

## Subway Stops, New York NY, Nov 2018

### ISO 19139 metadata content

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### Resource Identification Information

#### CITATION

TITLE Subway Stops, New York NY, Nov 2018

PUBLICATION DATE 2018-11-30

EDITION nov2018

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 2018

THEME KEYWORDS

KEYWORDS Subways, 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 using the GTFS data feeds from the Metropolitan Transportation Authority (MTA). It represents the stop locations for the MTA NYC Transit Subway, where a stop represents the center of platforms dedicated to serving specific trains in a subway station. A python script was written to take the data files as input, process them and save them as 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 Version 6.2 (Build 9200) ; Esri ArcGIS 10.4.1.5686

EXTENT

EXTENT DESCRIPTION

City of New York

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT CONTAINS THE RESOURCE true

WEST LONGITUDE -74.25344

EAST LONGITUDE -73.754305

NORTH LATITUDE 40.903222

SOUTH LATITUDE 40.512764

TEMPORAL EXTENT

BEGINNING DATE 2018-10-03 00:00:00

ENDING DATE

INDETERMINATE TIME unknown

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT CONTAINS THE RESOURCE true

WEST LONGITUDE -74.25344

EAST LONGITUDE -73.754305

NORTH LATITUDE 40.903222

SOUTH LATITUDE 40.512764

SUPPLEMENTAL INFORMATION

The GEOID field contains the ANSI / FIPS state-county code that indicates the location of the feature. The trains field lists the trains that stop at that location during normal weekday rush hour service.

POINT OF CONTACT - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION

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DELIVERY POINT Newman Library, Baruch CUNY

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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 493

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## Reference System Information

REFERENCE SYSTEM IDENTIFIER  
VALUE 2263  
  
CODESPACE EPSG  
VERSION 10.2

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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 that are geographically referenced so they are able to be plotted. A python script was written to take the text files as input, process them and save them as a spatial layer. The text file used for point geometry creation is 'stops.txt' and it provides geographically referenced data for the stops in the form of points. Stop locations were duplicated twice in the GTFS file for the purpose of building time tables for routes in both directions; the script stripped out the duplicates so that only one location remained that represents the stop centroid. In some instances two stops for different routes occupied the same location, at the same platform. These duplicated stops were removed, and their id was added to a route\_id2 column for the stop that they shared the location with. A field called trains was added to indicate which trains make that stop during weekday rush hour services. The Aqueduct Racetrack station on the A line was in the wrong location and had incorrect coordinates in the original data file, so it was moved and the coordinates were corrected. Two stations in Staten Island, Atlantic and Nassau, were deleted as they were demolished and replaced by the Arthur Kill station. The South Ferry Loop station in Manhattan and the Broad Channel test track were also removed as they are not public, revenue generating stations. Counties from the Census TIGER files were spatially joined to the transit features, so that every transit feature was assigned the state-county ANSI FIPS code (GEOID) to indicate its location. 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 2018-10-03

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

CONTACT'S POSITION Geospatial Data Librarian

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FORMAT

NAME Shapefile

VERSION

NIL REASON missing

TRANSFER OPTIONS

TRANSFER SIZE 0.013

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## Metadata Information

LAST UPDATE 2018-11-30

MAINTENANCE

UPDATE FREQUENCY biannually

MAINTENANCE NOTES This metadata record was updated by Frank Donnelly in November 2018.

METADATA CONSTRAINTS

CONSTRAINTS

LIMITATIONS OF USE

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METADATA CONSTRAINTS

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS licenseUnrestricted

USE CONSTRAINTS license

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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 4A3664B9-8F25-4A8C-8BEC-04860124323C

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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