

Coördinaten GNSS-referentiastations 06-GPS  
 Gecertificeerd door RD/NAP (Kadaster en RWS DID)  
 Aangesloten op het AGRS.NL  
 Datum ingang: juni 2022

06-GPS  
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ETRS89 <-> RD/NAP TRANSFORMATIE MET RD/NAPTRANS2008

stationsnaam	afkorting	nummer	beheerder	ETRS89, geocentrisch XYZ, verkerd punt			ETRS89, geocentrisch XYZ, ARP		
				X (m)	Y (m)	Z (m)	X (m)	Y (m)	Z (m)
Leer	0645	0645	SAPOS LGN	3793994.4457	495758.0063	5085958.2027	3793994.4801	495758.0108	5085958.2492
Emden	0647	0647	SAPOS LGN	3787983.7587	466951.2282	5093100.6997	3787983.7913	466951.2322	5093100.7438
Nordhorn	0658	0658	SAPOS LGN	3866977.5281	480107.2455	5032589.0009	3866977.5910	480107.2533	5032589.0833
Meppen	0683	0683	SAPOS LGN	3840419.4981	493022.5055	5051524.6618	3840419.5293	493022.5095	5051524.7031
Borkum	0687	0687	SAPOS LGN	3770133.5837	446053.9815	5108092.0711	3770133.6162	446053.9853	5108092.1154
Fino	0702	0702	SAPOS LGN	3731116.7666	430896.7745	5137763.7407	3731116.7970	430896.7780	5137763.7828
Viersen	2579	2579	SAPOS LVermA NRW	3974819.1276	445301.5641	4951691.7787	3974819.1631	445301.5681	4951691.8232
Vreden	2590	2590	SAPOS LVermA NRW	3902867.3204	463565.1837	5006557.5819	3902867.3558	463565.1879	5006557.6277
Aachen	2591	2591	SAPOS LVermA NRW	4019428.0489	428730.8258	4917460.0863	4019428.0841	428730.8295	4917460.1297
Selkant	2604	2604	SAPOS LVermA NRW	4000969.5206	415500.0719	4933305.0453	4000969.5569	415500.0756	4933305.0903
Kleve	2623	2623	SAPOS LVermA NRW	3932590.7278	423199.8602	4986981.7203	3932590.7628	423199.8640	4986981.7650
Almere	alm	0933	06-GPS	3886167.8164	355199.1257	5028209.8049	3886167.8164	355199.1257	5028209.8049
Alphen ad Rijn	alph	0939	06-GPS	3910708.7635	316409.3686	5011821.1781	3910708.7983	316409.3714	5011821.2231
Amsterdam	ams2	0944	06-GPS	3886680.5223	335087.3051	5029151.2039	3886680.5813	335087.3102	5029151.2807
Antwerpen	antw	antw	FLEPOS	3992388.9882	310536.0104	4947812.6783	3992388.9882	310536.0104	4947812.6783
Ballum	ball	1011	06-GPS	3788609.2549	377331.1418	5100009.3125	3788609.3147	377331.1477	5100009.3936
Beilen	beil	1009	06-GPS	3834194.8266	437875.2050	5061236.9650	3834194.8860	437875.2118	5061237.0439
Bligh	blig	0910	FLEPOS	3956938.9946	194731.0128	4981890.3019	3956938.9946	194731.0128	4981890.3019
Den Burg	denb	0942	06-GPS	3828733.4413	321696.4087	5073968.2270	3828733.5299	321696.4161	5073968.3453
Deventer	deve	1001	06-GPS	3891366.8897	421912.4647	5019057.4260	3891366.9798	421912.4744	5019057.5430
Dordrecht	dord	0931	06-GPS	3938452.9393	321203.4458	4989896.6594	3938453.0305	321203.4533	4989896.7757
Drachten	drac	1015	06-GPS	3815431.6586	406592.9639	5077867.5862	3815431.7464	406592.9732	5077867.7037
Ede	ede_	0932	06-GPS	3911792.9472	388559.3988	5005967.7909	3911792.9472	388559.3988	5005967.7909
Eijsden	eijs	1013	06-GPS	4020215.9684	402129.0686	4918845.2828	4020216.0609	402129.0779	4918845.3967
G17D-A	g17d	0703	06-GPS	3735908.1647	355658.5874	5140052.9085	3735908.1647	355658.5874	5140052.9085
Geldrop	geld	1002	06-GPS	3967617.4761	385891.4976	4962328.9704	3967617.5680	385891.5065	4962329.0861
Gent	gent	0906	FLEPOS	4012884.9454	260145.3550	4934206.8078	4012884.9454	260145.3550	4934206.8078
Geofort	geof	0941	06-GPS	3930986.3690	352582.8748	4993628.9531	3930986.4594	352582.8830	4993629.0688
Harderwijk	hard	0947	06-GPS	3886772.3932	384254.0631	5025591.1396	3886772.4832	384254.0720	5025591.2567
Heerhugowaard	heer	0935	06-GPS	3862716.8572	326030.3402	5048047.5139	3862716.9460	326030.3477	5048047.6308
Heesch	hees	0937	06-GPS	3940485.2501	380294.9907	4984166.4425	3940485.2501	380294.9907	4984166.4425
Houten	hout	1003	06-GPS	3916120.2078	354390.0409	5005091.6459	3916120.2985	354390.0491	5005091.7626
Lillo	lill	0907	FLEPOS	3984155.8876	300659.6619	4955008.8085	3984155.8876	300659.6619	4955008.8085
Lottum	lott	0948	06-GPS	3959776.4446	424607.1681	4965414.2244	3959776.5357	424607.1779	4965414.3393
Makkum	makk	0934	06-GPS	3824337.7220	361336.3578	5074614.7119	3824337.8099	361336.3661	5074614.8294
Nieuwleusen	nieu	0938	06-GPS	3859986.8928	424911.6796	5042814.6604	3859986.9822	424911.6894	5042814.7780
Gemini	ohv1	0705	06-GPS	3734517.2911	385141.9443	5138943.2424	3734517.2911	385141.9443	5138943.2424
Oostburg	oosb	0946	06-GPS	3985654.5990	243714.6429	4956900.0813	3985654.6913	243714.6485	4956900.1969
Oostende	oose	0908	FLEPOS	3996538.0992	205216.3953	4949931.4403	3996538.0992	205216.3953	4949931.4403
Oostvoorne	oost	1006	06-GPS	3932136.4915	280971.2683	4997247.2798	3932136.5518	280971.2726	4997247.3569
Roosendaal	roos	1007	06-GPS	3964512.2742	310410.0930	4970033.3056	3964512.3654	310410.1001	4970033.4207
Rotterdam	rott	0945	06-GPS	3928346.7069	303003.7058	4998924.7762	3928346.7978	303003.7128	4998924.8927
Schiermonnikoog	schi	0920	06-GPS	3782169.7029	408355.1543	5102378.0455	3782169.7905	408355.1637	5102378.1645
Terschelling	terj	0953	06-GPS	3798300.6031	347142.9252	5095001.8153	3798300.6031	347142.9252	5095001.8153
Turnhout	turn	0904	FLEPOS	3980076.7731	344648.7040	4955439.4311	3980076.7731	344648.7040	4955439.4311
Urk	urk2	0943	06-GPS	3858015.9338	378443.2795	5047978.2286	3858016.0231	378443.2882	5047978.3462
Veendam	veen	0936	06-GPS	3809932.8665	458691.8732	5077571.3580	3809932.9541	458691.8838	5077571.4756
Wijk aan Zee	wijk	1014	06-GPS	3878086.3721	312169.6174	5037198.9557	3878086.4619	312169.6247	5037199.0732
Zeebrugge	zeeb	0909	FLEPOS	3986703.8486	223465.2359	4957020.6728	3986703.8486	223465.2359	4957020.6728
Zierikzee	zier	0950	06-GPS	3957165.9089	271408.1211	4978101.9726	3957165.9999	271408.1273	4978102.0878

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**Datum ingang: juni 2022**

ETRS89 < > RD/NAP TRANSFORMATIE MET RD/NAPTRANS2008

stationsnaam	afkorting	nummer	beheerder	ETRS89 dd.ddddddd verzekerd punt			ETRS89 dd mm ss.sssss verzekerd punt			Ant. hoogtes AH(m)	Ant. Ref. Punt H(ell) ARP (m)				
				LAT (N)	LONG (E)	H-ellips. (m)	LAT (N)	LONG (E)	H-ellips. (m)						
Leer	0645	0645	SAPOS LGN	53.2299836000	7.4446108583	65.6666	53	13	47.94096	7	26	40.59909	65.6666	0.058	65.7246
Emden	0647	0647	SAPOS LGN	53.3374355361	7.0274953111	56.9393	53	20	14.76793	7	1	38.98312	56.9393	0.055	56.9943
Nordhorn	0658	0658	SAPOS LGN	52.4359872278	7.0773798889	80.5383	52	26	9.55402	7	4	38.56796	80.5383	0.104	80.6423
Meppen	0683	0683	SAPOS LGN	52.7158920472	7.3154618694	89.2358	52	42	57.21137	7	18	55.66273	89.2358	0.052	89.2878
Borkum	0687	0687	SAPOS LGN	53.5636543056	6.7474411417	54.3986	53	33	49.15550	6	44	50.78811	54.3986	0.055	54.4536
Fino	0702	0702	SAPOS LGN	54.0148287333	6.5877533056	61.7105	54	0	53.38344	6	35	15.91190	61.7105	0.052	61.7625
Viersen	2579	2579	SAPOS LVermA NRW	51.2587469500	6.3922295778	105.4476	51	15	31.48902	6	23	32.02648	105.4476	0.057	105.5046
Vreden	2590	2590	SAPOS LVermA NRW	52.0537707611	6.7736030944	92.5360	52	3	13.57474	6	46	24.97114	92.5360	0.058	92.5940
Aachen	2591	2591	SAPOS LVermA NRW	50.7679192611	6.0884130583	263.2271	50	46	4.50934	6	5	18.28701	263.2271	0.056	263.2831
Selkant	2604	2604	SAPOS LVermA NRW	50.9954606750	5.9289048806	100.6856	50	59	43.65843	5	55	44.05757	100.6856	0.058	100.7436
Kleve	2623	2623	SAPOS LVermA NRW	51.7684343944	6.1421621556	104.3774	51	46	6.36382	6	8	31.78376	104.3774	0.057	104.4344
Almere	alm	0933	06-GPS	52.3713968250	5.2223736667	87.8455	52	22	17.02857	5	13	20.54520	87.8455	0.000	87.8455
Alphen ad Rijn	alph	0939	06-GPS	52.1311443861	4.6256366278	59.6808	52	7	52.11979	4	37	32.29186	59.6808	0.057	59.7378
Amsterdam	ams2	0944	06-GPS	52.3856894944	4.9275290222	59.2196	52	23	8.12218	4	55	39.10448	59.2196	0.097	59.3166
Antwerpen	antw	antw	FLEPOS	51.2035360139	4.4476254556	63.3504	51	12	12.72965	4	26	51.45164	63.3504	0.000	63.3504
Ballum	ball	1011	06-GPS	53.4415523278	5.6876861056	54.5390	53	26	29.58838	5	41	15.66998	54.5390	0.101	54.6400
Beilen	beil	1009	06-GPS	52.8604162722	6.5151037639	71.3763	52	51	37.49858	6	30	54.37355	71.3763	0.099	71.4753
Bligh	blig	0910	FLEPOS	51.6947101917	2.8173977639	90.3477	51	41	40.95669	2	49	2.63195	90.3477	0.000	90.3477
Den Burg	denb	0942	06-GPS	53.0504928500	4.8028037361	56.2984	53	3	1.77426	4	48	10.09345	56.2984	0.148	56.4464
Deventer	deve	1001	06-GPS	52.2371533222	6.1879904694	64.6552	52	14	13.75196	6	11	16.76569	64.6552	0.148	64.8032
Dordrecht	dord	0931	06-GPS	51.8112413833	4.6624807500	64.7340	51	48	40.46898	4	39	44.93070	64.7340	0.148	64.8820
Drachten	drac	1015	06-GPS	53.1088207944	6.0827906639	56.3512	53	6	31.75486	6	4	58.06639	56.3512	0.147	56.4982
Ede	ede_	0932	06-GPS	52.0452496333	5.6725971111	84.0382	52	2	42.89868	5	40	21.34960	84.0382	0.000	84.0382
Eijsden	eijs	1013	06-GPS	50.7893779889	5.7121096472	102.7948	50	47	21.76076	5	42	43.59473	102.7948	0.147	102.9418
G17D-A	g17d	0703	06-GPS	54.0495695639	5.4381709250	83.9796	54	2	58.45043	5	26	17.41533	83.9796	0.000	83.9796
Geldrop	geld	1002	06-GPS	51.4121434861	5.5551298833	73.2289	51	24	43.71655	5	33	18.46758	73.2289	0.148	73.3769
Gent	gent	0906	FLEPOS	51.0087913889	3.7091527222	60.1528	51	0	31.64900	3	42	32.94980	60.1528	0.000	60.1528
Geofort	geof	0941	06-GPS	51.8656216444	5.1253288306	56.7452	51	51	56.23792	5	7	31.18379	56.7452	0.147	56.8922
Harderwijk	hard	0947	06-GPS	52.3331610444	5.6460284361	62.7450	52	19	59.37976	5	38	45.70237	62.7450	0.148	62.8930
Heerhugowaard	heer	0935	06-GPS	52.6646823722	4.8245812528	60.2775	52	39	52.85654	4	49	28.49251	60.2775	0.147	60.4245
Heesch	hees	0937	06-GPS	51.7280830778	5.5125251694	58.9724	51	43	41.09908	5	30	45.09061	58.9724	0.000	58.9724
Houten	hout	1003	06-GPS	52.0327578639	5.1709076194	57.2107	52	1	57.92831	5	10	15.26743	57.2107	0.148	57.3587
Lillo	lill	0907	FLEPOS	51.3068559833	4.3155792528	66.0244	51	18	24.68154	4	18	56.08531	66.0244	0.000	66.0244
Lottum	lott	0948	06-GPS	51.4565761694	6.1204446361	77.6168	51	27	23.67421	6	7	13.60069	77.6168	0.147	77.7638
Makkum	makk	0934	06-GPS	53.0601207111	5.3974757333	59.4081	53	3	36.43456	5	23	50.91264	59.4081	0.147	59.5551
Nieuwleusen	nieu	0938	06-GPS	52.5872040972	6.2818907056	61.1829	52	35	13.93475	6	16	54.80654	61.1829	0.148	61.3309
Gemini	ohv1	0705	06-GPS	54.0326230889	5.8881156028	81.4566	54	1	57.44312	5	53	17.21617	81.4566	0.000	81.4566
Oostburg	oosb	0946	06-GPS	51.3342168944	3.4991630917	51.7473	51	20	3.18082	3	29	56.98713	51.7473	0.148	51.8953
Oostende	oose	0908	FLEPOS	51.2339936889	2.9394729472	58.6875	51	14	2.37728	2	56	22.10261	58.6875	0.000	58.6875
Oostvoorne	oost	1006	06-GPS	51.9182543694	4.0871299361	62.0343	51	55	5.71573	4	5	13.66777	62.0343	0.098	62.1323
Roosendaal	roos	1007	06-GPS	51.5234359500	4.4769637222	61.4378	51	31	24.36942	4	28	37.06940	61.4378	0.147	61.5848
Rotterdam	rott	0945	06-GPS	51.9427417389	4.4106409389	58.7805	51	56	33.87026	4	24	38.30738	58.7805	0.148	58.9285
Schiermonnikoog	schi	0920	06-GPS	53.4773441361	6.1622679000	50.8093	53	28	38.43889	6	9	44.16444	50.8093	0.148	50.9573
Terschelling	terj	0953	06-GPS	53.3658353222	5.2219987694	74.9753	53	21	57.00716	5	13	19.19557	74.9753	0.000	74.9753
Turnhout	turn	0904	FLEPOS	51.3128758222	4.9490955056	81.3504	51	18	46.35296	4	56	56.74382	81.3504	0.000	81.3504
Urk	urk2	0943	06-GPS	52.6637251333	5.6023757472	54.3901	52	39	49.41048	5	36	8.55269	54.3901	0.148	54.5381
Veendam	veen	0936	06-GPS	53.1042731472	6.8650088972	65.8555	53	6	15.38333	6	51	54.03203	65.8555	0.147	66.0025
Wijk aan Zee	wijk	1014	06-GPS	52.5042497250	4.6021460444	58.6137	52	30	15.29901	4	36	7.72576	58.6137	0.148	58.7617
Zeebrugge	zeeb	0909	FLEPOS	51.3358564833	3.2082219750	60.2331	51	20	9.08334	3	12	29.59911	60.2331	0.000	60.2331
Zierikzee	zier	0950	06-GPS	51.6402113111	3.9235718222	55.3008	51	38	24.76072	3	55	24.85856	55.3008	0.147	55.4478

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**Aangesloten op het AGRS.NL**  
**Datum ingang: juni 2022**

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stationsnaam	afkorting	nummer	beheerder		RD-coördinaten x-RD (m)	NAP-hoogtes y-RD (m) H-NAP (m)	Ant. hoogtes AH(m)	Ant. Ref. Punt H-NAP ARP (m)	
Leer	0645	0645	SAPOS LGN		292379.7778	584560.5913	24.5781	0.058	24.6361
Emden	0647	0647	SAPOS LGN		264259.0279	595802.0397	16.4519	0.055	16.5069
Nordhorn	0658	0658	SAPOS LGN		269929.8373	495585.8697	37.4542	0.104	37.5582
Meppen	0683	0683	SAPOS LGN		285286.4718	527127.6049	47.0904	0.052	47.1424
Borkum	0687	0687	SAPOS LGN		245130.1207	620587.9970	14.2230	0.055	14.2780
Fino	0702	0702	SAPOS LGN		233709.4901	670616.3373	22.0567	0.052	22.1087
Viersen	2579	2579	SAPOS LVermA NRW		225154.1661	363752.1642	60.2826	0.057	60.3396
Vredon	2590	2590	SAPOS LVermA NRW		250088.6209	452626.2584	48.6727	0.058	48.7307
Aachen	2591	2591	SAPOS LVermA NRW		204471.1797	308901.5369	216.8651	0.056	216.9211
Selkant	2604	2604	SAPOS LVermA NRW		193030.5914	334119.4069	55.4355	0.058	55.4935
Kleve	2623	2623	SAPOS LVermA NRW		207111.5811	420243.2402	60.3894	0.057	60.4464
Almere	alm	0933	06-GPS		143774.7134	487070.4200	44.9558	0.000	44.9558
Alphen ad Rijn	alph	0939	06-GPS		102855.4375	460600.1276	16.3164	0.057	16.3734
Amsterdam	ams2	0944	06-GPS		123705.2492	488736.0429	16.2856	0.097	16.3826
Antwerpen	antw	antw	FLEPOS		89335.6199	357549.0811	18.5679	0.000	18.5679
Ballum	ball	1011	06-GPS		174967.3865	606186.3615	13.7187	0.101	13.8197
Beilen	beil	1009	06-GPS		230961.8112	542064.7332	29.6548	0.099	29.7538
Bligh	blig	0910	FLEPOS		-22648.5268	414906.8914	46.5049	0.000	46.5049
Den Burg	denb	0942	06-GPS		115812.1042	562781.8318	14.2894	0.148	14.4374
Deventer	deve	1001	06-GPS		209699.6930	472423.4619	21.3630	0.148	21.5110
Dordrecht	dord	0931	06-GPS		105023.0871	424984.0026	21.0507	0.148	21.1987
Drachten	drac	1015	06-GPS		201580.5877	569339.0721	15.0463	0.147	15.1933
Ede	ede_	0932	06-GPS		174578.7582	450808.6110	40.6112	0.000	40.6112
Eijsden	eijs	1013	06-GPS		177912.3934	311102.7775	56.8882	0.147	57.0352
G17D-A	g17d	0703	06-GPS		158338.3882	673825.4600	44.2912	0.000	44.2912
Geldrop	geld	1002	06-GPS		166682.9910	380347.9514	29.2304	0.148	29.3784
Gent	gent	0906	FLEPOS		37232.9873	336812.5273	15.5205	0.000	15.5205
Geofort	geof	0941	06-GPS		136962.8085	430817.6434	13.2396	0.147	13.3866
Harderwijk	hard	0947	06-GPS		172641.6350	482834.8785	19.7632	0.148	19.9112
Heerhugowaard	heer	0935	06-GPS		116938.0079	519839.0445	17.7673	0.147	17.9143
Heesch	hees	0937	06-GPS		163658.3806	415490.8932	15.3306	0.000	15.3306
Houten	hout	1003	06-GPS		140157.4591	449402.3267	13.8228	0.148	13.9708
Lillo	lill	0907	FLEPOS		80276.3646	369169.6281	21.4813	0.000	21.4813
Lottum	lott	0948	06-GPS		205962.0779	385534.1257	33.1344	0.147	33.2814
Makkum	makk	0934	06-GPS		155688.4464	563694.6977	17.6775	0.147	17.8245
Nieuwleusen	nieu	0938	06-GPS		215632.3666	511445.0556	18.6594	0.148	18.8074
Gemini	ohv1	0705	06-GPS		187827.1835	672052.5207	41.7585	0.000	41.7585
Oostburg	oosb	0946	06-GPS		23433.5231	373367.1625	7.3125	0.148	7.4605
Oostende	oose	0908	FLEPOS		-15932.8426	363380.5433	14.1011	0.000	14.1011
Oostvoorne	oost	1006	06-GPS		65561.9869	437440.7533	18.3981	0.098	18.4961
Roosendaal	roos	1007	06-GPS		91829.9832	393110.2918	17.2420	0.147	17.3890
Rotterdam	rott	0945	06-GPS		87853.3252	439816.3616	15.2237	0.148	15.3717
Schiermonnikoog	schi	0920	06-GPS		206461.0994	610405.7070	10.3622	0.148	10.5102
Terschelling	terj	0953	06-GPS		144001.9984	597730.0537	33.5788	0.000	33.5788
Turnhout	turn	0904	FLEPOS		124454.5776	369382.4686	36.7842	0.000	36.7842
Urk	urk2	0943	06-GPS		169556.7915	519606.2797	11.9701	0.148	12.1181
Veendam	veen	0936	06-GPS		253969.3250	569622.7199	24.8883	0.147	25.0353
Wijk aan Zee	wijk	1014	06-GPS		101696.6749	502128.6897	15.7859	0.148	15.9339
Zeebrugge	zeeb	0909	FLEPOS		3168.8217	374114.5968	15.7423	0.000	15.7423
Zierikzee	zier	0950	06-GPS		53688.6	406725.4869	11.1693	0.147	11.3163