

UTM-System: $m_0 = 0,999\ 6$		Bivariate series expansion	
Ellipsoid: GRS80		B_P	$48^\circ 26' 44", 979\ 1$
A	6 378 137 [m]		$48^\circ, 445\ 827\ 528$
E^2	0,006 694 380 02	B_0	$48^\circ, 000\ 000\ 000$
η_0^2	0,003 017 514	b	$0^\circ, 445\ 827\ 528$
$m_0 N(B_0)$	6 387 404,007 7 [m]	L_P	$10^\circ 42' 58", 5830$
			$10^\circ, 716\ 273\ 056$
L_0	9°	L_0	$9^\circ, 000\ 000\ 000$
Zone	32	ℓ	$1^\circ, 716\ 273\ 056$
b [rad] = $7,781\ 158\ 26 \cdot 10^{-3}$		ℓ [rad] = $2,995\ 461\ 569 \cdot 10^{-2}$	
(10)	6 368 187,912 452 [m]	(10) b	49 551,877 95 [m]
(20)	31 915,271 886 [m]	(20) b^2	1,932 36 [m]
(02)	1 588 103,285 048 [m]	(02) ℓ^2	1 424,971 73 [m]
(30)	-2 056,942 339 [m]	(30) b^3	-0,000 97 [m]
(12)	-328 526,630 026 [m]	(12) b ℓ^2	-2,293 73 [m]
(40)	-10 703,016 964 [m]	(40) b^4	-0,000 04 [m]
(22)	-3 177 884,724 969 [m]	(22) $b^2 \ell^2$	-0,172 64 [m]
(04)	224 792,585 698 [m]	(04) ℓ^4	0,180 98 [m]
(32)	222 555,175 064 [m]	(32) $b^3 \ell^2$	0,000 09 [m]
(14)	-843 355,905 912 [m]	(14) b ℓ^4	-0,005 28 [m]
(42)	1 058 735,523 365 [m]	(42) $b^4 \ell^2$	$3,5 \cdot 10^{-6}$ [m]
(24)	-197 363,769 890 [m]	(24) $b^2 \ell^4$	$-9,6 \cdot 10^{-6}$ [m]
(06)	-7 976,107 183 [m]	(06) ℓ^6	$-5,8 \cdot 10^{-6}$ [m]
(16)	-206 526,396 358 [m]	(16) b ℓ^6	$-1,2 \cdot 10^{-6}$ [m]
		x(ℓ, b)	50 976,490 5 [m]
		+ $x_0(B_0)$	$m_0 \cdot 5\ 318\ 427,595\ 4$ [m]
		False Northing	5 367 276,714 8 [m]
		m_0	0,999 600 000
(02) $_{\Lambda}$	0,224 453 591 242	(02) $_{\Lambda}$ ℓ^2	$2,01\ 397\ 494 \cdot 10^{-4}$
(12) $_{\Lambda}$	-0,500 061 826 421	(12) $_{\Lambda}$ b ℓ^2	$-3,491\ 367 \cdot 10^{-6}$
(22) $_{\Lambda}$	0,055 890 212 522	(22) $_{\Lambda}$ $b^2 \ell^2$	$3,04 \cdot 10^{-9}$
(04) $_{\Lambda}$	0,000 034 976 206	(04) $_{\Lambda}$ ℓ^4	$2,8 \cdot 10^{-11}$
(32) $_{\Lambda}$	0,331 374 695 537	(32) $_{\Lambda}$ $b^3 \ell^2$	$1,4 \cdot 10^{-10}$
(14) $_{\Lambda}$	-0,168 141 336 059	(14) $_{\Lambda}$ b ℓ^4	$-1,05 \cdot 10^{-9}$
(06) $_{\Lambda}$	-0,012 113 427 024	(06) $_{\Lambda}$ ℓ^6	$-9 \cdot 10^{-12}$
distortion ("scale factor")		Λ	0,999 797 908

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Ellipsoid: GRS80		B_P	$48^\circ 26' 44'', 979\ 1$
A	6 378 137 [m]		$48^\circ, 445\ 827\ 528$
E^2	0,006 694 380 02	B_0	$48^\circ, 000\ 000\ 000$
η_0^2	0,003 017 514	b	$0^\circ, 445\ 827\ 528$
$m_0 N(B_0)$	6 387 404,007 7 [m]	L_P	$10^\circ 42' 58'', 5830$
			$10^\circ, 716\ 273\ 056$
L_0	9°	L_0	$9^\circ, 000\ 000\ 000$
Zone	32	ℓ	$1^\circ, 716\ 273\ 056$
b [rad] = $7,781\ 158\ 26 \cdot 10^{-3}$		ℓ [rad] = $2,995\ 461\ 569 \cdot 10^{-2}$	
(01)	4 274 007,516 711 [m]	(01) ℓ	128 026,252 59 [m]
(11)	-4 732 486,025 227 [m]	(11) b ℓ	-1 103,055 44 [m]
(21)	-2 154 292,447 504 [m]	(21) $b^2 \ell$	-3,907 12 [m]
(03)	-73 496,840 800 [m]	(03) ℓ^3	-1,975 42 [m]
(31)	776 089,010 287 [m]	(31) $b^3 \ell$	0,010 95 [m]
(13)	-1 339 763,117 343 [m]	(13) b ℓ^3	-0,280 20 [m]
(41)	178 083,646 530 [m]	(41) $b^4 \ell$	$2 \cdot 10^{-5}$ [m]
(23)	1 764 755,600 222 [m]	(23) $b^2 \ell^3$	0,002 87 [m]
(05)	-113 200,894 138 [m]	(05) ℓ^5	-0,002 73 [m]
(33)	1 473 835,512 394 [m]	(33) $b^3 \ell^3$	$1,9 \cdot 10^{-5}$ [m]
(15)	71 520,630 866 [m]	(15) b ℓ^5	$1,3 \cdot 10^{-5}$ [m]
(25)	965 662,422 710 [m]	(25) $b^2 \ell^5$	$1,4 \cdot 10^{-6}$ [m]
		y(ℓ, b)	126 917,045 6 [m]
		False Easting	626 917,045 6 [m]
		Zone	32
(01) _c	0,743 144 825 477 [rad]	(01) _c ℓ	0,022 260 617 650 [rad]
(11) _c	0,669 130 606 359 [rad]	(11) _c b ℓ	$1,55\ 962\ 036 \cdot 10^{-4}$ [rad]
(21) _c	-0,371 572 412 739 [rad]	(21) _c $b^2 \ell$	$-6,73\ 900 \cdot 10^{-7}$ [rad]
(03) _c	0,111 914 864 772 [rad]	(03) _c ℓ^3	$3,008\ 008 \cdot 10^{-6}$ [rad]
(31) _c	-0,111 521 767 726 [rad]	(31) _c $b^3 \ell$	$-1,574 \cdot 10^{-9}$ [rad]
(13) _c	-0,150 049 667 331 [rad]	(13) _c b ℓ^3	$-3,1\ 381 \cdot 10^{-8}$ [rad]
(23) _c	-0,251 383 837 338 [rad]	(23) _c $b^2 \ell^3$	$-4,09 \cdot 10^{-10}$ [rad]
(05) _c	0,007 613 082 088 [rad]	(05) _c ℓ^5	$1,84 \cdot 10^{-10}$ [rad]
meridian convergence		c	0,022 418 880 43 [rad]
			$1^\circ 17' 4'', 226\ 1$

UTM-System: $m_0 = 0,999\ 6$		Univariate series expansion	
Ellipsoid: GRS80		B_P	$48^\circ 26' 44", 979\ 1$
A	6 378 137 [m]		$48^\circ, 445\ 827\ 528$
E^2	0,006 694 380 02	B_0	B_P
η_0^2	0,002 965 405	b	0
$m_0 N(B_0)$	6 387 569,934 3 [m]	L_P	$10^\circ 42' 58", 5830$
			$10^\circ, 716\ 273\ 056$
L_0	9°	L_0	$9^\circ, 000\ 000\ 000$
Zone	32	ℓ	$1^\circ, 716\ 273\ 056$
b [rad] = 0		ℓ [rad] = $2,995\ 461\ 569 \cdot 10^{-2}$	
(02)	1 585 354,662 209 [m]	(02) ℓ^2	1 422,505 44 [m]
(04)	218 219,626 178 [m]	(04) ℓ^4	0,175 69 [m]
(06)	-9 546,579 490 [m]	(06) ℓ^6	$-6,9 \cdot 10^{-6}$ [m]
		$x(\ell, b)$	1 422,681 13 [m]
		+ $x_0(B_0)$	$m_0 \cdot 5\ 368\ 001,234\ 2$ [m]
		False Northing	5 367 276,714 8 [m]
		m_0	0,999 600 000
(02) $_{\Lambda}$	0,220 566 071 633	(02) $_{\Lambda} \ell^2$	$1,979\ 093\ 04 \cdot 10^{-4}$
(04) $_{\Lambda}$	-0,001 249 757 631	(04) $_{\Lambda} \ell^4$	$-1 \cdot 10^{-9}$
(06) $_{\Lambda}$	-0,011 997 484 417	(06) $_{\Lambda} \ell^6$	$-9 \cdot 10^{-12}$
distortion ("scale factor")		Λ	0,999 797 908

UTM-System: $m_0 = 0,999\ 6$		Univariate series expansion	
Ellipsoid: GRS80		B_P	$48^\circ 26' 44", 979\ 1$
A	6 378 137 [m]		$48^\circ, 445\ 827\ 528$
E^2	0,006 694 380 02	B_0	B_P
η_0^2	0,003 017 514	b	0
$m_0 N(B_0)$	6 387 404,007 7 [m]	L_P	$10^\circ 42' 58", 5830$
			$10^\circ, 716\ 273\ 056$
L_0	9°	L_0	$9^\circ, 000\ 000\ 000$
Zone	32	ℓ	$1^\circ, 716\ 273\ 056$
b [rad] = 0		ℓ [rad] = $2,995\ 461\ 569 \cdot 10^{-2}$	
(01)	4 237 053,226 592 [m]	(01) ℓ	126 919,301 0 [m]
(03)	-83 814,178 140 [m]	(03) ℓ^3	-2,252 73 [m]
(05)	-112 562,168 782 [m]	(05) ℓ^5	-0,002 72 [m]
		y(ℓ, b)	126 917,045 6 [m]
		False Easting	626 917,045 6 [m]
		Zone	32
(01) _c	0,748 328 886 811 [rad]	(01) _c ℓ	0,022 415 904 209 [rad]
(03) _c	0,110 732 282 256 [rad]	(03) _c ℓ^3	$2,976\ 223 \cdot 10^{-6}$ [rad]
(05) _c	0,007 024 631 039 [rad]	(05) _c ℓ^5	$1,69 \cdot 10^{-10}$ [rad]
meridian convergence		c	0,022 418 880 60 [rad]
			$1^\circ 17' 4", 226\ 1$

UTM-System: $m_0 = 0,999\ 6$		Bivariate series expansion	
Ellipsoid: GRS80			
A	6 378 137 [m]	False Easting	626 917,045 6 [m]
E^2	0,006 694 380 02		
η_0^2	0,002 929 557	Easting y	126 917,045 6 [m]
$m_0 N(B_0)$	6 387 684,090 0 [m]	False Northing	5 367 276,714 8 [m]
L_0	9°	x_0	5 400 000,000 0 [m]
Zone	32	x	-32 723,285 2 [m]
[10]	3 238,561 390 ["/(100km)]	[10] x	-1 059,763 680 ["]
[20]	-0,254 074 ["/(100km) ²]	[20] x ²	-0,027 207 ["]
[02]	-28,909 251 ["/(100km) ²]	[02] y ²	-46,566 838 ["]
[30]	0,000 368 ["/(100km) ³]	[30] x ³	-1,3 · 10 ⁻⁵ ["]
[12]	-0,909 606 ["/(100km) ³]	[12] x y ²	0,479 457 ["]
[40]	2,1 · 10 ⁻⁵ ["/(100km) ⁴]	[40] x ⁴	2,4 · 10 ⁻⁷ ["]
[22]	-0,016 145 ["/(100km) ⁴]	[22] x ² y ²	-0,002 785 ["]
[04]	0,005 237 ["/(100km) ⁴]	[04] y ⁴	0,013 589 ["]
[32]	-0,000 364 ["/(100km) ⁵]	[32] x ³ y ²	2,1 · 10 ⁻⁵ ["]
[14]	0,000 310 ["/(100km) ⁵]	[14] x y ⁴	-0,000263 ["]
[42]	-7,8 · 10 ⁻⁶ ["/(100km) ⁶]	[42] x ⁴ y ²	-1,4 · 10 ⁻⁷ ["]
[24]	1,2 · 10 ⁻⁵ ["/(100km) ⁶]	[24] x ² y ⁴	3,4 · 10 ⁻⁶ ["]
[06]	-1,2 · 10 ⁻⁶ ["/(100km) ⁶]	[06] y ⁶	-5,1 · 10 ⁻⁶ ["]
[34]	4,4 · 10 ⁻⁷ ["/(100km) ⁷]	[34] x ³ y ⁴	-4,0 · 10 ⁻⁸ ["]
[16]	-1,2 · 10 ⁻⁷ ["/(100km) ⁷]	[16] x y ⁶	1,6 · 10 ⁻⁷ ["]
		b(x,y)	-1 105,867 720 ["]
			-18'25",867 720
		+ $B_0 \left(\frac{x_0}{m_0} \right)$	48°45'10",846 82
		B_P	48°26'44",979 100
		m_0	0,999 600 000
[02] _Λ	0,000 122 851 3 [(100km) ⁻²]	[02] _Λ y ²	0,000 197 888 1
[12] _Λ	-2,56 · 10 ⁻⁸ [(100km) ⁻³]	[12] _Λ x y ²	1,35 · 10 ⁻⁸
[22] _Λ	5,29 · 10 ⁻¹¹ [(100km) ⁻⁴]	[22] _Λ x ² y ²	9,12 · 10 ⁻¹²
[04] _Λ	2,55 · 10 ⁻⁹ [(100km) ⁻⁴]	[04] _Λ y ⁴	6,61 · 10 ⁻⁹
distortion ("scale factor")		Λ	0,999 797 908

UTM-System: $m_0 = 0,999\ 6$		Bivariate series expansion	
Ellipsoid: GRS80		False Easting	626 917,045 6 [m]
A	6 378 137 [m]	Easting y	126 917,045 6 [m]
E^2	0,006 694 380 02	False Northing	5 367 276,714 8 [m]
L_0	9°	x	-32 723,285 2 [m]
[01]	4897,726 088 ["/100km]	[01] y	6 216,049 253 ["]
[11]	87,439 808 ["/(100km) ²]	[11] x y	-36,315 000 ["]
[21]	2,163 008 ["/(100km) ³]	[21] x ² y	0,293 962 ["]
[03]	-0,721 003 ["/(100km) ³]	[03] y ³	-1,473 998 ["]
[31]	0,045 739 ["/(100km) ⁴]	[31] x ³ y	-0,002 034 ["]
[13]	-0,045 739 ["/(100km) ⁴]	[13] x y ³	0,030 599 ["]
[41]	0,001 005 ["/(100km) ⁵]	[41] x ⁴ y	$1,5 \cdot 10^{-5}$ ["]
[23]	-0,002 012 ["/(100km) ⁵]	[23] x ² y ³	-0,000 440 ["]
[05]	0,002 012 ["/(100km) ⁵]	[05] y ⁵	0,000 662 ["]
[33]	$-7,3 \cdot 10^{-5}$ ["/(100km) ⁶]	[33] x ³ y ³	$5,2 \cdot 10^{-6}$ ["]
[15]	$2,2 \cdot 10^{-5}$ ["/(100km) ⁶]	[15] x y ⁵	$-2,4 \cdot 10^{-5}$ ["]
[25]	$1,4 \cdot 10^{-6}$ ["/(100km) ⁷]	[25] x ² y ⁵	$5,0 \cdot 10^{-7}$ ["]
[07]	$-6,8 \cdot 10^{-8}$ ["/(100km) ⁷]	[07] y ⁷	$-3,6 \cdot 10^{-7}$ ["]
		$\ell(x,y)$	6 178,583 001 ["]
			1°42'58",583 001
		+ L_0	9°0'00",000 000
		L_P	10°42'58",583 001
[01] _c	3 682,475 253 ["/100km]	[01] _c y	4 673,688 8 ["]
[11] _c	116,443 847 ["/(100km) ²]	[11] _c x y	-48,360 8 ["]
[21] _c	2,073 601 ["/(100km) ³]	[21] _c x ² y	0,281 8 ["]
[03] _c	-0,691 200 ["/(100km) ³]	[03] _c y ³	-1,413 1 ["]
[31] _c	0,046 568 ["/(100km) ⁴]	[31] _c x ³ y	-0,002 1 ["]
[13] _c	-0,046 568 ["/(100km) ⁴]	[13] _c x y ³	0,031 2 ["]
[41] _c	0,001 001 ["/(100km) ⁵]	[41] _c x ⁴ y	$1,5 \cdot 10^{-5}$ ["]
[23] _c	-0,002 002 ["/(100km) ⁵]	[23] _c x ² y ³	-0,000 4 ["]
[05] _c	0,002 002 ["/(100km) ⁵]	[05] _c y ⁵	0,000 7 ["]
[33] _c	$-7,3 \cdot 10^{-5}$ ["/(100km) ⁶]	[33] _c x ³ y ³	$5,2 \cdot 10^{-6}$ ["]
[15] _c	$2,2 \cdot 10^{-5}$ ["/(100km) ⁶]	[15] _c x y ⁵	$-2,4 \cdot 10^{-5}$ ["]
[25] _c	$1,4 \cdot 10^{-6}$ ["/(100km) ⁷]	[25] _c x ² y ⁵	$5,0 \cdot 10^{-7}$ ["]
meridian convergence		c	4 624,226 0 ["]
			1°17'04",226 0

UTM-System: $m_0 = 0,999\ 6$		Univariate series expansion	
Ellipsoid: GRS80			
A	6 378 137 [m]	False Easting	626 917,045 6 [m]
E^2	0,006 694 380 02		
η_0^2	0,002 963 910	Easting y	126 917,045 6 [m]
$m_0 N(B_0)$	6 387 574,693 5 [m]	False Northing	5 367 276,714 8 [m]
L_0	9°	x_0	5 367 276,714 8 [m]
Zone	32	x	0 [m]
[02]	-28,613 314 ["/(100km) ²]	[02] y^2	-46,090 145 ["]
[04]	0,005 137 ["/(100km) ⁴]	[04] y^4	0,013 330 ["]
[06]	$-1,2 \cdot 10^{-6}$ ["/(100km) ⁶]	[06] y^6	$-5,0 \cdot 10^{-6}$ ["]
		$b(x,y)$	-46", 076 820
		$+ B_0 \left(\frac{x_0}{m_0} \right)$	48°27'31",055 92
		B_P	48°26'44",979 100
		m_0	0,999 600 000
[02] _Λ	0,000 122 859 7 [(100km) ⁻²]	[02] _Λ y^2	0,000 197 901 7
[04] _Λ	$2,55 \cdot 10^{-9}$ [(100km) ⁻⁴]	[04] _Λ y^4	$6,61 \cdot 10^{-9}$
distortion ("scale factor")		Λ	0,999 797 908

UTM-System: m ₀ = 0,999 6		Univariate series expansion	
Ellipsoid: GRS80			
A	6 378 137 [m]	False Easting	626 917,045 6 [m]
E ²	0,006 694 380 02		
η ₀ ²	0,002 963 910	Easting y	126 917,045 6 [m]
m ₀ N(B ₀)	6 387 574,693 5 [m]	False Northing	5 367 276,714 8 [m]
L ₀	9°	x ₀	5 367 276,714 8 [m]
Zone	32	x	0 [m]
[01]	4 869,342 937 ["/100km]	[01] y	6 180,026 196 ["]
[03]	-0,706 248 ["/(100km) ³]	[03] y ³	-1,443 834 ["]
[05]	0,000 194 ["/(100km) ⁵]	[05] y ⁵	0,000 639 ["]
		ℓ(x,y)	6 178,583 001 ["]
			1°42'58",583 001
		+L ₀	9°0'00",000 000
		L _P	10°42'58",583 001
[01] _c	3 644,591 421 ["/100km]	[01] _c y	4 625,607 8 ["]
[03] _c	-0,676 163 ["/(100km) ³]	[03] _c y ³	-1,382 3 ["]
[05] _c	0,000 193 ["/(100km) ⁵]	[05] _c y ⁵	0,000 6 ["]
meridian convergence		c	4 624,226 1 ["]
			1°17'04",226 1

Abbreviations:

$$\eta_0^2 = \frac{E^2 \cos^2 B}{1 - E^2}$$

$$N(B) = \frac{A}{\sqrt{1 - E^2 \sin^2 B}}$$

$$\ell = L - L_0$$

$$b = B - B_0$$

$$x_0(B_0) = m_0 \int_0^{B_0} M(B) dB = m_0 G(B_0)$$