

Sechster Abschnitt.

Die Ausgleichung der Küstendreiecke zwischen Wildenhof und Darserort.

§. 81. Bedingungsgleichungen.

Wenn man die in §. 80. gegebenen Vorschriften in Anwendung bringt, so findet man zwischen Wildenhof und Darserort folgende Bedingungsgleichungen:

I. *Trunz-Wildenhof-Sommerfeld.*

Trunz	49°	4'	30,"	144	+ (10)
Wildenhof	32	21	48,	987	+ (1)
Sommerfeld	98	33	43,	042	+ (3) - (2)
Summe	180	0	2,	173	
180° + ε	180	0	3,	568	
0 =	-	1,"	395	+ (1) - (2) + (3) + (10)	

II. *Trunz-Sommerfeld-Talpitten.*

Trunz	34°	2'	51,"	262	+ (11) - (10)
Sommerfeld	54	55	32,	889	+ (2)
Talpitten	91	1	37,	607	+ (6) - (5)
Summe	180	0	1,	758	
180° + ε	180	0	1,	172	
0 =	+	0,"	586	+ (2) - (5) + (6) - (10) + (11)	

III. *Trunz-Talpitten-Brosowken.*

Trunz	55°	12'	24,"	511	- (11)
Talpitten	81	9	28,	196	+ (5)
Brosowken	43	38	9,	813	+ (14) - (13)
Summe	180	0	2,	520	
180° + ε	180	0	2,	014	
0 =	+	0,"	506	+ (5) - (11) - (13) + (14)	

VI. §. 81. *Bedingungsgleichungen.*

IV. *Trunz-Brosowken-Stegen.*

Trunz		82° 23' 48,"127 + (9)
Brosowken		42 32 41, 218 + (13) - (12)
Stegen		55 3 34, 862 + (16)
Summe		180 0 4, 207
180° + ε		180 0 2, 871
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0 =		+ 1,"336 + (9) - (12) + (13) + (16)

V. *Talpitten-Trunz-Stegen.*

Talpitten		23° 2' 34,"362 + (5) - (4)
Trunz		137 36 12, 638 + (9) - (11)
Stegen		19 21 16, 018 + (15)
Summe		180 0 3, 018
180° + ε		180 0 1, 364
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0 =		+ 1,"654 - (4) + (5) + (9) - (11) + (15)

VI. *Trunz-Talpitten-Brosowken-Stegen.*

Bedingung 1 = $\frac{\sin Tz B T^n \cdot \sin B S Tz \cdot \sin S T^n Tz}{\sin B T^n Tz \cdot \sin S B Tz \cdot \sin T^n S Tz}$

$Tz B T^n = 43^\circ 38' 9,"813 + (14) - (13)$	$B T^n Tz = 81^\circ 9' 28,"196 + (5)$
$B S Tz = 55 3 34, 862 + (16)$	$S B Tz = 42 32 41, 218 + (13) - (12)$
$S T^n Tz = 23 2 34, 362 + (5) - (4)$	$T^n S Tz = 19 21 16, 018 + (15)$
9,8388963 , 9 + 1,0488{(14) - (13)}	9,9948077 , 0 + 0,1556 (5)
9,9136809 , 5 + 0,6987 (16)	9,8300534 , 9 + 1,0896{(13) - (12)}
9,5926428 , 9 + 2,3510{(5) - (4)}	9,5203671 , 5 + 2,8469 (15)
<hr/>	<hr/>
9,3452202 , 3	9,3452283 , 4
9,3452283 , 4	
9,9999918 , 9 + 0,9999813	
- 1,.....	
- 0,0000187	Log 5,27184 n
	Log $\frac{1}{\sin 1''}$ 5,31443
	<hr/>
	0,58627 n - 3,857

0 = - 3,857 - 2,3510 (4) + 2,1954 (5) + 1,0896 (12) - 2,1384 (13) + 1,0488 (14) - 2,8469 (15) + 0,6987 (16)

VII. *Stegen-Brosowken-Buschkau.*

Stegen		82° 12' 44,"739 + (17) - (16)
Brosowken		51 22 37, 166 + (12)
Buschkau		46 24 43, 164 + (23) - (21)
Summe		180 0 5, 069
180° + ε		180 0 5, 488
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0 =		- 0,"419 + (12) - (16) + (17) - (21) + (23)

VIII. *Trunz-Buschkau-Stegen.*

Trunz		26° 23' 52,682 + (9) - (7)
Buschkau		16 19 50,034 + (22) - (21)
Stegen		137 16 19,601 + (17)
Summe		180 0 2,317
180° + ε		180 0 2,563
0 =		- 0,246 - (7) + (9) + (17) - (21) + (22)

IX. *Trunz-Brosowken-Buschkau-Stegen.*

Bedingung 1 = $\frac{\sin B^n B^u T \cdot \sin B^u S B^n \cdot \sin S T B^n}{\sin B^u T B^n \cdot \sin S B^u B^n \cdot \sin B^n S T}$

$B^n B^u T = 30^\circ 4' 53,130 + (23) - (22)$	$B^u T B^n = 55^\circ 59' 55,445 + (7)$
$B^u S B^n = 82 12 44,739 + (17) - (16)$	$S B^u B^n = 46 24 43,164 + (23) - (21)$
$S T B^n = 82 23 48,127 + (9)$	$B^n S T = 55 3 34,862 + (16)$
9,7000372 , 6 + 1,7264{(23) - (22)}	9,9185677 , 3 + 0,6745 (7)
9,9959760 , 3 + 0,1368{(17) - (16)}	9,8599281 , 6 + 0,9519{(23) - (21)}
9,9961647 , 8 + 0,1335 (9)	9,9136809 , 5 + 0,6987 (16)
<u>9,6921780 , 7</u>	<u>9,6921768 , 4</u>
9,6921768 , 4	
0,0000012 , 3 + 1,0000028	
- 1,.....	
+ 0,0000028 Log 4,44715	
5,31443	
9,76158 + 0,578	

0 = + 0,578 - 0,6745 (7) + 0,1335 (9) - 0,8355 (16) + 0,1368 (17) + 0,9519 (21) - 1,7264 (22) + 0,7745 (23)

X. *Trunz-Buschkau-Dohnasberg.*

Trunz		21° 21' 6,070 + (8) - (7)
Buschkau		84 20 11,975 + (22) - (20)
Dohnasberg		74 18 48,012 + (25) - (24)
Summe		180 0 6,057
180° + ε		180 0 5,236
0 =		+ 0,821 - 7 + (8) - (20) + (22) - (24) + (25)

XI. *Stegen-Buschkau-Dohnasberg.*

Stegen		34° 19' 18,877 + (18) - (17)
Buschkau		68 0 21,941 + (21) - (20)
Dohnasberg		77 40 22,885 + (25)
Summe		180 0 3,703
180° + ε		180 0 3,197
0 =		+ 0,506 - (17) + (18) - (20) + (21) + (25)

XII. Trunz-Buschkau-Dohnasberg-Stegen.

$$\text{Bedingung 1} = \frac{\sin BDT \cdot \sin BSD \cdot \sin STB}{\sin BTD \cdot \sin BDS \cdot \sin BST}$$

$$\begin{array}{l} BDT = 74^\circ 18' 48,012 + (25) - (24) \\ BSD = 34 19 18,877 + (18) - (17) \\ STB = 26 23 52,682 + (9) - (7) \end{array} \quad \begin{array}{l} BTD = 21^\circ 21' 6,070 + (8) - (7) \\ BDS = 77 40 22,885 + (25) \\ BST = 137 16 19,601 + (17) \end{array}$$

$$\begin{array}{l} 9,9835156, 3 + 0,2808 \{(25) - (24)\} \\ 9,7511573, 4 + 1,4647 \{(18) - (17)\} \\ 9,6479727, 7 + 2,0147 \{(9) - (7)\} \end{array} \quad \begin{array}{l} 9,5612106, 2 + 2,5580 \{(8) - (7)\} \\ 9,9898702, 3 + 0,2185 (25) \\ 9,8315609, 1 - 1,0826 (17) \\ \hline 9,3826417, 6 \end{array}$$

$$\begin{array}{l} 9,3826457, 4 \\ 9,3826417, 6 \\ \hline 0,0000039, 8 \dots + 1,0000092 \\ - 1, \dots \dots \dots \\ + 0,0000092 \dots \text{Log } 4,96378 \end{array}$$

$$\begin{array}{l} 5,31443 \\ \hline 0,27821 \dots + 1,898 \end{array}$$

$$0 = + 1,898 + 0,5433 (7) - 2,5580 (8) + 2,0147 (9) - 0,3821 (17) + 1,4647 (18) - 0,2808 (24) + 0,0623 (25)$$

XIII. Buschkau-Dohnasberg-Schönwalder Hütte.

$$\begin{array}{l} \text{Buschkau} \dots \dots \dots | 26^\circ 6' 38,303 + (20) - (19) \\ \text{Dohnasberg} \dots \dots | 86 22 5,903 + (27) - (25) \\ \text{Schönwalder Hütte} | 67 31 16,015 + (28) \end{array}$$

$$\begin{array}{l} \text{Summe} \dots \dots | 180 0 0,221 \\ 180^\circ + \varepsilon \dots \dots | 180 0 0,946 \end{array}$$

$$0 = | - 0,725 - (19) + (20) - (25) + (27) + (28)$$

XIV. Buschkau-Schönwalder Hütte-Thurmberg.

$$\begin{array}{l} \text{Buschkau} \dots \dots \dots | 66^\circ 57' 39,935 + (19) \\ \text{Schönwalder Hütte} | 35 15 50,480 + (29) - (28) \\ \text{Thurmberg} \dots \dots | 77 46 31,365 + (34) - (32) \end{array}$$

$$\begin{array}{l} \text{Summe} \dots \dots | 180 0 1,780 \\ 180^\circ + \varepsilon \dots \dots | 180 0 1,262 \end{array}$$

$$0 = | + 0,518 + (19) - (28) + (29) - (32) + (34)$$

XV. Buschkau-Dohnasberg-Thurmberg.

$$\begin{array}{l} \text{Buschkau} \dots \dots \dots | 93^\circ 4' 18,238 + (20) \\ \text{Dohnasberg} \dots \dots | 31 38 6,647 + (26) - (25) \\ \text{Thurmberg} \dots \dots | 55 17 36,069 + (34) - (33) \end{array}$$

$$\begin{array}{l} \text{Summe} \dots \dots | 180 0 0,954 \\ 180^\circ + \varepsilon \dots \dots | 180 0 1,268 \end{array}$$

$$0 = | - 0,314 + (20) - (25) + (26) - (33) + (34)$$

XVI. Buschkau-Dohnasberg-Schönwalder Hütte-Thurmberg.

$$\text{Bedingung 1} = \frac{\sin BSD \cdot \sin STB \cdot \sin TDB}{\sin BDS \cdot \sin TSB \cdot \sin BTD}$$

<i>BSD</i> = 67° 31' 16,015 + (28)	<i>BDS</i> = 86° 22' 5,903 + (27) - (25)
<i>STB</i> = 77 46 31,365 + (34) - (32)	<i>TSB</i> = 35 15 50,480 + (29) - (28)
<i>TDB</i> = 31 38 6,647 + (26) - (25)	<i>BTD</i> = 55 17 36,069 + (34) - (33)
9,9656816 , 3 + 0,4138 (28)	9,9991269 , 7 + 0,0635 { (27) - (25) }
9,9900390 , 1 + 0,2167 { (34) - (32) }	9,7614354 , 3 + 1,4142 { (29) - (28) }
9,7197527 , 3 + 1,6232 { (26) - (25) }	9,9149130 , 6 + 0,6926 { (34) - (33) }
<u>9,6754733 , 7</u>	<u>9,6754754 , 6</u>
9,6754754 , 6	
9,9999979 , 1 + 0,9999951	
- 1,.....	
- 0,0000049 Log 4,69019 <i>n</i>	
	5,31443
	0,00462 <i>n</i> - 1,011

$$0 = - 1,011 - 1,5597 (25) + 1,6232 (26) - 0,0635 (27) + 1,8280 (28) - 1,4142 (29) - 0,2167 (32) + 0,6926 (33) - 0,4759 (34)$$

XVII. Boschpol-Schönwalder Hütte-Thurmberg.

Boschpol	47° 22' 27,829 + (37)
Schönwalder Hütte	100 0 4,374 + (30) - (29)
Thurmberg	32 37 28,306 + (32) - (31)
Summe	180 0 0,509
180° + ε	180 0 1,485
0 =	- 0,976 - (29) + (30) - (31) + (32) + (37)

XVIII. Kistowo-Thurmberg-Boschpol.

Kistowo	79° 38' 9,957 + (36) - (35)
Thurmberg	61 57 46,787 + (31)
Boschpol	38 24 4,729 + (38) - (37)
Summe	180 0 1,473
180° + ε	180 0 2,055
0 =	- 0,582 + (31) - (35) + (36) - (37) + (38)

XIX. Muttrin-Boschpol-Kistowo.

Muttrin	48° 29' 45,979 + (44) - (43)
Boschpol	38 59 34,596 + (39) - (38)
Kistowo	92 30 41,207 + (35)
Summe	180 0 1,782
180° + ε	180 0 2,491
0 =	- 0,709 + (35) - (38) + (39) - (43) + (44)

XX. Revekol-Muttrin-Boschpol.

Revekol	63° 12'	38,484 + (45)	
Muttrin	70 57	38,622 + (43) - (42)	
Boschpol	45 49	45,917 + (40) - (39)	
Summe	180 0	3,023	
$180^\circ + \varepsilon$	180 0	4,012	
0 =	 - 0,989	- (39) + (40) - (42) + (43) + (45)	

XXI. Pigow-Revekol-Muttrin.

Pigow	40° 51'	55,141 + (48)	
Revekol	78 38	31,164 + (47) - (45)	
Muttrin	60 29	38,300 + (42) - (41)	
Summe	180 0	4,605	
$180^\circ + \varepsilon$	180 0	4,447	
0 =	 + 0,158	- (41) + (42) - (45) + (47) + (48)	

XXII. Barenberg-Muttrin-Revekol.

Barenberg	29° 27'	27,795 + (55) - (54)	
Muttrin	112 33	13,434 + (42)	
Revekol	37 59	23,673 + (46) - (45)	
Summe	180 0	4,902	
$180^\circ + \varepsilon$	180 0	3,942	
0 =	 + 0,960	+ (42) - (45) + (46) - (54) + (55)	

XXIII. Barenberg-Pigow-Muttrin.

Barenberg	74° 23'	6,598 + (55) - (53)	
Pigow	53 33	24,814 + (49) - (48)	
Muttrin	52 3	35,134 + (41)	
Summe	180 0	6,546	
$180^\circ + \varepsilon$	180 0	5,045	
0 =	 + 1,501	+ (41) - (48) + (49) - (53) + (55)	

XXIV. Revekol-Muttrin-Barenberg-Pigow.

Bedingung 1 = $\frac{\sin RPM \cdot \sin PBM \cdot \sin BRM}{\sin PRM \cdot \sin BPM \cdot \sin RBM}$

$RPM = 40^\circ 51' 55,141 + (48)$	$PRM = 78^\circ 38' 31,164 + (47) - (45)$
$PBM = 74 23 6,598 + (55) - (53)$	$BPM = 53 33 24,814 + (49) - (48)$
$BRM = 37 59 23,673 + (46) - (45)$	$RBM = 29 27 27,795 + (55) - (54)$

$ \begin{array}{r} 9,8157657, 4 + 1,1558 (48) \\ 9,9836681, 9 + 0,2795 \{(55) - (53)\} \\ 9,7892440, 8 + 1,2804 \{(46) - (45)\} \\ \hline 9,5886780, 1 \\ 9,5886796, 8 \\ 9,9999983, 3 \dots + 0,9999961 \\ \hline - 1, \dots \dots \\ - 0,0000039 \dots \text{Log } 4,59106 n \\ \hline 5,31443 \end{array} $	$ \begin{array}{r} 9,9914102, 9 + 0,2009 \{(47) - (45)\} \\ 9,9054975, 1 + 0,7384 \{(49) - (48)\} \\ 9,6917718, 8 + 1,7705 \{(55) - (54)\} \\ \hline 9,5886796, 8 \\ \hline 9,90549 n \dots - 0,804 \end{array} $
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$$0 = - 0,804 - 1,0795 (45) + 1,2804 (46) - 0,2009 (47) + 1,8942 (48) - 0,7384 (49) - 0,2795 (53) + 1,7705 (54) - 1,4910 (55)$$

XXV. Gollenberg-Pigow-Barenberg.

$ \begin{array}{l} \text{Gollenberg} \dots \\ \text{Pigow} \dots \\ \text{Barenberg} \dots \\ \hline \text{Summe} \dots \\ 180^\circ + \varepsilon \dots \\ \hline 0 = - 0,0007 - (49) + (50) + (53) - (57) + (58) \end{array} $	$ \begin{array}{r} 76^\circ 43' 32,532 + (58) - (57) \\ 53 23 21,053 + (50) - (49) \\ 49 53 9,647 + (53) \\ \hline 180 0 3,232 \\ 180 0 3,239 \end{array} $
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XXVI. Pigow-Barenberg-Zitzow-Gollenberg.

$$\text{Bedingung} \dots 1 = \frac{\sin PZB \cdot \sin ZGB \cdot \sin GPB}{\sin ZPB \cdot \sin GZB \cdot \sin PGB}$$

$PZB = 87^\circ 37' 31,191 + (49) - (51) + (52) - (53)$	$ZPB = 83^\circ 47' 4,384 + (51) - (49)$
$ZGB = 83 17 41,512 + (58)$	$GZB = 55 24 36,810 - (52) - (58)$
$GPB = 53 23 21,053 + (50) - (49)$	$PGB = 76 43 32,532 + (58) - (57)$

$ \begin{array}{r} 9,9996269, 1 + 0,0415 \{(49) - (51) + (52) - (53)\} \\ 9,9970192, 8 + 0,1176 (58) \\ 9,9045559, 4 + 0,7430 \{(50) - (49)\} \\ 9,9012021, 3 \\ 9,9012035, 5 \\ 9,9999985, 8 \dots + 0,9999966 \\ \hline - 1, \dots \dots \\ - 0,0000034 \dots \text{Log } 4,53147 n \\ \hline 5,31443 \end{array} $	$ \begin{array}{r} 9,9974396, 1 + 0,1089 \{(51) - (49)\} \\ 9,9155252, 7 + 0,6896 \{(52) - (58)\} \\ 9,9882386, 7 + 0,2359 \{(58) - (57)\} \\ 9,9012035, 5 \\ \hline 9,84590 n \dots - 0,701 \end{array} $
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$$0 = - 0,701 - 0,5926 (49) + 0,7430 (50) - 0,1504 (51) + 0,7311 (52) - 0,0415 (53) + 0,2359 (57) + 0,5713 (58)$$

XXVII. Klorberg-Gollenberg-Barenberg.

Klorberg		31° 18' 55,"736 + (64) - (63)
Gollenberg		106 59 36,220 + (59) - (58)
Barenberg		41 41 32,334 - (56)
Summe		180 0 4,290
180° + ε		180 0 4,274
0 =		+ 0,"016 - (56) - (58) + (59) - (63) + (64)

XXVIII. Colberg-Gollenberg-Klorberg.

Colberg		72° 1' 50,"529 + (65)
Gollenberg		49 7 32,381 + (60) - (59)
Klorberg		58 50 42,281 + (63) - (62)
Summe		180 0 5,191
180° + ε		180 0 3,891
0 =		+ 1,"300 - (59) + (60) - (62) + (63) + (65)

XXIX. Barenberg-Zitzow-Colberg-Klorberg-Gollenberg.

$$\text{Bedingung} \dots 1 = \frac{\sin BZG \cdot \sin ZCG \cdot \sin CKG \cdot \sin KBG}{\sin ZBG \cdot \sin CZG \cdot \sin KCG \cdot \sin BKG}$$

<i>BZG</i> = 55° 24' 36,"810 - (52) - (58)	<i>ZBG</i> = 41° 17' 44,"459 + (52)
<i>ZCG</i> = 23 52 31,835 - (67)	<i>CZG</i> = 35 32 21,053 + (60) + (67)
<i>CKG</i> = 58 50 42,281 + (63) - (62)	<i>KCG</i> = 72 1 50,529 + (65)
<i>KBG</i> = 41 41 32,334 - (56)	<i>BKG</i> = 31 18 55,736 + (64) - (63)

9,9155252 , 7 + 0,6896 { - (52) - (58) }	9,8195078 , 0 + 1,1384 (52)
9,6071876 , 3 + 2,2592 . - (67)	9,7643701 , 1 + 1,3999 { (60) + (67) }
9,9323578 , 2 + 0,6045 { (63) - (62) }	9,9782818 , 6 + 0,3243 (65)
9,8229067 , 1 + 1,1227 . - (56)	9,7157944 , 5 + 1,6437 { (64) - (63) }
<u>9,2779774 , 3</u>	<u>9,2779542 , 2</u>
<u>9,2779542 , 2</u>	
0,0000232 , 1 + 1,0000534 , 6	
- 1,	
<u>+ 0,0000534 , 6</u> Log 5,72803	
	5,31443
	<u>1,04246 + 11,027</u>

$$0 = + 11,027 - 1,8280 (52) - 1,1227 (56) - 0,6896 (58) - 1,3999 (60) - 0,6045 (62) + 2,2482 (63) - 1,6437 (64) - 0,3243 (65) - 3,6591 (67)$$

XXX. Sprengelsberg-Colberg-Klorberg.

Sprengelsberg . . .	51° 12'	44,619 + (68)			
Colberg	69 5	45,342 + (66) - (65)			
Klorberg	59 41	33,324 + (62) - (61)			
Summe	180 0	3,285			
180° + ε	180 0	3,740			
		0 = - 0,455 - (61) + (62) - (65) + (66) + (68)			

XXXI. Kleistberg-Sprengelsberg-Klorberg.

Kleistberg	51° 21'	6,323 + (75) - (74)			
Sprengelsberg . . .	56 3	45,797 + (69) - (68)			
Klorberg	72 35	12,945 + (61)			
Summe	180 0	5,065			
180° + ε	180 0	5,263			
		0 = - 0,198 + (61) - (68) + (69) - (74) + (75)			

XXXII. Vogelsang-Sprengelsberg-Kleistberg.

Vogelsang	52° 49'	30,981 + (78) - (77)			
Sprengelsberg . . .	66 37	33,090 + (70) - (69)			
Kleistberg	60 33	3,421 + (74) - (73)			
Summe	180 0	7,492			
180° + ε	180 0	7,774			
		0 = - 0,282 - (69) + (70) - (73) + (74) - (77) + (78)			

XXXIII. Lebin-Sprengelsberg-Vogelsang.

Lebin	88° 7'	31,858 + (82)			
Sprengelsberg . . .	44 5	15,995 + (71) - (70)			
Vogelsang	47 47	16,076 + (77) - (76)			
Summe	180 0	3,929			
180° + ε	180 0	4,772			
		0 = - 0,843 - (70) + (71) - (76) + (77) + (82)			

XXXIV. Anklam-Lebin-Vogelsang.

Anklam	37° 30'	40,853 + (87) - (86)			
Lebin	97 6	1,246 + (83) - (82)			
Vogelsang	45 23	21,884 + (76)			
Summe	180 0	3,983			
180° + ε	180 0	5,204			
		0 = - 1,221 + (76) - (82) + (83) - (86) + (87)			

VI. §. 81. *Bedingungsgleichungen.***XXXV. Streckelsberg-Lebin-Anklam.**

Streckelsberg . . .		98° 13' 20,"975 + (88)
Lebin		37 57 58,678 + (84) - (83)
Anklam		43 48 42,221 + (86) - (85)
Summe		180 0 1,874
180° + ε		180 0 2,638
0 =		- 0,"764 - (83) + (84) - (85) + (86) + (88)

XXXVI. Greifswald-Streckelsberg-Anklam.

Greifswald		46° 7' 29,"335 + (95) - (94)
Streckelsberg . . .		52 16 32,879 + (89) - (88)
Anklam		81 35 59,146 + (85)
Summe		180 0 1,360
180° + ε		180 0 2,571
0 =		- 1,"211 + (85) - (88) + (89) - (94) + (95)

XXXVII. Rugard-Streckelsberg-Greifswald.

Rugard		49° 19' 4,"747 + (99) - (98)
Streckelsberg . . .		41 20 20,089 + (90) - (89)
Greifswald		89 20 37,426 + (94) - (92)
Summe		180 0 2,262
180° + ε		180 0 3,885
0 =		- 1,"623 - (89) + (90) - (92) + (94) - (98) + (99)

XXXVIII. Promoisel-Streckelsberg-Greifswald.

Promoisel.		42° 52' 1,"046 + (100)
Streckelsberg . . .		56 50 29,415 + (91) - (89)
Greifswald		80 17 33,090 + (94) - (93)
Summe		180 0 3,551
180° + ε		180 0 5,411
0 =		- 1,"860 - (89) + (91) - (93) + (94) + (100)

XXXIX. Rugard-Promoisel-Greifswald.

Rugard		150° 39' 1,"131 + (99) - (97)
Promoisel.		20 17 55,474 + (101) - (100)
Greifswald		9 3 4,336 + (93) - (92)
Summe.		180 0 0,941
180° + ε		180 0 0,752
0 =		+ 0,"189 - (92) + (93) - (97) + (99) - (100) + (101)

XL. Rugard-Promoisel-Streckelsberg-Greifswald.

$$\text{Bedingung 1} = \frac{\sin SPG \cdot \sin PRG \cdot \sin RSG}{\sin PSG \cdot \sin RPG \cdot \sin SRG}$$

<p><i>SPG</i> = 42° 52' 1,4046 + (100)</p> <p><i>PRG</i> = 150 39 1,131 + (99) - (97)</p> <p><i>RSG</i> = 41 20 20,089 + (90) - (89)</p> <p>9,8326993 , 7 + 1,0774 (100)</p> <p>9,6903188 , 6 - 1,7784 { (99) - (97) }</p> <p>9,8198805 , 1 + 1,1367 { (90) - (89) }</p> <p><u>9,3428987 , 4</u></p> <p><u>9,3428954 , 3</u></p> <p>0,0000033 , 1 + 1,0000076 , 2</p> <p style="padding-left: 20px;">- 1,..... .</p> <p style="padding-left: 20px;"><u>+ 0,0000076 , 2 Log 4,88196</u></p> <p style="padding-left: 40px;"><u>5,31443</u></p> <p style="padding-left: 40px;">0,19639 + 1,572</p>	<p><i>PSG</i> = 56° 50' 29,415 + (91) - (89)</p> <p><i>RPG</i> = 20 17 55,474 + (101) - (100)</p> <p><i>SRG</i> = 49 19 4,747 + (99) - (98)</p> <p>9,9228088 , 9 + 0,6533 { (91) - (89) }</p> <p>9,5402231 , 5 + 2,7035 { (101) - (100) }</p> <p><u>9,8798633 , 9 + 0,8596 { (99) - (98) }</u></p> <p><u>9,3428954 , 3</u></p>
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$$0 = + 1,572 - 0,4834 (89) + 1,1367 (90) - 0,6533 (91) + 1,7784 (97) + 0,8596 (98) - 2,6380 (99) + 3,7809 (100) - 2,7035 (101)$$

XLI. Stralsund-Rugard-Greifswald.

Stralsund	79° 54'	22,399 + (113) - (112)
Rugard	55 4	11,797 - (99)
Greifswald	45 1 29,542	+ (92)
Summe	180 0 3,738	
180° + ε	180 0 1,993	
$0 = + 1,745 + (92) - (99) - (112) + (113)$		

XLII. Stralsund-Promoisel-Rugard.

Stralsund	9° 54'	14,016 + (112) - (111)
Promoisel	15 48 58,676	+ (102) - (101)
Rugard	154 16 47,072	+ (97)
Summe	180 0 59,764	
180° + ε	180 0 0,478	
$0 = - 0,714 + (97) - (101) + (102) - (111) + (112)$		

XLIII. Stralsund-Promoisel-Rugard-Greifswald.

$$\text{Bedingung 1} = \frac{\sin GPR \cdot \sin PSR \cdot \sin SGR}{\sin PGR \cdot \sin SPR \cdot \sin GSR}$$

<p><i>GPR</i> = 20° 17' 55,474 + (101) - (100)</p> <p><i>PSR</i> = 9 54 14,016 + (112) - (111)</p> <p><i>SGR</i> = 45 1 29,542 + (92)</p>	<p><i>PGR</i> = 9° 3' 4,336 + (93) - (92)</p> <p><i>SPR</i> = 15 48 58,676 + (102) - (101)</p> <p><i>GSR</i> = 79 54 22,399 + (113) - (112)</p>
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$ \begin{array}{r} 9,5402231, 5 + 2,7035 \{ (101) - (100) \} \\ 9,2355184, 3 + 5,7274 \{ (112) - (111) \} \\ 9,8496734, 4 + 0,9991 (92) \\ \hline 8,6254150, 2 \\ 8,6254538, 5 \\ 9,9999611, 7 \dots 0,9999106 \\ \quad - 1, \dots \dots \\ \quad - 0,0000894 \dots 5,95133n \\ \quad \quad \quad 5,31443 \\ \quad \quad \quad \hline \quad \quad \quad 1,26576n \dots - 18,440 \end{array} $	$ \begin{array}{r} 9,1967758, 8 + 6,2774 \{ (93) - (92) \} \\ 9,4354524, 6 + 3,5301 \{ (102) - (101) \} \\ 9,9932255, 1 + 0,1780 \{ (113) - (112) \} \\ \hline 8,6254538, 5 \end{array} $
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$$0 = -18,440 + 7,2765 (92) - 6,2774 (93) - 2,7035 (100) + 6,2336 (101) - 3,5301 (102) - 5,7274 (111) + 5,9054 (112) - 0,1780 (113)$$

XLIV. Hiddensoe-Rugard-Stralsund.

Hiddensoe	50° 45'	37,578 + (107) - (106)
Rugard	71 0	16,226 + (96)
Stralsund	58 14	8,157 + (112) - (110)
Summe	180 0	1,961
180° + ε	180 0	1,813
$0 = + 0,148 + (96) - (106) + (107) - (110) + (112)$		

XLV. Promoisel-Stralsund-Hiddensoe.

Promoisel	49° 26'	9,227 + (103) - (102)
Stralsund	48 19	54,141 + (111) - (110)
Hiddensoe	82 13	58,085 + (107) - (105)
Summe	180 0	1,453
180° + ε	180 0	2,537
$0 = - 1,084 - (102) + (103) - (105) + (107) - (110) + (111)$		

XLVI. Streckelsberg - Promoisel - Hiddensoe - Stralsund - Greifswald - Rugard.

$$\text{Bedingung } \dots 1 = \frac{\sin G S_G R \cdot \sin S_G P R \cdot \sin P H R \cdot \sin H S^d R \cdot \sin S^d G R}{\sin S_G G R \cdot \sin P S_G R \cdot \sin H P R \cdot \sin S^d H R \cdot \sin G S^d R}$$

$ \begin{array}{l} G S_G R \ 41^\circ \ 20' \ 20,089 + (90) - (89) \\ S_G P R \ 63 \ 9 \ 56,520 + (101) \\ P H R \ 31 \ 28 \ 20,507 + (106) - (105) \\ H S^d R \ 58 \ 14 \ 8,157 + (112) - (110) \\ S^d G R \ 45 \ 1 \ 29,542 + (92) \end{array} $	$ \begin{array}{l} S_G G R \ 89^\circ \ 20' \ 37,426 + (94) - (92) \\ P S_G R \ 15 \ 30 \ 9,326 + (91) - (90) \\ H P R \ 65 \ 15 \ 7,903 + (103) - (101) \\ S^d H R \ 50 \ 45 \ 37,578 + (107) - (106) \\ G S^d R \ 79 \ 54 \ 22,399 + (113) - (112) \end{array} $
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$9,8198805, 1 + 1,1367 \{ (90) - (89) \}$ $9,9505185, 8 + 0,5059 (101)$ $9,7177430, 4 + 1,6336 \{ (106) - (105) \}$ $9,9295313, 0 + 0,6192 \{ (112) - (110) \}$ $9,8496734, 4 + 0,9991 (92)$ $\underline{9,2673468, 7}$ $9,2673544, 1$ $9,9999924, 6 \dots 0,9999827$ $- 1, \dots \dots$ $\underline{- 0,0000173 \dots 5,23804n}$ $5,31443$ $\underline{0,55247n \dots - 3,568}$	$9,9999715, 2 + 0,0115 \{ (94) - (92) \}$ $9,4269695, 8 + 3,6053 \{ (91) - (90) \}$ $9,9581619, 7 + 0,4610 \{ (103) - (101) \}$ $9,8890258, 3 + 0,8167 \{ (107) - (106) \}$ $\underline{9,9932255, 1 + 0,1780 \{ (113) - (112) \}}$ $9,2673544, 1$
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$$0 = - 3,568 - 1,1367 (89) + 4,7420 (90) - 3,6053 (91) + 1,0106 (92) - 0,0115 (94) + 0,9669 (101) - 0,4610 (103) - 1,6336 (105) + 2,4503 (106) - 0,8167 (107) - 0,6192 (110) + 0,7972 (112) - 0,1780 (113)$$

XLVII. *Darser Ort-Hiddensoe-Stralsund.*

Darser Ort	45°	5'	13,"	133	+ (117) - (116)
Hiddensoe	67	56	31,	520	+ (108) - (107)
Stralsund	66	58	17,	935	+ (110)
Summe	180	0	2,	588	
180° + ε . . .	180	0	3,	136	
$0 = - 0,548 - (107) + (108) + (110) - (116) + (117)$					