Identification Information

Abstract
8 digit hydrologic unit boundaries for the conterminous United States.

Purpose
This coverage is intended as a basemap for national level analysis.

Supplemental Information

Procedures Used
This coverage contains the 8 digit hydrologic unit boundaries for the conterminous United States. The coverage was downloaded by Iowa State University from USGS (http://water.usgs.gov/lookup/getspatial?huc250k).
ISU made the following corrections using paper maps as a source:
- Huc 14060001 exists as 2 polygons. Southern polygon was relabeled correctly as 14060002.
- Huc 03100103 Charlotte Harbor was omitted. ISU added.
- Huc 17100306 was omitted. The huc 17100304 was cut off at the coast. The south huc should be 17100306 and the north huc should be 17100304.
NRCS clipped the coverage to a shoreline created by the National Center for Resource Innovations (NRCI). NRCI derived the shoreline from 1:2,000,000 scale USGS Digital Line Graph (DLG) files.

Revisions
This coverage was last updated in 2001.

Reviews Applied to Data
This coverage has received no formal review.

Related Spatial and Tabular Data Sets
Other NRI Map Room Basemap Coverages include counties and Federal lands, derived from USGS coverages, and a Major Land Resource Areas (MLRA) coverage derived from the MLRA map in Agricultural Handbook 296. These are intended to have the same shoreline and outer boundaries, although this has not been thoroughly verified.
References_Cited
NRCS National Headquarters, Resources Inventory and Assessment Division.

Notes

Time_Period_of_Content
Currentness_Reference
This coverage was last updated in 2001.

Status
Progress: complete
Maintenance_and_Update_Frequency
as needed

Spatial_Domain
Bounding_Coordinates
West_Bounding_Coordinate: -127.87098736
East_Bounding_Coordinate: -65.35700008
North_Bounding_Coordinate: 48.24405827
South_Bounding_Coordinate: 22.87753429

Keywords
Theme
Theme_Keyword_Thesaurus: None
Theme_Keyword: Hydrologic Units
Place
Place_Keyword_Thesaurus: None
Place_Keyword: conterminous United States
Stratum
Stratum_Keyword_Thesaurus: None
Stratum_Keyword:
Temporal
Temporal_Keyword_Thesaurus: None
Temporal_Keyword:

Access_Constraints
none

Use_Constraints
This coverage is designed for national, regional, and state level analysis. It may not be appropriate for use at larger scales. This map does not meet National Map Accuracy Standards.

Point_of_Contact: See Distribution Information for contact information.

Data_Set_Credit
USGS
Mark Rogers, ISU, mtrogers@iastate.edu
Dean Oman at dean.oman@wdc.usda.gov
the RIAD staff at nri@wdc.usda.gov
George Muehlbach, NCRI, made the shoreline.

Security_Information
Security_Classification_System: None
Security_Classification: UNCLASSIFIED
Security_Handling_Description: None

Native_Data_Set_Environment: SunOS UNIX, ARC/INFO version 7.2.1

Cross_Reference
Originator: Dean Oman
Publication_Date: 2001
Publication_Time:
Title: 8 Digit Hydrologic Unit Boundaries for the Conterminous United States
Edition:
Geospatial_Data_Presentation_Form: Arc/Info
Series_Information
Series_Name:
Issue_Identification:
Publication_Information
PublicationPlace: Washington, DC
Publisher: NRCS
Data_Quality_Information

Attribute_Accuracy
Attribute_Accuracy_Report: See Entity Attribute Information

Quantitative Attribute Accuracy Assessment
Attribute_Accuracy_Value: See Explanation
Attribute_Accuracy_Explanation: Attribute accuracy is described, where present, with each attribute defined in the Entity and Attribute Section.

Logical_Consistency_Report: Polygon topology present.

Completeness_Report
complete

Positional_Accuracy
Horizontal_Positional_Accuracy
Horizontal_Positional_Accuracy_Report:

Vertical_Positional_Accuracy
Vertical_Positional_Accuracy_Report:

Lineage: See Supplemental Information for overview.

Process_Steps

Process Step
Process_Description: DOMAN DISSOLVE US48CROSS US48HU8 HU8 POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19970122
Process_Time: 1854
Source_Produced_Citation_Abbreviation: None

Process Step
Process_Description: DOMAN COPY ../PROJECTS/US48HU8 ../../PERMANENT/HU8/US48HU8
Source_Used_Citation_Abbreviation: None
Process_Date: 19970204
Process_Time: 1530
Source_Produced_Citation_Abbreviation: None

Process Step
Process_Description: GUEST EXPORT COVER /GIS/ARC/PERMANENT/HU8/US48HU8 US48HU8 NONE
Source_Used_Citation_Abbreviation: None
Process_Date: 19970630
Process_Time: 1515
Source_Produced_Citation_Abbreviation: None

Process Step
Process_Description: DOMAN PROJECTCOPY COVER ../ST/US48ST COVER US48HU8
Source_Used_Citation_Abbreviation: None
Process_Date: 19971008
Process_Time: 802
Source_Produced_Citation_Abbreviation: None

Process Step
Source_Used_Citation_Abbreviation: None
Process_Date: 19971128
Process_Time: 947
Source_Produced_Citation_Abbreviation: None

Process Step
Process_Description: DOMAN INDEX US48HU8
Source_Used_Citation_Abbreviation: None
Process_Date: 19980310
Process_Time: 1657
Source_Produced_Citation_Abbreviation: None
Cloud_Cover
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: 3620
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 8321
SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains'
Point_and_Vector_Object_Count: 3620

Spatial_Reference_Information

Horizontal_Coordinate_System_Definition

Planar

Map_Projection:
Map_Projection_Name: ALBERS
Longitude_of_Central_Meridian: -96
Latitude_of_Projection_Origin: 23
Latitude_of_First_Standard_Parallel: 29.5
Latitude_of_Second_Standard_Parallel: 45.5
False_Easting: 0.00000
False_Northing: 0.00000

Geodetic Model

Horizontal_Datum_Name: North American Datum of 1927
Ellipsoid_Name: Clarke 1866
Semi-major_Axis: 6,378,206.4
Denominator_of_Flattening: 294.98

Entity_and_Attribute_Information

Detailed_Description

Entity_Type

Entity_Type_Label: US48HU8.PAT
Entity_Type_Definition: 8 Digit Hydrologic Unit Codes
Entity_Type_Definition_Source: USGS

Attribute:

Attribute_Label: -
Attribute_Definition: 8 Digit Hydrologic Unit Codes
Attribute_Definition_Source: USGS
Attribute_Domain_Values

Enumerated_Domain
Enumerated_Domain_Value: -
Enumerated_Domain_Value_Definition
Enumerated_Domain_Value_Definition_Source:

Attribute:

Attribute_Label: AREA
Attribute_Definition: Area of poly/region in square coverage units
Attribute_Definition_Source: Computed
Attribute_Domain_Values

Enumerated_Domain
Enumerated_Domain_Value: Positive real numbers
Enumerated_Domain_Value_Definition
Enumerated_Domain_Value_Definition_Source:

Attribute:

Attribute_Label: PERIMETER
Attribute_Definition: Perimeter of poly/region in coverage units
Attribute_Definition_Source: Computed
Attribute_Domain_Values

Enumerated_Domain
Enumerated_Domain_Value: Positive real numbers
Enumerated_Domain_Value_Definition
Enumerated_Domain_Value_Definition_Source:

Attribute:

Attribute_Label: US48HU8#
Attribute: 
  Attribute_Label: US48HU8-ID 
  Attribute_Definition: User-assigned feature number 
  Attribute_Definition_Source: User-defined 
  Attribute_Domain_Values 
    Enumerated_Domain 
      Enumerated_Domain_Value: Integer 
      Enumerated_Domain_Value_Definition 
      Enumerated_Domain_Value_Definition_Source: 

Attribute: 
  Attribute_Label: HU8 
  Attribute_Definition: 8 Digit Hydrologic Unit Code 
  Attribute_Definition_Source: USGS 
  Attribute_Domain_Values 
    Enumerated_Domain 
      Enumerated_Domain_Value: Integer 
      Enumerated_Domain_Value_Definition 
      Enumerated_Domain_Value_Definition_Source: 

Attribute: 
  Attribute_Label: HU6 
  Attribute_Definition: 6 Digit Hydrologic Unit Code 
  Attribute_Definition_Source: USGS 
  Attribute_Domain_Values 
    Enumerated_Domain 
      Enumerated_Domain_Value: Integer 
      Enumerated_Domain_Value_Definition 
      Enumerated_Domain_Value_Definition_Source: 

Attribute: 
  Attribute_Label: NAME 
  Attribute_Definition: Hydrologic Unit Name 
  Attribute_Definition_Source: USGS 
  Attribute_Domain_Values 
    Enumerated_Domain 
      Enumerated_Domain_Value: 
      Enumerated_Domain_Value_Definition 
      Enumerated_Domain_Value_Definition_Source: 

Overview_Description 
  Entity_and_Attribute_Overview 
  Attributes include 8 digit and 6 digit hydrologic unit codes. 

Entity_and_Attribute_Detail_Citation: Not Available

Distribution_Information

Metadata_Reference_Section

Metadata_Date: 19020103 
Metadata_Contact:

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata 
Metadata_Standard_Version: 19940608 
Metadata_Time_Consention: Local Time 
Metadata_Security_Information: 
  Metadata_Security_Classification_System: None 
  Metadata_Security_Classification: UNCLASSIFIED 
  Metadata_Security_Handling_Description: None 

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