Kelling to Lowestoft Ness Shoreline Management Plan

Appendix I: Sources of Data
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This Appendix includes a list of the key reference materials used in the development of the Shoreline Management Plan.

**H1 Bibliographic database**

**H1.1 MAIN SMP DOCUMENT**


Posford Haskoning (2003b) Identifying biodiversity opportunities in Sheringham to Lowestoft Natural Area 104.


Defra (2009). Consultation on Coastal Change Policy

**H1.2 APPENDIX C - BASELINE PROCESS UNDERSTANDING**
The Baseline Process Understanding has developed from a number of key references, i.e. the previous SMP, strategy studies, the Southern North Sea Sediment Transport Study (SNSSTS) the Coastal Habitat Management Plan (CHaMP) and relevant extracts from Futurecoast. Other reports have also been reviewed, some of which were cited in the aforementioned studies.

(a) Key references


Overstrand to Walcott Coastal Strategy Study (draft). HR Wallingford.


(b) Other references


University of East Anglia (UEA) (1971). East Anglian Coastal Study Reports 2 and 3.


(c) Websites

www.eastport-gy.co.uk – provides further information on the proposed Outer Harbour.

www.ukcip.org.uk – provides further information on climate change including the UKCIP02 Scientific Report.
H1.3 APPENDIX D - THEMATIC STUDIES
A number of reports and other information sources were reviewed in the development of the thematic studies. The maps produced also used information layers from websites such as English Nature and MAGIC.

(a) Reports


Identifying biodiversity opportunities in Sheringham to Lowestoft Natural Area 104. Posford Haskoning, 2003b.


Gorleston to Lowestoft Coastal Strategy Study (Halcrow). Part 1, Appendices A to C.

(b) Web sites and additional information sources

North Norfolk District Council Local Plan (www.north-norfolk.gov.uk/planning)

Waveney District Council Draft Local Plan (www.waveney.gov.uk/services/planning/local_plan)

Great Yarmouth Borough-Wide Local Plan (www.great-yarmouth.gov.uk)

Broads Local Plan (www.great-yarmouth.gov.uk)

Norfolk County Council Structure Plan (www.norfolk.gov.uk/environment/planning/landuse)

Suffolk County Council Structure Plan (www.suffolkcc.gov.uk/e-and-t/structure_changes/adopted_structure_plan)

Norfolk County Council population estimates (www.norfolk.gov.uk/council/statistics/demography)

Suffolk County Council population estimates (www.suffolkcc.gov.uk/cgi-bin)

English Nature (www.english-nature.org.uk)

Norfolk Wildlife Trust (www.wildlifetrust.org.uk/norfolk)

Suffolk Wildlife Trust (www.wildlifetrust.org.uk/suffolk)

Biodiversity Habitat and Species Action Plans (www.norfolkbiodiversity.org)

Norfolk Coast AONB (www.norfolkcoastaonb.org.uk)

CHaMPs (www.english-nature.org.uk/livingwiththesea/champs/pilots.asp)

Economic Strategies for Norfolk and Waveney (www.shaping-the-future.org)

Great Yarmouth Port Authority (www.gypa.co.uk)

Broads Authority (www.broads-authority.gov.uk)

MAGIC (Multi-Agency Geographic Information for the countryside) (www.magic.gov.uk)

http://www.happisburgh.org.uk/

H1.4 APPENDIX H – ECONOMIC APPRAISAL

Information on assets, benefits, and management costs was extracted from available strategy plans and scheme assessments.
(a) Reports


(b) Other data

Other data used in the economic appraisal includes:

- Address Point dataset
- Average residential property prices for 2004, as obtained from the website www.upmystreet.co.uk.
- Commercial values obtained from the Focus database (from the Valuation Office).
- Replacement costs for general defence types have been taken from the recently developed Environment Agency database.
H2 Mapped data

H2.1 Main SMP document - policy maps

(a) Basemapping (Communication, Topography and Coastline)
Simple map information based upon the Ordnance Survey, Meridian data (provided under licence, © Crown Copyright) to form the backdrop to the mapped information. Mapping at scales 250,000 and 10,000 was used. North Norfolk District Council Licence number: LA078816.2004.

(b) Present coastline
This was defined from Ordnance Survey mapping and minor changes were made, e.g. at Winterton, where major variations in this position have occurred since the coastline was last mapped.

(c) Indicative Erosion Zones
These were defined as part of the assessment of shoreline response for the final policy (see Appendices C and G for details of this assessment) for years 2025, 2055 and 2105.

(d) EA Indicative Tidal Flood Plain Mapping
Environment Agency 2003 indicative flood plain mapping (coastal flood areas only) was provided under licence © Environment Agency / CEH Wallingford). This mapping provides a general overview of areas of land in natural floodplains and indicates where coastal flooding is possible. It should be noted that the EA is continually updating its maps and these should be used in preference to those presented in this SMP.

(e) National Nature Conservation Designation
For clarity of presentation, this combined datasets for: National Nature Reserves and SSSI sites (see below).

(f) International and National Nature Conservation Designation
For clarity of presentation, this combined datasets for: SPA, Ramsar, SAC, National Nature Reserves and SSSI sites (see below).

(g) Important Heritage Sites
For clarity of presentation, this included only Scheduled Ancient Monuments and Grade 2 buildings and above and those monuments identified as high importance by Norfolk and Suffolk County Archaeologists.

(h) Policy unit boundaries
These were defined as part of the SMP and mapped accordingly.
APPENDIX C

(a) Basemapping (Communication, Topography and Coastline)
As above.

(b) Present coastline
As above.

(c) Indicative Erosion zones
These were defined as part of the assessment of shoreline response for the ‘no active intervention’ scenario (see Appendix C for details of this assessment) for years 2025, 2055 and 2105.

(d) EA Indicative Tidal Flood Plain Mapping
As above.

(e) National Nature Conservation Designation
As above.

(f) International and National Nature Conservation Designation
As above.

(g) Important Heritage Sites
As above.

APPENDIX D

(a) Data obtained from MAGIC website
A number of data sets were obtained from the government website MAGIC (Multi-Agency Geographic Information for the Countryside). These datasets were obtained in 2004. Copyright information is available on the website: www.magic.gov.uk.

- Agricultural Land Classification
- Areas of Outstanding Natural Beauty
- Common Land
- Heritage Coast
- Environmentally Sensitive Areas

(b) Data obtained from English Nature
A number of data sets were obtained from English Nature (www. English-nature.gov.uk). These datasets were obtained in 2004:

- Ramsar sites
- Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
• Sites of Special Scientific Interest (SSSI)
• National Nature Reserves

(c) Data Obtained from English Heritage
Sites and Monuments Records (SMRs) are a primary source of information on the local historic environment. Data from these were provided by Norfolk and Suffolk County Archaeologists. The data was filtered to extract only those sites recorded as monuments or listed buildings, although it is recognised that the implementation of a policy (at either strategy or scheme stage) would also need to consider 'find' sites. The following classes were mapped:

• SMR listed building
• SMR listed monument
• Grade 1 listed
• Grade 2 listed
• Grade 2* listed
• Scheduled Ancient Monument
• SMR region

(d) County Wildlife Sites
Datasets relating to coastal County Wildlife Sites were provided by Norfolk Wildlife Trust and Suffolk Wildlife Trust.

H2.4 APPENDICES F, G AND H

(a) National Property Database
Environment Agency licenced data comprising of Ordnance Survey AddressPoint and Valuation Office data. This has not been reproduced on the final maps presented, but was used in the analysis of property loss.