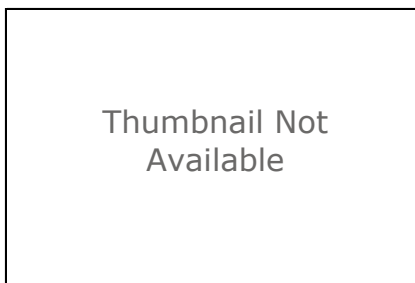


DDP_Faults



Tags

faults, Dnieper-Donets basin, Pripyat basin, Belarus, Ukraine

Summary

The spatial database DDP_Faults was prepared for use in the mineral resource assessment of potash in the Dnieper-Donets and Pripyat basins in Belarus and Ukraine.

Description

An assessment of potash resources in the Pripyat and Dnieper-Donets Basins, Belarus and Ukraine, was undertaken as part of a global mineral resource assessment. Areas which are defined by geological criteria as permitting specific types of deposits are referred to as permissive tracts. Four permissive tracts with the potential for undiscovered potash deposits are delineated. These include permissive tracts for stratabound potash-bearing deposits in Famennian age (Upper Devonian) salt in the Pripyat Basin and in Famennian and Cisuralian age (lower Permian) salt in the Dnieper-Donets Basin. The geology of each of these permissive tracts is described. A qualitative assessment of each of these permissive tracts is attempted but varies with the amount and quality of available subsurface information. In addition, a tract is delineated for halokinetic potash-bearing salt in the Famennian of the Dnieper-Donets Basin, and a quantitative estimate of undiscovered resources is made for this tract. These evaporite basins formed within the Pripyat-Donbass Rift, an Upper Devonian continental rift structure, and their geology and potash potential are dependent on the evolution of the rift and potash-bearing salt deposition within the rift.

Credits

Deborah A. Briggs performed all image processing to produce georectified map images; Pamela Dunlap and Leila Gass digitized faults from georectified maps; and Pamela Dunlap wrote the metadata and prepared the digital data for publication.

Use limitations

None

Extent

There is no extent for this item.

Scale Range

There is no scale range for this item.

ArcGIS Metadata ▼

FGDC Metadata (read-only) ►

Identification ►

CITATION

CITATION INFORMATION

ORIGINATOR USGS

PUBLICATION DATE 2017

TITLE

DDP_Faults

GEOSPATIAL DATA PRESENTATION FORM map

SERIES INFORMATION

SERIES NAME Scientific Investigations Report

ISSUE IDENTIFICATION 2010-5090-BB

OTHER CITATION DETAILS

Cocker, M.D., Orris, G.J., and Dunlap, Pamela, with contributions from Lipin, B.R., Ludington, Steve, Ryan, R.J., Słowakiewicz, Mirosław, Spanski, G.T., Wynn, Jeff, and Yang, Chao, 2017, Geology and undiscovered resource assessment of the potash-bearing Pripyat and Dnieper-Donets Basins, Belarus and Ukraine: U.S. Geological Survey Scientific Investigations Report 2010 -5090 -BB, 116 p., and spatial data, <https://doi.org/10.3133/sir20105090BB>.

DESCRIPTION

ABSTRACT

An assessment of potash resources in the Pripyat and Dnieper-Donets Basins, Belarus and Ukraine, was undertaken as part of a global mineral resource assessment. Areas which are defined by geological criteria as permitting specific types of deposits are referred to as permissive tracts. Four permissive tracts with the potential for undiscovered potash deposits are delineated. These include permissive tracts for stratabound potash-bearing deposits in Famennian age (Upper Devonian) salt in the Pripyat Basin and in Famennian and Cisuralian age (lower Permian) salt in the Dnieper-Donets Basin. The geology of each of these permissive tracts is described. A qualitative assessment of each of these permissive tracts is attempted but varies with the amount and quality of available subsurface information. In addition, a tract is delineated for halokinetic potash-bearing salt in the Famennian of the Dnieper-Donets Basin, and a quantitative estimate of undiscovered resources is made for this tract. These evaporite basins formed within the Pripyat-Donbass Rift, an Upper Devonian continental rift structure, and their geology and potash potential are dependent on the evolution of the rift and potash-bearing salt deposition within the rift.

PURPOSE

The spatial database DDP_Faults was prepared for use in the mineral resource assessment of potash in the Dnieper-Donets and Pripyat basins in Belarus and Ukraine.

TIME PERIOD OF CONTENT

TIME PERIOD INFORMATION

SINGLE DATE/TIME

CALENDAR DATE 2016

CURRENTNESS REFERENCE

2016

STATUS

PROGRESS Complete, no updates planned.

SPATIAL DOMAIN

BOUNDING COORDINATES

WEST BOUNDING COORDINATE 26.834068

EAST BOUNDING COORDINATE 38.511457

NORTH BOUNDING COORDINATE 53.262712

SOUTH BOUNDING COORDINATE 48.441832

KEYWORDS

THEME

THEME KEYWORD THESAURUS None
 THEME KEYWORD faults
 THEME KEYWORD Dneiper-Donets basin
 THEME KEYWORD Pripyat basin
 THEME KEYWORD Belarus
 THEME KEYWORD Ukraine

ACCESS CONSTRAINTS

None

USE CONSTRAINTS

None

DATA SET CREDIT

Deborah A. Briggs performed all image processing to produce georectified map images; Pamela Dunlap and Leila Gass digitized faults from georectified maps; and Pamela Dunlap wrote the metadata and prepared the digital data for publication.

NATIVE DATA SET ENVIRONMENT

Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.1.1.3143

Hide Identification ▲

Data Quality ►

LOGICAL CONSISTENCY REPORT

No tests for consistency have been performed.

LINEAGE

SOURCE INFORMATION

SOURCE SCALE DENOMINATOR 2000000

TYPE OF SOURCE MEDIA hardcopyPaper

SOURCE CONTRIBUTION

Kityk, V. I., 1970, [The diagram of the layout of salt raisings in the Dnieper-Donets Depression], fig. 34 in Solianaia tektonika Dniepero-Donetskoi vpadiny [Salt tectonics of the Dnieper-Donets Depression]: Ukrainian S.S.R. Academy of the Institute of Geology and Geochemistry, 201 p., scale 1:2,000,000. [in Russian.]

SOURCE INFORMATION

SOURCE SCALE DENOMINATOR 2000000

TYPE OF SOURCE MEDIA hardcopyPaper

SOURCE CONTRIBUTION

Makhnach, A.A., Kuleshov, V.N., Pokrovskii, B.G., Gulis, L.F., Mikhailov, N.D., and Kolosov, I.L., 2002, Distribution of upper saliferous sediments in the Pripyat Trough (Vysotskiy and others, 1988), fig. 1 in Isotopic composition of oxygen and carbon and formation temperature of accessory minerals from evaporitic sediments in the Pripyat Trough: Lithology and Mineral Resources, v. 37, no. 6, p. 536-545, fig. 1, scale about 1:2,000,000.

PROCESS STEP

PROCESS DESCRIPTION

Faults were digitized in a GIS from georeferenced maps.

PROCESS DATE 2012

Hide Data Quality ▲

Spatial Data Organization ►

DIRECT SPATIAL REFERENCE METHOD Vector

POINT AND VECTOR OBJECT INFORMATION

SDTS TERMS DESCRIPTION

SDTS POINT AND VECTOR OBJECT TYPE String

POINT AND VECTOR OBJECT COUNT 42

Hide Spatial Data Organization ▲

Spatial Reference ►

HORIZONTAL COORDINATE SYSTEM DEFINITION

PLANAR

MAP PROJECTION

MAP PROJECTION NAME Albers Conical Equal Area

ALBERS CONICAL EQUAL AREA

STANDARD PARALLEL 49.0

STANDARD PARALLEL 51.0

LONGITUDE OF CENTRAL MERIDIAN 34.0

LATITUDE OF PROJECTION ORIGIN 30.0

FALSE EASTING 0.0

FALSE NORTHING 0.0

PLANAR COORDINATE INFORMATION

PLANAR COORDINATE ENCODING METHOD coordinate pair

COORDINATE REPRESENTATION

ABSCISSA RESOLUTION 0.0001

ORDINATE RESOLUTION 0.0001

PLANAR DISTANCE UNITS meter

GEODETTIC MODEL

HORIZONTAL DATUM NAME D European 1950

ELLIPSOID NAME International 1924

SEMI-MAJOR AXIS 6378388.0

DENOMINATOR OF FLATTENING RATIO 297.0

Hide Spatial Reference ▲

Entities and Attributes ►

DETAILED DESCRIPTION

ENTITY TYPE

ENTITY TYPE LABEL DDP_Faults

ATTRIBUTE

ATTRIBUTE LABEL OBJECTID

ATTRIBUTE DEFINITION

Internal feature number.

ATTRIBUTE DEFINITION SOURCE ESRI

ATTRIBUTE DOMAIN VALUES

UNREPRESENTABLE DOMAIN

Sequential unique whole numbers that are automatically generated.

ATTRIBUTE

ATTRIBUTE LABEL Shape

ATTRIBUTE DEFINITION

Feature geometry.

ATTRIBUTE DEFINITION SOURCE ESRI

ATTRIBUTE DOMAIN VALUES

UNREPRESENTABLE DOMAIN

Coordinates defining the features.

ATTRIBUTE

ATTRIBUTE LABEL Fault
 ATTRIBUTE DEFINITION
 Name of geologic fault.

ATTRIBUTE

ATTRIBUTE LABEL Shape_Length
 ATTRIBUTE DEFINITION
 Length of feature in internal units.
 ATTRIBUTE DEFINITION SOURCE ESRI
 ATTRIBUTE DOMAIN VALUES
 UNREPRESENTABLE DOMAIN
 Positive real numbers that are automatically generated.

ATTRIBUTE

ATTRIBUTE LABEL Short_Refs
 ATTRIBUTE DEFINITION
 Abbreviated citation(s) for source reference(s) used in compiling the data; multiple citations are delimited by semicolons. Full references are listed in the Lineage section of the metadata.

Hide Entities and Attributes ▲

Distribution Information ►

DISTRIBUTOR

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY
 CONTACT ORGANIZATION U.S. Geological Survey

CONTACT ADDRESS

ADDRESS TYPE mailing
 ADDRESS Denver Federal Center, P.O. Box 25286
 CITY Denver
 STATE OR PROVINCE Colorado
 POSTAL CODE 80225
 COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 520-670-5583

CONTACT ELECTRONIC MAIL ADDRESS infoservices@usgs.gov

DISTRIBUTION LIABILITY

See access and use constraints information.

Hide Distribution Information ▲

Metadata Reference ►

METADATA DATE 2017-07-25

METADATA CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY
 CONTACT ORGANIZATION U.S. Geological Survey
 CONTACT PERSON Pamela Dunlap

CONTACT POSITION Geologist

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 ADDRESS 520 N. Park Avenue
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POSTAL CODE 85719
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 520-670-5573
CONTACT ELECTRONIC MAIL ADDRESS pdunlap@usgs.gov

METADATA STANDARD NAME FGDC Content Standard for Digital Geospatial Metadata
METADATA STANDARD VERSION FGDC-STD-001-1998
METADATA TIME CONVENTION local time

METADATA USE CONSTRAINTS
None.

Hide Metadata Reference ▲