

Resolving the impacts of mining

Application Form:

Academic Re-use Licence

The Coal Authority holds a large quantity of data, including historic information, relating to coal mining in the United Kingdom

The Coal Authority owns all intellectual property rights (copyright and database rights) in its data sets, and permits others to re-use its intellectual property under licence for bona fide academic research or educational purposes (for which no charge is made)

1. Applicant/Licensee details

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1. Details of Educational Establishment

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1. Data and licence details

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| What data is required? (Please give as much information as possible including the specific geographical area of interest and the specific type of data required)  GIS DATA: Seam level + Seam level contours (seam level, seam code) – Geological disturbances Faults + Fissures/Breaklines (Type) – Licensed roadways + Spine roadway (Depth, Mineral code) – Underground workings (Colliery name, Panel, Seam code, Mieral code, Direction of Dip, rate of Dip, Extraction thickness, Reference), Shallow workings (Seam code, Mineral Code) – Probable workings (Mineral code, depth) – Mine entries (Colliery name, Name entry, Reference, Assumed / Actual Shaft diameter, Mineral, Adit angle, Drift thickness, Shaft depth, Type), Seam table (Name, code, Thickness) – Seam outcrops (Seam code, Mineral code, Dip side) – Working dates (Seam code, working date, UW\_ID) – OTHER GIS DATA: Water level contour NE England / Scotland + BGS Bedrock geological map (HR) + Rivers + Minewater Blocks / Coalfield (outline) + Discharge points / Monitoring points (Name) + Temperature measurement sites + Coal Resources BGS Map for NE and Scotland (Bottom CM contour/polygons, CM Faults, Coal Polygons, Mines BGS, Top CM contour/polygons) -- COVERED AREA 1 : Midlothian Coalfield (i.e. Bilston Glen – Easthouse area). COVERED AREA 2: Dawdon-Horden Minewater Block (and undersea extent) |

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| Please use this box to provide detailed information on how you are going to use the data (to include full details of the research/project being undertaken)  Use GIS data from the Biston Glen and Dawdon-Horden areas to characterise the mines geometry and connectivity. Data will be used to develop numerical models of heat and mass transfers, in order to better understand the heat transfer mechanisms and the heat resource recovery rate in flooded coal mines. A statistical analysis of the distribution of mining voids will be made, together with an assessment of the important geometrical features for modelling mine systems, by combining GIS data, temperature profiles and temperature/water level time-series. |

How long would you like the licence to last? (Please tick one box)

1. months  6 months  9 months  12 months

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| Are there any commercial aspects to your research/project? Yes  No |

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| If yes please give full details? | None |

Is your research/project to be published? Yes  No

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| If yes please give full details? | Expected research papers to be published as part of the PhD. |

Please return the completed form by email to [datasolutions@coal.gov.uk](mailto:datasolutions@coal.gov.uk). If you need any help completing the form or need any further assistance, please email us on the above address or phone 0345 762 6848.