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.

Details about this document
Contents last updated: 26/09/2014

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Standards used to create this document
Standard name: FGDC Content Standards for Digital Geospatial Metadata
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**

**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*
**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