Appendix B

Metadata for Arc/Info format Highway Vector Coverage

HDDS provides a METADATA option which allows the user to select one of two coverages, highways and hydrologic regions, then browse through sections of metadata in any order. Only the highway metadata are printed here.

1. Identification_Information: Coverage name txrds
   Citation:
      Citation_Information:
      Originator: Peter N. Smith, Graduate Student, University of Texas at Austin
      Publication_Date: 1995
      Title: Sulphur River Basin State Highways
      Publication_Information: CRP report “Hydrologic Data Development System”
      Publication_Place: Center for Research in Water Resources, UT
      Publisher: Dr. David Maidment
   Description:
      Abstract:
      The highways within a rectangular map extent of the Sulphur River Basin in northeast Texas are contained in an ArcInfo format vector coverage of lines. The highways were abstracted from the USGS 1:2,000,000 digital line graphs after having been line delimited, imported into ArcInfo and projected into Albers Equal Area. Highway names were subsequently added as attributes.
      Purpose:
      The highways are used for locational purposes and to identify highway crossings of streams for a prototype hydrologic analysis tool entitled Hydrologic Data Development System.
   Time_Period_of_Content:
      Time_Period_Information:
      Range_of_Dates/Times:
      Beginning_Date: Jan 1995
      Ending_Date: May 1995
      Currentness_Reference: publication date
   Status:
      Progress: Complete
      Maintenance_and_Update_Frequency: None scheduled
   Spatial_Domain:
      Bounding_Coordinates:
      West_Bounding_Coordinate: -35154.781
      East_Bounding_Coordinate: 50935.356
      North_Bounding_Coordinate: 1185953.813
      South_Bounding_Coordinate: 1141838.434
   Keywords:
      Theme:
      Theme_KEYWORD_Thesaurus: None.
      Theme_KEYWORD: Highways
      Theme_KEYWORD: DLG
      Theme_KEYWORD: Digital Line Graph
   Place:
      Place_KEYWORD_Thesaurus: None
      Place_KEYWORD: University of Texas at Austin
2. Data_Quality_Information

Attribute_Accuracy:
Attribute_Accuracy_Report:
The accuracy of highway names was tested by performing spatial queries within ArcInfo and comparing selected arcs with a Texas Department of Transportation Highway paper map.

Logical_Consistency_Report:
There are no extraneous intersections; that is, a line does not join or cross another line, or itself, except at a node. No line extends through a node.

Completeness_Report:
Data completeness generally reflects the content of the original source digital line graphs.

Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report:
There is noticeable displacement between this coverage and larger scale (1:100,000) data.

Lineage:
Source_Information:
Source_Citation:
Originator: U.S. Geological Survey
Publication_Date: 1980
Title: 1:2000,000 scale Digital Line Graphs
Geospatial_Data_Presentation_Form: Digital
Publication_Information:
Publication_Date: Reston, Virginia
Publisher: U.S. Geological Survey
Source_Scale_Denominator: 2000000
Type_of_Source_Media: Internet
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time: Calendar_Date: 1980
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: DLG
Source_Contribution: spatial and attribute information

Process_Step:
Process_Description:
The source data was retrieved from the USGS World Wide Web Site:

The data was line delimited in UNIX and then imported into ArcInfo. The highways in the vicinity of the Sulphur River basin were then clipped and projected into an Albers Equal Area
Projection. Highway names were then added as attributes in the Arc Attribute table for the highway coverage.

Source_Used_Citation_Abbreviation:
DLG
Process_Date: Jan 1995

3. Spatial_Data_Organization_Information

Indirect_Spatial_Reference:
For original linear features:

Direct_Spatial_Reference_Method: Arc/Info Vector

4. Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:
Planar:
Map_Projection:
Map_Projection_Name: Albers Conical Equal Area
Albers_Conical_Equal_Area:
Standard_Parallel:
1st standard parallel 29.5N
2nd standard parallel 45.5N
Longitude_of_Central_Meridian: 96.0W
Latitude_of_Projection_Origin: 23.0N
False_Easting: 0.0
False_Northing: 0.0
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 50.80
Ordinate_Resolution: 50.80
Planar_Distance_Units: meters
Geodetic_Model:
Horizontal_Datum_Name: North American Datum 1927
Ellipsoid_Name: Clark 1866
Semi-major_Axis: 6378206.4
Denominator_of_Flattening_Ratio: 294.98

5. Entity_and_Attribute_Information:

Overview_Description:
Entity_and_Attribute_Overview:
No attributes from the original DLG data were employed. The DLG attributes did not include highway name. Since highway name is intended to be the main means by which highways are identified, it was necessary to manually edit the arc attribute tables to include the Texas DOT designation.

Entity_and_Attribute_Detail_Citation:
1995.
6. Distribution Information:

Distributor:
Contact Information:
  Contact_Organization_Primary: Dr. David Maidment
  Contact_Organization: University of Texas
Contact_Address:
  Address_Type: Mailing
  Address: University of Texas at Austin
  City: Austin
  State_or_Province: Texas
  Postal_Code:
Contact_Voice_Telephone: 512-471-0129
Hours_of_Service: Pot luck!
Contact_Instructions:

Resource_Description: Sulphur River Basin State Highways

Distribution Liability:
This data is prototypical only. No warranty expressed or implied is made by the author regarding the utility of the data, nor shall the act of distribution constitute any such warranty.

Standard Order Process:
Digital Form:
Digital Transfer Information:
  Format_Name: ArcInfo
  Format_Version_Date: 7.02
  Format_Specification: Vector
Digital Transfer Option:
  Online Option:
    Computer Contact Information:
      Network Address:
        Network_Resource_Name: txrds

Offline Option:
Offline Media:
Recording_Format:
Offline Option:
Offline Media:
Recording_Capacity:
  Recording_Density:
    Recording_Density_Units:
Recording_Format:
  ASCII
Fees:

7. Metadata Reference Information:

Metadata Date: April 1995
Metadata Contact:
  Contact Information: Peter N. Smith c/o Dr. David Maidment
  Contact_Organization_Primary: CRWR @University of Texas
Contact_Organization: University of Texas
Contact_Address:
  Address_Type: mailing address
  Address: University of Texas at Austin
  City: Austin
  State_orProvince: Texas
  Postal_Code:
  Contact_Voice_Telephone: 512-471-0065 (tee hee)
Metadata_Standard_Name: Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: 19940608