

Gauging Station



Tags

Hydrologic, Water, Real-Time, Streamflow, Stage, Inland Waters

FGDC Metadata (read-only)

Identification

CITATION

CITATION INFORMATION

ORIGINATOR U.S. Geological Survey

PUBLICATION DATE 2001

TITLE

Realtime USGS Streamflow Stations

EDITION 1.0

GEOSPATIAL DATA PRESENTATION FORM map

PUBLICATION INFORMATION

PUBLICATION PLACE Reston, Virginia, USA

PUBLISHER U.S. Geological Survey

ONLINE LINKAGE <<http://water.usgs.gov/lookup/getspatial?realstx>>

DESCRIPTION

ABSTRACT

Approximately 5,000 of the 6,900 U.S. Geological Survey sampling stations are equipped with telemetry to transmit data on streamflow, temperature, and other parameters back to a data base for real-time viewing via the World Wide Web. A map of the realtime stations is produced every day.

PURPOSE

The primary purpose of this coverage is to produce an imagemap for use on the World Wide Web.

SUPPLEMENTAL INFORMATION

None.

TIME PERIOD OF CONTENT

TIME PERIOD INFORMATION

SINGLE DATE/TIME

CURRENTNESS REFERENCE

Every Day

STATUS

PROGRESS Complete

MAINTENANCE AND UPDATE FREQUENCY Every Day

SPATIAL DOMAIN

BOUNDING COORDINATES

WEST BOUNDING COORDINATE -164.168
EAST BOUNDING COORDINATE -64.780
NORTH BOUNDING COORDINATE 70.281
SOUTH BOUNDING COORDINATE 17.731

KEYWORDS

THEME

THEME KEYWORD THESAURUS None
THEME KEYWORD hydrologic
THEME KEYWORD water
THEME KEYWORD real-time
THEME KEYWORD streamflow
THEME KEYWORD stage
THEME KEYWORD inlandWaters

ACCESS CONSTRAINTS

None

USE CONSTRAINTS

None

POINT OF CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION U.S. Geological Survey
CONTACT PERSON Water Webserver Team

CONTACT ADDRESS

ADDRESS TYPE mailing address
ADDRESS 12201 Sunrise Valley Drive, MS 439
CITY Reston
STATE OR PROVINCE VA
POSTAL CODE 20192
COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 1-888-275-8747

CONTACT ELECTRONIC MAIL ADDRESS h2oteam@usgs.gov <<mailto:h2oteam@usgs.gov>>

NATIVE DATA SET ENVIRONMENT

SunOS, 5.6, sun4u UNIX, ARC/INFO version 8.0.2

Data Quality

LOGICAL CONSISTENCY REPORT

All locations are points.

COMPLETENESS REPORT

This coverage includes only those stations with data actually being served on the WWW at the time of compilation. Some stations -- and sometimes whole states -- may be excluded because of temporary webserver or network problems. In addition, a station with data may not be shown on the map if its name and location are not yet in the master list.

POSITIONAL ACCURACY

HORIZONTAL POSITIONAL ACCURACY

HORIZONTAL POSITIONAL ACCURACY REPORT

Latitudes and Longitude are specified to the nearest second. The position is determined from 1:24,000-scale maps, where available, but other lower scale (i.e. less resolution) maps may be used also.

LINEAGE

PROCESS STEP

PROCESS DESCRIPTION

Each USGS District Office serves the realtime data of the stations it services. A list of these pages may be seen at <http://water.usgs.gov/realtime.html> Every District realtime page (some have several pages) contains a list of the stations for which realtime data are available and a link to the data for each station.

Every day, an automatic process retrieves the realtime pages from each District and parses them to find the stations served and the URL for each station's data. The station numbers on this list are matched against a master list of USGS stations to find the station name and the latitude/longitude of each realtime station. This information is used to prepare an updated point coverage.

CLASS values for the flow are:

- > le 0 Not valid (internal use)
- > 1 New minimum
- > 2 ge old minimum and le 5th percentile
- > 3 gt 5th percentile and le 10th percentile
- > 4 gt 10th percentile and le 25th percentile
- > 5 gt 25th percentile and le 75th percentile
- > 6 gt 75th percentile and le 90th percentile
- > 7 gt 90th percentile and le old maximum
- > 8 New maximum

PROCESS DATE /Every Day

SOURCE USED CITATION ABBREVIATION

PROCESS DATE 2013-02-07

PROCESS TIME 13450000

Spatial Data Organization

DIRECT SPATIAL REFERENCE METHOD Point

POINT AND VECTOR OBJECT INFORMATION

SDTS TERMS DESCRIPTION

SDTS POINT AND VECTOR OBJECT TYPE Point

POINT AND VECTOR OBJECT COUNT 6522

Spatial Reference

HORIZONTAL COORDINATE SYSTEM DEFINITION

GEOGRAPHIC

LATITUDE RESOLUTION 0.002

LONGITUDE RESOLUTION 0.002

GEOGRAPHIC COORDINATE UNITS Decimal degrees

GEODETIC MODEL

HORIZONTAL DATUM NAME North American Datum of 1983

ELLIPSOID NAME GRS1980

SEMI-MAJOR AXIS 6,378,137

DENOMINATOR OF FLATTENING RATIO 298.257

Entities and Attributes

OVERVIEW DESCRIPTION

ENTITY AND ATTRIBUTE OVERVIEW

Each USGS station contains a unique identification number up to 18-digits long. The URL represents the most recent known location for accessing the real-time data for the station.

```
> REALSTX.PAT:
> COLUMN      ITEM NAME          WIDTH OUTPUT  TYPE N.DEC  ALTERNATE NAME
>      1  AREA                  4      12      F      3
>      5  PERIMETER              4      12      F      3
>      9  REALSTX#                4       5      B      -
>     13  REALSTX-ID              4       5      B      -
>     17  STAID                  15     15      C      -
>     32  STANAME                 50     50      C      -
>     82  ST                      2       2      C      -
>     84  HUC                    8       8      C      -
>     92  CLASS                   4       5      B      -
>     96  FLOW                    4     12      F      2
>    100  TIME                    35     35      C      -
>    135  LATDD                   4      10      F      6
>    139  LONDD                   4      11      F      6
>    143  URL                     150    150      C      -
>    293  WORKA                   4       5      B      -
>    297  DATUMOLD                10     10      C      -
>    307  LONDDNEW                4      10      F      4
>    311  LATDDNEW                4      10      F      4
>    315  DATUMNEW               10     10      C      -
```

ENTITY AND ATTRIBUTE DETAIL CITATION

none

Distribution Information

DISTRIBUTOR

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION U.S. Geological Survey

CONTACT POSITION Ask USGS - Water Webserver Team

CONTACT ADDRESS

ADDRESS TYPE mailing

ADDRESS 445 National Center

CITY Reston

STATE OR PROVINCE VA

POSTAL CODE 20192

CONTACT VOICE TELEPHONE 1-888-275-8747 (1-888-ASK-USGS)

CONTACT ELECTRONIC MAIL ADDRESS

<http://answers.usgs.gov/cgi-bin/gsanswers?pemail=h2oteam&subject=GIS+Dataset+realstx>

DISTRIBUTION LIABILITY

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How To Get the Data

Standard_Order_Process describes the file formats that are available for downloading. One or more data downloads may be available.

For best results download files by right-click/save to disk in your browser. (See guidance on file formats.) <<http://water.usgs.gov/GIS/metadata/usgswrd/guide.html>>

Save this file to a disk.

STANDARD ORDER PROCESS

DIGITAL FORM

DIGITAL TRANSFER INFORMATION

FORMAT NAME Export

FORMAT INFORMATION CONTENT

Full coverage

FILE DECOMPRESSION TECHNIQUE zipped

TRANSFER SIZE 326

DIGITAL TRANSFER OPTION

ONLINE OPTION

COMPUTER CONTACT INFORMATION

NETWORK ADDRESS

NETWORK RESOURCE NAME

<<http://water.usgs.gov/waterwatch/realstx/realstx.e00.gz>>

DIGITAL FORM

DIGITAL TRANSFER INFORMATION

FORMAT NAME Shape

FORMAT INFORMATION CONTENT

Full coverage

FILE DECOMPRESSION TECHNIQUE zipped

TRANSFER SIZE 56 kb

DIGITAL TRANSFER OPTION

ONLINE OPTION

COMPUTER CONTACT INFORMATION

NETWORK ADDRESS

NETWORK RESOURCE NAME

<http://water.usgs.gov/waterwatch/realstx/realstx_shp.tgz>

DIGITAL FORM

DIGITAL TRANSFER INFORMATION

FORMAT NAME Shape

FORMAT INFORMATION CONTENT

Full coverage

FILE DECOMPRESSION TECHNIQUE zipped

TRANSFER SIZE 270 kb

DIGITAL TRANSFER OPTION

ONLINE OPTION

COMPUTER CONTACT INFORMATION

NETWORK ADDRESS

NETWORK RESOURCE NAME

<http://water.usgs.gov/waterwatch/realstx/realstx_shp.tar.gz>

Metadata Reference

METADATA DATE 2006-01-25

METADATA CONTACT

CONTACT INFORMATION

CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION U.S. Geological Survey

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ADDRESS TYPE mailing

ADDRESS 445 National Center

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CONTACT ELECTRONIC MAIL ADDRESS <<http://answers.USQS.QOVjcgi-bin/gsanswers?pemail=h2oteam&subject=GIS+Dataset+realstx>>

METADATA STANDARD NAME FGDC Content Standards for Digital Geospatial Metadata

METADATA STANDARD VERSION FGDC-STD-001-1998