

Transformation : Geographical (Latitude , Longitude) to Gauss Conform (Y, X)  
System : WG 31°

Edit	Name	Latitude	Longitude	Y Co-ordinate	X Co-ordinate
	D15BR	25.57.33,0481 S	30.34.25,7726 E	42682,574	2872381,709
73	445A	25.57.14,2534 S	30.32.54,1686 E	45233,047	2871811,850
74	445B	25.57.15,7915 S	30.33.21,7431 E	44465,713	2871856,561
75	445C2	25.57.36,1359 S	30.33.12,9160 E	44709,163	2872483,491
76	445C2WP	25.58.11,8632 S	30.33.41,5032 E	43910,172	2873580,305
77	455A	25.57.13,5521 S	30.32.41,6017 E	45582,756	2871791,478
78	465A	25.57.13,3862 S	30.32.38,6226 E	45665,658	2871786,661
79	475A	25.57.12,5609 S	30.32.23,8551 E	46076,608	2871762,700
80	485A	25.57.11,9626 S	30.32.13,1771 E	46373,756	2871745,335
81	495A	25.57.11,4016 S	30.32.03,1684 E	46652,280	2871729,058
82	ABSA	25.57.24,1025 S	30.33.47,3025 E	43753,753	2872109,938
83	BAD	25.57.25,6408 S	30.33.46,1591 E	43785,406	2872157,385
84	BADX	25.57.24,8781 S	30.33.46,0437 E	43788,695	2872133,924
85	BASE	25.57.52,7305 S	30.32.24,9767 E	46041,061	2872998,805
86	CNRP	25.57.01,2015 S	30.34.40,6735 E	42271,183	2871400,294
87	D13CR	25.57.40,5479 S	30.34.16,4964 E	42939,887	2872613,356
88	D15AR	25.57.17,4831 S	30.34.32,1034 E	42508,001	2871902,127
89	D15BR	25.57.33,0481 S	30.34.25,7726 E	42682,574	2872381,709
90	D15FR	25.57.13,5785 S	30.34.20,3556 E	42835,236	2871783,027
91	DOELN	25.58.28,3518 S	30.34.13,1303 E	43028,702	2874084,821
92	INDL	25.56.57,2249 S	30.34.47,1416 E	42091,616	2871277,336
93	INDR	25.56.56,0309 S	30.34.46,5292 E	42108,773	2871240,646
94	JN	25.57.16,4235 S	30.33.33,1237 E	44149,020	2871874,940
95	KM46	25.57.57,7585 S	30.32.10,7059 E	46437,517	2873154,942
96	KM50	25.57.04,8065 S	30.34.19,1545 E	42869,535	2871513,180
97	KM51	25.56.52,8903 S	30.34.51,4072 E	41973,362	2871143,559
98	KM52.6	25.56.07,2671 S	30.35.16,7783 E	41271,874	2869737,280
99	L016	25.56.45,5885 S	30.34.58,2063 E	41784,905	2870918,245
100	L017	25.56.47,3914 S	30.34.57,1520 E	41814,062	2870973,822
101	L018	25.56.51,1321 S	30.34.53,7733 E	41907,702	2871089,241
102	L019	25.56.52,1970 S	30.34.52,4235 E	41945,153	2871122,133
103	L020	25.56.57,5401 S	30.34.44,2085 E	42173,192	2871287,298
104	L021	25.56.59,4908 S	30.34.40,7119 E	42270,284	2871347,644
105	L022	25.57.00,2237 S	30.34.38,9765 E	42318,495	2871370,354

Current Co-ordinate File Existing Point Names

3SA	5a	14RSH1	24SA	28B	50A1V	62C	435BV
3SB	5b	14RSL1	24SC	28C	50BV	62D	435C
5A1	5c	19A	26BN	49A	50CV	415BV	435CC
5B1	5d	19D	26DN	49A1	50D	415C	445A
5C1V	6NX	19E	26M	49A1NP	51C	415D	445B
5C1VWP	12GB	24AB	27B1V	49BV	51D	425BV	445C2
5C1WP	14RP2	24ABX	27G	49CB	57G	425CV	445C2WP
5EV	14RRU	24ABY	27SF	49D	62A	425D	455A
5WP	14RSA	24C	28A	50A	62B	425E	465A

Converting an ASCII file [Latitude, Longitude] values to [Y, X] for System WG 31°



## Transforming Gauss Conform to/from Geographical values

- This set of Transformation programmes supports the following Systems and/or Ellipsoids :-
  - Various Southern African "Lo" Systems using the Clarke 1880 (Modified) Ellipsoid
  - South African "WG" System using the WGS 84 Ellipsoid
  - Namibian "Bessel" System using the Bessel 1841 Ellipsoid (GL Metres and Int. Metres)

- U.K. National Grid System, OSGB36, using the Airy 1830 Ellipsoid
- U.K. National GPS Network, ETRS89, using the WGS 84 (GRS80) Ellipsoid
- Irish National Grid using the Airy 1830 (Modified) Ellipsoid
- Universal Transverse Mercator, U.T.M., using Various Ellipsoids
- Geographical [Latitude, Longitude] to Transverse Mercator [Y, X] (or [E, N]) transformations
- Transverse Mercator [Y, X] (or [E, N]) to Geographical [Latitude, Longitude] transformations
- Transverse Mercator [Y, X] (or [E, N]) System 1 to System 2 (Belt 1 to Belt 2) transformations
- Transverse Mercator [Y, X] (or [E, N]) System to U.T.M. [E, N] Zone transformations
- U.T.M. [E, N] Zone to Transverse Mercator [Y, X] (or [E, N]) System transformations
- U.T.M. [E, N] Zone 1 to U.T.M. [E, N] Zone 2 transformations.