

Metadata format: ISO 19139**Express Bus Stops, New York NY, August 2017****ISO 19139 metadata content**

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Resource Identification Information

CITATION

TITLE Express Bus Stops, New York NY, August 2017

PUBLICATION DATE 2017-09-21

EDITION aug2017

PRESENTATION FORMAT mapDigital

SERIES

NAME NYC Mass Transit Spatial Layers

RESPONSIBLE PARTY - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION

ADDRESS

DELIVERY POINT 151 E 25th St Box H-0520

DELIVERY POINT Newman Library, Baruch CUNY

CITY New York

ADMINISTRATIVE AREA NY

POSTAL CODE 10010

COUNTRY UNITED STATES

THEMES OR CATEGORIES OF THE RESOURCE structure, transportation

PLACE KEYWORDS

KEYWORDS City of New York, 2395220, Borough of Bronx, 978756, Borough of Brooklyn, 978759, Borough of Manhattan, 979190, Borough of Queens, 979404, Borough of Staten Island, 979522

THESAURUS

TITLE Geographic Names Information Service (GNIS)

ALTERNATE TITLES ANSI INCITTS 446:2008

PUBLICATION DATE 2008-01-01

PLACE KEYWORDS

KEYWORDS Bronx County, 36005, Kings County, 36047, New York County, 36061, Queens County, 36081, Richmond County, 36085

THESAURUS

TITLE US Census ANSI/FIPS

ALTERNATE TITLES ANSI INCITTS 38:2009 (Formerly FIPS 5-2) & ANSI INCITTS 31:2009 (Formerly FIPS 6-4)

PUBLICATION DATE 2009-01-01

TEMPORAL KEYWORDS

KEYWORDS 2017

THEME KEYWORDS

KEYWORDS Buses, Bus stops, Local transit, Commuting, New York City Transit Authority, Transportation

THESAURUS

TITLE Library of Congress Subject Headings (LCSH)

PUBLICATION DATE 2015-02-17

DESCRIPTIVE KEYWORDS

KEYWORDS Downloadable Data

THESAURUS ArcIMS Metadata Service Content Types

ABSTRACT

This point layer was created from the GTFS data feeds from the Metropolitan Transportation Authority (MTA). It represents the express bus stop locations (individual locations where one or more buses make stops) for the MTA NYC Transit bus routes. Express busses are long-distance coaches that take passengers from areas of the outer boroughs to midtown and downtown Manhattan and back, with limited stops. A python script was written to take the data files as input and process them to create a spatial layer in the local state plane coordinate reference system. The unique ID is stop_id, a field created by the MTA. This layer was created as part of the NYC Mass Transit Spatial Layers series, and is updated biannually to account for changes in the transit system.

PURPOSE

This dataset is intended for researchers, policy makers, students, and educators for basic geographic analysis and mapping purposes. It was created by the GIS Lab at the Newman Library at Baruch College CUNY as part of the NYC Mass Transit Spatial Layers series, so that members of the public could have access to well-documented and readily-usable GIS layers of NYC mass transit features.

DATASET LANGUAGE English

DATASET CHARACTER SET utf8

STATUS completed

MAINTENANCE

UPDATE FREQUENCY biannually

RESOURCE CONSTRAINTS

CONSTRAINTS

LIMITATIONS OF USE

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RESOURCE CONSTRAINTS

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS licenseUnrestricted

USE CONSTRAINTS license

SPATIAL REPRESENTATION TYPE vector

PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.1.4959

EXTENT

EXTENT DESCRIPTION

City of New York

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT CONTAINS THE RESOURCE true

WEST LONGITUDE -74.040963

EAST LONGITUDE -73.779182

NORTH LATITUDE 40.762565

SOUTH LATITUDE 40.572425

TEMPORAL EXTENT

BEGINNING DATE 2017-08-17 00:00:00

ENDING DATE

INDETERMINATE TIME unknown

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT CONTAINS THE RESOURCE true

WEST LONGITUDE -74.253632

EAST LONGITUDE -73.700507

NORTH LATITUDE 40.933682

SOUTH LATITUDE 40.502871

SUPPLEMENTAL INFORMATION

The GEOID field contains the ANSI / FIPS state-county code that indicates the location of the feature.

POINT OF CONTACT - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION

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CITY New York
 ADMINISTRATIVE AREA NY
 POSTAL CODE 10010
 COUNTRY UNITED STATES

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Spatial Representation - Vector

LEVEL OF TOPOLOGY FOR THIS DATASET geometryOnly
 GEOMETRIC OBJECTS
 OBJECT TYPE point
 OBJECT COUNT 2148

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Reference System Information

REFERENCE SYSTEM IDENTIFIER
 VALUE 2263

 CODESPACE EPSG
 VERSION 10.3

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Data Quality Information

SCOPE OF QUALITY INFORMATION
 RESOURCE LEVEL dataset

LINEAGE

LINEAGE STATEMENT

This point layer was created using the data feeds from the Metropolitan Transportation Authority (MTA). The MTA provides text files that contain route information in a General Transit Feed Specification (GTFS) format, and are geographically referenced so they are able to be plotted. A python script was written to take the text files for each borough as input, process them and create a spatial layer. The text files used for point geometry creation are 'stops.txt' and they provide geographically referenced data for the stops in the form of points. Information from additional files, stop_times.txt and trips.txt was joined to the created geometry based on common field to obtain an id of the routes that stop at the bus station. The route id was used to separate local bus routes stops from stops for express bus routes. Stops that are shared by both local and express busses were duplicated so that they appear in both files. Counties from the Census TIGER files were spatially joined to the bus stops, so that every bus stop is assigned the state-county ANSI FIPS code (GEOID) to indicate its location. Stops for each borough were joined into a single New York City stops layer. The final layer was reprojected from NAD 83 to NY State Plane Long Island in feet and saved in a shapefile format. The unique ID is stop_id, a field created by the MTA. This layer was created as part of the NYC Mass Transit Spatial Layers series, and is updated biannually to account for changes in the transit system.

SOURCE DATA

LEVEL OF THE SOURCE DATA Metropolitan Transportation Authority

SOURCE CITATION
TITLE MTA NYC Transit Stops File

PUBLICATION DATE 2017-08-17

SOURCE DATA
LEVEL OF THE SOURCE DATA US Census 2014 TIGER Line Shapefiles

SOURCE CITATION
TITLE US Census 2014 TIGER Line Shapefiles

PUBLICATION DATE 2014-08-19

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Distribution Information

DISTRIBUTOR
DISTRIBUTOR INFORMATION - POINTOFCONTACT
ORGANIZATION'S NAME Newman Library, Baruch CUNY
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CITY New York
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COUNTRY UNITED STATES

FORMAT
NAME Shapefile
VERSION
NIL REASON missing

TRANSFER OPTIONS
TRANSFER SIZE 0.126

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Metadata Information

LAST UPDATE 2017-10-05
MAINTENANCE
UPDATE FREQUENCY biannually

MAINTENANCE NOTES This metadata record was updated by Janine Billadello in August 2017.

METADATA CONSTRAINTS
CONSTRAINTS
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SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

METADATA LANGUAGE English

METADATA CHARACTER SET utf8

NAME OF THE METADATA STANDARD USED NAP - Metadata

VERSION OF THE METADATA STANDARD 1.2

METADATA IDENTIFIER 2D063420-515F-489E-A232-0DD9FA06EC4C

URI OF THE DATA DESCRIBED BY THE METADATA

<https://www.baruch.cuny.edu/confluence/display/geoportal/NYC+Mass+Transit+Spatial+Layers>

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