Kent and Medway Local Nature Recovery Strategy

November 2025

Appendix 1.3 - Measures Mapping Data Source List

Kent and Medway
Local Nature
Recovery strategy
Making space for the county's nature

Name	Use	Source	Last Updated	copyright	Attribute	Measures Category included	Link
Kent ARCH	Detailed habitat dataset, ground-truthed within Kent.	KMBRC	2012	OGL	Acknowledgement: Kent Botanical Recording Group for this data.	Coastal, Freshwater, Grassland, Freshwater, Urban, Woodland	https://www.kent.gov.uk/business/business-loans-and-funding/eu-funding/assessing-regional-habitat-change
CEH LCM	Less detailed habitat dataset, based on satelite data.	CEH	2023	Permission Granted by CEH with bespoke licencing agreement. Derived data available to third parties under the terms of the OGL, provided the data cannot act as a substitute.	Morton, R.D.; Marston, C.G.; O'Neil, A.W.; Rowland, C.S. (2024). Land Cover Map 2023 (land parcels, GB). NERC EDS Environmental Information Data Centre. 'Based upon LCM2023 © UKCEH 2024. Contains Ordnance Survey data © Crown Copyright 2007, Licence number 100017572.'	Coastal, Connectivity, Freshwater, Grassland, Land Management, Successional, Urban, Woodland	https://catalogue.ceh.ac.uk/documents/50b344eb-8343-423b-8b2f-0e9800e34bbd
Priority Habitat Inventory (v.3)	The Priority Habitat Inventory (PHI) version 3.0 is a map of habitats in England that are considered most important for biodiversity conservation. The spatial extent of the 25 priority habitat types.	Natural England	2024	OGL	Contains data created and provided by Cumbria Biodiversity Data Centre on behalf of Cumbria Wildlife Trust. The data has been extracted from Cumbria Wildlife Trust's Grassland Inventory and is used under the CC BY 4.0 International licence terms - https://creativecommons.org/licenses/by/4.0/ (https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/)	Coastal, Grassland, Freshwater	https://www.data.gov.uk/dataset/4b6ddab7-6c0f-4407-946e-d6499f19fcde/priority-habitats-inventory-england#:~:text=These%20earlier%20inventories%20were%20produced,information%20to%20the%20habitat%20classes.
WWNP Wider Catchment Woodland Potential	Slowly permeable soils, where scrub and tree planting may be most effective to increase infiltration and hydrological losses.	Environment Agency	2015	OGL	© Environment Agency copyright and/or database right 2015. All rights reserved.	Woodland	Seems to mainly focus on where trees could be planted to reduce flooding - rather than where the ecology suits tree planting.
WWNP Riparian Woodland Potential	Areas that would suit tree planting on smaller floodplains close to the watercourse.	Environment Agency	2015	OGL	© Environment Agency copyright and/or database right 2015. All rights reserved.	Woodland	Seems to mainly focus on where trees could be planted to reduce flooding - rather than where the ecology suits tree planting.
WWNP Floodplain Reconnection Potential	Where it may be possible to establish reconnection between a watercourse and its natural floodplain, especially during high flows. WWNP Floodplain Reconnection Potential is our best estimate of locations where it may be possible to establish reconnection between a watercourse and its natural floodplain, especially during high flows. The dataset is designed to support signposting of areas where there is currently poor connectivity such that flood waters are constrained to the channel and flood waves may therefore propagate downstream rapidly. The dataset is based upon the Risk of Flooding from Rivers and Sea probability maps, and identifies areas of low and very low probability that are close to a watercourse, but which do not contain residential property or key services.	Environment Agency	2015	OGL	© Environment Agency copyright and/or database right 2015. All rights reserved.	Woodland	https://www.arcgis.com/home/item.html?id=78c20647ad54440fa46b070ee2a7cbad
WWNP Floodplain Woodland Potential	WWNP Floodplain Woodland Planting Potential is our best estimate of locations where tree planting on the floodplain may be possible, and effective to attenuate flooding. The dataset is designed to support signposting of areas of floodplain not already wooded.	Environment Agency	2015	OGL	© Environment Agency copyright and/or database right 2015. All rights reserved.	Woodland	https://www.data.gov.uk/dataset/717bffc4-b165-4deb-b761-a12a7d58af58/wwnp-floodplain-woodland-potential#:~:text=WWNP%20Floodplain%20Woodland%20Planting%20Potential,of%20floodplain%20not%20already%20wooded.
EWCO - Flood Risk Management	Spatial data supporting appropriately located and designed woodland creation to help reduce flood risk by slowing flood flows and increasing the retention and infiltration of water on the land.	Forestry Commission	2024	OGL	Contains OS data © Crown copyright [and database right] [2024].	Woodland	https://environment.data.gov.uk/dataset/dc6db0c9-00f7-4c9b-b6df-83ff82b77242
Flood Map for Planning	Flood Zones 2 & 3. Land at risk of flooding. The best estimate of the areas of land at risk of flooding, when the presence of flood defences are ignored and covers land between Zone 3 and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.	Environment Agency	2018	OGL	© Environment Agency copyright and/or database right 2015. All rights reserved.	Freshwater	https://www.data.gov.uk/dataset/cf494c44-05cd-4060-a029-35937970c9c6/flood-map-for-planning-rivers-and-sea-flood-zone-2
MMO1135 Potential Habitat Creation Sites Within the Current Floodplain	Currently defended floodplain areas in England which could be suitable for managed realignment and / or Regulated Tidal Exchange (RTE) (to create mudflats and saltmarshes) are identified.	Marine Management Organisation	2019	OGL	© Marine Management Organisation copyright and/or database right 2023. All rights reserved.	Freshwater	https://environment.data.gov.uk/dataset/3c7ee15a-3b1c-43e2-a620-20733edf853d
ALC Grade	Provisional Agricultural Land Classification Grade. Agricultural land classified into five grades. Grade one is best quality and grade five is poorest quality. A number of consistent criteria used for assessment which include climate (temperature, rainfall, aspect, exposure, frost risk), site (gradient, micro-relief, flood risk) and soil (depth, structure, texture, chemicals, stoniness).	Natural England	2023	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right [2024].	Coastal, Connectivity, Freshwater, Grassland, Land Management, Successional, Urban, Woodland	https://www.data.gov.uk/dataset/952421ec-da63-4569-817d-4d6399df40a1/provisional-agricultural-land-classification-alc
National Forest Inventory England 2022	The National Forest Inventory (NFI) woodland map covers all forest and woodland areas over 0.5 hectares.	Forestry Commission	2022	OGL	https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/	Woodland	https://data-forestry.opendata.arcgis.com/datasets/83ff06ae0fd34452af9efaddd9d221e8_0/about
England woodland creation low sensitivity map v4.0	This dataset is based on a subset of the 'England woodland creation full sensitivity map v4.0' dataset, for England, showing only land regarded as low sensitivity (as in the full sensitivity map), but with the additional criteria that these areas are greater than 2 hectares in extent.	Forestry Commission	2023	OGL	Contains Forestry Commission information licensed under the Open Government Licence v3.0. © Crown copyright 2016.	Woodland	https://data-forestry.opendata.arcgis.com/datasets/fdbffd3ea7d14fa89496db96e048548c_0/about
Ancient Woodland Inventory	Inventory identifies over 52,000 ancient woodland sites in England.	Natural England	2024	OGL	© Natural England	Woodland	https://naturalengland-defra.opendata.arcgis.com/datasets/a14064ca50e242c4a92d020764a6d9df_0/about

Native Oyster Bed Potential	The Native Oyster Bed Potential Area layer provides a national 'high level' indication of where native oyster reefs could potentially be restored based on some key environmental variables with a subset of 'preferred sites', identifying areas of minimal overlap with pressures and existing activities that may hinder restoration.	Environment Agency	2024	OGL	© Environment Agency copyright and/or database right 2024. All rights reserved.	Coastal	https://www.data.gov.uk/dataset/31530300-0f98-42ac-9b68-b6c980f5383c/native-oyster-bed-potential
BGS Geology	The British Geological Survey is a world-leading geological survey and global geoscience organisation, focused on public-good science for government and research to understand earth and environmental processes. Data are supplied as four themes: bedrock, superficial deposits, dykes and linear features (faults). Within the LNRS, we used the bedrock geology layer to identify chalk habitats.	British Geological Survey	2020	OGL	Contains British Geological Survey materials. Contains NERC materials ©NERC [2024]	Grassland	https://data-search.nerc.ac.uk/geonetwork/srv/eng/catalog.search#/metadata/9df8df52-d788-37a8-e044-0003ba9b0d98
Wader Zonal Map	Wader Sensitivity Map (WSM) and Breeding Wader Sensitivity Map – was produced by the British Trust for Ornithology (BTO) in partnership with the Forestry Commission and the Cairngorm National Park Authority. This layer shows the predicted relative abundance of ten species of breeding wader for each 1km square of England, Scotland and Wales.	Forestry Commission	2024	OGL	Contains Forestry Commission information licensed under the Open Government Licence v3.0. © Crown copyright 2016.	Grassland	https://www.data.gov.uk/dataset/4b2e1d67-6453-49ee-8e39-3261b6e78096/wader-zonal-map
Habitat Master	This is a 30m buffer around Broadleaved and Coniferous Woodland from the habitat_master. It is also dissolved	Kent Wildife Trust - Habitat Master	2023	Restircted data on permission of Kent Wildlife Trust	Ackowledgement Kent Wildlife Trust	Grassland, Woodland	n/a
National Cycle Network	Dataset of the National Cycle Network for use with GIS software (e.g. ArcGIS, QGIS). This dataset can be downloaded from our open data portal and is available on the Living Atlas	Sustrans	2024	OGL	Sustrans National Cycle Network data is licensed under the Open Government Licence	Connectivity	https://data-sustrans-uk.opendata.arcgis.com/datasets/Sustrans-UK::national-cycle-network-public-1/about
Highway Boundary (RedLine)	National Highways Operational Highway Boundary (RedLine) maps out the land belonging to the highway for the whole Strategic Road Network (SRN).	National Highways Spatial	2024	Open	Data derived from: HM Land Registry National Polygon Service, Ordnance Survey Mastermap Topography, Subject to Crown copyright and database rights 2023. Ordnance Survey Licence AC0000827444.	Connectivity	https://opendata.nationalhighways.co.uk/maps/95fced9066a342688b3264886bfa639f/about
Public Rights of Way (PRoW)	Public Rights of Way	Kent Local Authority	2023	OGL - Permission Granted	Acknowledgement: Kent Local Authorities	Coastal, Connectivity	https://data.catchmentbasedapproach.org/datasets/theriverstrust::public-rights-of-way-england/about?appid=ee66fe19196449e7ac64f73bda032a8b&edit=true
RnR and bee road sites	The 'Bee Roads' provide corridors, helping connect bee populations and other pollinators. Roadside Nature Reserves identify, protect and manage road verges which contain threatened habitats or wildlife. rnr_bee is made up of RNR_polygons_OSMM_Aug2018, KCC_RNR_Oct23, Bee Road Sites (Send over from KWT Bethany Pateman (RnR Officer)	KWT & KCC & Bumblebee Conservation Trust	2023	Open - Permission Granted	Acknowledgement: Kent Wildlife Trust, Kent County Council & Bumblebee Conservation Trust	Connectivity	Data sent over by Bethany Pateman (Wilder Road Verge Officer at Kent Wildlife Trust)
Historic Traditional Orchards	Defra data provides data Traditional Orchards HAP (provisional) (England) (data.gov.uk) However it is missing marginal data as strict guidelines (historical and marginal data show hotspots for wildlife). Orchard Network was able to privide Traditional Orchards HAP, marginal sites and historic data	Orchards Network	historic data	Open - Permission Granted	n/a	Woodland	Data sent via Orchards Network
Traditional Orchards		Natural England	2023	OGL	© Natural England	Woodland	https://www.data.gov.uk/dataset/1c8d4150-0126-4bf2-b697-a93a07007510/traditional-orchards-hap-england
Built up areas	OS Open Built Up Areas enables policy makers and analysts, both nationally and locally, to conduct analysis corresponding to actual urban extents, for example, at a town, city, and village level.	Ordnance Survey	2022	OS OpenData Plan	"Contains OS data © Crown Copyright [and database right] (2024) © 2024 Ordnance Survey Limited	Woodland	Built Up Areas (2024) Boundaries EW BGG - data.gov.uk
Major Urban areas	This list of built-up areas for England was compiled by the Office for National Statistics after the 2021 UK Census. Built-up area boundaries are defined and named by the ONS. (In ONS reports of the 2011 and 2021 censuses, many of these areas were called "built-up sub-areas" of larger urban areas; as of October 2024 , the ONS has not defined a new nomenclature for the urban areas or released any data for them.)	Office for National Statistics, Local Authorities (added extra areas)	2021	OGL	"Contains OS data © Crown Copyright [and database right] (2023)	Urban, Woodland	https://www.ons.gov.uk/peoplepopulationandcommunity/housing/articles/townsandcitiescharacteristicsofbuiltupareasenglandandwales/census2021
Beach nesting sites	Recorded beach nesting sites for birds	RSPB	2024	Open - Permission Granted	© The Royal Society for the Protection of Birds (RSPB)	Coastal	Data received by Joseph Beale (Conservation Officer at RSPB England). Information from RSPB Priority Landscape Plan for the Greater Thames area covering Kent and Essex.
Superficial geology BGS	The British Geological Survey is a world-leading geological survey and global geoscience organisation, focused on public-good science for government and research to understand earth and environmental processes. Data are supplied as four themes: bedrock, superficial deposits, dykes and linear features (faults). Within the LNRS, we used the superficial geology layer to identify sand and gravel habitats.	British Geological Survey	2024	OGL	Contains British Geological Survey materials. Contains NERC materials ©NERC [2024]	Grassland	https://data-search.nerc.ac.uk/geonetwork/srv/eng/catalog.search#/metadata/9df8df52-d788-37a8-e044-0003ba9b0d98
Open Mosaic Habitat	Verified sites of Open Mosaic Habitat. Open mosaic habitats can be extremely diverse, including such wide ranging sites as railway sidings, quarries, former industrial works, slag heap, bings and brick pits. This habitat diversity can support rich assemblages of invertebrates, which has led to 'open mosaic habitats on previously developed land' being added to the UK Biodiversity Action Plan (UK BAP) as a Priority habitat listed on Section 41 of the Natural Environment and Rural Communities Act 2006 (NERC Act). Cropped to England.	Natural England	2022	OGL	Contains public sector information licensed under the Open Government Licence v3.0. https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/	Freshwater, Successional	https://naturalengland-defra.opendata.arcgis.com/datasets/03b0e55ff4204dcbb5e2f4e153c585e8_0/explore
OS Open Rivers	A dataset showing the high-level view of watercourses in Great Britain. OS Open Rivers GIS data contains over 144,000 km of water bodies and watercourses map data. These include freshwater rivers, tidal estuaries and canals. Clipped to Kent.	OpenStreet Maps	2023	OS OpenData	© OpenStreetMap contributors	Freshwater, Grassland	https://www.ordnancesurvey.co.uk/products/os-open-rivers

Waterbodies	The dataset is the lake polygons from the UK Lakes Portal (https://eip.ceh.ac.uk/apps/lakes/), originally based on OS PANORAMA but this dataset includes data from a number of sources. It has a basic set of attributes including the water body ID (WBID) as well as the computed area and perimeter of each lake. The WBID is commonly used across research institutions and is the same ID as used on the UK Lakes Portal, where more information can be found on each lake in this dataset.	Ordnance Survey	2023	OGL	Contains OS data © Crown Copyright [and database right] (2023)	Freshwater	https://eip.ceh.ac.uk/apps/lakes/
KCC Conservation Verges	These areas can link existing wildlife areas, helping to reconnect and restore landscape so that wildlife is no longer struggling to survive in isolation. This supports a living landscape, which benefits both people and wildlife and makes nature more resilient to future change. They provide vital wildlife corridors for many species, particularly reptiles such as slow-worms and viviparous lizards, and mammals such as badgers.	KCC	2024	Open - any sensitive/GDPR data was removed when creating the shapefile	©ESRI, ©KCC	Grassland	Data sent over by Bethany Pateman (Wilder Road Verge Officer at Kent Wildlife Trust)
Os Open Greenspace	Find the location of public parks, playing fields, sports facilities, play areas, allotments and more with OS Open Greenspace. A valuable dataset to stimulate creative thinking and innovation to meet current challenges. Finding greenspaces has never been easier. Understand the location of public parks, playing fields, sports facilities, play areas and allotments, along with access points for entering and exiting urban and rural greenspaces.	Ordnance Survey	2023	OS OpenData	Contains OS data © Crown Copyright [and database right] (2023)	Urban	https://www.data.gov.uk/dataset/4c1fe120-a920-4f6d-bc41-8fd4586bd662/os-open-greenspace
Millennium Greens (England) Polygons	The Millennium Greens initiative set out to provide new areas of public open space close to people's homes that could be enjoyed permanently by the local community, in time to mark the start of the third millennium. They were to be breathing spaces - places for relaxation, play and enjoyment of nature and pleasant surroundings. They could be small or large, and in urban or rural locations Attribution statement: © Natural England copyright.	Natural England	2024	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right [2024]	Urban	https://www.data.gov.uk/dataset/2aee95fc-80aa-4c5b-9377-74971fdc31c6/millennium-greens-england-polygons
Country Parks (England)	They are public green spaces often at the edge of urban areas which provide places to enjoy the outdoors	Natural England	2024	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right [2024].	Urban	https://www.data.gov.uk/dataset/2aee95fc-80aa-4c5b-9377-74971fdc31c6/millennium-greens-england-polygons
Ancient Tree Inventory	Point location of recorded ancient and veterinary trees in the UK	Woodland Trust	2023	OGL	Acknowledgement: 'Ancient Tree Inventory, Woodland Trust, Assessed [2024]'. Data reproduced with the permission of The Woodland Trust. Data reproduced with the permission of The Woodland Trust for use for LNRS purposes only. The data is subject to the conditions of their non-commercial licence. For any other uses contact ancienttreeinventory@woodlandtrust.org.uk.	Woodland	https://opendata-woodlandtrust.hub.arcgis.com/datasets/9d2d13b04d654ceb9ba6e0697c1e0c29/explore
IPA data	Across the globe plant species and the important habitats that sustain them are disappearing at an accelerating pace. The IPA Programme is a means of identifying the best sites for wild plants (higher and lower), fungi and their habitats using 3 consistent criteria, threatened species, botanical richness and threatened habitats. http://www.plantlifeipa.org/criteria	Plantlife	2020	Open - Can be used for planning purposes	© Plantlife Mapping IAPA in England project 2020	Grassland	Data sent by Plantlife by meg.griffiths@plantlife.org.uk https://www.plantlifeipa.org/termsofuse
IAPA data	Important Arable Plant Heatmap	Plantlife	2020	Open - Can be used for planning purposes as of https://www.plantlifeipa.org/termsofuse	© Plantlife Mapping IAPA in England project 2020	Grassland	Data sent by Plantlife by meg.griffiths@plantlife.org.uk
Major Road Network	On 23 December 2017, the Government launched a consultation setting out proposals for the creation of a Major Road Network (MRN). The MRN will form a middle tier of the country's busiest and most economically important local authority 'A' roads	Department for Transport	2021	OGL	Contains public sector information licensed under the Open Government Licence v3.0. https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/	Connectivity, Freshwater, Urban	https://www.data.gov.uk/dataset/95f58bfa-13d6-4657-9d6f-020589498cfd/major-road-network
Great Crested Newt - Strategic Opportunity Areas (England)	This dataset identifies areas where the addition of new ponds would benefit Great Crested Newt populations defined as strategic opportunity areas (SOAs)	Natural England	2024	Natural England Data Licenced	© Natural England, © Crown copyright and database rights [2024]. Ordnance Survey 100022021	Freshwater, Woodland	https://www.data.gov.uk/dataset/08082819-c50e-4049-bf56-74b2dc642a21/gcn-strategic-opportunity-areas-england
Permanently wet areas	Watersystems maps' from the University of Antwerp from a project called PROWATER with a 'permanently wet' category and one that is 'temporary wet', and both of those would present opportunities for rewetting/introducing ponds. 'permanently wet' is the most low-lying areas which you would expect to hold water for longest (potential for floodplain wetlands and including channel etc.) and 'temporary wet' which are headwater areas and smaller local depressions that may hold water over winter but dry out in summer.	Watersystems maps' from the University of Antwerp from a project called PROWATER	2024	Open - Permission Granted	© 2024 The South East Rivers Trust	Freshwater, Woodland	https://www.southeastriverstrust.org/projects/prowater-managing-landscapes-for-resilient-water-resources/
AIMS Spatial Flood Defences (inc. standardised attributes)	The Environment Agency's (EA) Spatial Flood defences layer is the only comprehensive and up-to-date dataset in England that shows flood defences currently owned, managed or inspected by the EA. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding. A defence is any asset that provides flood defence or coastal protection functions. This includes both man-made and natural defences. Natural defences may include man-made elements to make them more effective or protect them from erosion.	Environment Agency	2020	OGL	© Environment Agency copyright and/or database right 2024. All rights reserved.	Coastal	https://environment.data.gov.uk/dataset/8e5be50f-d465-11e4-ba9a-f0def148f590
CRoW Act 2000 - Access Layer	Shows land mapped as access land under CRoW. This includes Open Country and Registered Common Land combined into a single layer, with certain categories of excepted land removed.	Natural England	2024	OGL	Attribution statement: © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right [2024].	Coastal	https://www.data.gov.uk/dataset/05fa192a-06ba-4b2b-b98c-5b6bec5ff638/crow-act-2000-access-layer

Name	Description	Organisation	Year	Licence	Copyright	Category	URL
GeoCoast Open	BGS GeoCoast Open contains a detailed suite of statistical data based on the underlying datasets (GeoCoast Premium). These include, for example, percentage of county at threat from inundation and percentage of county coastline with high susceptibility to erosion. In addition, there is a tool to compare or share best practise at a regional scale and streamline the consideration of multiple underlying datasets through a simple, high-level scheme, presented as domains.	British Geological Survey	2024	OGL	Contains British Geological Survey materials Copyright NERC [2024]	Coastal	https://www.bgs.ac.uk/datasets/geocoast-open/
MMO1135 Potential Seagrass Creation Restoration (Historic and Current Sites)	Potential seagrass restoration / creation sites in England. Point data based on a spreadsheet provided by AER (Aquatic Environmental Research), showing English sites where seagrasses are either no longer present, or highly degraded, and where restoration may be beneficial.	Marine Management Organisation	2019	OGL	© Marine Management Organisation copyright and/or database right 2023. All rights reserved.	Coastal	https://environment.data.gov.uk/dataset/7709c9a9-206f-4d7e-b293-7d19ecfd396f
Seagrass Potential	The Seagrass Potential Area v3 layer provides a national 'high level' indication of where intertidal and subtidal seagrass could potentially be restored based on some key physical attributes with a subset of preferred sites identifying areas of minimal overlap with pressures and existing activities that may hinder restoration	Environment Agency	2024	OGL	© Environment Agency copyright and/or database right 2024. All rights reserved.	Coastal	https://www.data.gov.uk/dataset/5b943c08-288f-4d47-a924-a51adda6d288/seagrass-potential#:~:text=The%20Seagrass%20Potential%20Area%20v3,existing%20activities%20that%20may%20hinder
MMO1135 Potential Beneficial use Mud Stretches which may Benefit	Broad intertidal / muddy shoreline stretches in England which are thought to be eroding and could thus benefit particularly from beneficial use are identified. Line data was identified by undertaking a review of SSSI (Sites of Special Scientific Interest) site condition reports, and mapping these in a line format. Limitations of this datalayer include the fact that it only highlights SSSI-designated shorelines (although around 90 to 95% of England's soft shorelines are SSSI designated)	Marine Management Organisation	2019	OGL	© Marine Management Organisation copyright and/or database right 2023. All rights reserved.	Coastal	https://catalogue.agrimetrics.co.uk/defra/fa78616f-c05c-4141-81b0-8cfee3a5b3f2/details
Saltmarsh Extent & Zonation	Polygon data layer showing the extent of saltmarsh in England, for use in flood and coastal risk management, and for ecological monitoring and reporting. Saltmarsh extent has been interpreted from aerial imagery (typically 20 x 20 cm resolution), collected predominantly between 2016 and 2019.	Environment Agency	2019	OGL	© Environment Agency copyright and/or database right 2024. All rights reserved.	Coastal	https://www.data.gov.uk/dataset/0e9982d3-1fef-47de-9af0-4b1398330d88/saltmarsh-extent-zonation
National Seagrass Layer (England)	Natural England and the Environment Agency have collaborated to produce a seagrass layer for English waters, which aims to provide a comprehensive geospatial dataset of surveys of both current and historical spatial seagrass. The layer identifies a current seagrass extent; using the best and most recent available evidence and agreed by both organisations.	Natural England	fspartina	OGL	© Natural England © Environment Agency. Contains Ordnance Survey data © Crown copyright and database right 2022 Contains data from © Joint Nature Conservation Committee © North Eastern Inshore Fisheries & Conservation Authority 2017 © Yorkshire Wildlife Trust © Cornwall County Council © Harwich Haven Authority.	Coastal	https://naturalengland-defra.opendata.arcgis.com/datasets/e695f4aadefd46348103883695d6f08f_4/about
Marine Conservation Zone	Offshore Marine Protected Areas. JNCC maintains a list of all offshore MPAs and their protected features (spreadsheet format) and a spatial layer of these MPA boundaries (shapefile format).	JNCC	2023	OGL	Contains Joint Nature Conservation Committee data © copyright and database right [2023]. Contains Natural England data © copyright and database right [2020]. Contains NatureScot data © copyright and database right [2020]. Contains Natural Resource Wales data © copyright and database right [2020]. Contains Northern Ireland Environment Agency data © copyright and database right [2020]. Contains UK Hydrographic Office data © copyright and database right [2020]. Contains Ordnance Survey data © copyright and database right [2020].	Coastal	https://hub.jncc.gov.uk/assets/ade43f34-54d6-4084-b66a-64f0b4a5ef27
River Obstacles	There are thousands of man made and natural obstacles in the rivers of the UK. Many of the man made obstacles perform important functions - for example dams, sluices, weirs and road culverts - but they can also cause problems such as restricting the movement of fish, damaging river banks and beds, and posing a hazard to people using boats, canoes and kayaks. We know where many of these obstacles are and what kind of impacts they cause, but we suspect that there are many more obstacles that we don't know about, particularly in the more remote, upland areas of the UK.	The Rivers Trust, Environment Agency, Zoological Society of London, Thames Estuary Partnership, The River Restoration Centre and Natural Apptitude	2024	OGL	Environment Agency data available under Open Government License © Environment Agency copyright and/or database right 2021	Freshwater	https://river-obstacles-theriverstrust.hub.arcgis.com/datasets/theriverstrust::river-obstacles-3/about
EWCO - Keeping Rivers Cool Riparian Buffers	EWCO - Keeping Rivers Cool Riparian Buffers. Spatial data supporting appropriately located and designed woodland creation where this will provide dappled shade to improve aquatic ecology by reducing summer water temperatures and benefiting wildlife dispersal (for example, otter) along the corridors of habitat this creates. The data represents a 50 m buffer around patches of surface waterbodies (rivers) with little or no existing riparian shade.	Foresty Commission	2023	OGL	"Contains, or is based on, information supplied by the Forestry Commission. © Crown copyright and database right (current year) Ordnance Survey [100021242]	Freshwater, Urban	https://data-forestry.opendata.arcgis.com/datasets/d2e483c5cfb44b36b97f4b144e69b35d_0/about
Habitat Networks (England) - Lowland Fen	This is the record for Lowland Fen which forms a part of the Habitat Networks (Individual) (England) dataset (link below). The habitat network maps seek to apply the best evidence and principles and to use the best available nationally consistent spatial data.	Natural England	2024	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right [2024].	Freshwater	https://www.data.gov.uk/dataset/99845bb2-22c8-450c-9c53-c2dd88ab2b02/habitat-networks-england-lowland-fen
National Soils data	National Soil Map, NATMAP Vector is the principle soil data product held at Cranfield University. It is a 1:250,000 scale map of England and Wales, showing the locations of the 297 distinct soil associations wherever they occur within the countries. Within each of the soil associations are multiple soil series. This hierarchical data structure allows for easy integration with the the series-based, non-spatial SOILSERIES data, pulling this tabular data also in the the spatial framework	Cranfield	2024	Data purchased	Soils Data © Cranfield University (NSRI)	Grassland, Freshwater	https://www.landis.org.uk/data/nmvector.cfm
Spartina	Spartina is a genus of plants in the grass family, frequently found in coastal salt marshes.	Kent Botanical Recording Group	2024	Open with permission	Acknowledgement: Kent Botanical Recording Group for this data.	Coastal	From KMBRC
Shoreline managed realignment data	These are all sites where managed realignment is the preferred option according to the local Shoreline Management Plan or FCRM strategy, and where we currently anticipate managed realignment will take place at some point in the future.	Environment Agency	2023	Open Licence, it was previously published in strategies	© Environment Agency copyright and/or database right 2015. All rights reserved.	Coastal	Send from Sophie Page (Technical Specialist at the Environment Agency)

Name	Description	Source	Year	Licence	Acknowledgement/Copyright	Theme	Source/Link
Invasive species (INNS count of spp per monad)	INNS plotted as count of species per monad since 2000.	KMBRC	2000	Open	Acknowledgement: Kent & Medway Biological Records Centre	Coastal	Tony Witts (Information and Project Manager from KMBRC) created it through the connectivity model
MEAS managed realignments - Frontages	Waterway frontages are areas that abut on water, including: Areas around lakes, Wetlands, and River floodplains	Environment Agency	2024	Open Licence, it was previously published in strategies	© Environment Agency copyright and/or database right 2015. All rights reserved.	Coastal	Send from Sophie Page (Technical Specialist at the Environment Agency)
Priority River Habitat - Headwater Areas	The headwater areas selected as most natural by land cover comprise a relatively large proportion of the upland headwater resource but a very small proportion of the lowland resource.	Natural England	2024	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2024.	Freshwater	https://www.data.gov.uk/dataset/e19f3b5e-23b3-4b43-8a1a-0bca58f5736c/priority-river-habitat-headwater-areas
EWCO - NfC Ammonia Emissions Capture for SSSI Protection	Spatial data supporting the England Woodland Creation Offer (EWCO) additional point scoring for ammonia capture. There is no Additional	Foresty Commission	2022	OGL	Contains Forestry Commission information licensed under the Open Government Licence v3.0. Contains OS data © Crown copyright [2024].	Urban, Woodland	https://data-forestry.opendata.arcgis.com/datasets/b3b23c4ed3fe4d57aa0
Roost Sites (Thanet)	Roost nesting sites within Thanet.	Thanet Council	2024	Open - Permission Granted	n/a	Coastal	Sent by Michael Lee (Biodiversity Officer Thanet Council)
Marine Protected Areas	MPAs are areas of the ocean established to protect habitats, species and processes essential for healthy, functioning marine ecosystems.

The purpose of an MPA is to protect and recover rare, threatened and important habitats and species from damage caused by human activities. In England, MPAs are designated to protect specific habitats or species (also known as 'features') and have conservation objectives which state what conservation outcomes the MPA is designed to achieve. | JNCC | 2023 | OGL | Contains Joint Nature Conservation Committee data © copyright and database right [2023]. Contains Natural England data © copyright and database right [2020]. Contains NatureScot data © copyright and database right [2020]. Contains Natural Resource Wales data © copyright and database right [2020]. Contains Northern Ireland Environment Agency data © copyright and database right [2020]. Contains UK Hydrographic Office data © copyright and database right [2020]. Contains Ordnance Survey data © copyright and database right [2020]. | Coastal | https://hub.jncc.gov.uk/assets/ade43f34-54d6-4084-b66a-64f0b4a5ef27 |
Peaty Soils Location (England)	Peaty Soils Location (England) - The Peat Layer was produced by Natural England (ARM team) during June - October 2008, with the aim of identifying the extent of three classes of peaty soils for the purposes of the Partnership Project to Protect and Enhance Peat Soils.	Natural England	2024	Non-Commercial Government Licence - https://www.nationalarchives.gov.uk/doc/non-commercial-government-licence/version/2/	© BGS, Cranfield University (NSRI) and OS must be acknowledged in any reports or documents produced as a result of using the Peat layer.	Freshwater	https://naturalengland-defra.opendata.arcgis.com/datasets/Defra::peaty-soils-location-england/explore?location=51.170559%2C0.812009%2C10.49
Seal sites	Seal sites for harbour seals and grey seals in Kent from the 2024 survey.	ZSL	2024	Open data, created by ZSL	Acknowledgement: Zoological Society of London	Coastal	From Hannah McCormick (Project Manager) from ZSL
Principal Aquifers & Secondary A aquifers	The dataset identifies different types of aquifer - underground layers of water-bearing permeable rock or drift deposits from which groundwater can be extracted. These designations reflect the importance of aquifers in terms of groundwater as a resource (drinking water supply) but also their role in supporting surface water flows and wetland ecosystems.	British Geological Survey (BGS)	2024	OGL	Contains British Geological Survey materials Copyright NERC [2024]	Freshwater	https://www.data.gov.uk/dataset/616469ae-3ff2-41f4-901f-6686feb1d5b6/aquifer-designation-dataset-for-england-and-wales
Overland Flow Pathways (data.gov.uk)	The Most Probable Overland Flow Pathway dataset is a polyline GIS vector dataset that describes the likely flow routes of water along with potential accumulations of diffuse pollution and soil erosion features over the land.	Environment Agency	2024	OGL	© Environment Agency copyright and/or database right 2024. All rights reserved.	Freshwater	Overland Flow Pathways (data.gov.uk)
Adopted Allocations	Adopted land allocation is a site allocated for a particular type of development or use, such as housing, employment and leisure, within a development plan which has been approved.	Kent Wildlife Trust, Kent Local Authorities data	2024	OGL	subject to Crown and GeoPlace LLP copyright and database rights 2021 Ordnance Survey 100026316. subject to Crown copyright and is reproduced with the permission of HM Land Registry.	Coastal, Connectivity, Freshwater, Grassland, Land Management, Successional, Urban, Woodland	Mapped by Kent Wildlife Trust using data from Local Authorities.
Barrier Atlas	This is a subset of the European Barrier Atlas generated as part of the EU-funded AMBER project. Barrier data to fish were compiled from existing databases and were ground truthed by field surveys in England, Scotland and Wales.	The Rivers Trust	2024	OGL	AMBER Consortium (2020). The AMBER Barrier Atlas.
A Pan-European database of artificial instream barriers. Version 1.0 June 29th 2020. https://amber.international/european-barrier-atlas/	Freshwater	https://amber.international/european-barrier-atlas/
Accessible Natural Greenspace Standard	Accessible Natural Greenspace Standard (ANGSt) that the land.	Kent Public Health Observatory	2024	Open - Permission Granted	Acknowledgement: KMBRC
Bennett, Teresa and Davies, Zoe G. and Hodgson, Susan and Pett, Tristan J. and Witts, Tony (2016) A needs assessment relating to the provision of natural greenspace in areas with low levels of physical activity: a report for the Kent Nature Partnership. Technical report. Nature Values, Ashford
Greenspace Needs Assessment - Kent Public Health Observatory	Freshwater	ANGST report digitalised by KMBRC. Data sent by KMBRC Greenspace Needs Assessment - Kent Public Health Observatory
Bee lines	B-Lines is a network of wildflower insect superhighways, mapped and delivered through partnerships. They are designed to reconnect our landscapes, enabling pollinators and other wildlife to move, freely, and supporting nature's recovery.	Buglife	2021	OGL	Buglife (2021) B-Lines: Insect Superhighways, McRae, B.H., Shah, V.B. and Mohapatra, T.K. (2018). Linkage, Mapper Toolbox for the ArcGIS Platform (Version 2.0.0), [Software]. Available from: https://circuitscape.org/, linkagemapper/ [accessed 3rd September 2021]	Connectivity, Urban	https://www.buglife.org.uk/our-work/b-lines/b-lines-guidance/downloadable-b-lines-maps/
Aquifers	Combinations of 2 SERT (South East Rivers Trust) derived chalk stream datasets and Natural England data.	Natural England, South East Rivers Trust	2024	OGL	Contains British Geological Survey materials Copyright NERC [2024]	Freshwater	Data sent from SERT
Chalk Streams	Priority Habitat Chalk Rivers, based on Environment Agency Detailed River Network v3. Data prepared Autumn 2021.	Natural England	2023	OGL	Contains public sector information licensed under the Open Government Licence v3.0.
https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/	Freshwater	https://naturalengland-defra.opendata.arcgis.com/datasets/1bb8e710c8254e8fa33e95c7bc13229e_0/explore?location=0.000004%2C-0.851649%2C0.00
CEH Hedgerow	UKCEH's Land Cover Plus: Hedgerows describes the extent and height of woody linear features, including hedgerows, tree lines and semi-natural thickets of shrubs and trees, on field boundaries in England. We have used the Environment Agency's LIDAR (Light Detection and Ranging) remote sensing product, captured in 2016-2021, to create a model of woody field boundaries classified by height.	CEH	2024	Data purchased	'Based on digital spatial data licensed from the UK Centre for Ecology & Hydrology, © UKCEH'	Connectivity, Woodland	https://www.ceh.ac.uk/data/ukceh-land-cover-plus-hedgerows-2016-2021-england
Habitat Networks (England) - Reedbeds	This is the record for Reedbeds which forms a part of the Habitat Networks (Individual) (England) dataset	Natural England	2024	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2024	Freshwater	https://www.data.gov.uk/dataset/01cf4fd6-ed5b-4b2c-bf67-14ee067fa998/habitat-networks-england-reedbeds
Habitat Networks (England) - Lowland Meadow	The habitat network maps are developed around 4 distinct habitat components sets and include 4 distinct network zones where action may be undertaken to build greater ecological resilience. This data package contains the individual habitat areas.	Natural England	2022	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2024	Grassland	https://naturalengland-defra.opendata.arcgis.com/maps/habitat-networks-england-lowland-meadows

Name	Description	Source	Year	Licence	Copyright/Citation	Category	Link
Treated Sewage Discharge	This map shows where the sewerage network discharges treated sewage and overflows of untreated sewage and storm water into rivers in Kent in 2023.	Rivers Trust AGOL	2023	OGL	© The Rivers Trust 2024	Freshwater	https://theriverstrust.org/sewage-map
Urban Canopy Cover (UK Ward Canopy Cover)	This dataset is the output from the UK canopy cover webmap project, which aimed to assess the percentage tree canopy cover in every ward in the UK. Forest Research delivered the project along with partners Brillianto, Trees for Cities, and Woodland Trust. Data were gathered through citizen science volunteers. Wards were classified as urban or rural based on size: wards larger than 1,000 Ha were classed as rural. Data were collected between 2018 and 2022. All urban wards were completed.	Forestry Commission	2023	OGL	OS data © Crown copyright and database right 2017	Urban	https://data-forestry.opendata.arcgis.com/datasets/ecba26cfaf9d4b61bddc0e3284348d79_0/about
Water resource availability and extraction reliability	This publication covers the abstraction of water from non tidal, surface water and groundwater in England and Wales (from 2015 onwards just England).	Environment Agency / Defra	2024	OGL	© Environment Agency copyright and/or database right 2015. All rights reserved.	Freshwater	https://www.data.gov.uk/dataset/b1f5c467-ed41-4e8f-89d7-f79a76645fd6/water-resource-availability-and-abstraction-reliability-cycle-21#licence-info
Woodland Parks and Parkland	Parkland was defined as areas with a minimum of 3 trees, excluding boundary trees, which had less than 250 m between trees. Park extent was mapped to boundary features where park trees were less than 100 m from the boundary or the boundary included a large tree which was less than 250 m from a park tree.	Natural England	2024	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right [2024].	Woodland	Wood Pasture and Parkland (England) - data.gov.uk
WWT 'Wetlands for Water Quality' potential	This dataset maps where potential 'wetlands for water quality' could be placed in the landscape to help improve water quality across Great Britain. The analysis focused on locations where there is both the need and the potential for wetlands targeted at improving water quality, for example, via constructed treatment wetlands (CTWs) or more natural, free-flowing wetlands (such as swales and integrated constructed wetlands). The maps identify areas where wetland solutions could be implemented using natural flow paths and wetland-compatible (impermeable) soil-types. Locations both within and outside of the mapped areas may be suitable for more engineered CTWs targeted at specific pollution sources.	WWT	2024	Open	© WWT copyright and/or database right 2024. All rights reserved. Contains, or is derived from, information supplied by governmental and non-governmental organisations listed at https://www.wwt.org.uk/data-sources.	Freshwater	wwt.org.uk/uploads/documents/2024-09-24/dataset-sources-and-credits-2409-wwt.pdf
Chalk Rivers	Priority Habitat Chalk Rivers, based on Environment Agency Detailed River Network v3. Data prepared Autumn 2021. Data shows the location of Priority Habitat Chalk rivers and Streams.	Natural England	2022	OGL	Contains, or is derived from, information supplied by Natural England and the Ordnance Survey. © Crown copyright and database rights 2022. Ordnance Survey 100022021	Freshwater	https://naturalengland-defra.opendata.arcgis.com/datasets/Defra::chalk-rivers-england/about
Ponding and errors	Predicted ponds and low-lying wet areas. The Most Probable Overland Flow Pathway dataset is a polyline GIS vector dataset that describes the likely flow routes of water along with potential accumulations of diffuse pollution and soil erosion features over the land.	Environment Agency	2024	OGL	© Environment Agency copyright and/or database right 2023. All rights reserved.	Freshwater	https://environment.data.gov.uk/dataset/36e7f4d3-61b2-4e64-aaa2-2b85bceb61a9
Spatial inventory of UK waterbodies	The WBID is commonly used across research institutions and is the same ID as used on the UK Lakes Portal, where more information can be found on each lake in this dataset. This is v3.6, which follows the same versioning as the underlying database.	CEH	2024	OGL	Taylor, P.J. (2021). Spatial inventory of UK waterbodies. NERC EDS Environmental Information Data Centre. (Dataset). https://doi.org/10.5285/b6b92ce3-dcd7-4f0b-8e43-e937ddf1d4eb

Hughes, M., Hornby, D.D., Bennion, H. et al. The Development of a GIS-based Inventory of Standing Waters in Great Britain together with a Risk-based Prioritisation Protocol. Water, Air, & Soil Pollution: Focus 4, 73–84 (2004). https://doi.org/10.1023/B:WAFO.0000028346.27904.83 | Freshwater | https://www.data.gov.uk/dataset/899e3816-b760-4eb4-a1f1-34fc7858f705/spatial-inventory-of-uk-waterbodies#licence-info |
Freshwater mitigation measures	A collation of mitigation measures outlined by the Rivers Trust, the Environment Agency and SERT.	Rivers Trust, Environment Agency and SERT.	2024	Permission Granted by SERT	Acknowledgement: Rivers Trust, Environment Agency and SERT.	Freshwater	Data provided by SERT
Bridge potential	Areas outlined for green bridges by the Making Space for Nature team.	KCC - Making Space for Nature	2024	Permission Granted by KCC	Acknowledgement: KCC	Connectivity, Woodland	Data provided by Kent County Council
Bumblebee Open Mosaic	Additional open mosaic habitat identified by the Bumblebee Conservation Trust.	Bumblebee Conservation Trust.	2024	Permission Granted by Bumblebee Conservation	Acknowledgement: Bumblee Conservation	Connectivity	Data sent by Bumblee Conservation https://www.bumblebeeconservation.org/what-we-do/our-position-statements/local-nature-recovery-strategies/
Castle Coot data		OS Mastermap	2024	KCC hold a Mastermap licence	Contains, or is derived from, information supplied by Natural England and the Ordnance Survey. Reproduced from Ordnance Survey digital map data © Crown copyright 2024. All rights reserved. Licence number 0100031673	Coastal	Drawn from OS Mastermap data, provided by KCC.
Farm Cluster Opportunities	Opportunity areas for new farmer clusters identified by KCC and KWT.	KCC and KWT.	2024	Permission granted by KCC & KWT	Acknowledgement: Kent County Council (KCC) and Kent Willdife Trust (KWT)	Land Management	Data sent by KWT
Nightingale Hotspots	Nightingale hotspots provided by the RSPB.	RSPB.	2024	Open - Permission Granted	© The Royal Society for the Protection of Birds (RSPB)	Grassland	Data sent by the RSPB
NO2 data and other pollution data	Background pollution maps at 1x1 km resolution are modelled each year under Defra's Modelling of Ambient Air Quality (MAAQ) contract. These maps are used to provide policy support for Defra and to fulfil the UK's reporting obligations to Europe.	DEFRA	2023	OGL	Contains public sector information licensed under the Open Government Licence v3.0. https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/	Urban	https://uk-air.defra.gov.uk/data/pcm-data
Ranscombe Arable Plant Project	The boundary of a specific arable plant project.	Plant Life	2024	Open - Permission Granted	© Plantlife 2024	Grassland	https://www.plantlife.org.uk/our-work/ranscombe-farm-nature-reserve/
Annex I Reefs in UK offshore waters (Public)	This dataset contains shapefiles that show the potential and high confidence mapped extents of Annex I habitat 'Reef' in UK offshore waters. Annex I reefs occur where rocky areas or concretions made by marine animals arise from the surrounding seafloor.	Joint Nature Conservation C	2019	OGL	© Joint Nature Conservation Comm	Coastal	https://www.data.gov.uk/dataset/3e72b108-0114-480f-80c7-dd76fa392fb9/annex-i-reefs-in-uk-offshore-waters-public
RSPB Saline Lagoon Potential	Areas outlined for potential saline lagoon creation by the RSPB.	RSPB.	2024	Open - Permission Granted	© The Royal Society for the Protection of Birds (RSPB)	Coastal	Data received by Joseph Beale (Conservation Officer at RSPB England).
Index of Multiple Deprivation (IMD)	The Index of Multiple Deprivation (IMD) datasets are small area measures of relative deprivation across each of the constituent nations of the United Kingdom. Areas are ranked from the most deprived area (rank 1) to the least deprived area.	Consumer Data Research Centre	2024	OGL	© 2024 Consumer Data Research Centre	Urban	https://data.cdrc.ac.uk/dataset/index-multiple-deprivation-imd

Name	Description	Source	Year	Licence	Attribution	Habitat	Notes
Surface water	Water that forms on the grounds surface after heavy rainfall and areas more likely to flood.	South East Rivers Trust	2024	Open - Permission Granted	© 2024 The South East Rivers Trust	Freshwater	Data sent from SERT
Woodland pasture	Woodland pasture parcels created in the Darent Valley Landscape Recovery Project	Adonis Blue Consultancy	2025	Open - Permission Granted	© 2025 Adonis Blue Consultancy	Woodland	Data sent by Kent Wildlife Trust and Adonis Blue Consultancy
Woodland creation areas	Woodland creation areas created in the Darent Valley Landscape Recovery Project	Adonis Blue Consultancy	2025	Open - Permission Granted	© 2025 Adonis Blue Consultancy	Woodland	Data sent by Kent Wildlife Trust and Adonis Blue Consultancy
Floodplain meadow reconnection area	Darent Valley floodplain meadow reconnection area	Adonis Blue Consultancy	2026	Open - Permission Granted	© 2025 Adonis Blue Consultancy	Grassland	Data sent by Kent Wildlife Trust and Adonis Blue Consultancy
National Nature Reserves	Elmley Marshes was added	Natural England	2025	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and da	Grassland	https://www.data.gov.uk/dataset/726484b0-d14e-44a3-9621-29e79fc47bfc/national-nature-reserves-england1
Darent Valley Landscape Recovery Project		Kent Wildlife Trust	2025	Open - Permission Granted	© 2025 Kent Wildlife Trust	Grassland	Data sent by Kent Wildlife Trust
OS MasterMap Networks - Water Layer	OS MasterMap Networks - Water Layer provides a detailed centre line following the curve of the waterway precisely. It includes the coordinates of watercourse sources and where they meet, exactly.	Ordnance Survey	2025	Open	©Ordnance Survey © Environment Agency [2025]. All rights reserved. © Crown copyrigh	Grassland and Freshwater	https://www.ordnancesurvey.co.uk/products/os-mastermap-networks-water-layer
Nashenden Down and Queendown Warren Reserves	Kent Wildlife Trust Reserves	Kent Wildlife Trust	2025	Open - Permission Granted	© 2025 Kent Wildlife Trust	Grassland	Data sent by Kent Wildlife Trust
Darent Valley Intervention areas	Intervention areas from SERT: Castle Farm Area of Interventions, Chevening Estate Area of Intervention, Filston Farm Area of Intervention, Frog Farm Area of Intervention, Home Farm Area of Intervention, Montreal Estate Area of Intervention, Mount Vinyard Area of Intervention, Park Farm Area of Intervention, Preston Area of Intervention, Squerryes Estate Area of Intervention & St Clere Estate Area of Intervention	South East Rivers Trust (SERT)	2025	Open - Permission Granted	© South East Rivers Trust 2025	Freshwater	Data sent by Kent Wildlife Trust and Adonis Blue Consultancy
Sites of Special Scientific Interest (England)	A Site of Special Scientific Interest (SSSI) is the land notified as an SSSI under the Wildlife and Countryside Act (1981), as amended. Sites notified under the 1949 Act only are not included in the Data set. SSSI are the finest sites for wildlife and natural features in England, supporting many characteristic, rare and endangered species, habitats and natural features. The data do not include "proposed" sites.	Natural England	2025	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and da	Freshwater	https://www.data.gov.uk/dataset/5b632bd7-9838-4ef2-9101-ea9384421b0d/sites-of-special-scientific-interest-england3
OS MasterMap Water Network Layer	OS MasterMap Water Network Layer offers one of the world's most detailed, heighted water networks – showing the flow and precise course of every river, stream, lake and canal in Great Britain.	Ordnance Survey	2025	OGL	©Ordnance Survey	Freshwater	data.gov.uk/dataset/9d21ad2d-1a90-4fae-bf84-aa463dfb2ec5/os-mastermap-water-network-layer
OS Priority Ponds with Survey Data	OS Ponds (taken from the MasterMap Topography layer) that have a matching pond survey (Clean Water for Wildlife of Priority Ponds) within their geometry, or within 30m of their edge.	Ordnance Survey	2025	Non-Commercial Government Licence	Contains, or is derived from, information supplied by Natural England and the Ordnance Survey. © Crown copyright and database rights 2022. Ordnance Survey 100022021'	Freshwater	https://www.data.gov.uk/dataset/9d21ad2d-1a90-4fae-bf84-aa463dfb2ec5/os-mastermap-water-network-layer.
KWT Reserves	Kent Wildlife Trust Reserves are areas of land managed by Kent Wildlife Trust.	Kent Wildlife Trust	2025	Open - Permission Granted	© 2025 Kent Wildlife Trust	Coastal and Grassland	
Seagrass Suitability	Results of the seagrass suitability model developed by the seagrass team here at ZSL. he model is based on ecological variables only, it doesn't consider other factors which may make the site unsuitable for seagrass restoration	ZSL	2025	Open data, created by ZSL	Acknowledgement: Zoological Society of London	Coastal	Sent from the Seagrass Team at ZSL.
Kent Wildlife Trust identified seal haul-out site, Pegwell	KWT have identified seal haul-out sites in Pegwell Bay	Kent Wildlife Trust	2025	Open - Permission Granted	© 2025 Kent Wildlife Trust	Coastal	Sent from Nina Jones (Protected Area Warden (Sandwich and Pegwell Bay) at Kent Wildlife Trust
Priority River Habitat - Headwater Areas (England)	One of the two datasets that make up the Priority River Habitat Map. Under the UK BAP definition all headwaters potentially form part of the priority habitat definition. The headwater resource can be a significant proportion of the river habitat.	Natural England	2025	OGL	© Natural England copyright. [2025]	Freshwater	https://naturalengland-defra.opendata.arcgis.com/datasets/Defra::priority-river-habitat-headwater-areas-england/about
2021 Turtle Dove National Survey - Species Data	The survey will give us a comprehensive overview of the current size and distribution of the UK's remaining breeding Turtle Dove population. This will allow us to assess the progress of conservation work to date, help ensure that future conservation efforts are targeted to where they will have the greatest impact, and will provide a robust baseline for future monitoring.	RSPB	2021	Permission Granted	Reproduced by permission of [RSPB / licensor]. © [RSPB /licensor] [2025]. All rights reserved	Successional	Sent from Richard Siller (Conservation Data Officer) at the RSPB
Special Area of Conservation	A Special Area of Conservation (SAC) is the land designated under Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora.	Natural England	2025	OGL	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and da	Coastal	https://www.data.gov.uk/dataset/a85e64d9-d0f1-4500-9080-b0e29b81fbc8/special-areas-of-conservation-england2
Habitat Master	Kent Wildlife Trust have cross-referenced the ARCH land cover classifications with other reliable datasets, which have been revised more recently to determine the most accurate known habitat data for each parcel. These datasets vary in detail, resolution, methodology and updated frequency of revisions. Data included into the land cover included: Kent ARCH (Assessing Regional Habitat Change) Survey (2012, Kent only), Centre of Ecology and Hydrology Land Cover Map (2021), Open Mosaic on Previously Developed Land (2022), Ancient Woodland Inventory (2023), National Forest Inventory (2020), Wood Pasture and Parkland (2021), Priority Habitat Inventory (2023)	Kent Wildlife Trust - Habitat Master	2023	Restircted data on permission of Kent Master	Acknowledgement Kent Wildlife Trust	Grassland, Woodland, Coastal	n/a
WWNP Runoff Attenuation	The use of natural processes to reduce the speed and volume of surface water runoff, helping to prevent or mitigate flooding	Environment Agency	2024	OGL	https://www.gov.uk/government/publications/working-with-natural-processes-to-reduce-flood-risk Attribution statement: © Environment Agency copyright and/or database right 2015. All rights reserved.	Freshwater	https://www.data.gov.uk/dataset/a491c6aa-5742-4c1a-beb2-da163c3997a9/wwnp-runoff-attenuation-features-3-3-aep#licence-info https://environment.data.gov.uk/defra/fc69965f-684f-463d-b7c9-2471a5d49741/details
Dartford Borough Local Plan	Local Plan policies are the basis for decision making on planning applications across the Borough, including at Ebbsfleet and Dartford town centre. They guide infrastructure and investment and support the local environment.	Dartford Borough Council	2024	DBC	© Dartford Borough Council Contains Ordnance Survey data © Crown copyright and database right [2024].	Urban	https://dartfordbc.maps.arcgis.com/apps/webappviewer/index.html?id=122a4b616fc143dba8c18e8b0e944868

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Connectivity modelling references				
Name	**Use**	**Source**	**Last Updated**	**copyright**
Invasive species (INNS count of spp per monad)	Kent & Medway Biological Records Centre Recorder 6 database	Kent & Medway Biological Records Centre	2024	Making Space for Nature data licence
connect chalk	Kent Habitat Survey 2012	Kent Nature Partnership/Kent & Medway Biological Records Centre	2013	Making Space for Nature data licence
	Natural England Priority Habitat Inventory: Calcareous Grassland	Natural England	2024	Open Government Licence v3.0
connect chalk bottlenecks	Condatis; software to assist with the planning of habitat restoration, V1.2, www.condatis.org.uk	Kent & Medway Biological Records Centre	2024	Making Space for Nature data licence
connect designated sites	Sites of Special Scientific Interest (England)	Natural England	2024	Open Government Licence v3.0
	Ramsar (England)	Natural England	2024	Open Government Licence v3.0
	Special Protection Areas (England)	Natural England	2024	Open Government Licence v3.0
	Special Areas of Conservation (England)	Natural England	2024	Open Government Licence v3.0
	Local Wildlife Sites	Kent Wildlife Trust	2023	KMBRC SLA
	Kent Wildife Trust Reserves	Kent Wildlife Trust	2023	KMBRC SLA
	RSPB Reserves	Royal Society for the Protection of Birds	2024	RSPB Geographic Data End User Agreement (General)
	Woodland Trust Reserves	The Woodland Trust	2020	Woodland Trust licence agreement: IJW/SDL363
	Country Parks	Natural England	2024	Open Government Licence v3.0
	Local Nature Reserves	Natural England	2024	Open Government Licence v3.0
bottleneck designated sites	Condatis; software to assist with the planning of habitat restoration, V1.2, www.condatis.org.uk	Kent & Medway Biological Records Centre	2024	Making Space for Nature data licence
connect acid heath	Kent Habitat Survey 2012	Kent Nature Partnership/Kent & Medway Biological Records Centre	2013	Making Space for Nature data licence
	Natural England Priority Habitat Inventory: Acid grassland, lowland dry heath, lowland wet heath	Natural England	2024	Open Government Licence v3.0
bottlenecks acid heath	Condatis; software to assist with the planning of habitat restoration, V1.2, www.condatis.org.uk	Kent & Medway Biological Records Centre	2024	Making Space for Nature data licence
connect meadow	Kent Habitat Survey 2012	Kent Nature Partnership/Kent & Medway Biological Records Centre	2013	Making Space for Nature data licence
	Natural England Priority Habitat Inventory: Lowland meadows	Natural England	2024	Open Government Licence v3.0
bottleneck meadow	Condatis; software to assist with the planning of habitat restoration, V1.2, www.condatis.org.uk	Kent & Medway Biological Records Centre	2024	Making Space for Nature data licence
connect wetland	Kent Habitat Survey 2012	Kent Nature Partnership/Kent & Medway Biological Records Centre	2013	Making Space for Nature data licence
	Natural England Priority Habitat Inventory: Fen, marsh, swamp, wet woodland	Natural England	2024	Open Government Licence v3.0
bottleneck wetland	Condatis; software to assist with the planning of habitat restoration, V1.2, www.condatis.org.uk	Kent & Medway Biological Records Centre	2024	Making Space for Nature data licence
connect woodland	Natural England Priority Habitat Inventory: Lowland Mixed Deciduous Woodland	Natural England	2024	Open Government Licence v3.0
bottleneck woodland	Condatis; software to assist with the planning of habitat restoration, V1.2, www.condatis.org.uk	Kent & Medway Biological Records Centre	2024	Making Space for Nature data licence
	Country Parks (England)	Natural England	2024	Open Government Licence v3.0
	Kent Habitat Survey 2012	Kent Nature Partnership/Kent & Medway Biological Records Centre	2013	Making Space for Nature data licence
	Kent Wildife Trust Reserves	Kent Wildlife Trust	2023	KMBRC SLA
	Local Nature Reserves (England)	Natural England	2024	Open Government Licence v3.0
	Local Wildlife Sites	Kent Wildlife Trust	2023	KMBRC SLA
	Natural England Priority Habitat Inventory: Acid grassland, lowland dry heath, lowland wet heath	Natural England	2024	Open Government Licence v3.0

connect combined	Natural England Priority Habitat Inventory: Calcareous Grassland	Natural England	2024	Open Government Licence v3.0
	Natural England Priority Habitat Inventory: Fen, marsh, swamp, wet woodland	Natural England	2024	Open Government Licence v3.0
	Natural England Priority Habitat Inventory: Lowland meadows	Natural England	2024	Open Government Licence v3.0
	Natural England Priority Habitat Inventory: Lowland Mixed Deciduous Woodland	Natural England	2024	Open Government Licence v3.0
	Ramsar (England)	Natural England	2024	Open Government Licence v3.0
	RSPB Reserves	Royal Society for the Protection of Birds	2024	RSPB Geographic Data End User Agreement (General)
	Sites of Special Scientific Interest (England)	Natural England	2024	Open Government Licence v3.0
	Special Areas of Conservation (England)	Natural England	2024	Open Government Licence v3.0
	Special Protection Areas (England)	Natural England	2024	Open Government Licence v3.0
	Woodland Trust Reserves	The Woodland Trust	2020	Woodland Trust licence agreement: IJW/SDL363
KMBRC species assemblage	Kent & Medway Biological Records Centre Recorder 6 database	Kent & Medway Biological Records Centre	2024	Making Space for Nature data licence
KMBRC connectivity models	Condatis; software to assist with the planning of habitat restoration, V1.2, www.condatis.org.uk	David W. Wallis and Jenny A. Hodgson	2024	Copyright © 2024 Condatis
Designated and protected sites bottleneck	Condatis; software to assist with the planning of habitat restoration, V1.2, www.condatis.org.uk	Kent & Medway Biological Records Centre	2024	Making Space for Nature data licence