

Metadata format: ISO 19139**Metro-North Routes, New York NY, May 2016****ISO 19139 metadata content**

- [Resource Identification Information](#)
- [Spatial Representation Information](#)
- [Reference System Information](#)
- [Data Quality Information](#)
- [Distribution Information](#)
- [Metadata Information](#)

Resource Identification Information

CITATION

TITLE Metro-North Routes, New York NY, May 2016

PUBLICATION DATE 2016-05-19

EDITION may2016

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 Newman Library, Baruch CUNY

DELIVERY POINT 151 E 25th St Box H-0520

CITY New York

ADMINISTRATIVE AREA NY

POSTAL CODE 10010

COUNTRY UNITED STATES

THEMES OR CATEGORIES OF THE RESOURCE transportation, structure

PLACE KEYWORDS

KEYWORDS City of New York, 2395220, Borough of Bronx, 978756, Borough of Manhattan, 979190

THESAURUS

TITLE Geographic Names Information Service (GNIS)

ALTERNATE TITLES ANSI INCITTS 446:2008

PUBLICATION DATE 2008-01-01

PLACE KEYWORDS

KEYWORDS New York County, 36061, Bronx County, 36005, Westchester County, 36119, Putnam County, 36079, Dutchess County, 36027, Fairfield County, 09001, New Haven County 09009

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 2016

THEME KEYWORDS

KEYWORDS Railroad, Local transit, Commuting, New York City Transit Authority, Transportation, Metro-North Railroad

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 line layer was created from the GTFS data feeds from the Metropolitan Transportation Authority (MTA) to represent the MTA Metro North railroad routes that are east of the Hudson River. A python script was written to take the data files as input and plot and save them as a spatial layer in the local state plane coordinate reference system. Lines in this layer represent individual train routes; they were generalized from the GTFS format where lines depicted individual train services. Unlike other transit routes in this series, the Metro North routes do not represent physical track locations, but are simply straight lines drawn in-between stations. Given the high level of generalization with this file, it is only appropriate for schematic use for small scale (i.e. large area) maps. For example, it is appropriate at a metropolitan-area level but not at county level, where imperfections in the line work would be apparent. The unique ID is route_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

Disclaimer: Every effort was made to insure that the data, which was compiled from public sources, was processed accurately. The creator, Baruch College, and CUNY disclaim any liability for errors, inaccuracies, or omissions that may be contained therein or for any damages that may arise from the foregoing. Users should

independently verify the accuracy of the data for their purposes. The data is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International license CC BY-NC-ND <http://creativecommons.org/licenses/by-nc-nd/4.0/> You are free to share the work as long as you cite the source, do not use it for commercial purposes, and do not distribute derivatives of the data. Although this data is being distributed by Baruch College CUNY, no warranty expressed or implied is made by the College or University as to the accuracy of the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the College or University in the use of this data, or related materials. This data was derived from Metropolitan Transportation Authority (MTA) sources; it is NOT directly created, maintained, or endorsed by the MTA. The MTA should not be approached with inquiries about this dataset as they are in no way responsible for it. Since this data is a derivative of MTA data sources, it is subject to the terms and conditions presented here: <http://web.mta.info/developers/developer-data-terms.html#data>.

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 10.2.0.3348

EXTENT

EXTENT DESCRIPTION

City of New York

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT CONTAINS THE RESOURCE true

WEST LONGITUDE -73.984702

EAST LONGITUDE -72.91343

NORTH LATITUDE 41.815539

SOUTH LATITUDE 40.748037

TEMPORAL EXTENT

BEGINNING DATE 2016-03-16 00:00:00

ENDING DATE

INDETERMINATE TIME unknown

POINT OF CONTACT - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION

ADDRESS

DELIVERY POINT Newman Library, Baruch CUNY

DELIVERY POINT 151 E 25th St Box H-0520

CITY New York

ADMINISTRATIVE AREA NY

POSTAL CODE 10010

COUNTRY UNITED STATES

[Back to Top](#)

Spatial Representation - Vector

LEVEL OF TOPOLOGY FOR THIS DATASET geometryOnly
 GEOMETRIC OBJECTS
 OBJECT TYPE composite
 OBJECT COUNT 6

[Back to Top](#)

Reference System Information

REFERENCE SYSTEM IDENTIFIER
 VALUE 2263

CODESPACE EPSG
 VERSION 10.2

[Back to Top](#)

Data Quality Information

SCOPE OF QUALITY INFORMATION
 RESOURCE LEVEL dataset

LINEAGE

LINEAGE STATEMENT

This line 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. Python scripts were written to take the text files as input and plot and save them as a spatial layer. The text file used for plotting is 'shapes.txt' and provides geographically referenced data for the routes in the form of points. The first script plots these points and creates a layer file, which is then converted to a polyline layer and saved as a shapefile. The second script joins the new line shapefile with two text files, 'trips.txt' and 'routes.txt', which contain additional relevant information provided by the MTA.

After the routes were plotted from their native GTFS format, the lines represented individual train services for different times and days of the week. Additional processing was done to simplify these lines; the dissolve tool was used to create lines that represented an individual train route over its entire travel distance. Lines that represented shuttle bus and ferry routes and the Shore Line East railroad in Connecticut were removed. Attribute columns that were blank, redundant, or that represented information that was only relevant to specific services and not to individual routes were deleted. Because the 'shapes.txt' file for the Metro North routes lacked a sufficient number of points needed to build accurate lines, the resulting routes are highly generalized and are only appropriate for schematic use at a scale that's above the county level. Some manual editing was performed to correct false lines (lines drawn directly between two stations for an express service that did not represent actual track locations), but the final result is still highly generalized. Using the snap tool, overlapping or express lines were snapped to the lines drawn between stations in the Bronx and Southern Connecticut. The final layer was reprojected from NAD 83 to NY State Plane Long Island in feet. The unique ID is route_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 Shapes, Trips and Routes Files

PUBLICATION DATE 2016-03-16

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

[Back to Top](#)

Distribution Information

DISTRIBUTOR

DISTRIBUTOR INFORMATION - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION

ADDRESS

DELIVERY POINT Newman Library, Baruch CUNY

DELIVERY POINT 151 E 25th St Box H-0520

CITY New York

ADMINISTRATIVE AREA NY

POSTAL CODE 10010

COUNTRY UNITED STATES

FORMAT

NAME Shapefile

VERSION

NIL REASON missing

TRANSFER OPTIONS

TRANSFER SIZE 0.003

[Back to Top](#)

Metadata Information

LAST UPDATE 2016-05-26

MAINTENANCE

UPDATE FREQUENCY biannually

MAINTENANCE NOTES This metadata record was updated by Janine Billadello in May 2016.

METADATA CONSTRAINTS

CONSTRAINTS

LIMITATIONS OF USE

Metadata for this layer is licensed under a Creative Commons Attribution-

NonCommercial license CC BY-NC <http://creativecommons.org/licenses/by-nc/4.0/>.
You are free to share and to adapt the metadata as long as you cite the source and do not use it for commercial purposes.

METADATA CONSTRAINTS

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS licenseUnrestricted

USE CONSTRAINTS license

METADATA CONTACT - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION

ADDRESS

DELIVERY POINT Newman Library, Baruch CUNY

DELIVERY POINT 151 E 25th St Box H-0520

CITY New York

ADMINISTRATIVE AREA NY

POSTAL CODE 10010

COUNTRY UNITED STATES

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 B3E47232-A441-4CE5-8756-14753764176C

URI OF THE DATA DESCRIBED BY THE METADATA

<https://www.baruch.cuny.edu/confluence/display/geoportal/NYC+Mass+Transit+Spatial+Layers>[Back to Top](#)