

This file was generated on 30/11/2021 by Chun-Yin Man

GENERAL INFORMATION

1. Title of the dataset: The BRI economic corridors: 8. The China-Africa Economic Corridor (CAEC)

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3. License and terms of reuse

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DATA & FILE OVERVIEW

Directory of Files:

A. CAEC_polygon.zip

Description: The geometry of countries in CAEC

The zip file contains five shapefile ([what is a shapefile?](#)) extensions that record the geometry and attributes of geographically referenced features. To open the shapefile properly, the following three files are needed to be stored under the same directory:

CAEC_polygon.shp: Geometry for all features

CAEC_polygon.shx: Index of the geometry

CAEC_polygon.dbf: Features' attributes in tabular format

Optional files:

CAEC_polygon.prj: Information on projection format including the coordinate system and projection information.

CAEC_polygon.cpg: Description of the encoding (e.g., utf-8) applied to create the shapefile

B. Existing_Railways.zip:

Description: Five shapefile extensions that record the geometry of existing railways in CAEC

C. Existing_roads(Major+Secondary+normal).zip:

Description: Five shapefile extensions that record the geometry of existing major highways, secondary highways, and roads in CAEC

D. Hubs.zip:

Description: Five shapefile extensions that record the geometry of strategic locations in CAEC.

E. Maritime_routes.zip:

Description: Five shapefile extensions that record the geometry of the conceptualized Maritime Silkroad in the BRI.

F. New_railways.zip:

Description: Five shapefile extensions that record the geometry of new railways in CAEC.

DATA DESCRIPTION

A. CAEC_polygon.zip

1. Number of columns: 168

2. Number of rows: 180

3. Dataset reference date: 12/5/2022

4. Spatial Reference System: WGS 84 (EPSG:4326) (CRS:84)

5. Spatial Data Type: polygon (vector)

6. Polygons and boundaries: The polygons are collected from [Natural Earth, Admin 0 – Countries](#) version 5.1.1 (Published on 12 May 2022).

7. Attributes

For descriptions of the rest of the fields, please refer to [Natural Earth](#)

B. Existing_railways.zip

1. Number of columns: 180
2. Number of rows: 16294
3. Dataset reference year and month: 10/2017
4. Spatial Reference System: WGS 84 (EPSG:4326) (CRS:84)
5. Spatial Data Type: line (vector)
6. Source: The geometry of existing highways is sourced from [Natural Earth, Railroad](#) version 4.0.0 (Published on 15 October 2017).
7. Attributes

For descriptions of the rest of the fields, please refer to [Natural Earth](#)

C. Existing_roads(Major+Secondary+normal).zip

1. Number of columns: 199
2. Number of rows: 16726
3. Dataset reference year and month: 12/2021
4. Spatial Reference System: WGS 84 (EPSG:4326) (CRS:84)
5. Spatial Data Type: line (vector)
6. Source: The geometry of existing highways is sourced from [Natural Earth, Road](#) version 5.0.0 (Published on 7 December 2021)
7. Attributes

For descriptions of the rest of the fields, please refer to [Natural Earth](#)

D. Hubs.zip

1. Number of columns: 1
2. Number of rows: 72
3. Dataset reference year and month: 8/2021
4. Spatial Reference System: WGS 84 (EPSG:4326) (CRS:84)
5. Spatial Data Type: point (vector)
6. Positional Accuracy: The geospatial data was collected from public sources; they may be prone to locational errors due to the ambiguity of the information disclosed by authorities and news agencies.
7. Attributes

A. Field: Name

Format: Text

Description: The name of the location

E. Maritime_routes.zip

1. Number of columns: 1

2. Number of rows: 18

3. Dataset reference year and month: 8/2021

4. Spatial Reference System: WGS 84 (EPSG:4326) (CRS:84)

5. Spatial Data Type: line (vector)

6. Positional Accuracy: The geospatial data was collected from public sources; they may be prone to locational errors due to the ambiguity of the information disclosed by authorities and news agencies.

7. Attributes

B. Field: OD

Format: Text

Description: The origin and destination of the route

F. New_railways.zip

1. Number of columns: 7

2. Number of rows: 42

3. Dataset reference year and month: 8/2021

4. Spatial Reference System: WGS 84 (EPSG:4326) (CRS:84)

5. Spatial Data Type: line (vector)

6. Positional Accuracy: The geospatial data was collected from public sources; they may be prone to locational errors due to the ambiguity of the information disclosed by authorities and news agencies.

7. Attributes

A. Field: Name

Format: Text

Description: The name of the new railway

B. Field: Status

Format: Text

Description: The status of the new railway

C. Field: Info

Format: Text

Description: Detailed descriptions of the new railway

D. Field: OD

Format: Text

Description: The origin and destination of the new railway

E. Field: Start

Format: Text

Description: The start year of the new railway project

F. Field: End

Format: Text

Description: The year in which the new railway project will end

G. Field: Africa

Format: Text

Description: Whether the new railway is in Africa

8. Missing data

N/A = Missing data

METHODOLOGICAL INFORMATION

Software-specific information:

Geospatial features (.shp) in this dataset can be read and edited by using GIS software, such as QGIS and ArcGIS. Geospatial attributes in tabular format (.dbf and .xlsx) can be separately read and edited by using spreadsheet software, such as Microsoft Excel and OpenOffice spreadsheet.