

Ponto	Sistema	Latitude	Longitude	Lat String	Long String	UTM E	UTM N	UTM Fuso	h Geo	H Orto	N OG	DP Lat	DP Long	DP Alt	DP 2D	DP 3D	Descrição do marco
BASE_ WESTFALIA	SIRGAS2000	-29,4171629	-51,76701779	29°25'01,7866" S	51°46'01,2640" W	425.593,299	6.745.550,236	22 Sul	127,52	121,74	5,78	0,009	0,009	0,02	0,013	0,024	Haste metálica de Centragem Forçada
M0001	SIRGAS2000	-29,4317211	-51,77101498	29°25'54,1959" S	51°46'15,6539" W	425.216,193	6.743.934,583	22 Sul	108,55	102,8	5,75	0,001	0,002	0,003	0,002	0,004	Marco Sintético
M0002	SIRGAS2000	-29,4351482	-51,77377598	29°26'06,5334" S	51°46'25,5935" W	424.950,904	6.743.553,075	22 Sul	104,284	98,544	5,74	0,001	0,002	0,003	0,002	0,004	Marco Sintético
M0003	SIRGAS2000	-29,4428924	-51,78039555	29°26'34,4125" S	51°46'49,4240" W	424.314,592	6.742.690,708	22 Sul	84,053	78,323	5,73	0,002	0,002	0,003	0,003	0,004	Marco Sintético
M0004	SIRGAS2000	-29,4451197	-51,78206971	29°26'42,4309" S	51°46'55,4510" W	424.153,876	6.742.442,821	22 Sul	81,313	75,583	5,73	0,002	0,002	0,003	0,003	0,004	Marco Sintético
M0005	SIRGAS2000	-29,4468009	-51,78266263	29°26'48,4831" S	51°46'57,5855" W	424.097,623	6.742.256,156	22 Sul	74,801	69,081	5,72	0,002	0,002	0,003	0,003	0,004	Marco Sintético
M0006	SIRGAS2000	-29,4468277	-51,77573079	29°26'48,5796" S	51°46'32,6308" W	424.769,913	6.742.257,681	22 Sul	114,9	109,19	5,71	0,002	0,002	0,003	0,003	0,004	Marco Sintético
M0007	SIRGAS2000	-29,4469461	-51,76693034	29°26'49,0060" S	51°46'00,9492" W	425.623,490	6.742.250,203	22 Sul	103,687	97,987	5,7	0,001	0,002	0,002	0,002	0,003	Marco Sintético
M0008	SIRGAS2000	-29,4511348	-51,76681899	29°27'04,0854" S	51°46'00,5484" W	425.637,343	6.741.786,149	22 Sul	73,893	68,203	5,69	0,002	0,002	0,003	0,003	0,004	Marco Sintético
M0009	SIRGAS2000	-29,4452098	-51,76340748	29°26'42,7554" S	51°45'48,2669" W	425.963,886	6.742.444,834	22 Sul	92,076	86,376	5,7	0,002	0,002	0,002	0,003	0,003	Marco Sintético
M0010	SIRGAS2000	-29,4452707	-51,76116084	29°26'42,9746" S	51°45'40,1790" W	426.181,818	6.742.439,513	22 Sul	110,891	105,191	5,7	0,002	0,002	0,002	0,003	0,003	Marco Sintético
M0011	SIRGAS2000	-29,4452633	-51,74412301	29°26'42,9480" S	51°44'38,8428" W	427.834,209	6.742.451,004	22 Sul	77,569	71,899	5,67	0,002	0,002	0,004	0,003	0,005	Marco Sintético
M0012	SIRGAS2000	-29,4452301	-51,74185834	29°26'42,8284" S	51°44'30,6900" W	428.053,821	6.742.456,085	22 Sul	77,757	72,087	5,67	0,002	0,002	0,004	0,003	0,005	Marco Sintético
M0013	SIRGAS2000	-29,4361112	-51,7669894	29°26'10,0005" S	51°46'01,1618" W	425.609,862	6.743.450,712	22 Sul	167,312	161,582	5,73	0,003	0,003	0,007	0,004	0,008	Marco Sintético
M0014	SIRGAS2000	-29,4327847	-51,76626246	29°25'58,0248" S	51°45'58,5449" W	425.677,947	6.743.819,773	22 Sul	131,836	126,096	5,74	0,044	0,009	0,024	0,045	0,051	Pino de INOX
M0015	SIRGAS2000	-29,4313608	-51,76690002	29°25'52,8990" S	51°46'00,8401" W	425.615,069	6.743.977,134	22 Sul	124,723	118,983	5,74	0,002	0,002	0,003	0,003	0,004	Pino de INOX
M0016	SIRGAS2000	-29,4312263	-51,76586675	29°25'52,4146" S	51°45'57,1203" W	425.715,196	6.743.992,703	22 Sul	132,374	126,634	5,74	0,002	0,002	0,003	0,003	0,004	Pino de INOX
M0017	SIRGAS2000	-29,4198822	-51,76500263	29°25'11,5760" S	51°45'54,0095" W	425.790,768	6.745.250,214	22 Sul	108,577	102,807	5,77	0,002	0,002	0,002	0,003	0,003	Pino de INOX
M0018	SIRGAS2000	-29,4198341	-51,77121372	29°25'11,4028" S	51°46'16,3694" W	425.188,205	6.745.251,576	22 Sul	128,64	122,86	5,78	0,002	0,002	0,002	0,003	0,003	Marco Sintético
M0019	SIRGAS2000	-29,4270999	-51,76318178	29°25'37,5596" S	51°45'47,4544" W	425.972,639	6.744.451,629	22 Sul	129,354	123,604	5,75	0,002	0,002	0,003	0,003	0,004	Marco Sintético
M0020	SIRGAS2000	-29,4218718	-51,76340411	29°25'18,7386" S	51°45'48,2548" W	425.947,280	6.745.030,773	22 Sul	112,049	106,289	5,76	0,002	0,003	0,004	0,004	0,005	Pino de INOX
M0021	SIRGAS2000	-29,376155	-51,74686799	29°22'34,1580" S	51°44'48,7248" W	427.518,970	6.750.106,721	22 Sul	434,451	428,561	5,89	0,002	0,002	0,003	0,003	0,004	Pino de INOX
M0022	SIRGAS2000	-29,3747763	-51,74763254	29°22'29,1948" S	51°44'51,4772" W	427.443,793	6.750.259,006	22 Sul	428,483	422,583	5,9	0,002	0,002	0,004	0,003	0,005	Marco Sintético
M0023	SIRGAS2000	-29,3789099	-51,76769267	29°22'44,0755" S	51°46'03,6936" W	425.499,949	6.749.788,368	22 Sul	460,313	454,423	5,89	0,002	0,002	0,003	0,003	0,004	Marco Sintético
M0024	SIRGAS2000	-29,3847282	-51,76921442	29°23'05,0214" S	51°46'09,1719" W	425.356,514	6.749.142,712	22 Sul	439,704	433,824	5,88	0,002	0,002	0,003	0,003	0,004	Marco Sintético
M0025	SIRGAS2000	-29,3801651	-51,73347546	29°22'48,5943" S	51°44'00,5117" W	428.821,498	6.749.670,630	22 Sul	430,243	424,363	5,88	0,002	0,002	0,002	0,003	0,003	Marco Sintético
M0026	SIRGAS2000	-29,3817177	-51,73283376	29°22'54,1838" S	51°43'58,2015" W	428.884,852	6.749.498,986	22 Sul	429,039	423,159	5,88	0,002	0,002	0,002	0,003	0,003	Marco Sintético
M0029	SIRGAS2000	-29,3726951	-51,71512467	29°22'21,7025" S	51°42'54,4488" W	430.597,291	6.750.509,363	22 Sul	433,719	427,819	5,9	0,002	0,002	0,004	0,003	0,005	Marco Sintético
M0030	SIRGAS2000	-29,3734833	-51,71229413	29°22'24,5400" S	51°42'44,2589" W	430.872,534	6.750.423,707	22 Sul	430,651	424,751	5,9	0,002	0,002	0,004	0,003	0,005	Marco Sintético
M0031	SIRGAS2000	-29,3751735	-51,69747125	29°22'30,6245" S	51°41'50,8965" W	432312,237	6750245,119	22 Sul	484,251	478,371	5,88	0,002	0,003	0,004	0,0036	0,0054	Marco Sintético
M0032	SIRGAS2000	-29,3759027	-51,69873104	29°22'33,2498" S	51°41'55,4317" W	432.190,457	6.750.163,585	22 Sul	506,404	500,524	5,88	0,002	0,003	0,003	0,004	0,005	Marco Sintético
M0033	SIRGAS2000	-29,3894558	-51,69265508	29°23'22,0408" S	51°41'33,5583" W	432.789,032	6.748.665,391	22 Sul	428,568	422,728	5,84	0,003	0,003	0,005	0,004	0,007	Marco Sintético
M0034	SIRGAS2000	-29,3909327	-51,69343546	29°23'27,3578" S	51°41'36,3677" W	432.714,278	6.748.501,294	22 Sul	427,525	421,695	5,83	0,002	0,002	0,004	0,003	0,005	Marco Sintético
M0035	SIRGAS2000	-29,4002636	-51,71019468	29°24'00,9491" S	51°42'36,7008" W	431.094,339	6.747.457,630	22 Sul	422,75	416,95	5,8	0,002	0,002	0,002	0,003	0,003	Marco Sintético
M0036	SIRGAS2000	-29,4002562	-51,71272918	29°24'00,9221" S	51°42'45,8250" W	430.848,421	6.747.456,959	22 Sul	432,339	426,539	5,8	0,002	0,002	0,002	0,003	0,003	Marco Sintético
M0037	SIRGAS2000	-29,4060033	-51,73634079	29°24'21,6119" S	51°44'10,8268" W	428.561,490	6.746.805,936	22 Sul	433,515	427,725	5,79	0,001	0,002	0,002	0,002	0,003	Marco Sintético
M0038	SIRGAS2000	-29,4075784	-51,73718587	29°24'27,2823" S	51°44'13,8691" W	428.480,602	6.746.630,890	22 Sul	438,085	432,295	5,79	0,001	0,002	0,003	0,002	0,004	Marco Sintético
M0039	SIRGAS2000	-29,4156874	-51,74110008	29°24'56,4746" S	51°44'27,9603" W	428.106,554	6.745.729,984	22 Sul	426,745	420,985	5,76	0,001	0,002	0,002	0,002	0,003	Marco Sintético
M0040	SIRGAS2000	-29,4170179	-51,74110236	29°25'01,2645" S	51°44'27,9685" W	428.107,270	6.745.582,558	22 Sul	425,158	419,398	5,76	0,001	0,002	0,002	0,002	0,003	Marco Sintético