

Broads Angling Strategy



Working in partnership to maintain, improve and develop angling and fisheries in the Broads area

Broads Angling Strategy



Foreword – Mark Casto

Chairman

Broads Angling Strategy Group



Welcome to the Broads - an angler's paradise

'With its vast network of rivers, dykes, reed-fringed bays and open water, the Broads are one of the United Kingdom's most special and historic fishing areas and a place cherished by anglers from far and wide.

Whether its a bag of pristine roach, quality bream on the feeder, float fishing for rudd or seeking the predatory attention of pike and perch, the Broads have something to offer all anglers, throughout the fishing season.

The Broads area forms Britain's largest and finest wetland and is one of the region's premier tourist attractions. Angling and fisheries play a key role in supporting the rural economy in the Broads, accounting for at least 16 percent of the 7.2 million visitors to the area and contributing in excess of £88 million to the local economy each year.

Above and below the waters surface, the unique yet fragile environment of the Broads presents many, sometimes complex issues that can affect fish populations and consequently angling. Maintaining this delicate balance of interests requires close cooperation between all those bodies responsible for the management of the area.

The **Broads Angling Strategy** provides the framework to ensure that this wonderful resource continues to be protected, enhanced and enjoyed for the benefit of all, now and in the future'.

Tight lines!

Mark Casto,

Chairman Broads Angling Strategy Group



Broads Angling Strategy Group

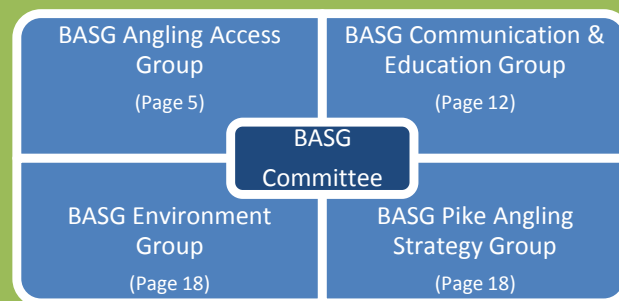


An introduction to the BASG

Formed in May 2000, the **Broads Angling Strategy Group (BASG)** is a group of local anglers with a wide range of experience, who all share a special passion for fishing in the Broads. BASG members volunteer their time and effort to work in partnership with the Environment Agency and the Broads Authority, to help maintain, improve and develop angling within the Broads and safeguard fishing for the future.

In 2012, BASG became a fully constituted body. The main **BASG Committee** takes a central role in overseeing and coordinating progress on the **Broads Angling Strategy**, liaising closely with the Environment Agency, Broads Authority and other relevant bodies in the Broads area. BASG links directly to angling governance at Regional and National level through the **Angling Trust East of England Forum**.

BASG has formed a number of sub-groups to concentrate on delivering the specific objectives of the **Broads Angling Strategy**. These groups can bring in wider local expertise amongst the angling community and help to make a real difference on the ground.



Can you help make a difference for angling in the Broads?

The BASG is always looking for new members to **get involved**. Even if angling politics and committees are not 'your thing', the sub-groups are all about delivering real benefits to angling in the Broads. Just a small amount of time and effort spent **working alongside like-minded anglers** can really **make things happen** – on the following pages are some examples of just a few of the things BASG has helped deliver in the Broads.

Interested? Contact the BASG at info@basgonline.org

Broads Angling Strategy



The evolution of the Broads Angling Strategy – a framework to sustain and grow angling in the Broads

Given the local, regional and national importance of the Broads for angling and the complexity of the issues that can affect the area, anglers have always had a strong interest in the way the Broads is managed.

In 1997, the Environment Agency and Broads Authority jointly funded a study entitled 'Towards an Angling Strategy for the Broads', to help evaluate the Broads fishery resource and set out some of the main factors influencing it.

This initiative paved the way for the formation of the original **Broads Angling Strategy Advisory Group**, following the Government's review of the Salmon and Freshwater Fisheries Act in 2000. One of the key recommendations of the Review was to improve the arrangements for consultation and accountability on fisheries issues. With strong angling representation, the Group helped the Environment Agency and Broads Authority develop the original **Fisheries Action Plan for the Broads (FAP)** in 2003.

The **Broads FAP** saw the formation of a partnership between the **Environment Agency**, **Broads Authority** and the **Broads Angling Strategy Group (BASG)**. The FAP set out 12 key issues affecting angling in the Broads and a prioritised programme for the delivery of actions. The subsequent years have seen significant progress being made on a number of objectives, thanks to the contributions of all involved, many of whom have put in considerable amounts of time and effort for angling, on a purely voluntary basis.

Changing tides - Time to re-bait and re-cast

A decade on, the **Broads FAP** has now been reviewed and refreshed, in light of changing economic times, fresh challenges and new opportunities for working in partnership with others.

The new **Broads Angling Strategy** comprises three core themes:

- **Access to Angling in the Broads**
- **Communication and Education**
- **Environments for fish**

Each theme has a related set of objectives, together with a summary of actions that will help partners to maintain, improve and develop angling in the Broads. The Strategy also sets out how work towards these objectives can help deliver some of the key national strategy objectives for angling 'on the ground' in the Broads area.

Objectives:

A1: maintain and improve boat & bank angling opportunities

A2: address and resolve conflicts of interest

A3: maintain access & anglers legal rights

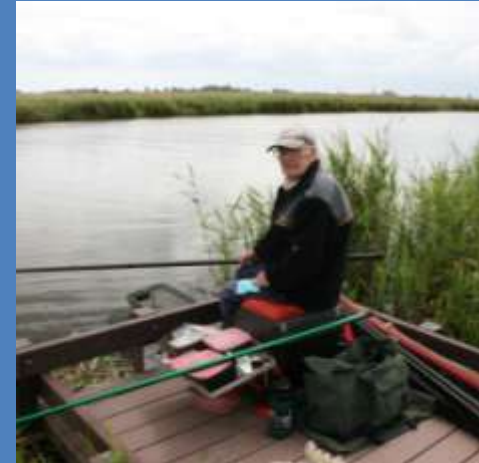
A4: maintain and improve slipway facilities for small boats

A5: maintain and improve the urban fishery

Access to angling in the Broads

A1: Maintain and improve boat and bank angling opportunities

'The availability of bank and boat fishing access is important for angling in the Broads. Maintaining and improving angling access is vital to enable all sectors of society to benefit from the Broads fishery resource and enable the full socio-economic contribution of angling to be realised'



To achieve this objective the **Broads Angling Strategy** is working to:

- establish the current & historic extent of angling access, develop GIS mapping and identify priority sites for maintenance and improvement
- maintain existing access; identify and take forward opportunities for improving access, including partnership funding and delivery of projects
- ensure angling access requirements, including transport infrastructure and facilities, are recognised and valued by all those managing the Broads area
- examine and develop new approaches to the management and maintenance of angling access, working in partnership with angling clubs and others to safeguard and improve angling, encouraging a positive perception of angling amongst landowners and managers

Progress towards this objective will ensure a number of **strategic national priorities** for angling are delivered at a local level in the Broads area. For more information see Appendix 1 & 2.

Fishing for Life:

Getting the fishing habit
Keeping the fishing habit
Creating community waters

Influencing local authorities

Fishing for the Future:

More fishing opportunities and more information
More people from a wider range of backgrounds go fishing
Our fisheries perform better and angling keeps growing

A2: Address and resolve conflict

*'The **Broads Angling Strategy** will identify areas of conflict between Broads users and seek to ensure issues can be resolved by working in partnership with others'*



To achieve this objective the **Broads Angling Strategy** is working to:

- identify existing and potential areas of conflict between anglers and other user groups in the Broads, be it use of moorings, litter and the statutory close season
- develop positive management solutions with partners to resolve issues e.g. **Broads Forum**
- support the development and implementation of the Broads Authority's **Integrated Access Strategy**
- develop an agreed Management Strategy with partners and develop case study examples to showcase positive solutions e.g. **Worlingham**
- improve angling representation and consultation and foster better communication between Broads user groups

Progress towards this objective will ensure a number of **strategic national priorities** for angling are delivered at a local level in the Broads area. For more information see Appendix 1 & 2.

Fishing for Life:

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Opportunities for local clubs

Fishing for the Future:

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A3: Maintain access and anglers legal rights

‘There is a need to foster a better appreciation of the legal framework that supports, but can also influence angling in the Broads. Angling needs to work proactively with others towards balanced solutions at key locations in the Broads’



- To achieve this objective the **Broads Angling Strategy** is working to:
- identify factorial historical rights, together with existing and potential areas of restriction affecting anglers interests in the Broads
 - improve angling representation and consultation and foster better communication with land owners and managers in the Broads
 - establish basis for current restrictions and seek management solutions with partners at key locations
 - develop an agreed Management Strategy with partners and develop case study examples to showcase positive solutions
 - support the development and implementation of the Broads Authority’s **Integrated Access Strategy**

Progress towards this objective will ensure a number of **strategic national priorities** for angling are delivered at a local level in the Broads area. For more information, see Appendix 1 & 2.

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- Keeping the fishing habit
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Influencing local authorities

Fishing for the Future:

More fishing opportunities and more information

A4: Maintain and improve slipway facilities for small boats

'Slipway facilities for boat anglers in the Broads need to be maintained and appropriate facilities developed where there are gaps in the network'



To achieve this objective the **Broads Angling Strategy** is working to:

- review the **Small Boat Slipway Strategy** to identify current slipway resource in the Broads and identify priority gaps in the network
- support the development and implementation of the Broads Authority's **Integrated Access Strategy**
- identify and take forward opportunities for improving slipway facilities, including partnership funding and delivery of projects
- support the Broads Authority on the delivery of its navigation duties

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A5: Maintain & improve the urban fishery

'Urban fisheries such as Riverside Road in Norwich and Beccles Quay can provide some of the most prolific and extensively-used venues in the Broads for young and old alike, but can also be subject to considerable pressures, including development. Being so close to large numbers of people, maintaining and improving the urban fishery resource is especially important to enable all sectors of society to get out and enjoy fishing in the Broads.'



To achieve this objective the **Broads Angling Strategy** is working to:

- establish the current & historic extent of urban angling access, develop GIS mapping and identify priority sites for maintenance and improvement
- assess sites for potential areas of conflict and proactively seek solutions with partners to safeguard angling interest
- improve communication with Local Planning Authorities, councils, land owners and managers in the Broads to ensure urban angling opportunities, including transport, infrastructure and facilities, are recognised and valued as a vital socio-economic asset to the community
- improve angling input to proposals for new development to safeguard fishing and identify potential opportunities for improvement projects

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Access to angling – a case study



Improving access for all at Worlingham

During 2012, the Environment Agency and Broads Authority worked in partnership to deliver angling access improvements at Worlingham on the River Waveney. In a project supported by BASG, eight new angling platforms were installed on Environment Agency bank.

The Broads Authority have prioritised two brand new swims upstream of the small and busy 24 hour mooring to compensate for a summer restriction on fishing from the mooring.

Two of the pegs close to the car park have an easy access surface and are wheelchair accessible.

Funding for the materials was provided by the Broads Authority, with the Environment Agency funding the construction work. For more information, or to see more examples of access projects, go to www.basgonline.org



BASG Communication and Education Group

Objectives:

C1: Improve angling
Information &
Education

C2: Consultation

C3: Effective
involvement & liaison

C4: Encourage
newcomers to the
sport and support
young anglers



Communication & Education

C1: Improve angling information and education

'In an area of such obvious importance to angling, there is a clear need for easily-available, high quality, interesting and regularly-updated angling information and guidance. Ensuring visiting and local anglers can enjoy their fishing in a safe, effective and sustainable manner is key to maintaining and growing the significant socio-economic contribution angling makes to the local area'



To achieve this objective the **Broads Angling Strategy** is working to:

- provide high quality information and guidance in a variety of formats for anglers, including annual updates of **Angle on the Broads**
- add value to **Angle on the Broads** by producing **interactive BASG 'where to fish' guides**, including video and other interactive content, such as live tide tables, weather links and 'how to fish it' video tutorials with 'known' anglers. Work with **Norfolk CAAG** to highlight coaching and education opportunities.
- improve the level of information available to anglers on and through the **BASG website** and social media to produce a **'one stop shop'** for Broads anglers
- liaise with the tackle trade and **Broads Tourism** to explore new ways of making interactive maps, content and services available to anglers in tackle shops and other outlets and through smart phones/mobile devices in the Broads area
- produce and distribute targeted media content to address specific objectives/issues of concern e.g. **Broadland Pike Catching & Conservation DVD**

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Fishing for Life:

Getting the fishing habit
Keeping the fishing habit
Creating community waters

Education material in place
Improved information and access to it

Fishing for the Future:

More fishing opportunities and more information
More people from a wider range of backgrounds go fishing
Our fisheries perform better and angling keeps growing

C2: Improve consultation and liaison with the angling community

'There is a need for angling representatives to make an enhanced and valued contribution to the decisions that influence the management of the Broads area and the fishery resource. Policy-makers, supporting agencies, councils, landowners, managers and other user groups in the Broads should pro-actively approach angling representatives to advise and inform those decisions'



To achieve this objective the **Broads Angling Strategy** is working to:

- ensure a fully-constituted **BASG** is widely recognised as the local consultative forum for angling in the Broadland area and embed this structure into the **Angling Trust East of England Forum**, which links directly to the administration and governance of angling and fisheries at the Regional and National level
- establish and improve consultation links with statutory and other management bodies, improve angling representation, identify and engage with key management strategies/policies that could either influence angling or provide opportunities for partnership working
- improve understanding of the value of angling and fish stocks to the local economy (estimated to be £88 million in 2011 – source: Broads Authority), evaluate the potential for sustainable growth and seek delivery of shared benefits with partners e.g. **Broads Tourism, Local Authorities**
- develop and maintain a **communication strategy** and consistent BASG branding to foster a positive perception of BASG as a key stakeholder in the Broads

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Fishing for Life:

Getting the fishing habit
Keeping the fishing habit
Creating community waters

Greater use of volunteers
Influencing local authorities

Fishing for the Future:

C3: Effective angling involvement and liaison

'Management undertaken in the Broads can have the potential to significantly affect fish populations and angling, with knock-on impacts on the local economy. There is a clear need to involve the angling community at all stages of the planning and delivery of proposed management interventions such as bio-manipulation, mud pumping, dredging, restoration projects and R&D in the Broads. Effective involvement, liaison and communication can help promote better understanding and deliver shared benefits'



To achieve this objective the **Broads Angling Strategy** is working to:

- improve links between BASG, local angling clubs and associations to facilitate improved communication between BASG and wider angling community e.g. **Broadland Pike Conferences**
- based on above, develop a range of approaches to improve delivery of **Broads Angling Strategy** objectives, including the establishment and promotion of formal partnership links with clubs and associations, to widen available angling volunteer resource and improve delivery e.g. **Broads Salinity Project, Broads Rivers Catchment**
- develop a portfolio of case study examples to show angling working in partnership with others in the Broads to deliver shared outcomes e.g. Whitlingham Country Park; **Broadland Pike Tagging Project**; Upper Thurne Working Group

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Education material in place
Greater use of volunteers

Fishing for the Future:

C4: Encourage newcomers to the sport and support young anglers

'Attracting over 7 million visitors a year, the Broads provides a unique and special opportunity to introduce all sectors of society to the magic of angling and the natural environment. To sustain and grow this opportunity, there is a need to encourage and support newcomers to the sport, especially the younger generation, to experience Broads angling in a safe, responsible and informed manner. Special attention should be paid to ensuring there are clear opportunities for on-going participation'



To achieve this objective the **Broads Angling Strategy** is working to:

- forge strong links with the **Norfolk County Angling Action Group (NCAAG)** and local angling clubs to deliver a programme of coaching, mentoring and competitive opportunities across the Broads, including events during **National Fishing Month** and **Take a Friend Fishing** initiatives
- increase opportunities for newcomers to try angling in the Broads, by improving access and facilities and improving the availability of easy to access angling information and guidance material
- liaise with partners, including **Broads Tourism, NCAAG, Broads Authority** and the **Environment Agency**, to produce a **Broads Angling Tourism Plan**
- support the potential development of a **Norwich Angling Academy**

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Fishing for Life:

Getting the fishing habit
Keeping the fishing habit
Creating community waters

Angling Tourism Plan in place
Facilities close to where people live

Fishing for the Future:

More fishing opportunities and more information
More people from a wider range of backgrounds go fishing
Our fisheries perform better and angling keeps growing

Communication & Education – a case study



angle on the Broads

Helping you get the most out of fishing on the Broads



Broads area maps
How to find your way
about **Pages 8–14**



Where? When? How?
A guide to catching
more fish **Pages 15–18**



Fish species in the Broads
Get the knowledge on the fish
in the area **Pages 19–21**

Also inside: » Improving access to angling » What is that boat doing? » Suitable tackle set-ups » Broads Fisheries Action Plan

Angle on the Broads Guide

The production of the very first **Angle on the Broads** magazine was an important early milestone for the original **Broads Fisheries Action Plan**. For the first time in some years, anglers visiting the Broads had access to a free, readily-available source of information, maps and tips, much of which had been contributed by well known Broads anglers.

Angle on the Broads was conceived by BASG and the Environment Agency to help local and visiting anglers enjoy their fishing, whilst fostering a sense of appreciation and awareness of other Broads users and promoting care of fish stocks and the delicate wetland environment.

The current version is also available to download online, enabling instant links to sources of further Information, accommodation and boat bookings around the area.



BASG are working hard with the Environment Agency and other partners on new **Communication and Education** initiatives, including a new 'one-stop-shop' website for broads angling. The aim is to generate new interactive, easily-updatable information, education content and services that can be accessed online and through mobile devices out on the bank.

For more information, or to see more examples of **Communication and Education** projects, go to www.basgonline.org





BASG Environment Group
BASG Pike Angling Strategy Group

Objectives:

E1: Understanding fish stocks in the Broads

E2: Fisheries enforcement & Regulation

E3: Tidal surges

E4: Toxic algae
Prymnesium

E5: Predation

E6: Invasive species

E7: Managing & adapting to climate change

Environments for fish

E1: Understanding fish stocks in the Broads

'The fish stocks of the Broads provide the foundation of one of Britain's best known angling locations. Angling influenced almost 1.2 million Broads visits in 2011 and generated a contribution of at least £88 million to the local economy. Above and below the surface, the fisheries of the Broads present many complex issues which can affect the management of this unique resource. A thorough understanding of fish populations and the factors that affect them is therefore vital to sustain and grow angling in the Broads'



To achieve this objective the **Broads Angling Strategy** is working to:

- ensure the Environment Agency's routine fisheries survey programme delivers the core monitoring necessary to manage fisheries in the Broads and inform current and future decision making, including implementing improvements under the **Water Framework Directive** and managing the potential future impact of climate change
- ensure perceived fish stock problems are identified and investigations undertaken as required; identify key habitat/lifecycle requirements and explore new approaches to fish stock assessment e.g. **BASG Pike Angling Strategy Group, Broadland Pike Tagging Project, Environment Agency ARIS Sonar camera**
- use GIS to integrate mapping of angling access with the EA's hydro acoustic survey data for the Broads, to evaluate how the seasonal distribution of fish stocks influences the viability and availability of the bank angling resource and help prioritise the funding and implementation of angling access improvements
- ensure an improved understanding of fish populations is used to inform the wider management of the Broads resource, including the BA **Integrated Access Strategy** and **Navigation maintenance programme**

Progress towards this objective will ensure a number of **strategic national priorities** for angling are delivered at a local level in the Broads area. For more information, see Appendix 1 & 2.

Fishing for Life:

Getting the fishing habit
Keeping the fishing habit
Creating community waters

Greater use of volunteers
Hands up for the environment
Improved information and access to it

Fishing for the Future:

Our fisheries perform better and angling keeps growing

E2: Protecting and enhancing Broads fish stocks through better Fisheries Enforcement and regulation

'Illegal activities such as netting, long lining, poaching and fish introduction can have significant impacts on fish stocks and fishery performance. Rod licence evasion reduces the funding available to maintain, improve and develop fisheries. Effective fisheries enforcement and regulation is therefore vital to sustain and grow angling in the Broads area'



To achieve this objective the **Broads Angling Strategy** is working to:

- improve liaison with the Environment Agency's Fisheries Enforcement teams and the Police, including the provision of regular Broads Enforcement updates to BASG
- improve communication with the angling community through the **Communication and Education strategy**, ensuring anglers are aware of the proper approach to take to report incidents in a timely manner
- ensure that relevant feedback is disseminated to the angling community where appropriate, to foster understanding and confidence in the intelligence-led enforcement approach and encourage more anglers to report suspected illegal activities
- establish and improve links to the **Environment Agency/Angling Trust Voluntary Bailiff Scheme/Building Bridges initiative** and explore potential options for improving fisheries enforcement capability in the Broads area
- liaise with the Environment Agency to help raise wider awareness of regulation protecting fisheries
- seek consensus for new legislation where appropriate to protect fish stocks e.g. **Minimum tackle byelaw** to protect pike stocks and use emergency byelaws where necessary

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Fishing for Life:

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Keeping the fishing habit
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Hands up for the environment
Reduced poaching

Fishing for the Future:

Our fisheries perform better and angling keeps growing

E3: Reducing the impact of tidal surges on fish stocks

'Seasonal tidal saline incursions can lead to large scale fish mortalities in the Broads. The operation of barriers and other measures have helped to reduce the impacts on fish stocks, but a better understanding of the potential impacts on fish populations is required to inform other management options, particularly on the southern Broads system'



To achieve this objective the **Broads Angling Strategy** is working to:

- further improve liaison with the Environment Agency to maintain and improve the existing salinity monitoring network and ensure freshwater flows are maintained through the **Broads Catchment Abstraction Management Strategy** and in line with **Water Framework Directive** requirements
- maintain and improve links with the **Broadland Salinity Monitoring Project** and the **BASG/PAC/Environment Agency Broads Salinity Project** to deliver shared fisheries benefits and ensure monitoring data can be used to inform future management strategies
- improve communication with the angling community through the **Communication and Education strategy**, ensuring anglers are aware of the proper approach to take to report fish mortalities and signs of fish in distress
- explore potential options for protecting fish stocks at other key locations in the Broads

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Fishing for Life:

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Hands up for the environment
Reduced pollution

Fishing for the Future:

Our fisheries perform better and angling keeps growing

E4: Reducing the impact of the toxic algae *Prymnesium* on fish stocks

'In certain conditions, the naturally occurring algae Prymnesium parvum can release toxins that can cause extensive fish kills. Such events have had severe impacts on the Upper Thurne fishery and yet little is known about the factors that can cause toxin release. Research into Prymnesium is urgently required, together with new approaches to management to protect fish stocks'



To achieve this objective the **Broads Angling Strategy** is working to:

- progress applied research on *Prymnesium* in the Upper Thurne system, including collaborations with internationally-renowned experts to examine causes, effects, historical information and explore potential new management measures to reduce the impact of toxin release
- ensure the wider management of the Upper Thurne system, including management of the navigation, takes account of the risks of *Prymnesium* blooms to fish stocks and is informed by the results of new research
- improve incident response by encouraging anglers and the wider public to report signs of fish mortalities and fish in distress
- explore the potential for collaborative modelling to predict the potential responses of *Prymnesium* to climate change

Progress towards this objective will ensure a number of **strategic national priorities** for angling are delivered at a local level in the Broads area. For more information, see Appendix 1 & 2.

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Hands up for the environment
Reduced pollution

Fishing for the Future:

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E5: Understanding the impact of predation on fish stocks

'Anglers have long been concerned about the impact of predation on fish stocks in the Broads. Piscivorous species, including cormorants, mink and otter can have very obvious impacts on individual fish, but little is known about the impact of predation on fish populations. The introduction or spread of non-native species may also lead to added predation pressure on various life stages of important Broads fish species'



To achieve this objective the **Broads Angling Strategy** is working to:

- ensure fish stock assessment and monitoring undertaken in the Broads is robust enough to show both long term trends in fish populations and potential acute impacts that may arise from predation
- improve understanding of fish habitat requirements in the Broads and ensure wider management such as navigation weed cutting takes account of the need to maintain and improve refuge habitat for fish, particularly in key overwintering areas to protect fish stocks
- investigate how fish behaviour and distribution responds to the influence of predation and consequently influence angling success
- improve education and enforcement to reduce the risk presented by predatory non-native species such as catfish and Killer Shrimp

Progress towards this objective will ensure a number of **strategic national priorities** for angling are delivered at a local level in the Broads area. For more information, see Appendix 1 & 2.

Fishing for Life:

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Hands up for the environment
Reduced predation

Fishing for the Future:

Our fisheries perform better and angling keeps growing

E6: Reducing the impact of invasive species

'Invasive non-native species can have significant impacts, through direct predation on fish, fish spawn and larvae, direct competition for food and resources and indirect impacts on wider aquatic ecology. Given the local, Regional and National importance of the area for tourism and recreation, there are significant risks associated with the potential import and export of non-native species which must be managed to protect the fishery resource'



To achieve this objective the **Broads Angling Strategy** is working to:

- assist the **Broads Bio-security Officer** and improve education and information to increase awareness of the risks of non-native species and measures to reduce the risk of spread such as **Clean, Check, Dry**
- maintain and improve links with partners, including the **Norfolk Non-Native Species Initiative (NNNSI)** to understand and manage, where possible, existing non-native species already found in the Broads such as Killer Shrimp
- maintain and improve links with **NNNSI** and partners to reduce the risk of new non-native species being imported into the Broads area and seek consensus for bio-security measures and specific communication initiatives as appropriate

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Fishing for the Future:

Our fisheries perform better and angling keeps growing

E7: Managing and adapting to climate change

'Impacts on the Broads fishery resource from climate change could be significant. Higher sea levels, coupled with increased frequency of extreme climate events, could lead to an increased risk of saline incursions into the freshwater habitats of the Broads. This could in turn lead to changes in the distribution of habitats and species, with some net loss of biodiversity and increased pressure from non-native species'



To achieve this objective the **Broads Angling Strategy** is working to:

- reduce the potential risk to fisheries and angling presented by factors such as saline incursions, *Prymnesium*, changes in fish populations, non-native species and increased pressure on the Broads recreational resource that may be exacerbated by climate change
- support and advise the Broads Authority's production of a **Climate Change Adaptation Plan for the Broads**, with specific reference to angling and fisheries
- assess and advise future proposals for the development of renewable energy in the Broads to safeguard fish stocks and angling
- advise partners on the development of future flood risk management strategies to be adopted following the conclusion of the current **Broadland Flood Alleviation Project** in 2021
- explore and encourage the use of sustainable and recycled materials for use in angling access improvement projects

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Our fisheries perform better and angling keeps growing

Environments for fish – a case study



Broadland Pike Tagging Project

The Environment Agency is working in partnership with local anglers through the BASG Pike Angling Strategy Group, following anglers' concerns about a perceived decline in the quality of the Broad's pike fishery.

The Broadland Pike Tagging Project is designed to help learn more about Broad's pike stocks. The first phase of the project is designed to assess the effectiveness of a unique fish tagging system, that could help identify large numbers of individual pike quickly and easily. It should then be possible to learn much more about pike stocks, including growth rates, ages, sex ratio, population size, spawning and recruitment success and fishing pressure (for example frequency of capture).



With improved information and evidence, it will be easier to understand and manage the complex factors affecting pike. For more information, or to see how you can take part, go to

www.basgonline.org



 Environment Agency

Broads Angling Strategy



Appendix 1: Links to national fisheries strategies

Appendix 1a: Links to delivery of wider national strategies and objectives for angling and fisheries in the Broads area

<div>     </div> <h2>Broads Angling Strategy Objectives</h2>	<div>  Environment Agency </div> Creating a better place 2010-2015								
	Angling, navigation & recreation		Biodiversity		Water				Climate change
	More people, from all backgrounds, enjoy and benefit more from improved local environments through angling, navigation, sport and other recreation	Environment Agency sites and services create more and better opportunities for people to fish, boat and take part in other water-related sport and recreation	Environmental improvements help to reduce the impact of climate change on wildlife and people	More waters and wetlands are at good biological status	People and wildlife adapt to climate change and its adverse impacts and the human causes are reduced	Wetlands, rivers, lakes, groundwater, estuaries, bathing and coastal waters continue to improve for the benefit of people, the economy and wildlife	Safe, secure water supplies are used efficiently to meet the needs of the public, businesses and the environment	Water is recognised and protected as a precious resource	We help people and wildlife adapt to climate change and reduce its adverse impacts
A1: Maintain and improve boat and bank angling opportunities	X	X							X
A2: Address and resolve conflicts of interest	X	X				X			X
A3: Maintain access and anglers legal rights	X	X				X			
A4: Maintain and improve slipway facilities for small boats	X	X							
A5: Maintain and improve the urban fishery	X	X							
C1: Improve angling information and education	X	X			X	X		X	X
C2: Improve consultation and liaison with the angling community				X	X	X	X	X	X
C3: Effective angling involvement and liaison				X	X	X		X	X
C4: Encourage newcomers to the sport and support young anglers	X	X							
E1: Understanding fish stocks in the Broads	X	X	X	X	X	X		X	X
E2: Protecting and enhancing Broads fish stocks through better Fisheries Enforcement and regulation									
E3: Reducing the impact of tidal surges on fish stocks	X		X	X	X	X	X	X	X
E4: Reducing the impact of the toxic algae <i>Prymnesium</i> on fish stocks	X		X	X	X	X		X	X
E5: Understanding the impact of predation on fish stocks									
E6: Reducing the impact of invasive species				X		X		X	X
E7: Managing and adapting to climate change			X	X	X	X	X	X	X

Appendix 1b: Links to delivery of wider national strategies and objectives for angling and fisheries in the Broads area



Broads Angling Strategy Objectives

A1: Maintain and improve boat and bank angling opportunities

A2: Address and resolve conflicts of interest

A3: Maintain access and anglers legal rights

A4: Maintain and improve slipway facilities for small boats

A5: Maintain and improve the urban fishery

C1: Improve angling information and education

C2: Improve consultation and liaison with the angling community

C3: Effective angling involvement and liaison

C4: Encourage newcomers to the sport and support young anglers

E1: Understanding fish stocks in the Broads

E2: Protecting and enhancing Broads fish stocks through better Fisheries Enforcement and regulation

E3: Reducing the impact of tidal surges on fish stocks

E4: Reducing the impact of the toxic algae *Prymnesium* on fish stocks

E5: Understanding the impact of predation on fish stocks

E6: Reducing the impact of invasive species

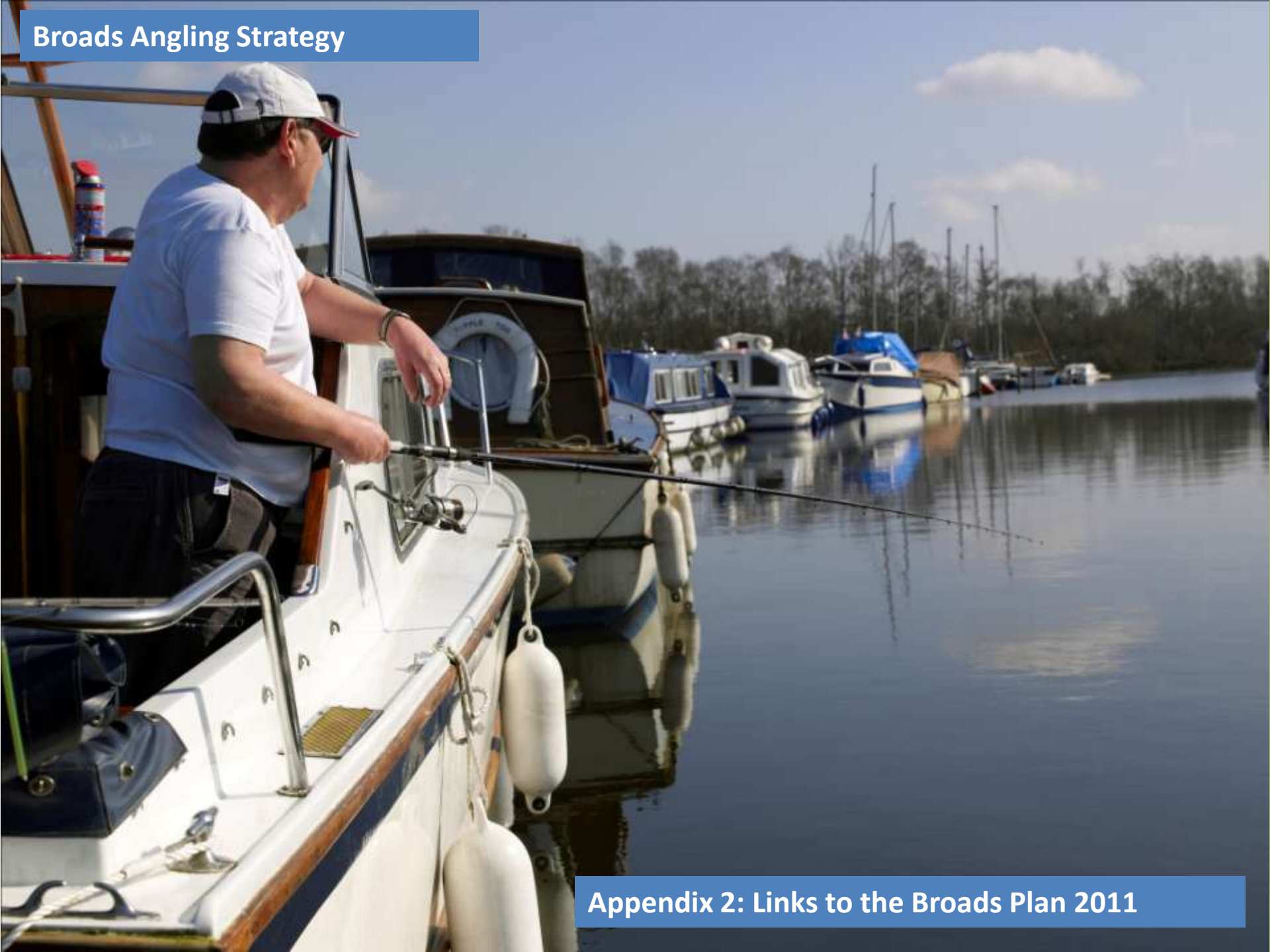
E7: Managing and adapting to climate change



Fishing for Life

A national strategy for getting people fishing 2013-2018

[illegible]



Appendix 2: Links to delivery of strategic objectives of the 2011 Broads Plan



Broads Angling Strategy Objectives

A1: Maintain and improve boat and bank angling opportunities

A2: Address and resolve conflicts of interest

A3: Maintain access and anglers legal rights

A4: Maintain and improve slipway facilities for small boats

A5: Maintain and improve the urban fishery

C1: Improve angling information and education

C2: Improve consultation and liaison with the angling community

C3: Effective angling involvement and liaison

C4: Encourage newcomers to the sport and support young anglers

E1: Understanding fish stocks in the Broads

E2: Protecting and enhancing Broads fish stocks through better Fisheries Enforcement and regulation

E3: Reducing the impact of tidal surges on fish stocks

E4: Reducing the impact of the toxic algae *Prymnesium* on fish stocks

E5: Understanding the impact of predation on fish stocks

E6: Reducing the impact of invasive species

E7: Managing and adapting to climate change



Broads Plan 2011

A strategic plan to manage the Norfolk and Suffolk Broads

Strategic objectives

Responding to climate change and sea level rise	Landscape and cultural heritage	Biodiversity	Agriculture and land management	Management of the navigation area	Promoting understanding, enjoyment and wellbeing	Tourism, recreation and access
	LG4.1			NA5.2;		TR1.1; TR1.5-6; TR2.1-2; TR3.1-3
				NA4.2; NA4.4; NA4.5; NA5.2-3		TR1.5-6; TR2.2; TR3.1
		BD3.3; BD4.1				TR1.5-6
						TR2.2; TR3.1;
						TR2.2; TR3.1; TR3.3
					PE1.1-2; PE2.1-2; PE3.1-3;	
		BD3.1; BD3.2; BD3.3; BD4.1		NA1.1; NA1.2; NA1.3; NA4.4; NA4.5		TR1.5-6; TR2.2; TR3.1-3
					PE2.1-2;	TR1.3;
		BD1.2; BD2.1; BD5.2;		NA2.1; NA3.1-2;		TR2.2; TR3.1; TR3.3
				NA5.3;		
			AL1.2	NA1.1; NA1.2; NA1.3;		
				NA2.1; NA3.1-2		
		BD6.1; BD6.2				
CC2.1-2; CC3.1-2; CC4.2; CC4.4; CC4.6		BD5.2				

Broads Angling Strategy

