

laRTN Reference Station Information and Positions

Date: 04/08/2024

District	Site Information			Equipment		(Current) ¹ NAD83(2011) Epoch2010.00 Positions			(Superseded) ² NAD83(2011) Epoch2010.00 Positions		
	Name	Site ID	Responsible Agency	Receiver	Antenna	Latitude	Longitude	Ellipsoid Height	Latitude	Longitude	Ellipsoid Height
4	Adair	IAAD	laDOT	LEICA GR50	LEIAR10 NONE	41° 29' 46.76452" N	94° 38' 28.88731" W	426.3016	41° 29' 45.81192" N	94° 38' 29.38516" W	426.121 m
	Atlantic	IAAT	laDOT	LEICA GR50	LEIAR10 NONE	41° 24' 19.52338" N	94° 59' 16.80616" W	343.7048	41° 24' 19.52331" N	94° 59' 16.80581" W	343.728 m
	Avoca	IAAV	laDOT	LEICA GR50	LEIAR10 NONE	41° 29' 12.12467" N	95° 20' 14.52834" W	325.6427	41° 29' 12.12454" N	95° 20' 14.52798" W	325.667 m
	Council Bluffs	IACB	laDOT	LEICA GR50	LEIAR10 NONE	41° 13' 26.38449" N	95° 51' 11.59381" W	277.9091	41° 13' 26.38342" N	95° 51' 11.59327" W	277.921 m
	Clarinda	IACN	laDOT	LEICA GR50	LEIAR10 NONE	40° 44' 33.94329" N	95° 01' 20.26134" W	282.3196	40° 44' 33.94313" N	95° 01' 20.26100" W	282.354 m
	Corning ⁽¹⁰⁾	IACO	laDOT	LEICA GR50	LEIAR10 NONE	41° 00' 49.55668" N	94° 44' 15.67741" W	367.9977	41° 00' 49.55627" N	94° 44' 15.67723" W	368.014 m
	Creston	IACR	laDOT	LEICA GR50	LEIAR10 NONE	41° 03' 11.11810" N	94° 21' 05.29436" W	366.2791	41° 03' 11.11778" N	94° 21' 05.29411" W	366.311 m
	De Soto	IADS	laDOT	LEICA GR50	LEIAR10 NONE	41° 33' 06.29308" N	94° 00' 28.48128" W	247.4372	41° 33' 06.29274" N	94° 00' 28.48087" W	247.455 m
	Mount Ayr	IAMA	laDOT	LEICA GR50	LEIAR10 NONE	40° 42' 30.43633" N	94° 15' 06.39034" W	347.8196	40° 42' 30.43608" N	94° 15' 06.39023" W	347.849 m
	Missouri Valley	IAMV	laDOT	LEICA GR50	LEIAR10 NONE	41° 34' 15.68398" N	95° 51' 30.05912" W	291.0634	41° 34' 15.68388" N	95° 51' 30.05892" W	291.100 m
Red Oak	IARO	laDOT	LEICA GR50	LEIAR10 NONE	41° 01' 19.74888" N	95° 14' 00.58907" W	291.6371	41° 01' 19.74861" N	95° 14' 00.58873" W	291.667 m	
Sidney	IASD	laDOT	LEICA GR50	LEIAR10 NONE	40° 44' 58.49906" N	95° 38' 10.30793" W	303.0479	40° 44' 58.49903" N	95° 38' 10.30768" W	303.067 m	
5	Albia2 ⁽¹⁵⁾	IAAB	laDOT	LEICA GR50	LEIAR10 NONE	41° 00' 49.49698" N	92° 48' 45.13250" W	268.9020			
	Bloomfield	IABL	laDOT	LEICA GR50	LEIAR10 NONE	40° 44' 26.73806" N	92° 25' 51.03592" W	240.9890	40° 44' 26.73776" N	92° 25' 51.03584" W	241.012 m
	Centerville2 ⁽¹¹⁾	IAC1	laDOT	LEICA GR50	LEIAR10 NONE	40° 44' 22.62223" N	93° 00' 09.35603" W	279.8382	40° 44' 22.62207" N	93° 00' 09.35578" W	279.856 m
	Chariton	IACH	laDOT	LEICA GR50	LEIAR10 NONE	40° 58' 57.52664" N	93° 18' 25.39111" W	272.2547	40° 58' 57.52643" N	93° 18' 25.39091" W	272.276 m
	Donnellson	IADO	laDOT	LEICA GR50	LEIAR10 NONE	40° 38' 48.98313" N	91° 33' 57.38921" W	188.6645	40° 38' 48.98283" N	91° 33' 57.38920" W	188.694 m
	Fairfield2 ⁽¹²⁾	IAFA	laDOT	LEICA GR50	LEIAR10 NONE	40° 58' 53.52834" N	91° 57' 33.28288" W	208.8597	40° 58' 53.52794" N	91° 57' 33.28281" W	208.889 m
	Knoxville	IAKN	laDOT	LEICA GR50	LEIAR10 NONE	41° 17' 58.28849" N	93° 06' 03.40381" W	256.3430	41° 17' 58.28732" N	93° 06' 03.40345" W	256.373 m
	Leon	IALN	laDOT	LEICA GR50	LEIAR10 NONE	40° 43' 44.48402" N	93° 45' 42.86018" W	318.5577	40° 43' 44.48379" N	93° 45' 42.85998" W	318.581 m
	Martensdale	IAMD	laDOT	LEICA GR50	LEIAR10 NONE	41° 22' 16.79988" N	93° 44' 38.84704" W	232.9426	41° 22' 16.79970" N	93° 44' 38.84688" W	232.973 m
	Morning Sun ⁽¹³⁾	IAMS	laDOT	LEICA GR50	LEIAR10 NONE	41° 05' 17.83719" N	91° 10' 58.71199" W	190.9213	41° 05' 17.83732" N	91° 10' 58.71184" W	190.941 m
	Muscatine	IAMU	laDOT	LEICA GR50	LEIAR10 NONE	41° 26' 02.03004" N	91° 05' 11.91362" W	178.0127	41° 26' 02.02982" N	91° 05' 11.91337" W	178.034 m
	Oskaloosa	IAOK	laDOT	LEICA GR50	LEIAR10 NONE	41° 17' 35.36920" N	92° 41' 04.79092" W	208.6871	41° 17' 35.36897" N	92° 41' 04.79071" W	208.709 m
	Osceola	IAOS	laDOT	LEICA GR50	LEIAR10 NONE	41° 01' 40.27445" N	93° 47' 08.43750" W	324.5820	41° 01' 40.27422" N	93° 47' 08.43725" W	324.600 m
	Sigourney	IASI	laDOT	LEICA GR50	LEIAR10 NONE	41° 19' 03.32296" N	92° 12' 24.14575" W	199.1470	41° 19' 03.32266" N	92° 12' 24.14561" W	199.169 m
West Burlington	IAWB	laDOT	LEICA GR50	LEIAR10 NONE	40° 50' 00.48629" N	91° 12' 33.79226" W	187.9710	40° 50' 00.48608" N	91° 12' 33.79240" W	187.996 m	
Washington	IAWN	laDOT	LEICA GR50	LEIAR10 NONE	41° 18' 34.12013" N	91° 40' 44.74794" W	206.4681	41° 18' 34.11968" N	91° 40' 44.74802" W	206.499 m	
6	Anamosa	IAAN	laDOT	LEICA GR50	LEIAR10 NONE	42° 06' 12.96741" N	91° 15' 24.18902" W	228.0890	42° 06' 12.96713" N	91° 15' 24.18885" W	228.120 m
	Coralville	IACI	laDOT	LEICA GR50	LEIAR10 NONE	41° 42' 38.03132" N	91° 36' 33.23735" W	222.2513	41° 42' 38.03092" N	91° 36' 33.23725" W	222.292 m
	Davenport	IADA	laDOT	LEICA GR50	LEIAR10 NONE	41° 36' 36.18282" N	90° 37' 49.54785" W	201.6822	41° 36' 36.18254" N	90° 37' 49.54790" W	201.729 m
	Dubuque ⁽¹⁴⁾	IAD2	laDOT	LEICA GR50	LEIAR10 NONE	42° 25' 55.18329" N	90° 40' 44.85735" W	212.1730			
	Independence	IAIN	laDOT	LEICA GR50	LEIAR10 NONE	42° 26' 39.02877" N	91° 53' 00.91932" W	272.0286	42° 26' 39.02859" N	91° 53' 00.91906" W	272.062 m
	Marion	IAMN	laDOT	LEICA GR50	LEIAR10 NONE	42° 01' 49.08340" N	91° 32' 55.55610" W	229.9408	42° 01' 49.08323" N	91° 32' 55.55608" W	229.973 m
	Maquoketa	IAMQ	laDOT	LEICA GR50	LEIAR10 NONE	42° 04' 25.20087" N	90° 38' 42.15334" W	188.6313	42° 04' 25.20075" N	90° 38' 42.15315" W	188.679 m
	Manchester	IAMR	laDOT	LEICA GR50	LEIAR10 NONE	42° 29' 04.33714" N	91° 28' 22.77739" W	269.0456	42° 29' 04.33692" N	91° 28' 22.77708" W	269.072 m
	Newhall	IANW	laDOT	LEICA GR50	LEIAR10 NONE	41° 57' 41.91556" N	91° 58' 07.31574" W	245.2711	41° 57' 41.91522" N	91° 58' 07.31559" W	245.301 m
	Sabula	IASA	laDOT	LEICA GR50	LEIAR10 NONE	42° 05' 00.09682" N	90° 11' 55.17723" W	160.7168	42° 05' 00.09666" N	90° 11' 55.17682" W	160.769 m
	Tipton	IATI	laDOT	LEICA GR50	LEIAR10 NONE	41° 38' 33.88987" N	91° 06' 37.55657" W	185.8782	41° 38' 33.88909" N	91° 06' 37.55598" W	185.905 m
Williamsburg	IAWM	laDOT	LEICA GR50	LEIAR10 NONE	41° 42' 09.45053" N	92° 00' 22.02563" W	244.0704	41° 42' 09.45041" N	92° 00' 22.02541" W	244.100 m	

NOTES:

- 1) January 7, 2019, the laRTN started operating with new NAD83(2011) Epoch 2010.00 (IGS08 @2018.8123) reference station positions, which replaced the previous NAD83(2011) Epoch 2010.00 positions. The network was readjusted after replacing the the old hardware.
- 2) January 7, 2013, the laRTN started operating with NAD83(2011) Epoch 2010.00 reference station positions, which replaced the previous NAD83(CORS96) Epoch2002.00 positions.
- 10) July 14, 2018, a new groundmount base station was added back into the network at Corning2 (IACO). The Corning (IACO) base station was decommissioned in September 2016, due to the maintenance facility being closed and sold.
- 11) July 14, 2018, a new groundmount base station was added back into the network at Centerville2 (IAC1). The Centerville (IACE) base station was decommissioned in December 2016, due to the maintenance facility being closed and sold.
- 12) September 1, 2015, the antenna at Fairfield (IAFA) was moved and renamed Fairfield2 (IAFA).
- 13) July 14, 2018, a new groundmount base station was added into the network at Morning Sun (IAMS). This new base station replaced the Wapello (IAWO) base station that was decommissioned on July 14, 2018, due to the maintenance facility being closed and sold.
- 14) Aug. 3, 2021, new building mount due a new maintenance building in Dubuque. Site IADU was decommsioned Aug. 3, 2021. Coordinates were recomputed April 3, 2024 to better fit IGS08 2018.8123 adjustment of the RTN in 2018.
- 15) March 20, 2024, antenna relocated on building due to a damaged wall. The previous antenna (IAAA) position was compromised and taken down Jan. 9, 2024.

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	Name	Site ID	Responsible Agency	Receiver	Antenna		Latitude	Longitude	Ellipsoid Height	Latitude	Longitude	Ellipsoid Height
MN	Albert Lea	MNAA	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 40' 35.61239" N	93° 19' 47.01657" W	372.4769	43° 40' 35.61230" N	93° 19' 47.01638" W	372.507
	Beaver Creek	MNBV	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 36' 29.88292" N	96° 22' 41.33862" W	417.5276	43° 36' 29.88314" N	96° 22' 41.33853" W	417.535
	Blue Earth	MNBE	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 39' 46.33793" N	94° 07' 19.53132" W	303.3438	43° 39' 46.33806" N	94° 07' 19.53116" W	303.346
	Elkton	MNEK	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 39' 29.99164" N	92° 41' 19.43328" W	403.7219	43° 39' 29.99163" N	92° 41' 19.43292" W	403.768
	Fairmont	MNFR	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 39' 52.80211" N	94° 26' 36.67150" W	336.9668	43° 39' 52.80186" N	94° 26' 36.67070" W	337.002
	Lakefield	MNLK	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 38' 19.31804" N	95° 07' 06.89133" W	432.8231	43° 38' 19.31770" N	95° 07' 06.89118" W	432.849
	New Albin	IANA	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 29' 49.45265" N	91° 17' 26.49734" W	173.2432	43° 29' 49.45244" N	91° 17' 26.49752" W	173.268
	Prosper	MNPS	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 30' 53.82195" N	91° 53' 06.82411" W	381.9047	43° 30' 53.82190" N	91° 53' 06.82383" W	381.914
	Rushmore	MNRM	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 38' 14.53087" N	95° 46' 12.43730" W	489.7472	43° 38' 14.53101" N	95° 46' 12.43736" W	489.764
Sioux Falls	SFSD	MnDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 34' 19.39029" N	96° 43' 42.61561" W	428.2950	43° 34' 19.39026" N	96° 43' 42.61558" W	428.280	
MO	Albany	MOAL	MoDOT	TRIMBLE ALLOY	TRM57971.00	NONE	40° 15' 20.75462" N	94° 17' 58.90415" W	254.8542	40° 15' 20.75423" N	94° 17' 58.90391" W	254.859
	Canton	MOCN	MoDOT	TRIMBLE ALLOY	TRM115000.00	NONE	40° 08' 36.68893" N	91° 32' 37.66728" W	159.3986	40° 08' 36.68890" N	91° 32' 37.66723" W	159.400
	Edina	MOED	MoDOT	TRIMBLE ALLOY	TRM115000.00	NONE	40° 11' 11.65663" N	92° 10' 30.28766" W	194.6535	40° 11' 11.65647" N	92° 10' 30.28759" W	194.657
	Maryville	MOMV	MoDOT	TRIMBLE ALLOY	TRM57971.00	NONE	40° 21' 29.38601" N	94° 50' 48.02164" W	278.9093	40° 21' 29.38592" N	94° 50' 48.02144" W	278.923
	Milan	MOML	MoDOT	TRIMBLE ALLOY	TRM115000.00	NONE	40° 12' 37.76069" N	93° 06' 57.87627" W	227.2782	40° 12' 37.76072" N	93° 06' 57.87605" W	227.280
	Princeton	MOPN	MoDOT	TRIMBLE ALLOY	TRM115000.00	NONE	40° 25' 02.46886" N	93° 34' 39.03763" W	274.2838	40° 25' 02.46875" N	93° 34' 39.03746" W	274.285
	Tarkio	MOTK	MoDOT	TRIMBLE ALLOY	TRM115000.00	NONE	40° 26' 14.12989" N	95° 21' 04.35681" W	252.9568	40° 26' 14.12979" N	95° 21' 04.35661" W	252.968
WI	Lancaster	PDCH	WiDOT	TRIMBLE ALLOY	TRM115000.00	NONE	42° 50' 15.64296" N	90° 42' 41.03176" W	281.8899	42° 50' 15.64299" N	90° 42' 41.03145" W	281.925
	Prairie du Chien ⁽³⁾	PDCH	WiDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 01' 15.85603" N	91° 07' 03.73681" W	169.5550			
	Seneca	SECA	WiDOT	TRIMBLE ALLOY	TRM115000.00	NONE	43° 15' 23.67682" N	90° 58' 37.61529" W	360.2667	43° 15' 23.67693" N	90° 58' 37.61504" W	360.304
	Shullsburg	SHRG	WiDOT	TRIMBLE ALLOY	TRM115000.00	NONE	42° 34' 47.02163" N	90° 08' 34.11949" W	292.3146	42° 34' 47.02158" N	90° 08' 34.11940" W	292.343

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- 2) January 7, 2013, the laRTN started operating with NAD83(2011) Epoch 2010.00 reference station positions, which replaced the previous NAD83(CORS96) Epoch2002.00 positions.
- 3) April 2, 2024, added PDCH to RTN. New site operated by Wisconsin DOT.