentation about Bedfordshire's green infrastructure roof tax.
- Non-Native Species Initiative: A full-time officer (Mike Sutton-Croft) has been appointed as the Co-ordinator of the Norfolk Non-native Species Initiative, for an initial period of one year. He will be responsible for a range of activities, including: the creation of a centralised database on non-native species; the development of a status report and action plan dealing with six key riparian and

aquatic species (eg, Himalayan balsam and floating pennywort); and the creation of a special web page on non-natives on the Norfolk biodiversity website. A number of demonstration control and eradication projects are also being planned; the Initiative has already successfully drawn down £6,000 from Defra to assist the Water Management Alliance to eradicate giant hogweed along the River Nar.

- Community Biodiversity Awards: The prize-giving ceremony for the Community Biodiversity Awards was held at the Assembly House on the evening of 24 September. Four local groups were recognised for their outstanding contributions to conservation in the county:
  - The Acle Lands Trust received the Site Award for its woodland conservation and management work at Damgate and Roman Woods;
  - The East of England Apples and Orchards Project (EEAOP) received the Education Award in recognition of its efforts to raise awareness of the region's traditional fruit and orchard heritage;
  - The Southrepps Common Trust received the Local Group Award for its efforts to conserve and manage a river valley site of national and European importance;
  - Lucy Whittle won the Individual Award for her dedication to the conservation and enhancement of the biodiversity of Kenninghall.

Four Honourable Mentions were also be awarded, to the following:

- Dennis, Sally and Rachel Long, in recognition of the creation of Long's Wood – the largest community woodland in Norfolk (Site Category);
- Dersingham Primary School, for the development of its wildlife area (Education Category);
- The Bergh Apton Conservation Trust, in recognition of its conservation work at Valley Marsh and Church Plantation in South Norfolk (Local Group Category);
- Bill Flynn, for his efforts to manage and restore threatened habitats on Bawdeswell Heath (Individual Category).

The awards were presented by Steve Scott, Regional Director with the Forestry Commission.

- Annual Biodiversity Forum: The Annual Biodiversity Forum was held on 2 October around the theme of "biodiversity and outdoor education". The Forum brought together over 100 participants, and explored the ways in which outdoor learning can enhance children's educational attainment, improve emotional development, increase confidence and strengthen social skills. Amongst other topics, participants heard about national initiatives such as the *Learning Outside the Classroom Manifesto*; Froglife's innovative activities with young offenders; the County Council's Environmental and Outdoor Learning Programme; and the inspiring approaches to outdoor learning being used by the Forest School at Whitlingham in Norwich. The day also featured a special exhibit called "Conservation Counts". This was put together by the Norfolk Wildlife Trust, and sought to communicate information about the county's biodiversity statistics by using grains of barley. In total, the Trust estimated that over 3,000,000 grains were used in the display!
- Biodiversity Project Fund: Five new projects were approved by the Biodiversity Project Fund over the reporting period, designed to:
  - Promote the conservation of the grey carpet moth in the Brecks;
  - Identify Important Arable Plant Areas in Norfolk;
  - Carry out a preliminary scoping of the Wash Rivers, in preparation for a crayfish survey next year;
  - Develop a biodiversity audit for the Brecks, as the first step towards the preparation of a Brecks Biodiversity Action Plan;
  - Continue the Broads mink management project.

More information about these highlights, as well as a complete summary of the progress being made against all the "Core Services", is presented in the following table.

Scott Perkin  
 Biodiversity Co-ordinator  
 Norfolk Biodiversity Partnership

27 October 2008

## NORFOLK BIODIVERSITY PARTNERSHIP

### Summary of Progress

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>1. Establishing and maintaining a broad partnership</b></p> <ul style="list-style-type: none"> <li>As far as possible, ensure that all relevant sectors are engaged in the local biodiversity partnership.</li> </ul>	<ul style="list-style-type: none"> <li>Local partnership contains representatives from a wide range of sectors including, as far as possible and as appropriate: business and industry; agriculture; water; marine and coastal; forestry; education; and health. It also includes local government, NGOs and government agencies.</li> <li>Partnership meets regularly (at least three times per year) and fosters ownership of outcomes by all stakeholders.</li> </ul>	<ul style="list-style-type: none"> <li>Preliminary but positive discussions have been held with UEA and Anglian Water about the possibility of their formally joining the Partnership.</li> <li>A meeting of the Steering Group was held on 5 June 2008. Key agenda items included a presentation from Plantlife on its new fenland project, and a talk about Norwich's "Year of Action", organised under the umbrella of the BBC Breathing Places campaign.</li> </ul>
<p><b>2. Delivering BAP locally</b></p> <ul style="list-style-type: none"> <li>Where they do not already do so, ensure that local biodiversity objectives include spatially-explicit SMART targets for the delivery of habitats and species, taking into account national targets.</li> <li>Work with the partnership to agree a range of projects to deliver the local biodiversity objectives.</li> </ul>	<ul style="list-style-type: none"> <li>A prioritised list of biodiversity projects that incorporate spatially-explicit targets for the delivery of habitats and species and which, where possible, make links to social and economic objectives.</li> <li>Implementation of these projects and demonstration of progress towards local objectives.</li> </ul>	<ul style="list-style-type: none"> <li>The Partnership has continued to operate its Biodiversity Project Fund, which is used to support priority activities contained in the Action Plans. (For a description of projects supported over this period, please see the section on "Additional Services" below).</li> </ul>

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>3. Fund-raising for BAP delivery</b></p> <ul style="list-style-type: none"> <li>• Develop and implement a funding strategy to obtain national (e.g. HLF) and local sources of external funding in support of BAP projects and to obtain funding for the local biodiversity service in the long term.</li> <li>• Work with the regional biodiversity partnership in the development of funding for collaborative projects.</li> </ul>	<ul style="list-style-type: none"> <li>• Implementation of funding strategy to lever funds for biodiversity from external bodies and to secure long-term funding for biodiversity in the area.</li> </ul>	<ul style="list-style-type: none"> <li>• As required by Natural England, a funding strategy and action plan have now been prepared.</li> <li>• The Memorandum of Agreement between Natural England and NCC has now been signed. This is an extremely positive development, which provides a confirmed source of income to the Partnership for the next three financial years.</li> </ul>
<p><b>4. Reporting and monitoring progress</b></p> <ul style="list-style-type: none"> <li>• Use the Biodiversity Action Reporting System (BARS) to report on the implementation and delivery of actions initiated locally.</li> </ul>	<ul style="list-style-type: none"> <li>• Progress is reported at least annually, and the LBAP contribution is fully reported in triennial national BAP reporting rounds.</li> <li>• Results of monitoring used to inform review of objectives and to set future directions. Undertake a review of the LBAP at least every 5 years seeking to ensure that it remains relevant and adapts to take into account any changes to national priority species, habitats and targets.</li> </ul>	<ul style="list-style-type: none"> <li>• A report for the 2008 national BAP reporting round is currently in preparation, and will shortly be entered onto BARS.</li> <li>• Preliminary plans have been made for a special ten-year review workshop involving all partners in the summer of 2009, to mark the 10<sup>th</sup> anniversary of the launch of the Norfolk Biodiversity Action Plan.</li> </ul>

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>5. Integrating BAP into local policies</b></p> <ul style="list-style-type: none"> <li>Proactively support local authorities, so that they are better able to develop innovative ways of delivering biodiversity locally.</li> <li>Actively promote the inclusion of biodiversity objectives into Community Strategies, Local Development Frameworks and other local plans.</li> <li>Promote best practice in the planning system, providing support and advice to LPAs to avoid loss of features through development, and to make the most of opportunities from planning gain.</li> </ul>	<ul style="list-style-type: none"> <li>Regular liaison established with the local strategic partnership and planning authority.</li> <li>Increased profile for biodiversity within existing and new local plans (demonstrate this with examples).</li> <li>New or revised Community Strategies and LDFs include biodiversity objectives consistent with LBAP targets.</li> </ul>	<ul style="list-style-type: none"> <li><u>Norfolk Local Area Agreement</u>: Considerable progress has been made in taking forward the two biodiversity indicators in the LAA: NI 197 on County Wildlife Sites, and a local indicator dealing with ecological networks. Sam Neal (NCC Environmental Information Support Officer) and I represented Norfolk at a national Defra workshop on NI 197, held in Reading on 15 October.</li> <li><u>Seminar on Health and Biodiversity</u>: As a follow-up to last year's Biodiversity Forum, a seminar on health and biodiversity was held on 2 July, in collaboration with NHS Norfolk. The seminar brought together environmental and health practitioners for an exploration of the potential for greater synergy between the two sectors, eg, through programmes such as Green Gyms and Health Walks.</li> <li><u>Seminar on Planning and Biodiversity</u>: In collaboration with the Suffolk Biodiversity Partnership, the 4th annual planning and biodiversity seminar was successfully held on 11 September. A particular effort was made to attract development control officers to the seminar this year.</li> <li><u>Community Strategies</u>: The Broadland Local Strategic Partnership has requested me to serve as their "Environmental Champion". Following discussions, a project proposal has been submitted by Norfolk Wildlife Services to the Broadland LSP, for work on County Wildlife Sites. The South Norfolk LSP is also continuing its work on ecological networks.</li> </ul>

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>6. Promoting BAP locally</b></p> <ul style="list-style-type: none"> <li>Develop and implement a communications plan to raise awareness in support of BAP, working with partners and any established public awareness working group.</li> <li>Increase the engagement of local businesses and communities in the BAP process.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure a web-presence for the partnership is maintained and take steps to promote biodiversity through implementation of the communications plan, including the publication and distribution of an annual newsletter.</li> <li>Demonstrate an increase in business participation through funding and implementation.</li> </ul>	<ul style="list-style-type: none"> <li>Two new major sections are currently being developed for the website: one on non-native species, and one dealing with planning and biodiversity.</li> <li>News stories and updates have continued to be added to the website.</li> <li>A new set of attractive display banners has been prepared to replace the existing display boards, which were out-of-date and in poor condition. A biodiversity stand was set up at "Wild about Norfolk", on 6-7 September.</li> <li>Preliminary discussions have been held with Anglian Water about the possibility of their joining the Partnership.</li> </ul>
<p><b>7. Representation</b></p> <ul style="list-style-type: none"> <li>Ensure the LBAP partnership is represented on the regional biodiversity forum and other relevant regional and national meetings.</li> <li>Respond to consultation from partners at regional and national levels of the BAP process.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure the LBAP partnership is represented at appropriate regional and national meetings and fora (e.g. review groups and training workshops). Demonstrate with examples.</li> </ul>	<ul style="list-style-type: none"> <li>I took part in the national LBAP conference held in Cambridge from 15 to 17 July. This was a tremendously inspiring and informative event, involving biodiversity co-ordinators from across the UK as well as national HAP and SAP leads. The final day had a special focus on business and biodiversity.</li> <li>I attended two meetings of the Regional Biodiversity Forum in Cambridge, on 24 July and 16 October 2008. The highlight of the October meeting was the launch of the Regional Biodiversity Delivery Plan, which sets out a strategic framework for biodiversity action in six key "challenge areas".</li> </ul>

CORE SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
	<ul style="list-style-type: none"> <li>• Responses to regional and national consultations relating to biodiversity (demonstrate with examples).</li> <li>• Regular contacts exist with the regional biodiversity partnership and the national LBAP co-ordinator and facilitator, with a two-way flow of information including exchange of examples of good practice and over-arching problems (demonstrate with examples).</li> </ul>	<ul style="list-style-type: none"> <li>• I have been invited to become a member of the Local and Regional Strategic Implementation Group. This is a national group established under the umbrella of the England Biodiversity Strategy.</li> <li>• I remain in frequent (fortnightly) communication with the Regional Biodiversity Co-ordinator.</li> </ul>

ADDITIONAL SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<p><b>Establishing and maintaining a broad partnership</b></p> <ul style="list-style-type: none"> <li>Organise an Annual Biodiversity Forum, in order to: encourage networking among a diverse range of organisations and stakeholders with an interest in biodiversity; provide opportunities to learn about the work of the Biodiversity Partnership; and stimulate discussion about the key issues and challenges facing biodiversity in the county.</li> </ul>	<ul style="list-style-type: none"> <li>Biodiversity Forum is held on an annual basis, with participation from a diverse range of organisations and stakeholders; feedback via evaluation forms demonstrates that objectives are being met.</li> </ul>	<ul style="list-style-type: none"> <li>The Annual Biodiversity Forum was successfully held on 2 October 2008, on the broad theme of “biodiversity and outdoor education”. Speakers included: Kathy Wormald, the Chief Executive of Froglife; Sue Falch-Lovesey, the NCC’s Head of Environmental and Outdoor Learning; and Louise Ambrose and Russell Wilson, who gave an inspiring presentation about the Forest School.</li> </ul>
<p><b>Delivering BAP locally</b></p> <ul style="list-style-type: none"> <li>Facilitate and support the operation of multi-stakeholder, thematic/habitat-based Topic Groups.</li> </ul>	<ul style="list-style-type: none"> <li>Existing Topic Groups continue to meet on a regular basis, and to develop, promote, monitor and revise Habitat and Species Action Plans and other relevant LBAP plans.</li> </ul>	<ul style="list-style-type: none"> <li>Six Topic Groups met during the period. In addition, a meeting of the Farming and Biodiversity Practitioners’ Forum was held on 9 July at Burlingham, to look at woodland creation and management. A very successful meeting of the Heathland Practitioners’ Forum was also held at NWT’s reserve at Grimston Warren on 8 October, to look at heathland restoration on a former plantation site. (Please see Annex 1).</li> <li>In a particularly important development, significant progress has been made with the finalisation of two bat action plans. One plan is for the barbastelle bat; the other is a grouped plan dealing with noctule, brown long-eared and soprano pipistrelle bats.</li> </ul>

ADDITIONAL SERVICES	SUCCESS MEASURES AND OUTPUTS	PROGRESS
<ul style="list-style-type: none"> <li>Subject to the availability of funding, administer and manage a Biodiversity Project Fund to support the delivery of projects linked to the implementation of the Habitat and Species Action Plans and/or the achievement of LBAP aims more broadly.</li> </ul>	<ul style="list-style-type: none"> <li>The existing Biodiversity Project Fund remains operational; projects which meet the Fund's criteria are financially supported.</li> </ul>	<ul style="list-style-type: none"> <li>Five new project proposals were approved over the reporting period, totalling over £19,000. Please see Annex 2 for a summary of proposals considered.</li> <li>A complete list of the activities supported by the Biodiversity Project Fund from its inception can be found in Annex 3.</li> </ul>

### Annex 1: Summary of Topic Group Meetings Held

Topic Group	Meeting Date	Principal Issues Discussed
Coastal BAP Topic Group	23 June and 13 October 2008	The meeting on 23 June took the form of a site visit to the soft cliffs at Trimmingham. Discussions focussed on: the possibility of designating new Local Nature Reserves; the implications of coastal access; and the desirability of promoting the soft cliffs as an alternative visitor destination within the AONB. The meeting on 13 October considered: criteria for coastal County Wildlife Sites; progress with the distribution of the cetacean sightings card; and an update on the Shoreline Management Plans.
Communities and Nature BAP Topic Group	21 July 2008	Agenda items included: the draft Soprano Pipistrelle Species Action Plan; the Community Biodiversity Awards; and the arrangements for the Community Wildlife Conference in 2009.
Ecological Networks Topic Group	No meeting held this period.	Meeting scheduled for 29 April 2009.
Farmland BAP Topic Group	11 July	Agenda items included: an update on HLS targeting; the draft Barbastelle Species Action Plan; and the proposed arable plants project.
Farming and Biodiversity Practitioners' Forum	9 July	The Forum met at Burlingham, to look at woodland creation and management, ecological networks and woodland grants.
Heathland BAP Topic Group	21 October	Agenda items included: an update on the grey carpet moth project; a discussion about heath re-creation at Holt Lowes in North Norfolk; the proposed Brecks biodiversity audit; and the need for a new/ revised Heathland Action Plan.

Topic Group	Meeting Date	Principal Issues Discussed
Heathland Practitioners' Forum	8 October	A very successful visit to NWT's reserve at Grimston Warren was arranged, to look at heathland restoration on a former conifer plantation site.
Waterbodies BAP Topic Group	23 September	Much of the discussion focussed on updates from several projects, including the greater water parsnip survey, the assessment of non-Broads lakes, and the tassel stonewort survey. The meeting also considered a proposal to carry out a crayfish survey of the five Wash rivers. A site visit to Barton Broad in the afternoon was arranged by the Broads Authority, to look at the results of bio-manipulation.
Wetlands BAP Topic Group	9 October	Agenda items included: the 2008 results of the bittern monitoring programme; the draft Broads LBAP; and the Non-native Species Initiative.
Woodlands BAP Topic Group	No meeting held this period.	Meeting scheduled for 6 November

## Annex 2: Summary of Recent Proposals Submitted to the Biodiversity Project Fund and Decisions Taken

	<b>Title of Proposal</b>	<b>Topic Group/ Lead Organisation</b>	<b>Amount Requested</b>	<b>Decision</b>
1	Identification of Important Arable Plant Areas in Norfolk: Phase 1	Farmland Topic Group/ FWAG	£4,200	Approved (£4,000).
2	Conserving the Grey Carpet Moth in the Brecks	Heathland Topic Group/ Butterfly Conservation	£2,093.85	Approved. This is a Third Party Contribution to SITA.
3	Brecks Biodiversity Audit	Heathland Topic Group/ UEA	£6,000	£4,500 to £6,000 approved in principle, subject to contributions from other parties. Exact amount to be confirmed.
4	Wash Rivers Crayfish Survey: Scoping Phase	Waterbodies Topic Group/ FWAG	£1,400	Approved.
5	Broads Mink Management Project (continuation)	Waterbodies Topic Group/ Broads Authority	£6,000	Approved (£4,000).

**Annex 3: Summary of Projects Supported by the Norfolk Biodiversity Partnership through the Biodiversity Project Fund, from 2004/05 Onwards**

<b>Topic Group</b>	<b>Project Title</b>	<b>Project Objectives</b>	<b>Linkage to SAP/HAP</b>	<b>Location</b>	<b>Project Manager</b>	<b>Time-scale</b>	<b>Total Cost</b>	<b>Biod. Project Fund</b>	<b>Status</b>
Coastal	Saline Lagoon Workshop	- To organise a one-day workshop on saline lagoon management, with Dr. R.N. Bamber.	Saline lagoon HAP	North Norfolk	Peter Lambley, EN	One-day event (workshop, held on 14 Oct 2004)	£550	£550 (100%)	Successfully completed
Coastal	A Study of the Soft Rock Cliff Invertebrate Fauna of the Norfolk Coast	- To gather new data on the invertebrate communities of the Norfolk coast - To contribute data to Buglife's UK-wide study into maritime soft rock cliffs - To hold a workshop on soft cliff management.	Maritime cliff and slope HAP	North Norfolk	Andrew Whitehouse, Buglife	May - Nov, 2006	£7,300	£4,300 (59%)	Completed and report received. A soft cliffs practitioners' workshop was held on 19 July 2007.
Coastal	Production of a Harbour Porpoise Identification and Survey Card	- To enhance understanding of the distribution and status of harbour porpoise off the coast of Norfolk	Harbour porpoise SAP	North Norfolk, KLBC, GYBC	Scott Perkin	Card to be launched in summer 2008	£4,270	£1,770 (41%)	Over 800 cards have now been distributed to a wide range of coastal organisations.
Coastal	Survey of Coastal BAP Habitats in Great Yarmouth Borough	- Identify extent of BAP habitats and prepare a GIS layer - Identify possible County Wildlife Sites	Coastal sand dune, maritime cliff and slope, and grassland HAPs	GYBC	Reg Land, NWT	Aug-Nov 2007	£3,000	£750 (25%)	Survey completed; report received.

 = Project closed.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Communities and Nature	Norwich Rivers and Green Spaces Project	- To raise awareness about Norwich's rivers and encourage community involvement to enhance the urban river corridor.	The project has linkages to a number of action plans.	Norwich City	Matt Davies, Norwich Fringe Project	One year (Sept 2005-Aug 2006)  Extended to Nov 06	£30,490	£5,000 (16%)	Completed and final report received.
Communities and Nature	Support for "Wild about Norfolk" 2005 (bird and bat boxes)	- To inform the general public (particularly children) about Norfolk's wildlife and inspire an active interest in conservation.	This project contributes to the Biodiversity Partnership's Awareness Strategy	Thetford	Jennie Murdy, RSPB local group	One day event (15 Oct 2005)	£4,300 + volunteers' time est. at £6,900	£500 (11.6%)	Successfully completed; report received.
Communities and Nature	Support for "Wild about Norfolk 2006" (printing of activity booklet)	- As above.	As above.	Norwich	Jennie Murdy	9-10 Sept 2006		£500	Successfully completed. Over 4,000 people attended the event. Report received.
Communities and Nature	Support for "Wild about Norfolk 2007" (printing of activity booklet)	- As above	As above	Norwich	Jennie Murdy	8-9 Sept 2007	£750	£500 (67%)	Booklet printed and WaN successfully held. Report received.
Communities and Nature	Wensum Valley Churchyards	- To improve the management of churchyards and cemeteries for wildlife	Churchyards and Cemeteries HAP	Breckland	Robin Goolden	Three years (July 2007-July 2010)	£3,000	30%	Project start-up postponed.
Communities and Nature	A Community Toolkit for the Protection of White-clawed Crayfish	- To reduce the risk of introducing alien crayfish and crayfish plague to the River Wissey	White-clawed crayfish SAP	Breckland	David Shearing	One year (June 07-June 08)	£3,114	£2,600 (83%)	Survey of the Thet river completed; report awaited.

<b>Topic Group</b>	<b>Project Title</b>	<b>Project Objectives</b>	<b>Linkage to SAP/HAP</b>	<b>Location</b>	<b>Project Manager</b>	<b>Time-scale</b>	<b>Total Cost</b>	<b>Biod. Project Fund</b>	<b>Status</b>
Communities and Nature	Wild about the Wensum	- To raise environmental awareness and promote partnership working	BAP Awareness Strategy	County-wide	Pauline Chamberlain	17 May 08	£5,000	£500 (10%)	Event successfully held on 17 May; report awaited.
Communities and Nature	Community Wildlife Conference	- To assist the community biodiversity sector to become better networked and resourced and more engaged with the BAP process.	An umbrella project with links to many action plans.	County-wide	Marya Parker, BTCV	Date of conference to be determined	£5,253	£2,000 (38%)	Planning is underway. The conference will be held on 7 March 2009.
Ecological Networks	Making Space for Wildlife: Creating an Ecological Network for Norfolk	- To promote the development of an ecological network in Norfolk; - To develop a Norfolk econet map; - To prepare a set of project briefs to take the econet forward.	An "umbrella project" with linkages to many different HAPs and SAPs.	County-wide	Reg Land, NWT	March 2005 – February 2006	£16,400	£7,200 (44%)	Successfully completed. A CD with all the reports, maps and GIS layers produced by the project has been sent to every local planning authority and to a number of other interested parties.
Ecological Networks	County Wildlife Site Habitat Mapping	- To measure the extent of BAP habitats on County Wildlife Sites; - To input this information into the CWS database; - To generate digital distribution maps for each habitat.	As above.	County-wide	Andrina Walmsley, NWT	March – May 2008	£2,000	£2,000 (100%)	Project completed; report awaited.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Farmland	Databases of Lowland Calcareous Grasslands and Lowland Meadows	- To develop a database for each of the BAP grassland habitats for Norfolk	Calcareous grasslands and lowland meadows HAPs (in prep)	County-wide	Helen Baczkowska, NWT	Nov 05 – March 06	£5,000	£3,500 (70%)	Successfully completed; report received.
Farmland	Biodiversity and Farming Exhibition at the Royal Norfolk Show	- To demonstrate ways in which farmers can manage their land to help conserve and enhance biodiversity.	Farmland HAPs and SAPs	County-wide	Belinda James	June 2006	£22,375	£1,000 (4.5%)	Completed; brief report received.
Farmland	Norfolk Hedgerow Database and GIS Layer	- To develop a hedgerow GIS layer and leaflet	Hedgerow HAP	County-wide	Tom Williamson, UEA	Jan-Oct 2008	\$5,000	£3,500 (70%)	Underway.
Farmland	Habitat Management for the Rare Arable Weeds <i>Silene gallica</i> and <i>Galeopsis angustifolia</i>	- Increase the area occupied by both populations and establish a new self-sustaining population of <i>Silene gallica</i> - Identify management and disturbance requirements	Arable plant SAPs	Snettisham and Felmingham	Graham Hopkins	Oct 2007-Oct 2008 (Phase 1)		£1,019 In-kind contributions of £20,600 expected by 2015.	Project initiated following receipt of consent from RSPB, NE and NCC. There has been a moderate amount of germination at the test sites.
Farmland	Identification of Important Arable Plant Areas: Phase 1	- To determine the number and location of important arable plant areas in Norfolk, using the Plantlife methodology -	Arable plant SAPs	County-wide	Henry Walker	Oct 2008 – March 09	£5,700	£4,000 (70%)	Underway.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Heathland	Heathland CWS Assessment	<ul style="list-style-type: none"> <li>- To draw together existing information on heathland CWS;</li> <li>- To establish a programme of condition monitoring;</li> <li>- To identify priority areas for management advice and grant aid.</li> </ul>	Heathland HAP	County-wide	Helen Baczkowska, NWT	Oct 2004 - Oct 2005	£1,000	£1,000 (100%)	Completed; brief summary report received.
Heathland	Translocation of Silver-studded Blue	<ul style="list-style-type: none"> <li>- To carry out a translocation of SSB from Buxton heath to Cawston heath</li> </ul>	Draft silver-studded blue SAP calls for re-introductions to two sites by 2010.	Broadland	Mandy Gluth, BC	July 2006	£500	£500 (100%)	Translocation completed. Report received.
Heathland	Translocation of Silver-studded Blue: Phase 2	<ul style="list-style-type: none"> <li>- To carry out a second translocation of SSB from Buxton to Cawston.</li> </ul>	As above.	Broadland	Mandy Gluth, BC	July 2007	£500	£500 (100%)	Translocation completed; report received.
Heathland	Research and Survey on the Ground Beetle <i>Ophonus laticollis</i>	<ul style="list-style-type: none"> <li>- To assess the size and extent of the population at Gallows Hill;</li> <li>- To provide recommendations on the management of field margins and hedgerows, as well as a monitoring protocol.</li> </ul>	<i>O. laticollis</i> SAP	Breckland	Mark Telfer	May – June 2008 (fieldwork).  Report by Jan 2009.	£1,916	£1,916	Field work completed; report awaited.
Heathland	Conserving the Grey Carpet Moth in the Brecks	<ul style="list-style-type: none"> <li>- To create a network of suitable habitat for grey carpet across 13 Brecks sites.</li> </ul>	Heathland HAP	Breckland	Sharon Hearle, BC	Oct 2008- Sept 2009	£54,491	£2,093.85 (4%)	Underway.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Heathland	Brecks Biodiversity Audit	- To develop a site-specific LBAP for the Brecks, with management prescriptions.	Contributes to multiple HAPs and SAPs	Breckland	Paul Dolman, UEA	Nov 08 – Oct 09	£18,000	£4,500 - £6,000	Discussions with other partners are underway to agree roles and funding contributions.
Waterbodies	Water Vole Survey	- To carry out a repeat survey of the national survey sites in Norfolk in 2005/06 -	Water vole SAP (Action 5.5.4)	County-wide, with focus on Broads.	Steve Henson, NWT	Oct 05-Aug 06 (extended to 2007)	£3,400 plus in-kind costs from NWT	£1,400 (41%)	Ongoing; first phase completed.
Waterbodies	Great Crested Newt Record Collation	- To create a single, integrated dataset of GCN occurrence in Norfolk.	GCN SAP (Actions 5.1.1, 5.1.2, 5.2.1, and 5.5.2)	County-wide	Helen Baczkowska, NWT	Nov 05 – March 06 (extended to 2007)	£3,000 plus in-kind costs from NWT	£2,000 (66%)	Completed and all records sent to NBRC. Brief summary report received.
Waterbodies	Norfolk Broads Mink Management Project	- To establish strategic control of mink in the Broads; - To establish a self-sustaining mink control network; - To monitor mink and water vole populations; - To improve habitat management.	Water vole SAP	Broads National Park	Rick Southwood	April 06 - March 08	£43,100	£5,000 (12%)	This project is ongoing (see below).

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Waterbodies	Mid-Norfolk Mink Management Project: Phase II	<ul style="list-style-type: none"> <li>- To establish strategic control of mink in selected parts of the Wensum River Valley;</li> <li>- To establish a self-sustaining mink control network.</li> </ul>	Water vole SAP	Wensum	Heidi Thompson, NCC	1 year	£15,000	£3,500 (23%)	Ongoing.
Waterbodies	River Glaven White-clawed Crayfish Survey 2006	<ul style="list-style-type: none"> <li>— To clarify the distribution and status of WCC on the River Glaven and assess its suitability as a refuge ("Ark") site;</li> <li>— To provide training to the River Glaven Conservation Group in crayfish surveying techniques.</li> </ul>	White-clawed crayfish SAP	North Norfolk	Steve Henson, NWT	Sept/Oct 2006	£4,445	£3,733.75 (84%)	Survey completed; final report awaited.
Waterbodies	River Glaven Signal Crayfish Survey 2007	<ul style="list-style-type: none"> <li>— To clarify the distribution and status of signal crayfish within the River Glaven's Water Lane tributary stream</li> </ul>	White-clawed crayfish SAP	North Norfolk	Steve Henson, NWT	August 2007	£3,780	£2,500 (66%)	Survey completed; report awaited.
Waterbodies	Lound Pillwort and Marginal Plant Survey	<ul style="list-style-type: none"> <li>— To establish the distribution and abundance of pillwort on the Norfolk and Suffolk sides of Lound ponds</li> </ul>	Pillwort SAP	Great Yarmouth Borough Council	Broads Authority	July-Oct 2007	£3,130	£580 (18.5%)	Survey postponed until 2009 because of poor weather.
Waterbodies	Diving Beetle ( <i>Bidessus unistriatus</i> ) Survey	<ul style="list-style-type: none"> <li>— To survey currently known Norfolk sites at Hickling and Catfield, as well as historical sites at STANTA.</li> </ul>	Diving beetle SAP	North Norfolk, Breckland	Geoff Nobes	June-Sept 2007	£2,000	£300 (15%)	Surveys completed; report received.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Waterbodies	Norfolk <i>Tolypella intricata</i> population Assessment and Recovery Plan: Phase 1 of 3	<ul style="list-style-type: none"> <li>— To survey and record <i>T. intricata</i> at three sites in Norfolk: Sculthorpe Fen, Cantley and Gillingham Marshes</li> <li>— To take water quality samples to determine winter water quality conditions of the sites.</li> </ul>	Tassel stonewort SAP	Sculthorpe, Cantley and Gillingham	Stephen Lambert, UEA	Feb-July 2008	£3,050	£550 (18%)	Fieldwork completed and draft report received. The results from Sculthorpe reveal substantial potential for habitat expansion.
Waterbodies	Enhancing Greater Water Parsnip in the Fens	<ul style="list-style-type: none"> <li>— To increase by 15% the number of 10km squares in the Fens occupied by greater water parsnip</li> </ul>	Greater water parsnip SAP	Norfolk, Cambs and Lincs	Tim Pankhurst, Plantlife	April 08 – March 10	£28,891	£1,021 (3.5%)	Project underway.
Waterbodies	Conservation Value of Non-Broads Lakes	<ul style="list-style-type: none"> <li>- Compile existing ecological information about non-Broads lakes</li> <li>- Identify sites for which no information exists and that would be worthy of survey.</li> </ul>	Mesotrophic and eutrophic lakes HAPs	County-wide	Car Sayer, UCL	March – June 08	£3,740	£1,740 (46.5%)	Draft report received.
Waterbodies	Wash Rivers Crayfish Survey: Scoping Phase	<ul style="list-style-type: none"> <li>- To identify an appropriate methodology for a Wash rivers crayfish survey;</li> <li>- To prepare a detailed proposal for a 2009 survey.</li> </ul>	White-clawed Crayfish SAP	West Norfolk	Henry Walker, FWAG	Oct 08 – March 09	£1,480	£1,400 (95%)	Underway.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Waterbodies	Broads Mink Management Project (cont)	- To continue and expand strategic control of mink.	Water Vole SAP	Broads	Rick Southwood	Oct 08 – March 09	£19,000	£4,000 (plus £6,844 c/f from 07/08)	Ongoing
Wetlands	Sustainable Solutions to the Ochre and Salinity Problems in the Brograve Catchment	- To undertake a feasibility study to develop a plan for sustainable use of land and water resources in the Brograve catchment.	A variety of wetland HAPs and SAPs.	North Norfolk	Lou Mayer, KLCIDB	Jan - Aug 2005	£43,524	£7,300 (17%)	Completed. Report received.
Wetlands	Norfolk Fens Assessment	<ul style="list-style-type: none"> <li>— To assess the management status and condition of all non-SSI fen sites outside the Broads area;</li> <li>— To identify sites in need of restoration;</li> <li>— To prioritise the need for restoration and management advice;</li> <li>— To produce site management statements and conservation plans for priority sites.</li> </ul>	Fen HAP (particularly Action 5.2.4)	County-wide (except Broads)	Andrina Walmsley, NWT	Oct 2004 - April 2006	£13,300	£1,000 (7.5%)	Completed and detailed report received. The final database includes information on 678 sites, each of which is also linked to a map.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Wetlands	Pingo Mapping and Condition Assessment	<ul style="list-style-type: none"> <li>— Identify and map all pingo clusters in Norfolk;</li> <li>— Assess condition and identify sites at risk.</li> </ul>	Fen HAP	Fens and Breckland valleys	Andrina Walmsley, NWT	Jan-Dec 2007	£5,520	£3,020 (55%)	Completed; final report awaited.
Wetlands	Fen Restoration Project	<ul style="list-style-type: none"> <li>— Work with landowners to develop management programmes and negotiate funding for the restoration of 20 priority sties.</li> </ul>	Fen HAP	County-wide (outside the Broads)	Andrina Walmsley, NWT	April 2008 to Dec 2010	£11,734	£3,156 (27%)	Underway. All restoration sites have been identified. Plantlife has confirmed funding (£17.5k), which will pay for fencing three CWS fen sites.
Wetlands	Monitoring Biodiversity in the Thurne Catchment Ditch System	<ul style="list-style-type: none"> <li>— To collate and digitise raw data on flora and fauna from a series of surveys dating back to 1973;</li> <li>— To carry out a fourth survey of the same ditches and analyse changes in species occurrence, distribution and abundance.</li> </ul>	Coastal and Floodplain Grazing Marsh HAP	Broadland	Vicky Kindemba, Buglife	July 2008 to December 2009	£12,350	£3,500 (28%)	Project started. Steering Group meeting held on 17 October 2008. Data collation and analysis underway, but survey postponed to 2009.

Topic Group	Project Title	Project Objectives	Linkage to SAP/HAP	Location	Project Manager	Time-scale	Total Cost	Biod. Project Fund	Status
Woodlands	Phase 1 Roadside Orchard Survey	— To carry out a survey of Norfolk's traditional orchards to establish their extent, status and trends.	Traditional orchards HAP	County-wide	Gerry Barnes, NCC (with EEAOP)	April-October 2005	£1,500	£1,500 (100%)	Completed; final report and database received.
Woodlands	Phase 2 Biodiversity Survey of Traditional Orchards	— To carry out surveys of invertebrates, lichens, bryophytes, ground flora and fruit varieties at five traditional orchards, representing different geographical areas and management regimes.	Traditional orchards HAP	Five sites in South Norfolk, the Fens, mid-Norfolk, and North Norfolk.	Gerry Barnes, NCC (with EEAOP)	To be completed by Dec 2005	£1,000	£1,000 (100%)	Bryophyte, mollusc, lichen and diatom surveys completed.
Woodlands	Propagation of Traditional Norfolk Apple Varieties	— To ensure that a wide variety of traditional apple saplings is available for distribution (880 trees to be grown)	Traditional orchards HAP	County-wide	Gerry Barnes, NCC (with EEAOP)	Jan 06 to March 08	£3,036	£1,400 (46%)	Completed; report received.
Woodlands	Conservation, Enhancement and Re-creation of Wet Woodland and other Wet Habitats in the Nar and Wensum Valleys	— Expand the area of wet woodland in positive management by 40 ha by mid-2007; — Re-create 10 ha of wet woodland by 2009.	Wet Woodland HAP	Wensum and Nar River Valleys	Gerry Barnes, NCC	April 06 to March 09	£20,000	£3,600 (18%)	Underway. Mary Russell has been commissioned to advise on the potential for wet woodland enhancement and creation.
Woodlands	Deer Parks, Wood Pasture and Biodiversity	— To make information about the historic location of Norfolk's deer parks available to help guide habitat re-creation schemes, etc.	Wood-Pasture HAP	County-wide	Rob Liddiard, UEA	Jan – Sept 2008	£5,000	£3,000 (60%)	Underway.

## **Annex 4: Calendar of Forthcoming Biodiversity Events**

### **BAP Steering Group**

- Dates in 2009 to be set

### **BAP Co-ordinators' Group**

- 10 February 2009

### **Topic Group Meetings**

- Coastal Topic Group: 11 February 2009
- Communities and Nature Topic Group: 4 November 2008
- Ecological Networks Topic Group: 29 April 2009
- Farmland Topic Group: 18 November 2008
- Heathland Topic Group: 24 February 2009
- Waterbodies Topic Group: 14 January 2009
- Wetlands Topic Group: 29 January 2009
- Woodlands Topic Group: 6 November 2008

### **Biodiversity Forums**

- Heaths Forum: 7 May 2009
- Annual Biodiversity Forum: 1 October 2009

### **Other Biodiversity Events**

- Community Wildlife Conference, "Natural Neighbours": Saturday 7 March 2009

### **Regional and National Meetings**

- Regional Workshop on NI 197: 13 January 2009
- East of England Biodiversity Forum: 22 January 2009