48. Über die Jahresschwankung der Erdbebenhäufigkeit in Japan.

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1. Einleitung. Das Problem der Jahresperiodizität der Erdbeben-
häufigkeit ist ganz übersichtlich von V. Conrad3) zusammengefasst.
Früher untersuchte F. Omori2) die jährliche Bebenhäufigkeitsschwank-
kung in Japan. Nach ihm wurde Japan in zwei Gruppen Gebiete
geteilt, nämlich in der einen fällt das Häufigkeitsmaximum im Winter
und in der anderen im Sommer. Wir wollen hier ähnliche Untersuch-
ung wiederholen wegen den folgenden Gründen; erstens war das Beo-
bachtungsmaterial zu seiner Zeit sicher mangelhafter als heute, zweitens
lief seine Statistik über die Zahl der gefühlten Beben in dem be-
treffenden Ort und nicht die Zahl der Epizentren, nämlich wurde ein
und dasselbe Beben manchmal mehrmals gezählt, drittens wollen wir
die verfeinerte Methode der Statistik anwenden, um etwas sicheres
sehen zu können.

2. Zusammenordnung der Beobachtungsmaterialien. Seit 1926 sind
alle instrumentell bestimmten Epizentren in Japan in “Kisyō Yōran”
publiziert. Hier ist ganzes Japan in viereckige Gebiete von ein gradi-
gen Längen und Breiten eingeteilt und die Zahl der Epizentren in jedem
Gebiete ist monatlich zusammengefasst. Die Statistik läuft vom Anfang
1926 bis zum Ende 1935 also 10 Jahre. Die zehnjährige Bebenhäufig-
keit in jedem viereckigen Gebiet ist in Fig. 1 gezeigt.

Die Methode der Analyse ist ganz ähnlich wie der, die einer3) von
uns zur Analyse einiger Nachbeben einmal angewandt hat. Namlich
ist die Bebenzahl jährlich harmonisch analysiert und die Vektoren in
der harmonischen Uhr sind mit Hilfe der Theorie von “Random Walk”
diskutiert.

2) F. Omori, Rep Imp. Earthq. Invest. Commit., 30 (1900); Publ. Earthq. In-
Das ganze Verfahren ist in den folgenden Tabellen (Tabelle 1-69) ersichtlich.

3. Zusammenfassende Bemerkungen. Fig. 2 zeigt die Verteilung der gemittelten Vektoren, deren zugefügte Ziffer die Wahrscheinlichkeit \((1 - W_r)\) als Realität bedeutet.

Es gibt 6 Gebiete, die sich durch den 0·94 überschreitenden Wert der Wahrscheinlichkeit \((1 - W_r)\) auszeichnen, nämlich \((24^\circ \text{ N}, 120^\circ \text{ E})\) mit 0,953, \((28^\circ \text{ N}, 129^\circ \text{ E})\) mit 0,999, \((30^\circ \text{ N}, 130^\circ \text{ E})\) mit 0,982, \((32^\circ \text{ N}, 130^\circ \text{ E})\) mit 0,942, \((35^\circ \text{ N}, 133^\circ \text{ E})\) mit 0,991 und \((42^\circ \text{ N}, 144^\circ \text{ E})\) mit 0,964.
Es ist eine ganz merkwürdige Tatsache, dass meistens in diesen Gebieten es sich um die Menge lokale Beben aus einem räumlich ganz beschränkten Herdgebiet handelt.

Die jahreszeitliche Bebenhäufigkeitsschwankung ändert sich von Ort zu Ort; folglich je weiteres Gebiet wir in Rechnung zusammenhaben, desto undeutlicher wird die Charakteristik der Jahresperiodizität.

Es gibt auch manche Gebiete mit grossem jährlichem Wert von \( k \), trotzdem der gemittelte Vektor für 10 Jahre nur kleine Wahrscheinlichkeit als Realität hat, z.B. Tabelle 14, Tabelle 26, Tabelle 28, Tabelle...
33, Tabelle 43 u. s. w. nämlich in diesen Gebieten kommen die Erdbeben ungefähr einmal im Jahre ungeachtet der Jahreszeit merkwürdigerweise häufig vor.

Halbjährige Schwankung der Erdbebenhäufigkeit ist meistens ganz undeutlich, darum haben wir sie nicht tabelliert. Aber es gibt Gebiete, z. B. (35° N, 139° E) Tabelle 33, (27° N, 142° E) Tabelle 60, die ausgezeichnetere Halbjährige Schwankung als einjährige zeigen, obgleich die Wahrscheinlichkeit als Realität nicht genug gross wäre.

Alles zusammenfassend können wir sagen, dass die ganzjährige Frequenzschwankung in manchen Gebieten eine Realität ist, und zwar von einem lokalen Charakter ist. Die letzte Tatsache hat V. Conrad (4) auch bemerkt.

Daher können wir vermuten, dass sich jedes Herdgebiet in irgend einem eigenen dynamischen Zustand befinde, wie schon einer (5) von uns einmal bemerkte.

In den Tabellen bedeutet

\( a_0 \): jährlichen Mittelwert der Erdbebenzahl, d. h. konstantes Glied
in der harmonischen Analyse,
\( a_n, b_n \): harmonische Konstanten der n-ten Ordnung,
\( c_n \): Resultant der n-ten harmonischen Konstanten,
\( \varepsilon \): Erwartung von \( c_n \), d. i. \( \sqrt{\varepsilon} \), wo \( N \) jährliche Bebenzahl ist,
\( \lambda_n \): Erwartung vom gemittelten Vektor der n-ten Ordnung für 10 Jahre.
\( \epsilon c_n \): den gemittelten Vektor der n-ten Ordnung für 10 Jahre.
\( k_n : \epsilon c_n / \lambda_n \)
\( W_n : \) Wahrscheinlichkeit, dass \( \epsilon c_n / \lambda_n \) \( k_n \) übertreffe.

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### Tabelle II.

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\[ t_m = 0.284 \quad r_m = 0.416 \quad R_1 = 1.46 \quad W_1 = 1.19 \]
### Tabelle III.

Gebiet 42° N - 43° N, 145° E - 146° E.

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$\Sigma_1 = 272$  \hspace{0.5cm} $\Sigma_2 = 279$  \hspace{0.5cm} $k_1 = 1.03$  \hspace{0.5cm} $W_1 = 347$
Tabelle IV.
Gebiet 42° N−43° N, 144° E−145° E.

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| Σ    | 23   | 10   | 26   | 31   | 25  | 25   | 29   | 57   | 38    | 22   | 76   | 17   |

| \(a_0\) | 3.83 | -23  | -30  | .143 | .261 | 1.45 |
| \(a_1\) | .92  | -42  | .010 | -370 | .273 | .304 |
| \(b_1\) | .75  | -62  | .452 | -264 | .264 | .255 |
| \(c\)  | 1.92 | -17  | 1.04 | .111 | .370 | 2.85 |
| \(c_0/c\) | 1.58 | -37  | .418 | .277 | 2.34 | 2.19 |
| \(c_1/c\) | 2.00 | -61  | .862 | .362 | 2.57 |
| \(c_2/c\) | 2.17 | -18  | .148 | .348 | 1.10 |
| \(c_3/c\) | 2.33 | -23  | .155 | .325 | 1.21 |

\(\sigma_p = 1.98\)  \(\sigma_m = 3.60\)  \(k_1 = 1.82\)  \(W_1 = 0.365\)
Tabelle V.

Gebiet 42° N~43° N, 143° E~144° E.

<table>
<thead>
<tr>
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<th>Σ</th>
<th>a₀</th>
<th>a₁/a₀</th>
<th>b₁/a₀</th>
<th>c²</th>
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| Σ    | 51   | 41   | 43   | 30   | 44  | 49   | 39   | 41   | 38    | 36   | 28   | 477  | .75  | .80  | 2.494 |

\[ \mu = 158 \quad \sigma = 110 \quad k = 70 \quad W = 613 \]
### Tabelle VI.

Gebiet 42° N ~ 43° N, 142° E ~ 143° E.

| Jahr | Jan. | Feb. | März | April | Mai | Juni | Juli | Aug. | Sept. | Okt. | Nov. | Dez. | Σ   | $a_0$ | $a_1$ | $b_1$ | $c_1^2$ | $z$ | $c_i/z$ |
|------|------|------|------|-------|-----|------|------|------|-------|------|------|-----|-----|-----|-----|------|-----|--------|
| 1926 | 0    | 0    | 0    | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0   | 0   | 0   | 0   | 0     | 1   | 1.021  |
| 27   | 0    | 0    | 3    | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0   | 3   | 0.250 | 0.96 | 1.68  | 3.74 | 1.021  |
| 28   | 0    | 0    | 0    | 1     | 0   | 0    | 0    | 0    | 0     | 1    | 0    | 0   | 2   | 0.167 | 0    | 0     | 1.25 | 0     |
| 29   | 0    | 1    | 0    | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0   | 1   | 0.083 | 1.734| 0.96  | 3.91 | 1.77  | 1.12 |
| 30   | 0    | 0    | 0    | 0     | 1   | 3    | 7    | 6    | 3     | 2    | 4    | 0   | 26  | 2.167 | -0.65| -0.89 | 1.21 | 0.35  | 3.15 |
| 31   | 0    | 255  | 65   | 25    | 20  | 7    | 20   | 13   | 9     | 7    | 4    | 8   | 438 | 35.5 | -0.98| -0.92 | 1.81 | 0.84  | 16.0 |
| 32   | 0    | 0    | 2    | 1     | 1   | 0    | 0    | 0    | 0     | 0    | 159  | 70  | 233 | 19.4 | 1.21 | -1.45 | 3.57 | 1.12  | 15.8 |
| 33   | 2    | 0    | 4    | 2     | 1   | 2    | 0    | 0    | 0     | 0    | 1    | 1   | 19  | 1.584| -0.09| -0.23 | -0.06| 0.41  | 0.59 |
| 34   | 2    | 0    | 0    | 0     | 0   | 1    | 0    | 2    | 1     | 0    | 7    | 0   | 7   | 0.583| -0.24| -0.83 | 0.75 | 0.67  | 1.30 |
| 35   | 3    | 12   | 13   | 7     | 5   | 2    | 4    | 6    | 108   | 22   | 6    | 18  | 206 | 17.18| -0.28| -1.07 | 1.22 | 0.12  | 9.17 |
| Σ    | 11   | 268  | 87   | 36    | 27  | 13   | 27   | 31   | 124   | 36   | 173  | 102 | 935 | 4.10 | -0.45| 16.22|

$\lambda_m = 463 \quad \nu_m = 413 \quad k_1 = 1.025 \quad W_1 = 0.35$
Tabelle VII.

Gebiet 41° N—42° N, 143° E—144° E.

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<th>Monatliche Bebenzahl</th>
<th>Σ</th>
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<th>(a_1)</th>
<th>(b_1)</th>
<th>(e_1)</th>
<th>(\varepsilon)</th>
<th>(c_0/\varepsilon)</th>
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\[λ_m = 0.220 \quad \sigma_m = 0.175 \quad h_1 = 80 \quad W_1 = 0.527\]
Tabelle VIII.

Gebiet 41° N~42° N, 142° E~143° E.

<table>
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<tr>
<th>Jahr</th>
<th>Monatliche Bebenzahl</th>
<th>Σ</th>
<th>( \frac{a_1}{a_0} )</th>
<th>( \frac{b_1}{a_0} )</th>
<th>( c_1^2 )</th>
<th>z</th>
<th>( c_1/z )</th>
</tr>
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<td>-0.26</td>
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\[ \mu_m = 1.04 \quad \sigma_m = 1.177 \quad k_1 = 1.69 \quad W_1 = -971 \]
Tabelle IX.
Gebiet 41° N ~42° N, 141° E ~142° E.

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<th>( a_1 )</th>
<th>( b_1 )</th>
<th>( c_1^2 )</th>
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| Σ    | 7 | 10 | 6 | 8 | 10 | 16 | 11 | 13 | 11 | 16 | 10 | 128 | 0.01 | 1.49 | 6.455 |

\( l_m = 0.254 \quad i_m = 0.149 \quad k_1 = 0.59 \quad W_1 = 0.706 \)
### Tabelle X.

**Gebiet 41° N ~ 42° N, 140° E ~ 141° E.**

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\[ \lambda_n = 0.278 \]

\[ \text{R}_{\text{m}} = 0.307 \]

\[ k_1 = 1.10 \]

\[ W_1 = 0.298 \]
Tabelle XI.

Gebiet 40° N ~ 41° N, 142° E ~ 143° E.

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\[ \Sigma \]

\[
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\end{array}
\]

\[ l_m = 0.437 \quad s_m = -0.204 \quad k_1 = 0.47 \quad W_1 = 0.802 \]
### Tabelle XII.

Gebiet 40° N ~ 41° N, 141° E ~ 142° E.

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$\lambda_m = .258 \quad \sigma_m = .209 \quad k_1 = .81 \quad W_1 = .519$
### Tabelle XIII.

**Gebiet 39° N ~ 41° N, 143° E ~ 145° E.**

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$L_m = 0.577 \quad \sigma_m = 0.6803 \quad k_1 = 1.18 \quad W_1 = 2.49$
### Tabelle XIV.

Gebiet 39° N−40° N, 142° E−143° E.

| Jahr | Jan. | Feb. | März | April | Mai | Juni | Juli | Aug. | Sept. | Okt. | Nov. | Dez. | \( \Sigma \) | \( a_0 \) | \( \frac{a_1}{a_0} \) | \( \frac{b_1}{a_0} \) | \( c_1 \) | \( \varepsilon \) | \( c_1/\varepsilon \) |
|------|------|------|------|-------|-----|------|------|------|-------|------|------|------|-------|-------|----------------|----------------|----------------|---------------|-------|----------------|----------------|
| 1926 | 5    | 5    | 1    | 0     | 8   | 7    | 9    | 5    | 8     | 4    | 1    | 4    | 7     | 60    | 5·00        | -·32           | -·12           | ·116      | ·229          | 1·49             |
| 27   | 3    | 2    | 9    | 8     | 5   | 0    | 0    | 6    | 4     | 4    | 4    | 4    | 1     | 46    | 3·83        | 1·04           | -·29           | 1·165     | ·261          | 4·14             |
| 28   | 1    | 2    | 0    | 1     | 71   | 61   | 5    | 11   | 10    | 2    | 1    | 2    | 167   | 13·92      | -1·23         | -0·91          | 2·341     | ·137          | 11·2             |
| 29   | 2    | 0    | 7    | 3     | 11   | 6    | 7    | 16   | 8     | 10   | 6    | 2    | 78    | 6·50        | -·65          | -0·24          | ·480      | ·201          | 3·45             |
| 30   | 4    | 9    | 11   | 1     | 9    | 2    | 0    | 1    | 1     | 5    | 1    | 1    | 45    | 3·75        | -·49          | -0·71          | ·744      | ·264          | 3·27             |
| 31   | 0    | 0    | 6    | 1     | 5    | 6    | 0    | 4    | 0     | 0    | 1    | 0    | 23    | 1·92        | -·67          | -0·93          | 1·313     | ·369          | 3·11             |
| 32   | 0    | 0    | 0    | 3     | 0    | 2    | 0    | 0    | 2     | 0    | 1    | 1    | 9     | -·75        | -·35          | -0·20          | ·162      | ·591          | 6·8              |
| 33   | 2    | 7    | 0    | 0     | 1    | 36   | 0    | 1    | 0     | 1    | 0    | 0    | 48    | 4·00        | -1·02         | -0·87          | 1·797     | ·256          | 5·24             |
| 34   | 9    | 12   | 14   | 3     | 3    | 0    | 6    | 4    | 10    | 2    | 9    | 6    | 78    | 5·67        | -·44          | -0·25          | ·256      | ·201          | 2·52             |
| 35   | 6    | 4    | 4    | 2     | 0    | 2    | 1    | 10   | 5     | 133  | 18   | 8    | 193   | 16·08       | -1·44         | -1·59          | 2·547     | ·127          | 12·6             |

| \( \Sigma \) | 32   | 41   | 52   | 22   | 113  | 122  | 28   | 58   | 48    | 158  | 45   | 24   | 747   | -2·13       | 1·71          | 10·921      |

\( l_a = 330 \)
\( c_a = 273 \)
\( k_1 = 83 \)
\( W_1 = 501 \)
Tabelle XV.

Gebiet 39° N – 40° N, 111° F – 142° E.

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| Σ    | 105  | 54   | 80   | 67    | 104 | 93   | 91   | 75   | 83   | 83   | 151  | 80   | 1066  |

\[ l_m = 0.154 \quad \sigma_a = 0.047 \quad k_1 = 0.305 \quad W_1 = 0.911 \]
| Jahr | Jan. | Feb. | März | April | Mai | Juni | Juli | Aug. | Sept. | Okt. | Nov. | Dez. | \( \Sigma \) | \( a_0 \) | \( \frac{a_1}{a_0} \) | \( b_1 \) | \( c_1^2 \) | \( \varepsilon \) | \( c_1/2 \) |
|------|------|------|------|-------|-----|------|------|------|-------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1926 | 0    | 0    | 0    | 0     | 1   | 1    | 0    | 0    | 0     | 0    | 1    | 2   | 5   | -42 | -33 | -19 | -145 | -793 | -480 |
| 27   | 0    | 0    | 1    | 3     | 1   | 4    | 2    | 1    | 0     | 1    | 0    | 0   | 13  | 1.08 | -0.97 | -0.81 | 1.597 | -0.492 | 2.57 |
| 28   | 2    | 1    | 2    | 1     | 3   | 3    | 0    | 0    | 2     | 3    | 1    | 0   | 18  | 1.50 | -0.68 | -0.19 | 0.042 | -0.417 | -0.49 |
| 29   | 2    | 0    | 2    | 1     | 1   | 3    | 1    | 1    | 1     | 3    | 3    | 6   | 24  | 2.00 | -0.36 | -0.41 | 0.247 | -0.363 | 1.50 |
| 30   | 0    | 2    | 1    | 2     | 1   | 1    | 0    | 1    | 2     | 0    | 1    | 3   | 14  | 1.17 | -0.30 | -0.09 | 0.098 | -0.473 | -0.66 |
| 31   | 1    | 2    | 1    | 4     | 1   | 1    | 1    | 0    | 0     | 0    | 0    | 0   | 11  | -92 | -1.15 | 1.30 | 1.712 | -0.534 | 2.45 |
| 32   | 0    | 0    | 0    | 0     | 2   | 1    | 2    | 1    | 0     | 0    | 0    | 0   | 6   | -50 | -1.58 | -0.58 | 2.832 | -0.723 | 2.33 |
| 33   | 0    | 0    | 4    | 2     | 0   | 3    | 1    | 3    | 2     | 2    | 1    | 0   | 18  | 1.50 | -1.02 | -1.05 | 0.417 | -0.417 | 2.46 |
| 34   | 2    | 1    | 0    | 0     | 0   | 2    | 0    | 2    | 1     | 0    | 2    | 1   | 9   | -75 | -0.25 | -0.11 | 0.474 | -0.590 | -0.46 |
| 35   | 0    | 0    | 0    | 1     | 1   | 1    | 0    | 1    | 0     | 0    | 1    | 1   | 6   | -50 | -0.28 | -0.16 | 0.104 | -0.723 | -0.45 |
| \( \Sigma \) | 7    | 6    | 11   | 14    | 12  | 18   | 7    | 10   | 7     | 11   | 9    | 12  | 124 | -2.54 | 2.52 | 7.951 | | |

\[ t_m = -2.82 \quad t_c = 1.98 \quad k_1 = 1.27 \quad W_1 = 1.199 \]
### Tabelle XVII.

**Gebiet 38° N ~ 39° N, 142° E ~ 143° E.**

<table>
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<tr>
<th>Jahr</th>
<th>Monatliche Bebenzahl</th>
<th>( \Sigma )</th>
<th>( a_0 )</th>
<th>( \frac{a_1}{a_0} )</th>
<th>( \frac{b_1}{a_0} )</th>
<th>( c_1^2 )</th>
<th>( \varepsilon )</th>
<th>( c_1/\varepsilon )</th>
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<td>-457</td>
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\( \sum l_m = 333 \) \( \sum c_m = 502 \) \( k_1 = 1.51 \) \( W_i = 102 \)
## Tabelle XVIII.

Gebiet 38° N – 39° N, 141° E – 142° E.

<table>
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<th>(a_1/a_0)</th>
<th>(b_1/a_0)</th>
<th>(c_i)</th>
<th>(\varepsilon)</th>
<th>(c_i/\varepsilon)</th>
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\(l_m = 0.188\) \(\varepsilon = 0.076\) \(k_1 = 0.404\) \(W_1 = 0.849\)
### Tabelle XIX.

**Gebiet 38° N ~ 39° N, 140° E ~ 141° E.**

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<th>$c_1$</th>
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<th>$\alpha_1/\varepsilon$</th>
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$\mu = -255$  $\sigma = -245$  $k_1 = 96$  $W_1 = -398$
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\[ \sum \]

<table>
<thead>
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<th>Gebiet 37° N – 38° N, 141° E – 142° E</th>
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<tr>
<td>Tabelle XX.</td>
</tr>
<tr>
<td>Monatliche Beobachtung</td>
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<td>Winterergebnis</td>
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\[ \Delta = 164 \quad \Delta_m = 140 \quad b_1 = 854 \quad f_1 = 482 \]

\[ \Delta_m = 164 \quad \Delta_m = 140 \quad b_1 = 854 \quad f_1 = 482 \]
### Tabelle XXI.

Gebiet 37° N ~ 38° N, 138° E ~ 139° E.

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<th>April</th>
<th>Mai</th>
<th>Juni</th>
<th>Juli</th>
<th>Aug.</th>
<th>Sept.</th>
<th>Okt.</th>
<th>Nov.</th>
<th>Dez.</th>
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\[ t_{n}=170 \quad t_{n}=213 \quad k_{1}=1.25 \quad W_{1}=210 \]
Tabelle XXII.

Gebiet 37° N ~ 38° N, 140° E ~ 141° E.

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$\bar{m} = 1985 \quad \bar{m}_m = 1803 \quad k_1 = 0.91 \quad W_1 = 0.457$
### Tabelle XXIII.

Gebiet 37° N ~ 38° N, 139° E ~ 140° E.

| Jahr | Monatliche Bebenzahl | $\Sigma$ | $a_0$ | $a_1$ | $b_1$ | $c_1$ | $\varepsilon$ | $c_1/\varepsilon$
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$l_m = 0.380 \quad r_m = 0.194 \quad k_1 = 0.51 \quad W_i = 0.771$
| Jahr | Jan. | Feb. | März | April | Mai | Juni | Juli | Aug. | Sept. | Okt. | Nov. | Dez. | Σ    | \( a_0 \) | \( a_1 \) | \( b_1 \) | \( c_1^2 \) | \( \varepsilon \) | \( c_1/\varepsilon \) |
|------|------|------|------|-------|-----|------|------|------|------|------|------|------|-----|------|-------|-------|-------|-------|-------|--------|
| 1926 | 0    | 0    | 0    | 0     | 1   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0.08 | 1.00  | 1.75  | 4.062 | 1.77  | 1.14   |
| 27   | 0    | 0    | 0    | 0     | 0   | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 1    | 0.08 | 0.00  | 2.13  | 4.536 | 1.77  | 1.20   |
| 28   | 1    | 1    | 0    | 0     | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0.25 | 1.84  | 0.00  | 3.385 | 1.02  | 1.80   |
| 29   | 0    | 0    | 0    | 0     | 0   | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 1    | 0.08 | 1.00  | 1.75  | 4.062 | 1.77  | 1.14   |
| 30   | 2    | 0    | 6    | 1     | 0   | 1    | 2    | 0    | 1    | 1    | 4    | 1    | 19   | 1.58 | 0.47  | 0.09  | 2.29  | 0.407 | 1.17   |
| 31   | 0    | 0    | 1    | 1     | 0   | 0    | 0    | 2    | 6    | 0    | 5    | 0    | 15   | 1.25 | 0.23  | 1.15  | 1.375 | 0.458 | 2.56   |
| 32   | 1    | 0    | 1    | 0     | 0   | 5    | 0    | 2    | 2    | 0    | 1    | 0    | 12   | 1.00 | 0.70  | 0.04  | 0.491 | 0.512 | 1.37   |
| 33   | 1    | 0    | 1    | 2     | 0   | 0    | 0    | 0    | 12   | 1    | 0    | 3    | 20   | 1.67 | 0.19  | 1.00  | 1.036 | 0.396 | 2.57   |
| 34   | 0    | 2    | 1    | 0     | 2   | 0    | 0    | 1    | 0    | 1    | 1    | 1    | 9    | 0.75 | 0.39  | 0.16  | 0.177 | 0.591 | 0.71   |
| 35   | 0    | 0    | 0    | 1     | 2   | 2    | 2    | 1    | 1    | 1    | 1    | 0    | 11   | 0.92 | 0.01  | 0.10  | 0.030 | 0.535 | 1.90   |
| Σ    | 5    | 3    | 10   | 5     | 5   | 8    | 4    | 6    | 22   | 5    | 13   | 6    | 92   | -0.57 | -3.97 | 20.38 |

\( I_a = 0.451 \quad \varepsilon_a = 0.401 \quad k_1 = 0.89 \quad W_1 = 0.453 \)
Tabelle XXV.
Gebiet 36° N ~ 37° N, 141° E ~ 142° E.

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\[ l_n = 133 \quad c_n = 1701 \quad k_1 = 1.28 \quad W_1 = 196 \]

139
### Tabelle XXVI.

Gebiet 36° N～37°N, 140° E～141° E.

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![](image)

\( \bar{a}_0 = 0.006 \) \( \bar{a}_0 = 0.066 \) \( k_s = 616 \) \( W_1 = 684 \)
Tabelle XXVII.

Gebiet 36° N - 37° N, 139° E - 140° E.

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\[ \lambda_n = 1952 \quad \mu_n = 1031 \quad k_1 = 0.53 \]
### Tabelle XXVIII.

Gebiet 36° N ~ 37° N, 138° E ~ 139° E.

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$I_m = 433 \quad I_{\alpha n} = -6514 \quad k_1 = 1-53 \quad W_1 = 0-96$
Tabelle XXIX.

Gebiet 36° N ~ 37° N, 137° E ~ 138° E.

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\[ l_m = 0.256 \quad \sigma_m = 0.124 \quad k_1 = 0.485 \quad W_1 = 0.791 \]
Tabelle XXX.

Gebiet 36° N ~ 37° N, 136° E ~ 137° E.

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\[ l_m = 0.203 \quad c_m = 0.303 \quad b_1 = 1.49 \quad W_1 = 0.108 \]
| Jahr | Jan. | Feb. | März | April | Mai | Juni | Juli | Aug. | Sept. | Okt. | Nov. | Dez. | Σ    | $a_0$  | $\frac{a_1}{a_0}$ | $\frac{b_1}{a_0}$ | $c_1^2$ | $\varepsilon$ | $\frac{\varepsilon}{\sqrt{\Sigma}}$ |
|------|------|------|------|-------|-----|------|------|------|-------|------|------|------|-------|-------|----------------------|----------------------|--------|------------------|---------------------|----------------------|
| 1926 | 3    | 18   | 13   | 11    | 17  | 7    | 10   | 19   | 5     | 15   | 5    | 10   | 133   | 11-08 | -11                | -0.23                | 0.065  | -0.13           | 0.153               | 1.66                 |
| 27   | 5    | 9    | 15   | 16    | 11  | 20   | 7    | 6    | 3     | 7    | 3    | 6    | 108   | 9-00   | -18              | -0.63                | 0.429  | -0.17           | 0.171               | 3.83                 |
| 28   | 14   | 2    | 10   | 4     | 9   | 14   | 4    | 14   | 11    | 6    | 4    | 13   | 135   | 12-08  | -30               | -0.26                | -0.158  | -0.152          | 0.261               | 2.61                 |
| 29   | 5    | 8    | 10   | 2     | 3   | 5    | 2    | 4    | 5     | 9    | 3    | 13   | 69    | 5-75   | -46              | -0.14                | 0.231  | -0.21           | 0.213               | 2.26                 |
| 30   | 11   | 13   | 19   | 8     | 84  | 9    | 5    | 19   | 8     | 16   | 13   | 16   | 221   | 18-42  | -21              | -0.52                | 0.315  | -0.11           | 0.472               | 4.72                 |
| 31   | 17   | 14   | 15   | 12    | 10  | 32   | 10   | 11   | 14    | 18   | 14   | 172  | 14-33  | -0.94            | -0.11              | 0.0209 | -0.13           | 1.07                |                     |
| 32   | 18   | 18   | 16   | 11    | 5   | 22   | 19   | 10   | 10    | 33   | 21   | 9    | 192   | 16-60  | -0.59            | -0.21                | 0.0476 | -0.128          | 1.70                 |                     |
| 33   | 14   | 5    | 11   | 8     | 8   | 4    | 21   | 17   | 29    | 18   | 54   | 10   | 199   | 16-58  | -0.18           | -0.75                | 0.553  | -0.125          | 6.01                 |                     |
| 34   | 21   | 5    | 8    | 12    | 9   | 8    | 12   | 13   | 13    | 19   | 18   | 13   | 151   | 12-58  | -0.11           | -0.34                | 0.128  | -0.144          | 2.49                 |                     |
| 35   | 8    | 5    | 12   | 25    | 20  | 26   | 7    | 12   | 14    | 17   | 19   | 13   | 178   | 14-83  | -0.20           | -0.11                | 0.0521 | -0.133          | 1.72                 |                     |
| Σ    | 116  | 97   | 119  | 112   | 178 | 125  | 119  | 124  | 109   | 154  | 158  | 147  | 1558  | -153   | -32             | 2.01                 |                     |

$N_m = 142 \quad N_m = 0.035 \quad k_1 = 25 \quad W_1 = 0.939$
Tabelle XXXIII.

Gebiet 35° N−36° N, 139° E−140° E.

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\[
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\lambda &= 0.186 \\
\sigma &= 0.086 \\
K &= 0.43 \\
W_1 &= 831 \\
\sigma N &= 0.234 \\
\lambda &= 1.70 \\
K_2 &= 1.37 \\
W_2 &= 1.153
\end{align*}
\]
### Tabelle XXXIV.

Gebiet 35° N–36° N, 138° E–139° E.

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\[ l_a = 221 \quad e_a = 333 \quad k_1 = 1.505 \quad W_1 = 1.03 \]
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Gebiet 35° N—35° N, 135° E—135° E.

Über die Jahresschwankung der Erdbebenhäufigkeit.
Tabelle XXXVI.

Gebiet 35° N~36° N, 136° E~137° E.

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a₀ = 0·107  a₁ = 0·1534  b₁ = 1·43  W₁ = 1·29
### Tabelle XXXVII.

**Gebiet 35° N–36° N, 135° E–136° E.**

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k_1 = .78 
W_1 = .544$
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$\lambda_a = 310$  $\sigma_a = 263$  $k_1 = 85$  $W_1 = 485$
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Über die Jahresschüttung der Erdbebenzähligkeit.
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| Σ    | 37   | 192  | 675  | 102   | 593 | 50   | 54   | 215  | 233   | 63   | 1233 | 1357 | 4804 | -19   | -1.28 | 6.212 |

\[ t_1 = 0.2492 \quad t_e = 0.1292 \quad k_1 = 0.52 \quad W_1 = 0.763 \]
Tabelle ILI.

Gebiet 34°–35° N, 137° E–138° E.

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\[ \epsilon = 0.352 \]
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Tabelle II.3.

Gebiet 34° N – 35° N, 136° E – 137° E.

Monatliche Bebenzahl

\[ \text{Gebiet } 34^\circ \text{N} – 35^\circ \text{N}, 136^\circ \text{E} – 137^\circ \text{E} \]

\[ \Sigma = 293 \quad W_1 = 9.73 \quad b_1 = 30 \]

\[ \Sigma \delta = -203 \quad W_1 = 9.73 \quad b_1 = 30 \]
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\[ t_m = 0.0766 \quad t_{6m} = 0.053 \quad k_1 = -69 \quad W_1 = 6.21 \]
| Jahr | Jan. | Feb. | März | April | Mai | Juni | Juli | Aug. | Sept. | Okt. | Nov. | Dez. | \( \sum \) | \( a_0 \) | \( \frac{a_1}{a_0} \) | \( b_1 \) | \( c_1^2 \) | \( \varepsilon \) | \( c_1^2/\varepsilon \) |
|------|------|------|------|-------|-----|------|------|------|-------|------|------|-----|------|------|-------|------|-------|-------|-------|-------|--------|
| 1926 | 8    | 0    | 5    | 1     | 0   | 6    | 9    | 8    | 2     | 11   | 9    | 2    | 61  | 5.08 | -0.18 | -0.56 | 0.346 | 0.227 | 2.59   |
| 27   | 9    | 12   | 1    | 12    | 13  | 9    | 6    | 5    | 7     | 17   | 7    | 15   | 113 | 9.42 | -0.15 | -0.06 | 0.029 | 0.165 | 1.03   |
| 28   | 10   | 4    | 10   | 1     | 2   | 5    | 4    | 2    | 2     | 2    | 5    | 4    | 51  | 4.25 | -0.48 | -0.19 | 0.267 | 0.245 | 2.11   |
| 29   | 2    | 1    | 12   | 4     | 0   | 3    | 4    | 2    | 4     | 5    | 4    | 1    | 42  | 3.50 | -0.07 | -0.14 | 0.025 | 0.273 | 0.58   |
| 30   | 3    | 4    | 2    | 5     | 6   | 4    | 10   | 13   | 4     | 4    | 5    | 5    | 65  | 5.42 | -0.48 | -0.15 | 0.253 | 0.219 | 2.30   |
| 31   | 3    | 14   | 3    | 7     | 4   | 5    | 6    | 3    | 5     | 4    | 3    | 6    | 63  | 5.25 | -0.19 | -0.23 | 0.089 | 0.223 | 1.34   |
| 32   | 3    | 2    | 5    | 4     | 5   | 10   | 2    | 6    | 12    | 2    | 11   | 8    | 70  | 5.83 | -0.13 | -0.29 | 0.101 | 0.212 | 1.50   |
| 33   | 6    | 4    | 10   | 8     | 6   | 8    | 12   | 1    | 13    | 6    | 10   | 10   | 94  | 7.83 | -0.04 | -0.08 | 0.008 | 0.183 | 0.59   |
| 34   | 6    | 3    | 10   | 14    | 11  | 7    | 6    | 6    | 10    | 12   | 10   | 12   | 107 | 8.92 | -0.02 | -0.01 | 0.001 | 0.171 | 1.185  |
| 35   | 10   | 7    | 5    | 11    | 8   | 17   | 11   | 26   | 30    | 36   | 29   | 25   | 215 | 17.92| -0.04 | -0.73 | 0.547 | 0.121 | 6.12   |

\[ \sum l_n = 129 \quad \sum c_n = 1.34 \quad k_1 = 1.04 \quad W_1 = 0.339 \]
Tabelle ILV.

Gebiet 34° N - 35° N, 134° E - 135° E.

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\[ k_m = 0.134 \quad \sigma_m = 0.03 \quad k_1 = 0.224 \quad W_1 = 0.951 \]
Tabelle ILVI.

Gebiet 34° N ~ 35° N, 133° E ~ 134° E.

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\[ L_n = 242 \quad \sigma_m = 0.339 \quad k_1 = 1.40 \quad W_1 = 0.141 \]
Tabelle ILVII.

Gebiet 34° N – 35° N, 132° E – 133° E.

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<th>( a_0 )</th>
<th>( a_1 / a_0 )</th>
<th>( b_1 / a_0 )</th>
<th>( c_i^2 )</th>
<th>( \varepsilon )</th>
<th>( c_i / \Sigma )</th>
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\[ \ell = 2.22 \] \[ \ell = 3.19 \] \[ k_1 = 1.44 \] \[ W_1 = 1.25 \]
Tabelle ILVIII.

Gebiet 33° N~34° N, 134° E~135° E.

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<th>$a_1/a_0$</th>
<th>$b_1/a_0$</th>
<th>$c_l^e$</th>
<th>$\varepsilon$</th>
<th>$c_l$/$c_l^e$</th>
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$1/m = 184 \quad 1/cm = 151 \quad k_l = 82 \quad W_l = 510$
### Tabelle ILIX.

**Gebiet 33° N~34° N, 133° E~134° E.**

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<th>$c_1$</th>
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$\lambda_n = \cdot 285$  $\gamma_m = \cdot 447$  $k_1 = 1.57$  $W_1 = \cdot 085$
Tabelle L.

Gebiet 33° N–34° N, 132° E–133° E.

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<th>März</th>
<th>April</th>
<th>Mai</th>
<th>Juni</th>
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<th>Aug.</th>
<th>Sept.</th>
<th>Okt.</th>
<th>Nov.</th>
<th>Dez.</th>
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</tbody>
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$\Sigma$ | 13 | 18 | 17 | 12 | 25 | 22 | 18 | 18 | 17 | 17 | 24 | 22 | 223 | -0.64 | -0.15 | 3.216 |

$I_0 = 1.79$  $\sigma_0 = 0.658$  $k_1 = 0.37$  $W_1 = 0.862$
Tabelle LI.

Gebiet 33° N ~ 34° N, 131° E ~ 132° E.

| Jahr | Jan. | Feb. | März | April | Mai | Juni | Juli | Aug. | Sept. | Okt. | Nov. | Dez. | Σ    | \( a_0 \) | \( \frac{a_1}{a_0} \) | \( \frac{b_1}{a_0} \) | \( c_0^2 \) | Σ | \( c_1 / \varepsilon \) |
|------|------|------|------|-------|-----|------|------|------|-------|------|------|------|------|------|----------------|----------------|----------------|----------------|------|----------------|
| 1926 | 5    | 17   | 9    | 7     | 17  | 21   | 5    | 3    | 0     | 4    | 20   | 4    | 112  | 9.33 | -0.07 | -0.42 | -0.180 | -0.167 | 2.54 |
| 27   | 14   | 5    | 2    | 10    | 3   | 50   | 5    | 0    | 5     | 7    | 2    | 3    | 106  | 8.92 | -0.55 | -0.53 | -0.583 | -0.172 | 4.45 |
| 28   | 12   | 11   | 5    | 0     | 3   | 1    | 0    | 2    | 3     | 1    | 5    | 6    | 49   | 4.08 | 1.07  | 0.04  | 1.146  | -0.253 | 4.24 |
| 29   | 6    | 0    | 8    | 0     | 3   | 1    | 4    | 9    | 14    | 0    | 2    | 0    | 2    | 48   | 4.00 | -0.58 | -0.08 | -0.342 | 0.256  | 2.69 |
| 30   | 3    | 2    | 1    | 22    | 3   | 1    | 4    | 2    | 0     | 2    | 9    | 0    | 49   | 4.08 | -0.07 | -0.66 | -0.440 | -0.253 | 2.62 |
| 31   | 15   | 6    | 7    | 54    | 3   | 6    | 1    | 3    | 4     | 9    | 1    | 3    | 112  | 9.33 | -0.26 | -0.93 | -0.932 | -0.167 | 6.00 |
| 32   | 11   | 5    | 10   | 3     | 1   | 0    | 2    | 1    | 0     | 9    | 6    | 6    | 51   | 4.25 | 1.07  | -0.21 | 1.189  | -0.248 | 4.40 |
| 33   | 5    | 5    | 9    | 3     | 3   | 0    | 6    | 3    | 0     | 2    | 1    | 1    | 47   | 3.33 | -0.08 | -0.65 | -0.428 | -0.277 | 2.36 |
| 34   | 3    | 0    | 2    | 4     | 1   | 4    | 0    | 2    | 7     | 7    | 21   | 10   | 61   | 5.08 | -0.46 | -0.94 | -0.995 | -0.227 | 4.61 |
| 35   | 4    | 11   | 4    | 3     | 1   | 0    | 0    | 14   | 1     | 3    | 0    | 2    | 43   | 3.58 | -0.19 | -0.04 | -0.337 | -0.270 | 0.71 |
| Σ    | 74   | 68   | 57   | 107   | 39  | 89   | 32   | 44   | 21    | 37   | 68   | 36   | 672  | 2.13 | 2.62  | 6.372 |

\( I_n = 2.52 \) \( c_m = -338 \) \( k_1 = 1.34 \) \( W_1 = 166 \)
### Tabelle LII.

**Gebiet 33° N–34° N, 130° E–131° E.**

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<th>$a_1/a_0$</th>
<th>$b_1/a_0$</th>
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$\sum n = 283$, $\sum n = 152$, $k_1 = 537$, $W_1 = 750$
### Tabelle LIII.

Gebiet 32° N ~ 33° N, 130° E ~ 131° E.

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<th>Juni</th>
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\[ I_{oa} = 2.08 \quad I_{oa} = 3.51 \quad k_1 = 1.686 \quad W_1 = 0.58 \]
Tabelle LIV.

Gebiet 32° N–33° N, 131° E–132° E.

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| \( \Sigma \) | 146  | 167  | 160  | 16    | 21   | 20   | 18   | 17   | 53   | 118  | 16   | 166  | 918  |

\[ l_m = 480 \qquad l_e = 526 \qquad k_1 = 1.10 \qquad W_1 = 2.92 \]
Tabelle LVI.

Gebiet 31° N—32° N, 131° E—132° E.

| Jahr | Monatliche Bebenzahl | Σ | $a_0$ | $a_1$ | $b_1$ | $c_1$ | $\varepsilon$ | $c_1/\varepsilon$ |
|------|-----------------------|---|-------|-------|-------|-------|-------|-------------|----------------|
| 1926 | 3    | 8    | 11   | 10    | 14  | 16   | 13   | 11   | 14    | 9    | 6    | 11   | 126   | 10.50 | -36  | -10  | 0.140 | 0.158 | 2.37 |
| 27   | 12   | 6    | 27   | 13    | 8   | 9    | 6    | 13   | 19    | 5    | 9    |       | 134   | 11.17 | -15  | -12  | 0.037 | 0.153 | 1.26 |
| 28   | 20   | 12   | 13   | 16    | 8   | 8    | 2    | 15   | 15    | 8    | 13   |       | 137   | 11.42 | -68  | -15  | 0.486 | 0.151 | 4.61 |
| 29   | 15   | 9    | 2    | 13    | 58  | 21   | 9    | 12   | 6     | 2    | 6    | 9     | 162   | 13.50 | -43  | -70  | 0.675 | 0.139 | 5.91 |
| 30   | 18   | 19   | 6    | 7     | 13  | 4    | 7    | 6    | 12    | 10   | 9    |       | 116   | 9.67  | -40  | -02  | 0.160 | 0.164 | 2.44 |
| 31   | 6    | 2    | 5    | 11    | 7   | 6    | 12   | 9    | 138   | 19   |     |       | 225   | 18.75 | -60  | -115 | 1.683 | 0.118 | 11.0 |
| 32   | 32   | 18   | 13   | 19    | 10  | 11   | 10   | 14   | 7     | 9    | 7    |       | 157   | 13.08 | -34  | -25  | 0.178 | 0.141 | 2.99 |
| 33   | 19   | 8    | 11   | 17    | 25  | 30   | 14   | 7    | 13    | 18   | 25   |       | 191   | 15.92 | -02  | -20  | 0.040 | 0.128 | 1.56 |
| 34   | 11   | 7    | 11   | 7     | 8   | 3    | 1    | 7    | 3     | 9    | 12   | 11    | 90    | 7.50  | -51  | -06  | 0.264 | 0.187 | 2.75 |
| 35   | 0    | 6    | 9    | 9     | 10  | 15   | 32   | 12   | 3     | 7    | 4    | 12    | 119   | 9.92  | -67  | -18  | 0.481 | 0.162 | 4.28 |
| Σ    | 136  | 95   | 108  | 115   | 157 | 139  | 100  | 83   | 102   | 216  | 125  |       | 1457  | 1.24  | -47  | 4.14 |

$1_{m} = 204 \quad 1_{c_m} = 133 \quad k_{1} = -65 \quad W_{1} = 656$
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$l_m = 280, \quad \sigma_m = 289, \quad k_1 = 1.03, \quad W_1 = 346$
Tabelle LVIII.

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$\sum = 520$, $I_m = 0.346$, $\mu_m = 6.903$, $k_1 = 2.00$, $W_1 = 0.018$
### Tabelle LIX.

Gebiet 28° N to 29° N, 129° E to 130° E.

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\[ l_m = 0.114 \quad \sigma_m = 0.317 \quad k_1 = 2.78 \quad W_1 = 0.0044 \]
# Tabelle LX.

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Tabelle LXI.

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\( k_m = -332 \quad c_m = -105 \quad k_1 = -316 \quad W_1 = -905 \)
### Tabelle LXII.

**Gebiet 25° N~26° N, 121° E~122° E.**

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\[ t_{lu} = 1-28 \quad t_{ln} = 0-089 \quad k_1 = 6-97 \quad W_1 = 6-15 \]
Tabelle LXIII.

Gebiet 24° N – 25° N, 124° E – 125° E.

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\( W_1 = 153 \)
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\[ \sum_{i=1}^{n} x_i = 730, \quad W_i = 589 \]

\[ j = 380, \quad \sigma = 277 \]
### Tabelle LXV.

**Gebiet 24° N~25° N, 120° E~121° E.**

| Jahr | Jan. | Feb. | März | April | Mai | Juni | Juli | Aug. | Sept. | Okt. | Nov. | Dez. | Σ     | \(a_0\) | \(\frac{a_1}{a_0}\) | \(\frac{b_1}{a_0}\) | \(c_2\) | \(ε\) | \(c_1/ε\) |
|------|------|------|------|-------|-----|------|------|------|-------|------|------|-----|-------|-------|----------------|----------------|--------|------|--------|----------|
| 1926 | 1    | 1    | 3    | 0     | 1   | 0    | 0    | 2    | 0     | 3    | 0    | 1   | 12    | 1.00  | -0.33          | -0.09           | -1.17  | -0.512  | -0.67    |
| 27   | 0    | 1    | 0    | 0     | 0   | 1    | 2    | 0    | 0     | 1    | 0    | 0   | 5     | 0.42  | -0.79          | -0.00           | -0.624 | -0.79   | 1.00     |
| 28   | 0    | 0    | 0    | 1     | 0   | 2    | 0    | 0    | 0     | 0    | 0    | 0   | 3     | 0.52  | -1.16          | 1.32            | 3.088  | 1.02    | 1.72     |
| 29   | 0    | 1    | 0    | 1     | 1   | 5    | 0    | 0    | 0     | 0    | 0    | 1   | 9     | 0.75  | -0.69          | -0.97           | 1.233  | -0.590  | 1.88     |
| 30   | 0    | 0    | 0    | 0     | 0   | 0    | 0    | 0    | 1     | 1    | 0    | 1   | 3     | 0.25  | -0.24          | -1.56           | 2.491  | 1.02    | 1.55     |
| 31   | 0    | 0    | 2    | 0     | 0   | 0    | 1    | 0    | 0     | 2    | 0    | 0   | 5     | 0.42  | -0.00          | -0.12           | -0.014 | -0.79   | -0.15    |
| 32   | 0    | 0    | 0    | 1     | 0   | 0    | 3    | 0    | 0     | 0    | 0    | .0  | 4     | 0.33  | -1.51          | -0.51           | 2.540  | -0.89   | 1.79     |
| 33   | 0    | 0    | 0    | 1     | 0   | 3    | 0    | 1    | 2     | 0    | 0    | 0   | 7     | 0.58  | -1.28          | -0.09           | 1.646  | -0.67   | 1.92     |
| 34   | 1    | 0    | 0    | 0     | 2   | 0    | 1    | 0    | 0     | 0    | 0    | 0   | 4     | 0.33  | -0.51          | -0.88           | 1.074  | -0.89   | 1.17     |
| 35   | 1    | 0    | 0    | 157   | 26  | 19   | 24   | 21   | 13    | 13   | 9    | 10  | 293   | 24.42 | -0.44          | -0.96           | 1.115  | -0.683  | 12.7     |
| Σ    | 3    | 3    | 5    | 161   | 30  | 30   | 31   | 24   | 16    | 20   | 9    | 13  | 345   | -5.81 | 2.96           | 13.92          |

\(\mu_m = 0.373\) \hspace{1cm} \(\sigma_m = 0.652\) \hspace{1cm} \(k_1 = 1.75\) \hspace{1cm} \(W_1 = 0.047\)

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779
### Tabelle LXVI.

**Gebiet 23° N ~ 24° N, 122° E ~ 123° E.**

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$L_a = 0.396$  
$c_a = 331$  
$L_t = 0.84$  
$W_t = -0.494$
| Jahr | Jan. | Feb. | März | April | Mai | Juni | Juli | Aug. | Sept. | Okt. | Nov. | Dez. | Σ   | \(a_0\) | \(\frac{a_1}{a_0}\) | \(\frac{b_1}{a_0}\) | \(c_2\) | \(\varepsilon\) | \(c_1/\varepsilon\) |
|------|------|------|------|-------|-----|------|------|------|-------|------|-----|-----|-----|-----|----------------|----------------|----------------|----------------|----------------|----------------|
| 1926 | 0    | 0    | 0    | 0     | 0   | 1    | 1    | 0    | 0     | 0    | 0   | 0   | 0   | 1   | 0.08           | -0.02           | -0.01          | -0.005         | 1.77           | 0.01           |
| 27   | 1    | 1    | 2    | 1     | 0   | 0    | 0    | 8    | 0     | 0    | 0   | 0   | 0   | 8   | 8.57           | -4.97           | -4.5           | -4.23          | 2.57           | 2.57           |
| 28   | 1    | 9    | 2    | 0     | 0   | 6    | 4    | 6    | 4     | 1    | 2   | 2   | 2   | 49  | 4.42           | -4.77           | -4.5           | -4.23          | 2.57           | 2.57           |
| 29   | 0    | 5    | 6    | 10    | 7   | 6    | 3    | 70   | 7     | 2    | 1   | 1   | 119  | 9.92          | -0.01           | -0.90          | -0.81          | 1.62           | 1.62           |
| 30   | 9    | 13   | 17   | 16    | 20  | 26   | 20   | 10   | 15    | 7    | 19  | 19  | 188  | 15.67         | -2.47           | -2.21          | -1.06          | 2.53           | 2.53           |
| 31   | 21   | 9    | 13   | 20    | 11  | 15   | 7    | 12   | 9     | 9    | 10  | 14  | 150  | 12.50         | -1.61           | -1.9           | -0.62          | 1.45           | 1.45           |
| 32   | 11   | 20   | 17   | 26    | 11  | 14   | 10   | 13   | 15    | 6    | 26  | 18  | 187  | 13.57         | -2.09           | -0.86          | -0.34          | 0.89           | 0.89           |
| 33   | 16   | 8    | 4    | 69    | 44  | 48   | 29   | 20   | 22    | 24   | 36  | 36  | 398  | 33.17         | -0.37           | -0.34          | -0.89          | 6.64           | 6.64           |
| 34   | 36   | 96   | 316  | 21    | 24  | 18   | 11   | 6    | 13    | 29   | 14  | 29  | 593  | 49.42         | -0.86           | -1.07          | -1.885         | 0.73           | 0.73           |
| 35   | 11   | 71   | 101  | 11    | 42  | 16   | 14   | 18   | 16    | 12   | 10  | 4   | 326  | 27.08         | -0.36           | -0.82          | -0.672         | 0.98           | 0.98           |
| \(\Sigma\) | 106  | 232  | 478  | 174   | 194 | 144  | 119  | 85   | 151   | 114  | 109 | 2019 | -54  | 2.40          | 5.40           |               |               |               |               |

\[l_m = 232 \quad c_m = 2460 \quad k_1 = 1.06 \quad W_1 = 325\]
### Tabelle LXVIII.

Gebiet 23° N—24° N, 120° E—121° E.

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<th>Juni</th>
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$\sum = 381$  $\sum = 457$  $k_1 = 1.38$  $W_1 = 149$
### Tabelle LXIX.

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| $\Sigma$ | 858 | $\mu = 2.15$ | $\sigma_m = 0.65$ | $k_1 = 0.302$ | $W_1 = 0.913$ |

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Über die Jahresschwankung der Erdbebenhäufigkeit.
48. 日本に於ける地震発生の一年変化

日本を緯度及び経度の一度毎の目に分け、そのなかに起つ地震の数を一月毎にまとめて、10年の間の材料に就て調べた。方法は一月毎に調和解析にかけ、そのベクトルを選び歩きの理論 (Random Walk) に照して吟味したものである。

其結果によって確に一年変化を示す所があるがそれは極めて局部的に性質である事が分った。所によっては一年変化よりも半年変化の方が著しい様に見える。

季節は違いないが一年に一度位地震は目立つて多く続く様な所もある。