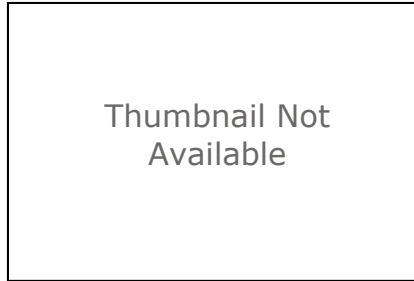


## DDP\_Salt



### Tags

geoscientificInformation

### Summary

DDP\_Salt -- A spatial database of areas of rock salt; it 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 extent of salt 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\_Salt

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

DDP\_Salt -- A spatial database of areas of rock salt; it 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.

MAINTENANCE AND UPDATE FREQUENCY None planned

#### SPATIAL DOMAIN

##### BOUNDING COORDINATES

WEST BOUNDING COORDINATE 26.902079

EAST BOUNDING COORDINATE 38.604637

NORTH BOUNDING COORDINATE 53.200825  
 SOUTH BOUNDING COORDINATE 48.344628

## KEYWORDS

## THEME

THEME KEYWORD THESAURUS ISO 19115 Topic Categories  
 THEME KEYWORD geoscientificInformation

## PLACE

PLACE KEYWORD THESAURUS United Nations geographic regions and countries  
 PLACE KEYWORD Eastern Europe

## 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 extent of salt 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 checks for consistency have been performed.

## COMPLETENESS REPORT

Complete.

## 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

Areas of rock salt 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 GT-polygon composed of chains

POINT AND VECTOR OBJECT COUNT 2

*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\_Salt

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 Salt\_desc  
 ATTRIBUTE DEFINITION  
 General description of geologic units.

ATTRIBUTE  
 ATTRIBUTE LABEL Age\_period  
 ATTRIBUTE DEFINITION  
 Geologic period of host rock unit and rock salt.  
 ATTRIBUTE DEFINITION SOURCE International Commission on Stratigraphy, 2010, International stratigraphic chart: accessed March 20, 2014, at <http://www.stratigraphy.org/ICSchart/StratChart2010.pdf>.

ATTRIBUTE  
 ATTRIBUTE LABEL Basin  
 ATTRIBUTE DEFINITION  
 Evaporite basin which contains rock salt.

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 Shape\_Area  
 ATTRIBUTE DEFINITION  
 Area of feature in internal units squared.  
 ATTRIBUTE DEFINITION SOURCE ESRI  
 ATTRIBUTE DOMAIN VALUES  
 UNREPRESENTABLE DOMAIN  
 Positive real numbers that are automatically generated.

ATTRIBUTE  
 ATTRIBUTE LABEL Area\_km2  
 ATTRIBUTE DEFINITION  
 Area of evaporate basin; calculated using an equal area map projection.  
 ATTRIBUTE DOMAIN VALUES  
 RANGE DOMAIN  
 ATTRIBUTE UNITS OF MEASURE square kilometers

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 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

#### CONTACT ADDRESS

ADDRESS TYPE mailing

ADDRESS 520 N. Park Avenue

CITY Tucson

STATE OR PROVINCE Arizona

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 ▲*