

Metadata format: ISO 19139

Metro-North Routes, New York NY, May 2019

ISO 19139 metadata content

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Resource Identification Information

CITATION

TITLE Metro-North Routes, New York NY, May 2019

PUBLICATION DATE 2019-05-31

EDITION may2019

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 structure, transportation

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 2019

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, process them and save them 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. For the first time in this series, the lines in this file correspond with actual train tracks, as opposed to the generalizations in previous files (straight-lines drawn between stations). 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

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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

New York Metropolitan Area

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 2019-05-21 00:00:00

ENDING DATE

INDETERMINATE TIME unknown

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT CONTAINS THE RESOURCE true

WEST LONGITUDE -73.985785

EAST LONGITUDE -72.913515

NORTH LATITUDE 41.815457

SOUTH LATITUDE 40.74819

POINT OF CONTACT - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY

CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION

ADDRESS

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POSTAL CODE 10010

COUNTRY UNITED STATES

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Spatial Representation - Vector

LEVEL OF TOPOLOGY FOR THIS DATASET geometryOnly
GEOMETRIC OBJECTS
OBJECT TYPE composite
OBJECT COUNT 7

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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 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, process them and create a spatial layer. The text files used for geometry creation is 'shapes.txt' and it provides geographically referenced data for the routes in the form of points. The script creates geometry object out of the individual points provided for the route, and then creates a line geometry object out of the points grouped by the common id of the segment that they belong to. Then it joins created geometry object with data from text files, 'trips.txt' and 'routes.txt', which contain additional relevant information provided by the MTA. Based on common attribute, individual rail services for different times and days of the week are dissolved to create lines that represented an individual route. 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. Beginning with the May 2019 series, the shapes.txt file had a sufficient number of points to build lines that represent the actual routes along tracks, as opposed to the simple generalizations found in previous files (which were simple straight lines drawn between stations). Some manual processing was necessary to build and select these accurate lines from shapes.txt, as the file contained both these lines and the older, generalized ones. 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 2019-05-21

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Distribution Information

DISTRIBUTOR

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ORGANIZATION'S NAME Newman Library, Baruch CUNY

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POSTAL CODE 10010

COUNTRY UNITED STATES

FORMAT

NAME Shapefile

VERSION

NIL REASON missing

TRANSFER OPTIONS

TRANSFER SIZE 0.003

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Metadata Information

LAST UPDATE 2019-05-29

MAINTENANCE

UPDATE FREQUENCY biannually

MAINTENANCE NOTES This metadata record was updated by Frank Donnelly in May 2019.

METADATA CONSTRAINTS

CONSTRAINTS

LIMITATIONS OF USE

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METADATA CONSTRAINTS

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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 D1AE165E-D58A-4E34-8613-610EAD4DCA1F
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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