

## Current Reference Station Coordinates (As of Dec 27th 2019) NAD83(2011) EPOCH 2010 MYCS2

As a result of the multi-year CORS solution 2 (MYCS2), the following stations and NAD83 (2011) EPOCH 2010.0 (MYCS2) positions will be used in NYSNet, beginning December 27, 2019 at noon. RINEX and RTCM Data should reflect these positions.

Positions for the sites below with the Source labeled 'NGS' are based on NGS published MYCS2 coordinates. Positions for the sites below with the Source labeled 'OPA' have not been published by NGS. OPA Positions were computed by processing monthly datasets of observations in an OPUS Projects network adjustment.

Users must take special note that CORS defined in NAD83(2011) use [absolute antenna calibrations](#). Absolute values should be used when processing data with CORS coordinates in NAD 83(2011) EPOCH 2010.0

GEOID18 could be used to estimate NAVD88 heights from these NAD83 ellipsoidal heights.

NGS IDs in **PINK** are capable of tracking GNSS (GPS, GLONASS, Galileo, Beidou), **GREEN** are GGG (GPS, GLONASS, Galileo) and **RED** are GPS and GLONASS only.

Site Name	NGS ID	RTCM ID	Latitude	Longitude	El. Height (m)	Antenna Type	Source
Albany	NYAB	49	42° 42' 48.87329" N	73° 48' 58.50156" W	90.072	LEIAR10 NONE	OPA
Batavia	NYBT	7	42° 59' 17.96047" N	78° 07' 20.37533" W	262.239	LEIAR10 NONE	NGS
Bennington	VTBE	69	42° 52' 57.02920" N	73° 11' 59.64831" W	183.883	ADVNULLANTENNA	NGS
Binghamton	NYBH	12	42° 06' 35.09742" N	75° 49' 38.70320" W	313.086	LEIAR10 NONE	NGS
Central Islip	NYCI	16	40° 45' 38.23688" N	73° 11' 51.78727" W	-13.860	LEIAR10 NONE	NGS
Cobleskill	NYCS	47	42° 40' 02.83632" N	74° 29' 10.94765" W	270.670	LEIAR 20 LEIM	NGS
Coopers Plains	NYCP	11	42° 11' 16.44500" N	77° 08' 36.32842" W	277.626	LEIAR10 NONE	NGS
Cortland	NYCL	31	42° 35' 03.70726" N	76° 12' 40.79269" W	330.887	LEIAR10 NONE	NGS
Danby	VTDA	52	43° 20' 59.81555" N	72° 59' 42.85117" W	193.972	ADVNULLANTENNA	NGS
Dansville	NYDV	33	42° 32' 56.09346" N	77° 41' 52.59565" W	188.590	LEIAR20 LEIM	NGS
Darien	CTDA	50	41° 03' 57.06981" N	73° 30' 25.94223" W	-13.270	ADVNULLANTENNA	NGS
Elizabethtown	NYET	28	44° 12' 34.85095" N	73° 32' 25.85252" W	174.254	LEIAR10 NONE	NGS
Fredonia NY	NYFD	17	42° 25' 41.78564" N	79° 20' 22.71934" W	212.501	LEIAR10 NONE	NGS
Friendship	NYFS	10	42° 12' 16.79293" N	78° 08' 37.93910" W	442.559	LEIAR10 NONE	NGS
Fultonville	NYFV	9	42° 56' 20.99831" N	74° 21' 12.01389" W	104.672	LEIAR10 NONE	NGS
Garden City	NYGC	60	40° 44' 04.76038" N	73° 36' 00.97478" W	4.798	LEIAR10 NONE	OPA
Guilford	CTGU	37	41° 17' 21.74225" N	72° 40' 04.44440" W	-18.119	ADVNULLANTENNA	NGS
Hailesboro	NYHL	45	44° 18' 31.54762" N	75° 26' 57.68946" W	117.577	LEIAT504GG LEIS	NGS
Hamburg	NYHB	8	42° 43' 02.66324" N	78° 50' 47.27367" W	212.509	LEIAR20 LEIM	NGS
Hancock	NYHC	30	41° 57' 29.98193" N	75° 17' 33.87633" W	260.713	LEIAR10 NONE	NGS
Herkimer	NYHM	24	43° 01' 06.29922" N	74° 59' 45.08384" W	95.288	LEIAR10 NONE	OPA
Hudson	NYHS	22	42° 15' 08.35975" N	73° 45' 27.16058" W	22.065	LEIAR10 NONE	NGS
Hudson Falls	NYHF	1	43° 19' 03.62774" N	73° 34' 07.36957" W	64.597	LEIAR20 LEIM	OPA
Indian Lake	NYIL	46	43° 46' 57.63836" N	74° 16' 39.86199" W	501.884	LEIAT504GG LEIS	NGS
Kingston NY	NYKT	71	41° 56' 12.97178" N	74° 01' 52.21841" W	30.355	LEIAR10 NONE	NGS
Lake Carmel	NYLC	20	41° 28' 51.87618" N	73° 39' 05.36901" W	202.058	LEIAR10 NONE	NGS
Lockport	NYLP	35	43° 09' 54.85467" N	78° 45' 13.35743" W	166.300	LEIAR20 LEIM	NGS
Lowville	NYLV	26	43° 47' 47.24339" N	75° 29' 07.55478" W	241.561	LEIAR10 NONE	NGS
Malone	NYML	27	44° 52' 15.38491" N	74° 17' 17.34335" W	195.226	LEIAR10 NONE	NGS
Mexico NY	NYMX	29	43° 28' 12.37914" N	76° 13' 54.88628" W	91.144	LEIAR10 NONE	NGS
Middlebury	VTMI	70	43° 59' 55.02532" N	73° 09' 09.38023" W	96.056	ADVNULLANTENNA	NGS
Middletown	NYMD	21	41° 24' 24.52222" N	74° 26' 34.07802" W	128.228	LEIAR10 NONE	NGS
Monticello	NYMO	42	41° 38' 45.60382" N	74° 39' 44.18109" W	400.172	LEIAR20 LEIM	OPA
Morristown	NJMT	77	40° 47' 47.35033" N	74° 28' 59.33925" W	101.126	LEIAR10 NONE	NGS
NJ12	NJ12	79	40° 44' 29.30554" N	74° 10' 39.72604" W	17.939	LEIAR10 NONE	NGS
Neptune Township	NJNT	73	40° 12' 33.62002" N	74° 02' 11.58981" W	-15.518	LEIAR10 NONE	NGS
Newburgh	NYNB	14	41° 29' 42.80590" N	74° 01' 31.97326" W	23.178	LEIAR10 NONE	NGS
North Syracuse	NYNS	5	43° 07' 07.74867" N	76° 08' 29.77295" W	98.592	LEIAR10 NONE	OPA
Oneonta	NYON	13	42° 26' 24.81507" N	75° 06' 42.50832" W	307.055	LEIAR10 NONE	NGS
Piscataway	NJTP	41	40° 32' 25.84185" N	74° 28' 04.13513" W	0.369	LEIAR 10 NONE	NGS
Pittsford	NYPF	32	43° 05' 35.48476" N	77° 31' 31.11257" W	113.478	LEIAR10 NONE	NGS
Plattsburg	NYPB	2	44° 40' 50.58257" N	73° 27' 14.30536" W	30.152	LEIAR10 NONE	NGS
Potsdam	NYPD	3	44° 39' 09.05929" N	75° 02' 30.50512" W	109.817	LEIAR10 NONE	NGS
Ray Brook	NYRB	40	44° 18' 13.92282" N	74° 04' 42.07527" W	466.851	LEIAR20 LEIM	NGS
Riverhead	NYRH	19	40° 55' 24.08885" N	72° 42' 50.56089" W	-7.951	LEIAR20 LEIM	NGS
Rome	NYRM	25	43° 10' 40.02871" N	75° 29' 13.88235" W	128.550	LEIAR10 NONE	NGS
Rutland	VTRU	38	43° 36' 25.63962" N	72° 58' 45.90379" W	161.447	ADVNULLANTENNA	NGS
Salamanca	NYSM	34	42° 11' 31.38162" N	78° 44' 50.46542" W	410.614	LEIAR10 NONE	NGS
Saratoga	NYST	23	43° 03' 41.73558" N	73° 48' 15.01017" W	69.625	LEIAR10 NONE	NGS
Sheffield	MASH	15	42° 08' 25.75402" N	73° 21' 51.06354" W	175.587	ADVNULLANTENNA	NGS
Sherburne	NYSB	36	42° 40' 45.03231" N	75° 30' 47.47782" W	297.094	LEIAR10 NONE	NGS
Valhalla	NYVH	0	41° 04' 56.22099" N	73° 49' 04.12573" W	63.297	LEIAR10 NONE	NGS
Warsaw	NYWS	39	42° 42' 03.12649" N	78° 07' 33.89526" W	314.436	LEIAR20 LEIM	OPA
Waterloo	NYWL	6	42° 53' 55.22725" N	76° 51' 07.30237" W	109.959	LEIAR10 NONE	NGS
Watertown	NYWT	4	44° 01' 41.65812" N	75° 55' 15.94881" W	118.253	LEIAR20 LEIM	NGS
Watkins Glen	NYWG	43	42° 21' 03.79603" N	76° 52' 33.30070" W	283.546	LEIAR10 NONE	NGS
Waverly	NYWV	44	42° 00' 44.60018" N	76° 31' 17.66891" W	222.167	LEIAR20 LEIM	NGS

See next page for recent changes.

## Recent Updates

Date	Changes	Station												
11/20/24	Added missing February entries. Removed NYBR from coordinate list.													
10/30/24	Latitude, Longitude and Ellipsoid were updated to match NGS. <table border="1"> <thead> <tr> <th>VTMI</th> <th>Current</th> <th>Superseded</th> </tr> </thead> <tbody> <tr> <td>Latitude</td> <td>43° 59' 55.02532" (N)</td> <td>43° 59' 55.02531" (N)</td> </tr> <tr> <td>Longitude</td> <td>73° 09' 09.38023" (W)</td> <td>73° 09' 09.38026" (W)</td> </tr> <tr> <td>Ellipsoid (m)</td> <td>96.056</td> <td>96.033</td> </tr> </tbody> </table>	VTMI	Current	Superseded	Latitude	43° 59' 55.02532" (N)	43° 59' 55.02531" (N)	Longitude	73° 09' 09.38023" (W)	73° 09' 09.38026" (W)	Ellipsoid (m)	96.056	96.033	VTMI (Middlebury)
VTMI	Current	Superseded												
Latitude	43° 59' 55.02532" (N)	43° 59' 55.02531" (N)												
Longitude	73° 09' 09.38023" (W)	73° 09' 09.38026" (W)												
Ellipsoid (m)	96.056	96.033												
10/18/24	Receiver upgraded at station – can now get GNSS	NYLV (Lowville)												
10/4/24	Receiver upgraded at station – can now get GNSS	NYHS (Hudson)												
10/1/24	Antenna and receiver upgraded at station – can now get GNSS <b>Station didn't go live until 10/4/24</b>	NYRH (Riverhead)												
2/9/24	Updated coordinates for better network corrections. Port was also changed to allow GNSS. <table border="1"> <thead> <tr> <th>NYMR</th> <th>Current</th> <th>Previous</th> </tr> </thead> <tbody> <tr> <td>Latitude</td> <td>43° 10' 39.09094" N</td> <td>43° 10' 39.09084" N</td> </tr> <tr> <td>Longitude</td> <td>77° 48' 11.84292" W</td> <td>77° 48' 11.84267" W</td> </tr> <tr> <td>Ellipsoid (m)</td> <td>151.500</td> <td>151.535</td> </tr> </tbody> </table>	NYMR	Current	Previous	Latitude	43° 10' 39.09094" N	43° 10' 39.09084" N	Longitude	77° 48' 11.84292" W	77° 48' 11.84267" W	Ellipsoid (m)	151.500	151.535	NYMR (Monroe)
NYMR	Current	Previous												
Latitude	43° 10' 39.09094" N	43° 10' 39.09084" N												
Longitude	77° 48' 11.84292" W	77° 48' 11.84267" W												
Ellipsoid (m)	151.500	151.535												
2/7/24	Added station to network.	NYMR (Monroe)												
2/5/24	Removed station from Current Coordinates as we no longer receive data from it.	NYBR (Brooklyn Pier)												
1/11/24	Receiver upgraded at station – can now get GNSS <b>Station didn't go live until 1/12/24</b>	NYCI (Central Islip)												
1/3/24	Latitude, Longitude and Ellipsoid were updated to match NGS <table border="1"> <thead> <tr> <th>NYCS</th> <th>Current</th> <th>Superseded</th> </tr> </thead> <tbody> <tr> <td>Latitude</td> <td>42° 40' 02.83632" N</td> <td>42° 40' 02.83647" (N)</td> </tr> <tr> <td>Longitude</td> <td>74° 29' 10.94765" W</td> <td>74° 29' 10.94789" (W)</td> </tr> <tr> <td>Ellipsoid (m)</td> <td>270.670</td> <td>270.675</td> </tr> </tbody> </table> <p><b>Any data collected prior to 12:15 pm on 1/3/24 should use previous coordinates.</b></p>	NYCS	Current	Superseded	Latitude	42° 40' 02.83632" N	42° 40' 02.83647" (N)	Longitude	74° 29' 10.94765" W	74° 29' 10.94789" (W)	Ellipsoid (m)	270.670	270.675	NYCS (Cobleskill)
NYCS	Current	Superseded												
Latitude	42° 40' 02.83632" N	42° 40' 02.83647" (N)												
Longitude	74° 29' 10.94765" W	74° 29' 10.94789" (W)												
Ellipsoid (m)	270.670	270.675												
<b>2023 Changes</b>														
11/03/23	Receiver changed – only tracking GPS and GLONASS (GG) now	NYPD (Potsdam)												
11/02/23	Receiver changed – only tracking GPS and GLONASS (GG) now	NYLV (Lowville)												
8/10/23	Receiver changed – only tracking GPS and GLONASS (GG) now	NYMX (Mexico)												
7/24/23	Antenna updated to match RTCM stream.  -These stations are broadcasting as ADVNULLANTENNA. Rovers should use a NULL antenna definition.	All Connecticut, Massachusetts, and Vermont stations.												
7/11/23	Latitude, Longitude and Ellipsoid were updated to match NGS <table border="1"> <thead> <tr> <th>NYLC</th> <th>Current</th> <th>Superseded</th> </tr> </thead> <tbody> <tr> <td>Latitude</td> <td>41° 28' 51.87618" (N)</td> <td>41° 28' 51.87633" (N)</td> </tr> <tr> <td>Longitude</td> <td>73° 39' 05.36901" (W)</td> <td>73° 39' 05.36904" (W)</td> </tr> <tr> <td>Ellipsoid (m)</td> <td>202.058 (m)</td> <td>202.082 (m)</td> </tr> </tbody> </table> <p><b>Any data collected prior to 7/11/23 should use previous coordinates</b></p>	NYLC	Current	Superseded	Latitude	41° 28' 51.87618" (N)	41° 28' 51.87633" (N)	Longitude	73° 39' 05.36901" (W)	73° 39' 05.36904" (W)	Ellipsoid (m)	202.058 (m)	202.082 (m)	NYLC (Lake Carmel)
NYLC	Current	Superseded												
Latitude	41° 28' 51.87618" (N)	41° 28' 51.87633" (N)												
Longitude	73° 39' 05.36901" (W)	73° 39' 05.36904" (W)												
Ellipsoid (m)	202.058 (m)	202.082 (m)												
6/29/23	Antenna changed due to upgrade at station – can now get GNSS	NYWT (Watertown) <b>Station didn't go live until 7/5/23</b>												
6/29/23	Antennas updated to match NGS	NTJP (Piscataway) updated to LEIAR 10 NONE NYCS (Cobleskill) updated to LEIAR 20 LEIM CTGU (Guilford) updated to TRM57971.00 NONE MASH (Sheffield) updated to LEIAR 20 LEIM												
6/8/23	Receiver changed – only tracking GPS and GLONASS (GG) now	NYET (Elizabeth Town)												
1/12/23	Updated table to display the units for Ellipsoid Height (meters)	All stations												
<b>2022 Changes</b>														

12/29/22	Latitude, Longitude and Ellipsoid were updated to match NGS	MASH (Sheffield) NJNT (Neptune Township) NJTP (Piscataway) NYBR (Brooklyn Pier) NYLP (Lockport) NYNB (Newburgh NYSB (Sherburne) NYWG (Watkins Glen) VTDA (Danby)  Email us at <a href="mailto:cors@dot.ny.gov">cors@dot.ny.gov</a> for previous coordinates
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