Metadata:
  Identification_Information:
    Citation:
      Citation_Information:
        Originator: Schruben, Paul G.
        Originator: Arndt, Raymond E.
        Originator: Bawiec, Walter J.
        Originator: King, Philip B.
        Originator: Beikman, Helen M.
        Publication_Date: 1994
        Title:
          Geology of the Conterminous United States at 1:2,500,000 Scale --
          A Digital Representation of the 1974 P.B. King and H.M. Beikman Map
        Geospatial_Data_Presentation_Form: Map
        Series_Information:
          Series_Name: U.S. Geological Survey Digital Data Series
          Issue_Identification: DDS-11
        Publication_Information:
          Publication_Place: Reston, VA
          Publisher: U.S. Geological Survey
        Online_Linkage: <http://minerals.er.usgs.gov/kb/>
    Description:
      Abstract:
        This CD-ROM contains a digital version of the Geologic Map of the
        United States, originally published at a scale of 1:2,500,000 (King
        and Beikman, 1974b). It excludes Alaska and Hawaii. In addition to
        the graphical formats, the map key is included in ASCII text.

        A geographic information system (GIS) allows combining and
        overlaying of layers for analysis of spatial relations not readily
        apparent in the standard paper publication. This disc contains only
        geology. However, digital data on geology, geophysics, and
        geochemistry can be combined to create useful derivative products--
        for example, see Phillips and others (1993).

        This CD-ROM contains a copy of the text and figures from
        Professional Paper 901 by King and Beikman (1974a). This text
        describes the historical background of the map, details of the
        compilation process, and limitations to interpretation. The digital
        version of the text can be searched for keywords or phrases.
      Purpose:
        Conversion of the geologic map of the U.S. to a digital format
        was undertaken to facilitate the presentation and analysis of
        earth-science data. Digital maps can be displayed at any scale
        or projection, whereas a paper map has a fixed scale and
        projection. However, the geology on this disc is not intended to
        be used at any scale finer than 1:2,500,000.
      Supplemental_Information:
        For DOS users, the CD-ROM contains menu-driven analytical software,
        in which the user selects from an array of topics. The CD-ROM also
        contains MAPPER display software, a user-friendly package that
        displays the interactive vector map. The raster image of the
        geologic map can be displayed with VIEWLBL.

        For other types of computer users, the map must be converted from
        one of the following formats included on the CD-ROM:

```
        ARC/INFO 6.1.1 Export
        Digital Line Graph (DLG) Optional
        Drawing Exchange File (DXF)
        Map Overlay Statistical System (MOSS)
    Time_Period_of_Content:
      Time_Period_Information:
        Multiple_Dates/Times:
          Single_Date/Time:
            Calendar_Date: 1974
          Single_Date/Time:
            Calendar_Date: 1994
      Currentness_Reference: Publication date of the original work (1974) and
the CD-ROM (1994)
    Status:
      Progress: complete
      Maintenance_and_Update_Frequency: not planned
    Spatial_Domain:
      Bounding_Coordinates:
        West_Bounding_Coordinate: -162.0
        East_Bounding_Coordinate: -66.0
        North_Bounding_Coordinate: 60.0
        South_Bounding_Coordinate: 24.0
    Keywords:
      Theme:
        Theme_Keyword_Thesaurus: None
        Theme_Keyword: Geology
        Theme_Keyword: Bedrock
      Place:
        Place_Keyword_Thesaurus: None
        Place_Keyword: Conterminous United States
      Theme:
        Theme_Keyword_Thesaurus: National Geologic Map Database Catalog themes,
augmented
        Theme_Keyword: 1100 - Geology
        Theme_Keyword: 1101 - General
      Place:
        Place_Keyword_Thesaurus: Augmented FIPS 10-4 and FIPS 6-4, version 1.0
        Place_Keyword: US01 = Alabama
        Place_Keyword: US04 = Arizona
        Place_Keyword: US05 = Arkansas
        Place_Keyword: US06 = California
        Place_Keyword: US08 = Colorado
        Place_Keyword: US09 = Connecticut
        Place_Keyword: US10 = Delaware
        Place_Keyword: US11 = District of Columbia
        Place_Keyword: US12 = Florida
        Place_Keyword: US13 = Georgia
        Place_Keyword: US16 = Idaho
        Place_Keyword: US17 = Illinois
        Place_Keyword: US18 = Indiana
        Place_Keyword: US19 = Iowa
        Place_Keyword: US20 = Kansas
        Place_Keyword: US21 = Kentucky
        Place_Keyword: US22 = Louisiana
        Place_Keyword: US23 = Maine
        Place_Keyword: US24 = Maryland
        Place_Keyword: US25 = Massachusetts
```

```
    Place_Keyword: US26 = Michigan
    Place_Keyword: US27 = Minnesota
    Place_Keyword: US28 = Mississippi
    Place_Keyword: US29 = Missouri
    Place_Keyword: US30 = Montana
    Place_Keyword: US31 = Nebraska
    Place_Keyword: US32 = Nevada
    Place_Keyword: US33 = New Hampshire
    Place_Keyword: US34 = New Jersey
    Place_Keyword: US35 = New Mexico
    Place_Keyword: US36 = New York
    Place_Keyword: US37 = North Carolina
    Place_Keyword: US38 = North Dakota
    Place_Keyword: US39 = Ohio
    Place_Keyword: US40 = Oklahoma
    Place_Keyword: US41 = Oregon
    Place_Keyword: US42 = Pennsylvania
    Place_Keyword: US44 = Rhode Island
    Place_Keyword: US45 = South Carolina
    Place_Keyword: US46 = South Dakota
    Place_Keyword: US47 = Tennessee
    Place_Keyword: US48 = Texas
    Place_Keyword: US49 = Utah
    Place_Keyword: US50 = Vermont
    Place_Keyword: US51 = Virginia
    Place_Keyword: US53 = Washington
    Place_Keyword: US54 = West Virginia
    Place_Keyword: US55 = Wisconsin
  Theme:
    Theme_Keyword_Thesaurus: Gateway to the Earth (USGS) draft 6
    Theme_Keyword: geology
    Theme_Keyword: geologic maps
    Theme_Keyword: lithostratigraphy
    Theme_Keyword: faults
    Theme_Keyword: folds (geologic)
Access_Constraints: none
Use_Constraints: none
Point_of_Contact:
  Contact_Information:
    Contact_Person_Primary:
      Contact_Person: Schruben, Paul G.
      Contact_Organization: Minerals Information Office
    Contact_Address:
      Address_Type: mailing address
      Address:
        Mail Stop 920, National Center
        U.S. Geological Survey
        12201 Sunrise Valley Drive
      City: Reston
      State_or_Province: VA
      Postal_Code: 20192
    Contact_Voice_Telephone: (703) 648-6142
    Contact_Facsimile_Telephone: (703) 648-6057
    Contact_Electronic_Mail_Address: pschruben@usgs.gov
Browse_Graphic:
  Browse_Graphic_File_Name: <http://minerals.er.usgs.gov:80/kb/kb.gif>
```

```
      Browse_Graphic_File_Description: Bedrock geologic map units of the
conterminous United States
      Browse_Graphic_File_Type: GIF
    Native_Data_Set_Environment:
      Data General AViiON 6220 computer system running
      the DG/UX version of UNIX.
    Cross_Reference:
      Citation_Information:
        Originator: King, Philip B.
        Originator: Beikman, Helen M.
        Publication_Date: 1974
        Title: Explanatory text to accompany the geologic map of the United
States
        Series_Information:
          Series_Name: U.S. Geological Survey Professional Paper
          Issue_Identification: 901
        Publication_Information:
          Publication_Place: Reston, VA
          Publisher: U.S. Geological Survey
  Data_Quality_Information:
    Attribute_Accuracy:
      Attribute_Accuracy_Report:
        The linework was captured by hand digitizing as well as scanning from
        the paper map and negatives.  The digital map was assembled and edited
in
        ARC/INFO on a State-by-State basis, which caused some edge-matching
        problems.  The final mosaic was adjusted several times to correct for
        registration problems.  The coastline was taken from the 1:2,000,000
scale
        Digital Line Graph data (U.S. Geological Survey, 1987), generalized to 1
km.

        Construction of a geologic map of an area as large and complex as the
        conterminous United States requires a great deal of generalization:
geologic
        units shown on larger scale maps are combined into broader map units and
        their contacts are simplified to produce a pattern that is legible at
the
        scale of publication.  The process of generalization used in the
compilation
        of the Geologic Map of the United States is described in King and
Beikman
        (1974a, p. 20).

        Furthermore, the Geologic Map of the United States is primarily a
bedrock
        map, which depicts geologic materials present beneath the soil or
relatively
        thin mantles of surficial deposits, not necessarily the surficial
materials
        themselves.  For example, the map does not depict the glacial deposits
in
        the northern States, the widespread eolian deposits in the High Plains,
and
        the high-level gravels that mantle older Tertiary and pre-Tertiary units
in
        much of the Atlantic and Gulf Coastal Plains.
```

Logical_Consistency_Report:

The coverages on this disc for the digital geologic map of the conterminous United States differ in several ways from the published map. The county outlines, cities, drainage, and other base-map information are not present on the digital version except as overlays in MAPPER. Only the larger water bodies are included.

The larger geology polygons are split into several smaller polygons to avoid problems with color and pattern fill on screen plots and paper plotters. The maximum polygon size is 1476 vertices, which is PostScript compatible.

The rock-unit names are stored in uppercase letters as well as the published mixed case. For instance:

> TMC Tmc
> TMOE Tmoe
> UTA uTa

The uppercase names are used in the coverage because an INFO sort in ARC/INFO is case sensitive. The lookup tables must be sorted to work correctly. The mixed-case rock-unit names are in the kbcolor.lut lookup table. Longer rock-unit descriptions such as:

> Cretaceous granitic rocks
> Washita Group

are in the ROCKDESC column of the .pat file of the KBLEG coverage. Some of the unit names have been modified to avoid ambiguity.

The Pennsylvanian symbol is stored as PP in:

> PP
> PP1
> PP1a
> PP2
> PP3
> PP4

The Triassic symbol is stored as Tr in:

> JTr
> Tr
> TrPe
> Trv
> Tri
> Trg

The Cambrian symbol is stored as C in:

> C
> Cq
> OC
> Ce
> Cv
> Cg

> m1 is replaced with mm1 to avoid confusion with M1
> m2 is replaced with mm2 to avoid confusion with M2
> m3 is replaced with mm3 to avoid confusion with M3
> m4 is replaced with mm4 for consistency

The extent of glaciation appears in the legend but is not present in the coverage.

Completeness_Report:
The map does not include coverage of Alaska, Hawaii, or territories.

The Geologic Map of the United States is primarily a bedrock map, which depicts geologic materials present beneath the soil or relatively thin mantles of surficial deposits, not necessarily the surficial materials themselves. For example, the map does not depict the glacial deposits in the northern States, the widespread eolian deposits in the High Plains, and the high-level gravels that mantle older Tertiary and pre-Tertiary units in much of the Atlantic and Gulf Coastal Plains.

Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report:
The users of the geologic map on this disc should respect the intentions of the compilers of the map and some of its limitations. The Geologic Map of the United States (King and Beikman, 1974b) is intended to be used at a scale of 1:2,500,000; it is not intended to be used at a more detailed scale. For instance, Colorado is about 10 inches wide at the published scale of the King and Beikman map.

Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Originator: Philip B. King
Originator: Helen M. Beikman
Publication_Date: 1974
Title: Explanatory text to accompany the geologic map of the United States
Series_Information:
Series_Name: U.S. Geological Survey Professional Paper
Issue_Identification: 901
Publication_Information:
Publication_Place: Reston, VA
Publisher: U.S. Geological Survey
Other_Citation_Details: Library of Congress catalog - card No. 74-600169
Source_Scale_Denominator: 2500000
Type_of_Source_Media: Paper
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 1974
Source_Currentness_Reference: Publication date

```
        Source_Citation_Abbreviation: King and Beikman (1974)
        Source_Contribution: Data presented on USGS DDS-11 were produced by
scanning this printed map.
      Process_Step:
        Process_Description:
          The linework was captured by hand digitizing as well as scanning from
the
          paper map and negatives.  The digital map was assembled and edited in
          ARC/INFO on a State-by-State basis, which caused some edge-matching
          problems.  The final mosaic was adjusted several times to correct for
          registration problems.  The coastline was taken from the 1:2,000,000
scale
          Digital Line Graph data (U.S. Geological Survey, 1987), generalized to
1 km.

          The ARC/INFO version of the Geologic Map of the United States consists
          of three coverages:

          1) geology - 12,800 polygons
          2) faults  - 3 fault types and hidden contacts
          3) legend  - 164 rock units

          The fault coverage has four line types:

          1) faults
          2) dashed faults
          3) dotted faults
          4) hidden contacts

          The DESC field descriptors are FAULT, DASH, DOT, CONTAC, respectively.
        Source_Used_Citation_Abbreviation: King and Beikman (1974)
        Process_Date: 1993
  Spatial_Data_Organization_Information:
    Direct_Spatial_Reference_Method: Vector
    Point_and_Vector_Object_Information:
      SDTS_Terms_Description:
        SDTS_Point_and_Vector_Object_Type: Point
        Point_and_Vector_Object_Count: 21465
      SDTS_Terms_Description:
        SDTS_Point_and_Vector_Object_Type: Complete chain
        Point_and_Vector_Object_Count: 29972
      SDTS_Terms_Description:
        SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains
        Point_and_Vector_Object_Count: 12860
  Spatial_Reference_Information:
    Horizontal_Coordinate_System_Definition:
      Planar:
        Map_Projection:
          Map_Projection_Name: Albers Conical Equal Area
          Albers_Conical_Equal_Area:
            Standard_Parallel: 29.50
            Standard_Parallel: 45.50
            Longitude_of_Central_Meridian: -96.0
            Latitude_of_Projection_Origin: 23.0
            False_Easting: 0.0
            False_Northing: 0.0
        Planar_Coordinate_Information:
```

```
          Planar_Coordinate_Encoding_Method: coordinate pair
          Coordinate_Representation:
            Abscissa_Resolution: 1000
            Ordinate_Resolution: 1000
          Planar_Distance_Units: meters
      Geodetic_Model:
        Horizontal_Datum_Name: NAD27
        Ellipsoid_Name: Clarke 1866
        Semi-major_Axis: 6378
        Denominator_of_Flattening_Ratio: 295
  Entity_and_Attribute_Information:
    Detailed_Description:
      Entity_Type:
        Entity_Type_Label: Geologic unit
        Entity_Type_Definition:
          Bedrock formations that are, wherever possible, time-stratigraphic--
that
          is, units which are approximately the same geologic ages at all
places,
          such as systems, series, and stages.
        Entity_Type_Definition_Source: U.S. Geological Survey Professional Paper
901
    Detailed_Description:
      Entity_Type:
        Entity_Type_Label: Fault
        Entity_Type_Definition:
          Faults are shown not only to explain offsets of map units, but for
their own
          sake, to express the structural grain of the area.  The density of
faults
          represented on the geologic map thus equals that which would appear on
a
          tectonic map of the country, but they are marked simply as faults, not
as
          low-angle or high- angle thrust faults, normal faults, or strike-slip
faults;
          for this information the user should consult the appro- priate
tectonic map.
        Entity_Type_Definition_Source: U.S. Geological Survey Professional Paper
901
    Overview_Description:
      Entity_and_Attribute_Overview:
        Labels of the mapped units described by polygons in the data
        set are as follows:

        C,cat,Ce,Cg,Cq,Cv,D,D1,D2,D2c,D3,D3c,De,dike,DS,DSe,DSv,Dv,J,
        Jc,Jg,Jmi,JTr,Kc,Ke,Kg,Kg1,Kg2,Kg3,Kgn,Ki,Kv,lK,lK1,lK2,lK3,
        lMz,lMze,lMzv,lPz,lPze,lTa,lTf,lTv,M,M1,M2,M3,mm1,mm2,mm3,mm4,
        Ms,O,O1,O1a,O1b,O2,O3,OC,Oe,Ov,P,P1,P1c,P2,P2a,P2ac,P2b,P3,P3a,
        P3b,P4,Pe,PP,PP1,PP1a,PP2,PP3,PP4,Pza,Pzg1,Pzg2,Pzg3,Pzmi,Q,
        Qf,Qh,Qp,Qv,S,S1,S2,S3,Se,SOe,Sv,Ta,Te,Te1,Te2,Te3,Teb,Tec,Tee,
        Tel,Ti,Tm,Tmc,Tmf,Tmoe,Tmv,To,Toc,Toee,Tp,Tpc,Tpf,Tpv,Tr,Trg,
        Tri,TrPe,Trv,Tx,Txc,uK,uK1,uK2,uK3,uK3a,uK3b,uK4,uM,uMze,uPz,
        uPzc,uPze,uTa,W,Wg,Wgn,Wmi,WTER,Wv,X,Xg,Xm,Xv,Y,Y1,Y2,Y3,Ya,
        Yg1,Yg2,Ygn,Ym,Ymi,Ys,Yv,Z,Zg,Zv

        Each line object in the fault coverage has one of four attribute
```

values:

1) faults (label FAULT)
2) dashed fault (label DASH)
3) dotted fault (label DOT)
4) hidden contact (label CONTAC)

Full details of the meanings of the attributes are given in USGS Professional Paper 901, whose text is provided with this data set.

Entity_and_Attribute_Detail_Citation:
U.S. Geological Survey Professional Paper 901 is included with this data set (when distributed in CD-ROM format) in ASCII, with figures in TIFF.

Distribution_Information:
Distributor:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: U.S. Geological Survey Information Services
Contact_Address:
Address_Type: mailing address
Address: Box 25286, Denver Federal Center
City: Denver
State_or_Province: CO
Postal_Code: 80225-0286
Contact_Voice_Telephone: 1-888-ASK-USGS
Contact_Facsimile_Telephone: 1-303-202-4693
Resource_Description: USGS DDS-11
Distribution_Liability:
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Graphical map depictions on this disc are intended to be used within the map scale limits applicable to the source data. Although software enables the user to show images on the disc at various scales, the user is cautioned to refer to the source documentation for the appropriate map scale limitations.
Standard_Order_Process:
Digital_Form:

```
    Digital_Transfer_Information:
      Format_Name: ARCE
      Format_Information_Content:
        Geological bedrock units and faults, also state outlines including
        coastlines (from 1:2,000,000-scale DLG of USGS).
      Transfer_Size: 17 Mb
    Digital_Transfer_Option:
      Offline_Option:
        Offline_Media: CD-ROM
        Recording_Format: ISO-9660
  Digital_Form:
    Digital_Transfer_Information:
      Format_Name: Digital Line Graph Optional format
      Format_Version_Number: DLG-3
      Format_Information_Content: Geological bedrock units and faults
      Transfer_Size: 25 Mb
    Digital_Transfer_Option:
      Offline_Option:
        Offline_Media: CD-ROM
        Recording_Format: ISO-9660
  Digital_Form:
    Digital_Transfer_Information:
      Format_Name: Drawing Exchange File (DXF)
      Format_Information_Content: Geological bedrock units and faults
      Transfer_Size: 20 Mb
    Digital_Transfer_Option:
      Offline_Option:
        Offline_Media: CD-ROM
        Recording_Format: ISO-9660
  Digital_Form:
    Digital_Transfer_Information:
      Format_Name: Map Overlay Statistical System (MOSS)
      Format_Information_Content: Geological bedrock units and faults
      Transfer_Size: 17 Mb
    Digital_Transfer_Option:
      Offline_Option:
        Offline_Media: CD-ROM
        Recording_Format: ISO-9660
  Fees: See http://mapping.usgs.gov/esic/prices/index.html
Technical_Prerequisites:
  Geographic data included in DDS-11 are intended for use in a Geographic
  Information System (GIS).

  This CD-ROM was produced in accordance with the ISO 9660 standard and
  thus allows access to the map data files and MAPPER by computers with
  ISO 9660 software drivers.

  In addition, the disc contains menu and display programs that operate
  on DOS-compatible computers with the following configuration:

  > IBM or compatible personal computer
  > 640 kb RAM (at least 540 kb free memory)
  > Math coprocessor
  > MS- or PC-DOS version 5.0 or later
  > Microsoft MSCDEX version 2.1 or later
  > CD-ROM drive with ISO 9660 software driver
  > Hard disk drive (5 Mb free)
```

```
    > Super VGA graphics card (640x480 pixels with 256 colors)
    > VGA color monitor
    > Mouse
Distribution_Information:
  Distributor:
    Contact_Information:
      Contact_Organization_Primary:
        Contact_Organization: USGS Mineral Resource Surveys Program
        Contact_Person: Paul G. Schruben
      Contact_Address:
        Address_Type: mailing address
        Address:
          Mail Stop 920, National Center
          U.S. Geological Survey
          12201 Sunrise Valley Drive
        City: Reston
        State_or_Province: VA
        Postal_Code: 20192
      Contact_Voice_Telephone: 703-648-6142
      Contact_Facsimile_Telephone: 703-648-6057
      Contact_Electronic_Mail_Address: pschruben@usgs.gov
  Distribution_Liability:
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    expressed herein do not necessarily state or reflect those of the
    United States Government or any agency thereof.

    Although all data and software published on this CD-ROM have been used
    by the USGS, no warranty, expressed or implied, is made by the U.S.
    Geological Survey as to the accuracy of the data and related materials
    and/or the functioning of the software. The act of distribution shall
    not constitute any such warranty, and no responsibility is assumed by
    the USGS in the use of this data, software, or related materials.

    Graphical map depictions on this disc are intended to be used within
    the map scale limits applicable to the source data. Although software
    enables the user to show images on the disc at various scales, the
    user is cautioned to refer to the source documentation for the
    appropriate map scale limitations.
  Standard_Order_Process:
    Digital_Form:
      Digital_Transfer_Information:
        Format_Name: ARCE in UNIX tar file
        Format_Version_Number: 7.1.1
        Format_Information_Content: Geology and fault coverages
        File_Decompression_Technique: tar xvfo kbexport.tar
        Transfer_Size: 35
```

```
        Digital_Transfer_Option:
          Online_Option:
            Computer_Contact_Information:
              Network_Address:
                Network_Resource_Name:
<http://minerals.er.usgs.gov/kb/kbexport.tar>
            Online_Computer_and_Operating_System: Data General AViiON running
DG/UX 5.4R3.10
      Digital_Form:
        Digital_Transfer_Information:
          Format_Name: ARC/INFO coverages in a UNIX tar file
          Format_Version_Number: 7.1.1
          Format_Information_Content: Bedrock map unit and fault coverages
          File_Decompression_Technique: tar xvfo kb.tar
          Transfer_Size: 24
        Digital_Transfer_Option:
          Online_Option:
            Computer_Contact_Information:
              Network_Address:
                Network_Resource_Name: <http://minerals.er.usgs.gov/kb/kb.tar>
            Online_Computer_and_Operating_System: Data General AViiON running
DG/UX 5.4R3.10
      Fees: none
  Metadata_Reference_Information:
    Metadata_Date: 19990407
    Metadata_Contact:
      Contact_Information:
        Contact_Person_Primary:
          Contact_Person: Peter N. Schweitzer
        Contact_Address:
          Address_Type: mailing address
          Address:
            Mail Stop 918 National Center
            U.S. Geological Survey
            12201 Sunrise Valley Drive
          City: Reston
          State_or_Province: VA
          Postal_Code: 20192
          Country: USA
        Contact_Voice_Telephone: (703) 648-6533
        Contact_Facsimile_Telephone: (703) 648-6560
        Contact_Electronic_Mail_Address: pschweitzer@usgs.gov
    Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial
Metadata
    Metadata_Standard_Version: FGDC-STD-001-1998
```