

# Fissures and Breaklines Metadata

## Description

### Keywords

**Theme:** Coal, Mining, Data, Mining Report, Ground Stability, Fissures, Breaklines

### Description

#### Abstract

Fissures and breaklines are types of geological disturbances which are lines of weaknesses at the surface which may have been affected by coal mining.

#### Purpose

Mining and geographical data held on the Coal Authority Mining Database.

#### Supplementary Information

Fissures are a crack or opening in rock or the earth, created by mining in certain circumstances and breaklines are a vertical step in the rock or earth, created when underground mining has caused differential settlement at the surface. Breaklines are usually associated with geological features such as fault lines.

The position of these geological disturbances are captured into the GIS database following claims made under the Coal Mining Subsidence Act 1991 against the Coal Authority (prior to 1994) or the mine operators (post 1994).

The polygon represents a 5m buffer around the line of the fissure or breakline indicating the area that may have been affected.

The National Coal Mining Database, which is based on the records held at The Coal Authority offices in Mansfield, Nottinghamshire, is updated on a regular basis. This dataset has been extracted from this dynamic database on the date stated below and therefore represents a snapshot in time.

#### Status of the data

Extract of data from the National Coal Mining Database

*Data update frequency:* As needed

#### Time period for which the data is relevant

*Date and time:* 14/08/2014

*Description:* Dataset export from the National Coal Mining Database

#### Publication Information

*Who created the data:* The Coal Authority

*Date and time:* 26/09/2014

#### Data storage and access information

*File name:* FissuresBreaklines

*Type of data:* vector digital data

*Data processing environment:* Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; ESRI ArcCatalog 10.0 (Build 2800)

# Fissures and Breaklines Metadata

## Accessing the data

*Size of the data:*

*Data transfer size:*

## Constraints on accessing and using the data

*Access and use constraints:* This data, service or application is provided free of charge under the terms and conditions of the Open Government Licence.

The full terms and conditions of the Open Government Licence can be viewed at:

<http://www.nationalarchives.gov.uk/doc/open-government-licence/>

If you need any additional advice please contact the Customer Service Team on +44 (0) 345 762 6848 or at [groundstability@coal.gov.uk](mailto:groundstability@coal.gov.uk).

## Details about this document

Contents last updated: 26/09/2014

## Who completed this document

Louise Tipper, Information Management, The Coal Authority

*mailing and physical address:*

200 Lichfield Lane

Mansfield

Nottinghamshire

NG18 4RG

England

+44(0) 345 762 6848

## Standards used to create this document

*Standard name:* FGDC Content Standards for Digital Geospatial Metadata

*Standard version:* FGDC-STD-001-1998

*Time convention used in this document:* local time

Metadata profiles defining additional information

- ESRI Metadata Profile: <http://www.esri.com/metadata/esriprof80.html>

# Fissures and Breaklines Metadata

## Spatial

### Horizontal coordinate system

*Projected coordinate system name:* British\_National\_Grid

*Geographic coordinate system name:* GCS\_OSGB\_1936

### Details

**Map Projection Name:** Transverse Mercator

*Scale Factor at Central Meridian:* 0.999601

*Longitude of Central Meridian:* -2.000000

*Latitude of Projection Origin:* 49.000000

*False Easting:* 400000.000000

*False Northing:* -100000.000000

### Planar Coordinate Information

*Planar Distance Units:* meters

*Coordinate Encoding Method:* coordinate pair

### Coordinate Representation

*Abscissa Resolution:* 0.000000

*Ordinate Resolution:* 0.000000

### Geodetic Model

*Horizontal Datum Name:* D\_OSGB\_1936

*Ellipsoid Name:* Airy\_1830

*Semi-major Axis:* 6377563.396000

*Denominator of Flattening Ratio:* 299.324965

### Altitude System Definition

*Resolution:* 0.000100

*Encoding Method:* Explicit elevation coordinate included with horizontal coordinates

### Bounding coordinates

#### Horizontal

##### In decimal degrees

*West:* -5.973728

*East:* 1.952598

*North:* 58.029351

*South:* 50.977168

##### In projected or local coordinates

*Left:* 165007.000000

*Right:* 633740.000000

*Top:* 904433.880000

*Bottom:* 125147.990000

### Spatial data description

#### Vector data information

#### ESRI description

# Fissures and Breaklines Metadata

## Fissures and Breaklines

*ESRI feature type:* Simple

*Geometry type:* Polygon

*Topology:* FALSE

*Feature count:* 4503

*Spatial Index:* TRUE

*Linear referencing:* FALSE

## SDTS description

Feature class: SDTS feature type, feature count

- Fissures: G-polygon, 4503

## Attributes

### Details for Fissures and Breaklines

*Type of object:* Feature Class

*Number of records:* 4503

### Attributes

#### FID

*Alias:* FID

*Data type:* OID

*Width:* 4

*Precision:* 0

*Scale:* 0

*Definition:* Internal feature number. *Definition Source:* ESRI

#### Shape

*Alias:* Shape

*Data type:* Geometry

*Width:* 0

*Precision:* 0

*Scale:* 0

*Definition:*

Feature geometry.

*Definition Source:* ESRI

#### OBJECTID

*Alias:* OBJECTID

*Data type:* Number

*Width:* 9

# Fissures and Breaklines Metadata

## **FEATURE\_TYPE**

*Alias:* FEATURE\_TYPE

*Data type:* String

*Definition:* The coal mining feature type

*Width:* 50

## **HYPERLINK**

*Alias:* HYPERLINK

*Data type:* String

*Definition:* Web URL for further information

*Width:* 50

## **TYPE**

*Alias:* TYPE

*Data type:* String

*Definition:* The type of geological disturbance: Fissure or Breakline

*Width:* 50

## **Shape\_Length**

*Alias:* Shape\_Length

*Data type:* Float

*Width:* 19

*Number of decimals:* 11

## **SHAPE\_Area**

*Alias:* Shape\_Area

*Data type:* Float

*Width:* 19

*Number of decimals:* 11

*Definition:* Area of feature in internal units squared.

*Definition Source:* ESRI