

VARIATIONEN
DER DECLINATION DER MAGNETNADEL,
BEOBACHTET IN KRAKAU.

VON

DR. MAX WEISSE,

VORGELEGT IN DER SITZUNG DER MATHEMATISCH-NATURWISSENSCHAFTLICHEN CLASSE AM 13. JULI 1853.

Schon im Jahre 1839 habe ich in dem hiesigen botanischen Garten, ziemlich entfernt von allen Gebäuden, ein ganz eisenfreies Häuschen aufführen lassen und darin ein Gauss'sches Magnetometer aufgestellt. Der ursprüngliche Zweck war, die Göttinger Termine einzuhalten und von Zeit zu Zeit die Declination der Magnetnadel zu bestimmen. Später entschloss ich mich aber, regelmässige tägliche Beobachtungen der Variation der Declination zu machen, was ich auch durch mehrere Jahre ausführte. Leider wurden die Beobachtungen mehrmals unterbrochen; einige Male wurde in das Häuschen gewaltsam eingebrochen und die Apparate entwendet. Im Jahre 1850 stellte ich statt des Theodoliten ein blosses Stativfernrohr auf, aber auch dieses wurde geraubt. Durch mehrere Jahre konnte ich mich nach den gemachten traurigen Erfahrungen nicht entschliessen neue Apparate aufzustellen; endlich habe ich im Jahre 1855 doch wieder einen Variations-Apparat aufgestellt, aber auch der wurde im Jahre 1856 den 22. October durch Einbruch zerstört, wodurch die Beobachtungen geschlossen waren. Die Art der Beobachtungen mit dem Gauss'schen Magnetometer ist bekannt; ich erwähne daher darüber nichts, sondern bemerke blos, dass die Beobachtungen von mir Früh und Nachmittags so lange fortgesetzt wurden, bis ich das Minimum und Maximum erreicht hatte; nur mit dem Variations-Apparate wurde regelmässig Früh um 8^h 40', Nachmittags um 1^h 40' mittlere Krakauer Zeit, was den Göttinger Stunden 8^h und 1^h entspricht, eine Position genommen.

Diese Beobachtungen geben nun die täglichen Variationen, die ich hier mittheile. Ich füge eine Übersicht bei der Schwankungen in den verschiedenen Monaten, wie sie die Beobachtungen im Mittel ergaben.

Jänner.

| | | |
|-----------------------|----|--------------------|
| 1840 | 6' | 13 ^h 79 |
| 1841 | 5 | 58·23 |
| 1842 | 4 | 57·11 |
| 1843 | 4 | 35·15 |
| 1844 | 3 | 19·71 |
| 1845 | 2 | 21·72 |
| 1846 | 3 | 21·32 |
| 1850 | 6 | 57·80 |
| 1856 | 2 | 58·90 |
| Mittel aus 9 Jahren = | 4 | 31·52 |

Februar.

| | | |
|-----------------------|----|--------------------|
| 1841 | 7' | 44 ^h 98 |
| 1842 | 5 | 32·05 |
| 1843 | 4 | 46·21 |
| 1844 | 3 | 42·87 |
| 1845 | 5 | 13·13 |
| 1846 | 3 | 37·15 |
| 1850 | 9 | 9·69 |
| 1856 | 3 | 54·28 |
| Mittel aus 8 Jahren = | 5 | 27·54 |

März.

| | | |
|-----------------------|----|--------------------|
| 1841 | 9' | 12 ^h 48 |
| 1842 | 8 | 36·91 |
| 1843 | 8 | 5·74 |
| 1844 | 7 | 53·81 |
| 1845 | 9 | 55·30 |
| 1846 | 10 | 1·67 |
| 1850 | 13 | 16·97 |
| 1856 | 6 | 44·17 |
| Mittel aus 8 Jahren = | 9 | 13·38 |

April.

| | | |
|-----------------------|-----|--------------------|
| 1841 | 13' | 16 ^h 13 |
| 1842 | 11 | 12·85 |
| 1843 | 10 | 25·54 |
| 1844 | 10 | 36·37 |
| 1845 | 12 | 58·38 |
| 1846 | 12 | 37·21 |
| 1850 | 14 | 45·83 |
| Mittel aus 7 Jahren = | 12 | 16·19 |

Mai.

| | | |
|-----------------------|-----|--------------------|
| 1841 | 10' | 58 ^h 75 |
| 1842 | 10 | 35·31 |
| 1843 | 10 | 3·17 |
| 1844 | 8 | 59·33 |
| 1845 | 11 | 28·77 |
| 1846 | 13 | 3·14 |
| 1850 | 14 | 2·17 |
| Mittel aus 7 Jahren = | 11 | 18·66 |

Juni.

| | | |
|-----------------------|-----|--------------------|
| 1841 | 11' | 41 ^h 44 |
| 1842 | 10 | 33·47 |
| 1843 | 11 | 18·65 |
| 1844 | 9 | 39·04 |
| 1845 | 10 | 42·04 |
| 1846 | 10 | 8·63 |
| 1850 | 14 | 15·28 |
| 1855 | 9 | 25·71 |
| Mittel aus 8 Jahren = | 10 | 58·03 |

Juli.

| | | |
|-----------------------|-----|--------------------|
| 1841 | 10' | 14 ^h 65 |
| 1842 | 9 | 30·60 |
| 1843 | 10 | 9·33 |
| 1844 | 9 | 14·27 |
| 1845 | 9 | 33·02 |
| 1846 | 11 | 23·32 |
| 1850 | 12 | 49·54 |
| 1855 | 8 | 39·71 |
| Mittel aus 8 Jahren = | 10 | 11·80 |

August.

| | | |
|-----------------------|----|--------------------|
| 1841 | 9' | 39 ^h 31 |
| 1842 | 9 | 33·89 |
| 1843 | 10 | 15·61 |
| 1844 | 9 | 30·20 |
| 1845 | 9 | 50·65 |
| 1846 | 11 | 2·56 |
| 1850 | 12 | 4·80 |
| 1855 | 8 | 33·27 |
| Mittel aus 8 Jahren = | 10 | 3·78 |

September.

| | | |
|-----------------------|----|--------------------|
| 1841 | 9' | 19 ^h 45 |
| 1842 | 8 | 32·26 |
| 1843 | 9 | 30·63 |
| 1844 | 8 | 8·98 |
| 1845 | 8 | 41·93 |
| 1847 | 11 | 59·81 |
| 1850 | 11 | 32·74 |
| 1855 | 7 | 14·98 |
| Mittel aus 8 Jahren = | 9 | 22·51 |

October.

| | | |
|-----------------------|----|--------------------|
| 1840 | 7' | 48 ^h 04 |
| 1841 | 7 | 55·01 |
| 1842 | 7 | 46·25 |
| 1843 | 7 | 33·42 |
| 1844 | 7 | 2·92 |
| 1845 | 7 | 52·27 |
| 1855 | 6 | 18·36 |
| Mittel aus 7 Jahren = | 7 | 10·90 |

November.

| | | |
|-----------------------|----|--------------------|
| 1840 | 5' | 22 ^h 11 |
| 1841 | 4 | 39·33 |
| 1842 | 5 | 9·20 |
| 1843 | 5 | 2·70 |
| 1844 | 5 | 13·92 |
| 1845 | 5 | 29·11 |
| 1855 | 3 | 56·04 |
| Mittel aus 7 Jahren = | 4 | 58·91 |

December.

| | | |
|-----------------------|----|--------------------|
| 1839 | 3' | 17 ^h 54 |
| 1840 | 6 | 49·00 |
| 1841 | 4 | 17·42 |
| 1842 | 4 | 29·15 |
| 1843 | 4 | 49·55 |
| 1844 | 5 | 13·69 |
| 1845 | 4 | 4·19 |
| 1855 | 1 | 20·83 |
| Mittel aus 8 Jahren = | 4 | 17·68 |

Ich stelle hier auch die mittleren Krakauer Zeiten zusammen, an welchen nach diesen Beobachtungen das Minimum und Maximum der Declination in den verschiedenen Monaten eintrat.

| Monat und Jahr | Zeit des Minimum | Zeit des Maximum | Monat und Jahr | Zeit des Minimum | Zeit des Maximum |
|---------------------|------------------------|------------------------|---------------------|------------------------|------------------------|
| Jänner 1840 | 8 ^h 50' 58" | 1 ^h 41' 2" | Februar 1841 | 8 ^h 44' 58" | 1 ^h 43' 17" |
| 1841 | 48 26 | 40 12 | 1842 | 38 0 | 35 34 |
| 1842 | 42 58 | 37 3 | 1843 | 38 9 | 37 24 |
| 1843 | 38 19 | 36 58 | 1844 | 36 43 | 34 46 |
| 1844 | 38 19 | 34 56 | 1845 | 39 32 | 38 32 |
| 1845 | 36 7 | 34 1 | 1846 | 39 6 | 38 37 |
| 1846 | 40 23 | 35 44 | 1850 | 44 0 | 44 0 |
| 1850 | 42 0 | 42 0 | Mittel aus 7 Jahren | 8 ^h 40' 4" | 1 ^h 38' 51" |
| Mittel aus 8 Jahren | 8 ^h 41' 18" | 1 ^h 37' 44" | | | |

Variationen der Declination der Magnetenadel, beobachtet in Krakau.

| Monat und Jahr | Zeit des Minimum | Zeit des Maximum | Monat und Jahr | Zeit des Minimum | Zeit des Maximum |
|---------------------|-------------------------|-------------------------|---------------------|-------------------------|-------------------------|
| März 1841 | 8 ^h 42' | 1 ^h 45' | August 1841 | 8 ^h 34' 47'' | 1 ^h 39' 11'' |
| 1842 | 40 | 35 5 | 1842 | 34 4 | 38 2 |
| 1843 | 39 | 37 47 | 1843 | 34 52 | 35 22 |
| 1844 | 38 17 | 36 47 | 1844 | 33 19 | 36 56 |
| 1845 | 37 42 | 38 31 | 1845 | 33 47 | 37 2 |
| 1846 | 38 39 | 36 31 | 1846 | 38 46 | 37 21 |
| 1850 | 42 | 43 2 | 1847 | 37 19 | 41 32 |
| Mittel aus 7 Jahren | 8 ^h 39' 52'' | 1 ^h 38' 0'' | 1850 | 40 8 | 42 8 |
| April 1841 | 8 ^h 41' 36'' | 1 ^h 43' 18'' | Mittel aus 8 Jahren | 8 ^h 35' 55'' | 1 ^h 38' 31'' |
| 1842 | 36 0 | 37 42 | September 1841 | 8 ^h 39' 54'' | 1 ^h 35' 59'' |
| 1843 | 35 20 | 36 39 | 1842 | 39 3 | 35 7 |
| 1844 | 38 36 | 37 5 | 1843 | 36 18 | 36 0 |
| 1845 | 36 20 | 38 6 | 1844 | 34 26 | 34 15 |
| 1846 | 36 58 | 37 59 | 1845 | 37 46 | 36 40 |
| 1850 | 39 36 | 41 48 | 1847 | 37 12 | 39 6 |
| Mittel aus 7 Jahren | 8 ^h 37' 47'' | 1 ^h 38' 56'' | 1850 | 40 28 | 42 4 |
| Mai 1841 | 8 ^h 40' 44'' | 1 ^h 44' 23'' | Mittel aus 7 Jahren | 8 ^h 37' 47'' | 1 ^h 37' 2'' |
| 1842 | 38 41 | 36 49 | October 1840 | 8 ^h 47' 11'' | 1 ^h 39' 11'' |
| 1843 | 32 31 | 38 10 | 1841 | 40 54 | 37 42 |
| 1844 | 35 38 | 37 33 | 1842 | 37 3 | 37 27 |
| 1845 | 32 10 | 33 50 | 1843 | 36 0 | 37 58 |
| 1846 | 34 22 | 36 35 | 1844 | 37 24 | 38 8 |
| 1850 | 39 20 | 40 45 | 1845 | 39 10 | 35 44 |
| Mittel aus 7 Jahren | 8 ^h 36' 12'' | 1 ^h 38' 18'' | 1847 | 39 46 | 38 0 |
| Juni 1841 | 8 ^h 39' 43'' | 1 ^h 43' 36'' | 1850 | 11 16 | 13 |
| 1842 | 35 36 | 38 51 | Mittel 8 Jahren | 8 ^h 39' 50'' | 1 ^h 38' 24'' |
| 1843 | 34 15 | 38 30 | November 1840 | 8 ^h 47' 54'' | 1 ^h 39' 37'' |
| 1844 | 36 0 | 37 36 | 1841 | 39 0 | 37 0 |
| 1845 | 34 21 | 37 6 | 1842 | 39 25 | 34 51 |
| 1846 | 0 45 | 40 36 | 1843 | 37 55 | 33 40 |
| 1850 | 40 46 | 43 50 | 1844 | 36 43 | 33 57 |
| Mittel aus 7 Jahren | 8 ^h 36' 47'' | 1 ^h 40' 1'' | 1845 | 38 47 | 34 33 |
| Juli 1841 | 8 ^h 36' 42'' | 1 ^h 41' 15'' | Mittel aus 6 Jahren | 8 ^h 39' 57'' | 1 ^h 35' 36'' |
| 1842 | 34 34 | 41 35 | December 1840 | 8 ^h 46' 12'' | 1 ^h 42' 0'' |
| 1843 | 35 7 | 39 43 | 1841 | 40 15 | 35 42 |
| 1844 | 33 49 | 37 18 | 1842 | 38 31 | 34 53 |
| 1845 | 35 40 | 40 44 | 1843 | 38 45 | 34 59 |
| 1846 | 38 1 | 41 47 | 1844 | 39 45 | 34 35 |
| 1850 | 40 25 | 39 | 1845 | 40 38 | 36 44 |
| Mittel aus 7 Jahren | 8 ^h 37' 1'' | 1 ^h 40' 12'' | Mittel aus 6 Jahren | 8 ^h 40' 41'' | 1 ^h 36' 29'' |

Diese Beobachtungen ergaben auch mit einander verglichen die jährliche Abnahme der Declination. So ergab das Jahr 1842 vom 1. April bis Ende März 1843, verglichen mit dem vorhergehenden Jahre, im Mittel eine jährliche Abnahme von 7' 59" 55; die Göttinger Beobachtungen gaben für diese Zeit dieselbe = 7' 56" 6. Das Jahr 1843 und 1844 ergab dieselbe = 4' 18" 21, das Jahr 1845 = 6' 32" 8.

Wie ich anfangs erwähnte, habe ich auch öfters die Constanten zur Ermittlung der absoluten Declination bestimmt. Ich führe einige dieser Bestimmungen hier an: so fand ich am 1. December 1839 die Declination = 13° 6' 20" 2, März 1842 = 12° 42' 34" 5,

März 1843 = $12^{\circ} 34' 55''$, welche zwei Bestimmungen die jährliche Abnahme von $7' 39''$ ergaben; im December 1842 = $12^{\circ} 37' 26''$, im September 1843 = $12^{\circ} 30' 8''$.

Herr Director Dr. Kreil hat am 30. Juli 1857 die Declination hier in Krakau mit einem Lamont'schen Theodoliten bestimmt, und gefunden $10^{\circ} 52' 9''$, was, verglichen mit meinen Bestimmungen im März und September 1843, eine jährliche Abnahme von $7' 0''$ ergibt. — Im Juni 1844 fand ich die Declination = $12^{\circ} 22' 5''$.

Die Vergleichen der Beobachtungen im October, November und December 1843, 1844, 1845 zeigten einen merkwürdigen Gang, es trat nämlich eine Verringerung der jährlichen Abnahme der Declination ein, und sogar öfters eine Zunahme derselben. Um diesen Gang übersichtlich zu machen, habe ich die jährlichen Änderungen von 5 zu 5 Tagen zusammengestellt bis Ende Mai 1846 und füge sie hier bei:

| Tag und Jahr | Abnahme im Mittel | Tag und Jahr | Abnahme im Mittel | Tag und Jahr | Abnahme im Mittel |
|-----------------------|-----------------------|-----------------|-----------------------|---------------------|-----------------------|
| 1843 und 1844. | | 20—24. März | 3' 57 ² 96 | 11—15. October | 7' 51 ⁵ 82 |
| 1— 5. October | 6' 39 ⁵ 33 | 25—29. „ | 4. 52 ³ 39 | 16—20. | 6 54 ⁶ 61 |
| 6—10. | 6 35 ⁸ 88 | 30— 3. April | 7 41 ⁹ 97 | 21—25. | 6 44 ⁸ 88 |
| 11—15. | 6 36 ³ 34 | 4— 8. | 5 19 ¹ 16 | 26—30. „ | 9 25 ³ 34 |
| 16—20. | 5 56 ⁷ 72 | 9—13. | 4 44 ⁹ 97 | 31— 4. November | 9 30 ¹ 12 |
| 21—25. | 4 39 ¹ 12 | 14—18. | 5 57 ⁰ 06 | 5— 9. | 8 27 ⁹ 95 |
| 26—30. „ | 2 56 ⁴ 45 | 19—23. | 1 50 ³ 35 | 10—14. | 9 19 ¹ 11 |
| 31— 4. November | 0 33 ² 21 | 24—28. „ | 3 26 ² 28 | 15—19. | 13 23 ⁵ 57 |
| 5— 9. | 1 4 ² 29 | 29— 3. Mai | 4 47 ⁵ 55 | 20—24. | 11 54 ⁹ 99 |
| | Zunahme | 4— 8. | 4 35 ⁶ 66 | 25—29. „ | 12 46 ¹ 15 |
| 10—14. | 1 14 ⁸ 82 | 9—13. | 4 33 ⁶ 61 | 30— 4. December | 9 44 ⁷ 76 |
| 15—19. | 3 5 ³ 38 | 14—18. | 4 15 ¹ 17 | 5— 9. | 8 25 ¹ 11 |
| | Abnahme | 19—23. „ | 4 36 ⁶ 62 | 10—14. | 9 23 ⁸ 87 |
| 20—24. | 0 51 ³ 31 | 24—28. „ | 4 36 ⁷ 72 | 15—19. | 11 4 ⁰ 02 |
| 25—29. | 0 33 ¹ 10 | 29— 2. Juni | 5 30 ⁹ 94 | 20—24. | 10 43 ⁷ 79 |
| | Zunahme | 3— 7. | 5 7 ⁵ 53 | 25—29. „ | 11 28 ¹ 17 |
| 30— 4. December | 1 22 ⁰ 09 | 8—12. | 5 21 ⁸ 80 | 30— 3. Jänner | 10 35 ⁹ 95 |
| | Abnahme | 13—17. | 6 55 ⁶ 61 | | |
| 5— 9. | 1 17 ⁷ 73 | 18—22. | 5 40 ³ 35 | 1845 — 1846. | |
| 10—14. | 3 39 ⁹ 93 | 23—27. „ | 4 31 ⁹ 93 | 4— 8. Jänner | 9 39 ¹ 15 |
| 15—19. | 3 40 ³ 36 | 28— 2. Juli | 5 1 ³ 37 | 9—13. | 10 16 ⁷ 77 |
| 20—24. | 4 52 ⁴ 45 | 3— 7. | 5 29 ⁰ 06 | 14—18. | 10 31 ⁷ 74 |
| 25—29. „ | 0 24 ² 26 | 8—12. | 4 42 ² 26 | 19—23. | 10 16 ⁰ 01 |
| 30— 3. Jänner | 4 34 ² 21 | 13—17. | 7 30 ¹ 18 | 24—28. „ | 10 15 ⁵ 56 |
| | | 18—22. | 4 38 ⁸ 84 | 29— 2. Februar | 10 56 ⁰ 03 |
| 1844 — 1845. | | 23—27. „ | 7 59 ⁷ 78 | 3— 7. | 10 15 ² 20 |
| 4— 8. Jänner | 7 2 ⁰ 08 | 28— 1. August | 7 29 ⁴ 45 | 8—12. | 10 2 ⁹ 99 |
| 9—13. | 4 17 ³ 39 | 2— 6. | 2 44 ³ 38 | 13—17. | 9 1 ⁸ 88 |
| 14—18. | 4 37 ³ 31 | 7—11. | 2 49 ⁶ 60 | 18—22. | 11 8 ⁹ 95 |
| 19—23. | 3 40 ⁹ 93 | 12—16. | 7 4 ⁷ 77 | 23—27. „ | 9 53 ⁰ 07 |
| 24—28. „ | 4 41 ⁶ 68 | 17—21. | 4 45 ⁵ 51 | 28— 4. März | 9 57 ² 24 |
| 29— 2. Februar | 4 32 ⁷ 70 | 22—26. | 11 28 ¹ 18 | 5— 9. | 11 19 ⁰ 06 |
| 3— 7. | 4 22 ² 22 | 27—31. „ | 9 13 ³ 34 | 10—14. | 9 29 ⁸ 82 |
| 8—12. | 4 33 ⁷ 77 | 1— 5. September | 8 24 ⁶ 63 | 15—19. | 8 39 ⁴ 47 |
| 13—17. | 4 56 ⁸ 89 | 6—10. | 9 25 ⁰ 06 | 20—24. | 10 28 ⁷ 79 |
| 18—22. | 3 30 ² 22 | 11—15. | 8 54 ⁶ 69 | 25—29. „ | 9 50 ² 23 |
| 23—27. „ | 5 1 ⁰ 03 | 16—20. | 6 22 ⁰ 05 | 30— 3. April | 8 9 ⁰ 01 |
| 28— 4. März | 4 15 ² 27 | 21—25. | 6 16 ⁴ 41 | 4— 8. | 9 29 ³ 39 |
| 5— 9. | 3 40 ² 20 | 26—30. „ | 8 57 ⁶ 65 | 9—13. | 9 0 ⁹ 92 |
| 10—14. | 2 52 ⁷ 73 | 1— 5. October | 7 28 ⁵ 58 | 14—18. | 9 12 ⁶ 63 |
| 15—19. | 5 1 ⁷ 73 | 6—10. | 6 37 ⁶ 60 | 19—23. | 10 2 ¹ 18 |

Variationen der Declination der Magnetnadel, beobachtet in Krakau.

| Tag und Jahr | Abnahme im Mittel | Tag und Jahr | Abnahme im Mittel | Tag und Jahr | Abnahme im Mittel |
|--------------|-------------------------------------|--------------|------------------------------------|--------------|------------------------------------|
| 24—28. April | 10' 44 ⁵ / ₉₇ | 9—13. Mai | 9' 6 ² / ₈₂ | 19—23. Mai | 9' 56 ² / ₆₆ |
| 29— 3. Mai | 8 50 ⁷ / ₇₈ | 14—18. | 10 50 ⁰ / ₀₀ | 24—28. | 9 10 ⁹ / ₉₀ |
| 4— 8. | 9 3 ⁶ / ₂ | | | | |

Ausser den erwähnten regelmässigen täglichen Beobachtungen, wurden auch von mir zu den Zeiten eines Nordlichtes, einer Finsterniss während der ganzen Dauer des Phänomens der Gang der Declinationsnadel am Gauss'schen Apparate notirt. Besonders interessant ist der Gang der Declination während eines Nordlichtes; ich füge hier zum Beispiele die von mir während des Nordlichtes am 6. Februar 1840 beobachteten Declinationen der Magnetnadel bei.

| Mittlere Krakauer Zeit | Declination der Magnetnadel | Mittlere Krakauer Zeit | Declination der Magnetnadel | Mittlere Krakauer Zeit | Declination der Magnetnadel |
|------------------------|-----------------------------------------|------------------------|-----------------------------------------|------------------------|-----------------------------------------|
| 8 ^h 53' 40" | 120 43' 48 ² / ₁₂ | 9 ^h 7' 40" | 120 51' 27 ⁰ / ₀₃ | 9 ^h 48' 0" | 120 48' 28 ² / ₀₂ |
| 54 30 | 45 14 ¹ / ₁₅ | 9 0 | 52 47 ⁹ / ₉₄ | 52 0 | 50 40 ⁵ / ₅₁ |
| 55 35 | 45 1 ⁴ / ₄₅ | 12 0 | 53 53 ⁴ / ₄₂ | 55 0 | 52 21 ⁶ / ₆₄ |
| 56 25 | 45 1 ⁴ / ₄₅ | 15 0 | 55 18 ¹ / ₁₃ | 58 0 | 53 51 ⁴ / ₄₀ |
| 57 25 | 44 42 ⁴ / ₄₈ | 18 0 | 56 33 ⁹ / ₉₈ | 10 2 0 | 54 47 ⁵ / ₅₃ |
| 58 20 | 44 29 ⁸ / ₈₅ | 21 0 | 55 7 ⁷ / ₇₆ | 5 0 | 56 14 ⁷ / ₇₆ |
| 59 10 | 45 3 ⁹ / ₉₈ | 24 0 | 52 10 ⁰ / ₀₁ | 8 0 | 57 36 ¹ / ₁₈ |
| 9 0 0 | 45 46 ⁹ / ₉₇ | 27 0 | 50 7 ⁸ / ₈₉ | 12 0 | 57 7 ⁸ / ₈₆ |
| 0 55 | 46 7 ¹ / ₁₉ | 31 0 | 47 54 ¹ / ₁₄ | 15 0 | 57 12 ⁹ / ₉₁ |
| 1 40 | 46 9 ⁷ / ₇₁ | 34 0 | 47 5 ³ / ₃₄ | 19 0 | 57 25 ⁰ / ₀₅ |
| 2 40 | 47 5 ³ / ₃₅ | 37 0 | 46 33 ² / ₂₃ | 23 0 | 58 4 ² / ₂₄ |
| 3 40 | 47 34 ⁴ / ₄₂ | 40 0 | 46 36 ⁷ / ₇₇ | 26 0 | 59 26 ⁶ / ₆₇ |
| 6 0 | 50 35 ⁴ / ₄₁ | 45 0 | 47 52 ² / ₂₉ | | |

Einige Male habe ich auch mit einem freilich nicht sehr vollkommenen Instrumente die Inclination der Nadel bestimmt, ich fand sie so z. B. den 30. Juli 1839 = 66° 8' 16", den 13., 14., 15. April 1844 im Mittel = 65° 50' 46".

Indem ich hier einige Resultate der von mir gemachten so zahlreichen Beobachtungen mittheile, bemerke ich nur noch, dass ich weitere Untersuchungen einer ferneren Zeit, wenn ich dazu Musse finde, vorbehalte.

Variationen der Declination der Magnetnadel.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|---------------------------------|-----|-----------------------|----------------------------------|-----------------------|----------------------------------|---------------------------------|
| Im December 1839. | | | | | | 11 | 8 ^h 40' 0" | 495 ⁶ / ₆₆ | 1 ^h 40' 0" | 479 ³ / ₃₅ | 16 ³ / ₃₁ |
| 1 | 8 ^h 40' 0" | 493 ⁹ / ₉₀ | 1 ^h 40' 0" | 487 ⁶ / ₆₀ | 6 ³ / ₃₀ | 12 | 40 0 | 90 ⁴ / ₄₀ | 40 0 | 86 ⁴ / ₄₀ | 4 ⁰ / ₀₀ |
| 2 | 40 0 | 97 ⁶ / ₆₄ | 40 0 | 89 ⁰ / ₀₀ | 8 ⁶ / ₆₄ | 13 | 40 0 | 94 ⁸ / ₈₉ | 40 0 | 88 ⁷ / ₇₅ | 6 ¹ / ₁₄ |
| 3 | 40 0 | 97 ⁷ / ₇₁ | 40 0 | 90 ² / ₂₅ | 7 ⁴ / ₄₆ | 14 | 40 0 | 91 ³ / ₃₉ | 40 0 | 89 ¹ / ₁₁ | 2 ² / ₂₈ |
| 4 | 40 0 | 98 ⁴ / ₄₅ | 40 0 | 92 ¹ / ₁₂ | 6 ³ / ₃₃ | 15 | 40 0 | 98 ⁵ / ₅₀ | 40 0 | 87 ⁷ / ₇₅ | 10 ⁷ / ₇₅ |
| 5 | 40 0 | 96 ⁶ / ₆₀ | 40 0 | 90 ⁷ / ₇₁ | 5 ⁸ / ₈₉ | 16 | 40 0 | 99 ⁶ / ₆₆ | 40 0 | 91 ⁵ / ₅₁ | 8 ¹ / ₁₅ |
| 6 | 40 0 | 98 ² / ₂₈ | 40 0 | 92 ⁵ / ₅₀ | 5 ⁷ / ₇₈ | 17 | 40 0 | 97 ⁵ / ₅₃ | 40 0 | 81 ² / ₂₉ | 16 ² / ₂₄ |
| 7 | 40 0 | 98 ² / ₂₁ | 40 0 | 91 ³ / ₃₇ | 6 ⁸ / ₈₄ | 18 | 40 0 | 503 ³ / ₃₅ | 40 0 | 89 ² / ₂₀ | 14 ¹ / ₁₅ |
| 8 | 40 0 | 95 ⁸ / ₈₀ | 40 0 | 89 ⁰ / ₀₄ | 6 ⁷ / ₇₆ | 19 | 40 0 | 489 ⁵ / ₅₅ | 40 0 | 91 ⁰ / ₀₃ | 1 ⁴ / ₄₈ |
| 9 | 40 0 | 501 ⁶ / ₆₀ | 40 0 | 89 ² / ₂₅ | 12 ³ / ₃₅ | 20 | 40 0 | 94 ⁵ / ₅₇ | 40 0 | 89 ⁰ / ₀₀ | 5 ⁵ / ₅₇ |
| 10 | 40 0 | 00 ⁷ / ₇₁ | 40 0 | 89 ⁶ / ₆₂ | 11 ⁰ / ₀₉ | 21 | 40 0 | 98 ¹ / ₁₅ | 40 0 | 87 ⁶ / ₆₄ | 10 ⁵ / ₅₁ |
| | | | | | | 22 | — | — | — | — | — |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|------------------------|---------|------------------------|---------|-----------------|-----|------------------------|---------|------------------------|---------|-------------|
| 23 | — | — | — | — | — | 15 | 8 ^h 42' 0'' | 519.94 | 1 ^h 38' 0'' | 499.62 | 20.32 |
| 24 | — | — | 1 ^h 40' 0'' | 490.51 | — | 16 | 48 0 | 17.23 | 33 0 | 90.50 | 26.73 |
| 25 | — | — | — | — | — | 17 | 34 0 | 17.93 | 56 0 | 95.90 | 22.03 |
| 26 | — | — | — | — | — | 18 | 56 30 | 19.82 | — | — | — |
| 27 | 8 ^h 40' 0'' | 495.69 | 40 0 | 90.25 | 5.44 | 19 | 55 0 | 06.58 | 36 30 | 493.02 | 13.56 |
| 28 | 40 0 | 83.69 | 40 0 | 81.16 | 12.73 | 20 | 39 0 | 12.35 | 36 30 | 98.99 | 13.36 |
| 29 | 40 0 | 95.43 | 40 0 | 88.56 | 6.87 | 21 | 42 0 | 18.29 | 50 30 | 502.48 | 15.81 |
| 30 | 40 0 | 99.32 | 40 0 | 87.60 | 11.72 | 22 | 50 0 | 14.72 | 49 30 | 498.62 | 16.10 |
| 31 | 40 0 | 97.44 | — | — | — | 23 | 42 30 | 12.64 | 37 0 | 500.20 | 12.44 |
| Mittel | 8 40 0 | 496.320 | 1 40 0 | 488.483 | 7.87 = 3' 17.54 | 24 | 44 0 | 14.42 | 34 30 | 02.04 | 12.38 |

Mittel aus den Summen der Maxima und Minima = 492.401.

Im Jänner 1840.

| | | | | | |
|--------|----------------------|---------|------------------------|---------|-------------------|
| 1 | — | — | 1 ^h 30' 0'' | 492.40 | — |
| 2 | 9 ^h 0' 0' | 495.88 | 40 0 | 89.73 | 6.15 |
| 3 | 5 0 | 96.86 | 2 0 0 | 93.92 | 2.94 |
| 4 | 8 50 0 | 89.82 | 1 50 0 | 96.90 | -7.08 |
| 5 | 55 0 | 502.37 | 30 0 | 82.52 | 19.85 |
| 6 | 9 5 0 | 03.52 | 30 0 | 87.33 | 16.19 |
| 7 | 1 0 | 497.12 | 45 0 | 85.16 | 11.96 |
| 8 | 8 36 0 | 508.26 | 40 0 | 85.16 | 23.10 |
| 9 | 35 0 | 499.56 | 50 0 | 90.14 | 9.42 |
| 10 | 50 0 | 99.85 | 30 0 | 92.55 | 7.30 |
| 11 | 40 0 | 501.00 | 40 0 | 80.80 | 20.20 |
| 12 | — | — | 40 0 | 91.30 | — |
| 13 | 40 0 | 494.55 | 45 0 | 66.36 | 28.19 |
| 14 | 45 0 | 99.54 | 40 0 | 77.69 | 21.85 |
| 15 | 45 0 | 504.14 | 45 0 | 73.26 | 30.88 |
| 16 | 55 0 | 03.14 | 27 0 | 83.08 | 20.06 |
| 17 | 45 0 | 499.43 | 40 0 | 73.26 | 26.17 |
| 18 | 45 0 | 502.11 | 50 0 | 80.66 | 21.45 |
| 19 | 9 0 0 | 495.61 | 2 0 0 | 92.08 | 3.53 |
| 20 | 0 0 | 91.89 | 1 35 0 | 81.66 | 10.23 |
| 21 | 0 0 | 96.44 | 2 0 0 | 89.63 | 6.81 |
| 22 | 10 0 | 98.33 | 1 50 0 | 87.95 | 10.38 |
| 23 | 8 35 0 | 96.89 | 35 0 | 89.13 | 7.76 |
| 24 | 40 0 | 97.58 | 50 0 | 88.81 | 8.77 |
| 25 | 9 0 0 | 97.31 | 30 0 | 87.46 | 9.85 |
| 26 | 8 50 0 | 501.71 | 30 0 | 82.84 | 18.87 |
| 27 | — | — | 40 0 | 86.38 | — |
| 28 | 8 35 0 | 503.62 | 35 0 | 87.39 | 16.23 |
| 29 | 9 5 0 | 03.93 | 35 0 | 88.60 | 15.33 |
| 30 | 5 0 | 03.23 | 40 0 | 78.92 | 24.31 |
| 31 | 8 35 0 | 03.05 | 40 0 | 76.76 | 26.29 |
| Mittel | 8 50 58 | 499.526 | 1 41 2 | 485.156 | 14.892 = 6' 13.79 |

Bemerkungen. Den 1. und 2. Früh war die Nadel nicht zu beruhigen; — den 4. Früh merkwürdiger Gang; — den 10. Früh unruhig; — den 13. Nachmittags unruhig.

Mittel aus den Summen der Maxima und Minima = 492.341.
Grösste Declination den 13. mit 466.36 } grösste monatl. Oscillation
Kleinste " " 8. " 508.26 } 41.90 = 20' 32.41.
Grösste tägliche Oscillation den 13. = 28.19 = 11' 47.57.
Kleinste " " 3. = 2.94 = 1' 13.79.

Im October 1840.

| | | | | | |
|----|------------------------|--------|------------------------|--------|-------|
| 1 | — | — | — | — | — |
| 2 | — | — | — | — | — |
| 3 | — | — | — | — | — |
| 4 | — | — | — | — | — |
| 5 | — | — | — | — | — |
| 6 | 9 ^h 18' 31' | 522.68 | — | — | — |
| 7 | 8 57 30 | 19.67 | 1 ^h 21' 30' | 197.95 | 21.72 |
| 8 | 37 30 | 20.87 | 36 0 | 93.73 | 25.14 |
| 9 | 37 0 | 22.05 | 31 0 | 96.04 | 26.01 |
| 10 | 32 0 | 24.95 | 32 30 | 95.17 | 29.78 |
| 11 | 42 30 | 17.59 | 53 0 | 92.22 | 25.37 |
| 12 | 52 30 | 19.29 | 35 0 | 92.02 | 27.27 |
| 13 | 43 0 | 19.42 | 42 0 | 90.51 | 28.81 |
| 14 | 43 30 | 21.66 | 50 0 | 98.56 | 23.10 |

| | | | | | |
|--------|------------------------|---------|------------------------|---------|-------------------|
| 15 | 8 ^h 42' 0'' | 519.94 | 1 ^h 38' 0'' | 499.62 | 20.32 |
| 16 | 48 0 | 17.23 | 33 0 | 90.50 | 26.73 |
| 17 | 34 0 | 17.93 | 56 0 | 95.90 | 22.03 |
| 18 | 56 30 | 19.82 | — | — | — |
| 19 | 55 0 | 06.58 | 36 30 | 493.02 | 13.56 |
| 20 | 39 0 | 12.35 | 36 30 | 98.99 | 13.36 |
| 21 | 42 0 | 18.29 | 50 30 | 502.48 | 15.81 |
| 22 | 50 0 | 14.72 | 49 30 | 498.62 | 16.10 |
| 23 | 42 30 | 12.64 | 37 0 | 500.20 | 12.44 |
| 24 | 44 0 | 14.42 | 34 30 | 02.04 | 12.38 |
| 25 | 52 30 | 14.57 | 2 8 0 | 199.32 | 15.25 |
| 26 | 56 30 | 13.01 | 1 42 0 | 503.27 | 9.74 |
| 27 | 46 0 | 18.84 | 47 0 | 02.92 | 15.92 |
| 28 | 40 0 | 04.28 | 45 0 | 495.47 | 8.81 |
| 29 | 43 0 | 10.67 | 52 0 | 501.97 | 8.70 |
| 30 | 60 0 | 17.83 | 36 0 | 02.92 | 16.91 |
| 31 | 52 0 | 13.64 | 38 0 | 01.46 | 12.18 |
| Mittel | 8 47 11 | 516.729 | 1 39 11 | 497.788 | 18.647 = 7' 48.04 |

Mittel aus den Summen der Maxima und Minima = 507.258.

Grösste Declination den 16. mit 490.50 } grösste monatl. Oscillation
Kleinste " " 10. " 524.95 } 34.45 = 14' 24.69.
Grösste tägliche Oscillation den 10. = 29.783 = 12' 27.55.
Kleinste " " 28. = 8.808 = 3' 41.08.

Im November 1840.

| | | | | | |
|--------|-------------------------|---------|-------------------------|---------|-------------------|
| 1 | 8 ^h 48' 30'' | 515.75 | 1 ^h 38' 30'' | 503.86 | 11.89 |
| 2 | 50 0 | 15.57 | 35 30 | 03.03 | 12.54 |
| 3 | 40 30 | 16.62 | 42 0 | 04.74 | 11.88 |
| 4 | 48 0 | 15.47 | 43 30 | 07.48 | 7.99 |
| 5 | 50 30 | 14.50 | 36 0 | 06.86 | 7.64 |
| 6 | 40 0 | 15.47 | 50 0 | 00.96 | 14.51 |
| 7 | 45 30 | 16.58 | 54 0 | 06.02 | 10.56 |
| 8 | 47 0 | 14.23 | 36 30 | 00.04 | 14.19 |
| 9 | 42 0 | 06.27 | 38 0 | 499.56 | 6.71 |
| 10 | 45 0 | 17.78 | 39 30 | 505.62 | 12.16 |
| 11 | 55 30 | 16.22 | 52 0 | 08.66 | 7.56 |
| 12 | 54 0 | 18.26 | 51 0 | 06.54 | 11.72 |
| 13 | 53 0 | 15.37 | 35 0 | 493.48 | 21.89 |
| 14 | 36 30 | 16.92 | 37 0 | 508.27 | 8.65 |
| 15 | 38 30 | 10.58 | 40 0 | 496.73 | 13.85 |
| 16 | 55 0 | 15.17 | 37 0 | 92.84 | 22.33 |
| 17 | 50 30 | 17.92 | — | — | — |
| 18 | 44 30 | 14.65 | 43 30 | 505.45 | 9.20 |
| 19 | 46 30 | 17.04 | 33 30 | 07.82 | 9.22 |
| 20 | 52 30 | 12.79 | 42 30 | 02.17 | 10.62 |
| 21 | 35 30 | 14.36 | 48 0 | 198.70 | 15.66 |
| 22 | 50 30 | 03.18 | 33 30 | 503.67 | -0.49 |
| 23 | 40 30 | 16.43 | 36 30 | 06.51 | 9.92 |
| 24 | 45 0 | 14.08 | 29 30 | 190.56 | 23.52 |
| 25 | 49 0 | 16.95 | 35 30 | 506.45 | 10.50 |
| 26 | 9 8 0 | 17.83 | 34 30 | 01.97 | 16.86 |
| 27 | 8 53 0 | 18.47 | 40 0 | 06.67 | 11.70 |
| 28 | 40 0 | 18.71 | 30 0 | 199.54 | 19.17 |
| 29 | 58 0 | 21.13 | 35 0 | 93.50 | 27.63 |
| 30 | 54 0 | 15.95 | 42 0 | 505.02 | 10.93 |
| Mittel | 8 47 54 | 515.342 | 1 39 37 | 502.508 | 12.780 = 5' 22.11 |

Bemerkungen. Den 1. Nachmittags senkrechte Schwingungen; — den 7. Vormittags unregelmässig; — den 9. Nachmittags hoher Stand; — den 12. Früh unregelmässige Sprünge; — den 13. Nachmittags ein sehr merkwürdiger Gang; — den 15., 16. u. 22. Vor- u. Nachmittags merkwürdiger Gang und Stand; — den 24. Nachmittags merkwürdige senkrechte Schwingungen; — den 27. Nachmittags ein merkwürdiger Sprung; — den 29. Früh unruhig, Nachmittags sehr hoch.
Mittel aus den Summen der Maxima und Minima = 508.925.
Grösste Declination den 24. mit 490.558 } grösste monatl. Oscillation
Kleinste " " 29. " 521.133 } 30.575 = 12' 47.43.
Grösste tägliche Oscillation den 29. = 27.633 = 11' 33.59.
Kleinste " " 22. = -0.492 = 12' 35.
Nachmittags kleiner als Früh.

Variationen der Declination der Magnetnadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|-----------------------------------------------------------------------|------------------------|---------|-----------------------|---------|--------------------|
| Im December 1840. | | | | | |
| 1 | 8 ^h 41' 30" | 514.97 | 1 ^h 36' 0" | 503.17 | 11.80 |
| 2 | 39 30 | 14.02 | 36 30 | 07.25 | 6.77 |
| 3 | 47 30 | 15.94 | 53 0 | 03.73 | 12.21 |
| 4 | 50 0 | 14.62 | 37 0 | 492.85 | 21.77 |
| 5 | 40 0 | 16.31 | 39 0 | 504.31 | 12.00 |
| 6 | 51 0 | 12.62 | — | — | — |
| 7 | 46 0 | 17.32 | 58 0 | 507.90 | 9.42 |
| 8 | 47 0 | 15.96 | 28 0 | 02.72 | 13.24 |
| 9 | 45 0 | 14.70 | 35 30 | 06.42 | 8.28 |
| 10 | 34 0 | 16.67 | 40 0 | 09.08 | 7.59 |
| 11 | 52 30 | 18.16 | 43 0 | 496.35 | 21.81 |
| 12 | 41 30 | 14.85 | 38 30 | 89.59 | 25.26 |
| 13 | 9 0 0 | 20.26 | 43 30 | 512.52 | 7.70 |
| 14 | 8 38 0 | 17.72 | 40 0 | 03.21 | 14.51 |
| 15 | 55 30 | 19.42 | 40 30 | 07.57 | 11.85 |
| 16 | 43 0 | 18.72 | 50 0 | 06.34 | 12.38 |
| 17 | 47 30 | 18.12 | 30 0 | 496.31 | 21.81 |
| 18 | 54 30 | 15.32 | 40 30 | 505.30 | 10.02 |
| 19 | 52 30 | 16.71 | 37 0 | 501.26 | 15.45 |
| 20 | 48 0 | 12.67 | 42 0 | 491.38 | 21.29 |
| 21 | 37 0 | 15.55 | 59 0 | 498.07 | 17.48 |
| 22 | 44 0 | 15.97 | 38 0 | 506.32 | 9.65 |
| 23 | 43 30 | 20.77 | 52 30 | 498.92 | 21.85 |
| 24 | 51 30 | 24.75 | 31 0 | 506.80 | 17.95 |
| 25 | 45 30 | 20.52 | 41 0 | 06.57 | 13.95 |
| 26 | 52 0 | 19.91 | 37 30 | 08.74 | 11.17 |
| 27 | 38 0 | 20.04 | 47 0 | 01.86 | 18.18 |
| 28 | 40 0 | 18.88 | 42 0 | 00.47 | 18.41 |
| 29 | 40 30 | 17.82 | 49 30 | 489.55 | 28.27 |
| 30 | 40 30 | 27.52 | 46 0 | 95.14 | 22.38 |
| 31 | 51 0 | 09.21 | 50 0 | 504.74 | 4.47 |
| Mittel | 8 42 2 | 516.968 | 1 42 0 | 502.149 | 16.297 = 6' 49" 00 |
| Mittel aus den Summen der Maxima und Minima = 509.558. | | | | | |
| Grösste Declination den 29. mit 489.550 } grösste monatl. Oscillation | | | | | |
| Kleinste " " 24. " 524.750 } 35.20 = 14' 43".50 | | | | | |
| Grösste tägliche Oscillation den 29. = 28.267 = 11' 49" 50. | | | | | |
| Kleinste " " 31. = 4.466 = 1' 52" 10. | | | | | |
| Im Jänner 1841. | | | | | |
| 1 | 8 ^h 51' 0" | 517.92 | 1 ^h 31' 0" | 506.06 | 11.86 |
| 2 | 55 0 | 16.09 | 39 30 | 00.92 | 15.17 |
| 3 | 59 0 | 17.86 | 33 0 | 01.50 | 16.36 |
| 4 | 45 30 | 17.35 | 48 30 | 07.22 | 10.13 |
| 5 | 38 30 | 17.27 | 37 30 | 08.33 | 8.94 |
| 6 | 54 0 | 19.43 | 32 0 | 04.00 | 15.43 |
| 7 | 55 0 | 18.83 | 39 0 | 01.73 | 17.10 |
| 8 | 48 30 | 15.65 | 46 0 | 499.14 | 16.51 |
| 9 | 51 0 | 17.07 | 53 30 | 507.00 | 10.07 |
| 10 | 40 0 | 18.85 | 36 30 | 08.01 | 10.84 |
| 11 | 51 0 | 19.09 | 44 30 | 00.91 | 18.18 |
| 12 | 42 30 | 17.64 | 32 30 | 08.74 | 8.90 |
| 13 | 53 30 | 499.22 | 39 30 | 495.22 | 4.00 |
| 14 | 41 30 | 517.03 | 29 30 | 502.98 | 14.05 |
| 15 | 38 0 | 15.91 | 58 0 | 498.97 | 16.94 |
| 16 | 59 30 | 13.98 | 36 30 | 505.62 | 8.36 |
| 17 | 40 0 | 20.31 | 30 0 | 10.87 | 9.44 |
| 18 | 53 0 | 21.68 | 40 0 | 10.53 | 11.16 |
| 19 | 49 0 | 20.45 | 43 0 | 05.07 | 15.38 |
| 20 | 37 0 | 16.17 | 46 0 | 00.32 | 15.85 |
| 21 | 42 0 | 21.32 | 38 0 | 04.42 | 16.90 |
| 22 | 51 30 | 20.19 | 53 30 | 499.76 | 20.43 |
| 23 | 43 0 | 22.16 | 37 0 | 499.62 | 22.54 |
| 24 | 53 30 | 21.42 | 39 0 | 502.17 | 19.25 |
| 25 | 50 30 | 15.57 | 37 0 | 02.61 | 12.96 |
| 26 | 49 0 | 21.47 | 32 30 | 01.17 | 20.20 |
| 27 | 43 0 | 16.91 | 49 0 | 499.91 | 17.00 |
| 28 | 53 30 | 16.32 | 45 30 | 508.91 | 7.41 |
| 29 | 54 0 | 20.51 | 44 30 | 04.77 | 15.74 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|--------------------|
| 30 | 8 ^h 46' 0" | 521.90 | 1 ^h 37' 0" | 505.07 | 16.83 |
| 31 | 52 0 | 22.70 | 37 0 | 04.30 | 18.40 |
| Mittel | 8 48 26 | 518.009 | 1 40 12 | 503.737 | 14.272 = 5' 58" 23 |
| Bemerkungen. Den 11., 20., 22. und 23. Früh und Nachmittags unruhig; — den 13. Früh und Nachmittags hoher Stand; — den 21. und 25. Früh und Nachmittags unregelmässig; — den 31. Früh unruhig. | | | | | |
| Mittel aus den Summen der Maxima und Minima = 510.873. | | | | | |
| Grösste Declination den 13. mit 495.217 } grösste monatl. Oscillation | | | | | |
| Kleinste " " 31. " 522.700 } 27.483 = 11' 29".82 | | | | | |
| Grösste tägliche Oscillation den 23. = 22.533 = 9' 25" 58. | | | | | |
| Kleinste " " 13. = 4.000 = 1' 40" 40. | | | | | |
| Im Februar 1841. | | | | | |
| 1 | 8 ^h 47' 30" | 517.63 | 1 ^h 37' 0" | 507.97 | 9.66 |
| 2 | 47 0 | 20.37 | 35 30 | 11.96 | 8.41 |
| 3 | 51 0 | 22.12 | 38 30 | 07.17 | 15.95 |
| 4 | 49 0 | 21.85 | 37 0 | 04.82 | 17.03 |
| 5 | 53 30 | 21.50 | 38 30 | 02.04 | 19.46 |
| 6 | 37 0 | 23.25 | 37 0 | 07.19 | 16.06 |
| 7 | 43 0 | 16.97 | 33 0 | 497.09 | 19.86 |
| 8 | 50 30 | 21.39 | 53 30 | 510.84 | 10.55 |
| 9 | 40 0 | 22.39 | 36 0 | 484.08 | 28.31 |
| 10 | 50 30 | 24.99 | 47 30 | 505.88 | 19.11 |
| 11 | 50 30 | 22.91 | 44 30 | 498.60 | 24.31 |
| 12 | 54 30 | 19.62 | 48 30 | 503.63 | 15.99 |
| 13 | 34 0 | 24.55 | 50 30 | 03.82 | 20.73 |
| 14 | 47 30 | 26.43 | 54 30 | 07.08 | 19.35 |
| 15 | 47 30 | 24.47 | 41 30 | 497.83 | 26.64 |
| 16 | 44 30 | 25.71 | 31 30 | 98.57 | 27.14 |
| 17 | 52 0 | 19.44 | 41 30 | 505.22 | 14.22 |
| 18 | 53 30 | 24.07 | 53 30 | 03.81 | 20.26 |
| 19 | 41 30 | 20.38 | 41 0 | 08.20 | 12.18 |
| 20 | 53 30 | 21.28 | 53 30 | 04.83 | 19.45 |
| 21 | 43 0 | 24.92 | 35 0 | 06.64 | 18.28 |
| 22 | 37 0 | 24.72 | 53 30 | 06.07 | 18.65 |
| 23 | 41 30 | 23.11 | 55 30 | 492.46 | 30.65 |
| 24 | 37 0 | 24.77 | 52 0 | 502.38 | 22.39 |
| 25 | 44 0 | 19.61 | 34 0 | 03.21 | 16.40 |
| 26 | 37 0 | 20.97 | 38 30 | 494.13 | 26.84 |
| 27 | 20 0 | 18.07 | 50 0 | 506.23 | 11.84 |
| 28 | 48 30 | 15.57 | 37 40 | 7.12 | 8.15 |
| Mittel | 8 44 58 | 522.002 | 1 43 17 | 503.161 | 18.506 = 7' 44" 50 |
| Bemerkungen. Den 2. unruhig; — den 3. 4. 7. und 15. Nachmittags unruhig; — den 8. senkrechte Schwingungen; — den 11., 12. und 16. Früh unruhig; — den 22., 24. und 28. Früh unregelmässig; — den 25. Früh und Nachmittags unregelmässig. | | | | | |
| Mittel aus den Summen der Maxima und Minima = 512.581. | | | | | |
| Grösste Declination den 9. mit 484.083 } grösste monatl. Oscillation | | | | | |
| Kleinste " " 14. " 526.433 } 42.350 = 17' 42".98 | | | | | |
| Grösste tägliche Oscillation den 23. = 30.650 = 12' 49" 31. | | | | | |
| Kleinste " " 2. = 8.409 = 3' 31" 06. | | | | | |
| Im März 1841. | | | | | |
| 1 | 8 ^h 47' 30" | 518.62 | 1 ^h 56' 30" | 505.27 | 13.35 |
| 2 | 49 0 | 18.11 | 52 30 | 06.72 | 11.39 |
| 3 | 47 0 | 21.47 | 54 30 | 00.41 | 21.06 |
| 4 | 38 0 | 22.03 | 39 0 | 05.94 | 16.09 |
| 5 | 38 0 | 21.98 | 42 30 | 07.12 | 14.86 |
| 6 | 42 30 | 23.44 | 40 30 | 07.33 | 16.11 |
| 7 | 38 0 | 26.89 | 45 30 | 199.72 | 27.17 |
| 8 | 38 0 | 25.22 | 39 30 | 504.84 | 20.38 |
| 9 | 38 0 | 23.45 | 41 0 | 499.16 | 24.29 |
| 10 | 38 0 | 24.53 | 53 0 | 504.26 | 20.27 |
| 11 | 42 30 | 23.39 | 38 0 | 02.15 | 21.24 |
| 12 | 39 30 | 22.37 | 44 0 | 00.12 | 22.25 |
| 13 | 39 30 | 25.98 | 42 30 | 04.98 | 21.00 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|------------------------|---------|------------------------|---------|--------------------|
| 14 | 8 ^h 53' 0'' | 530.03 | 1 ^h 38' 0'' | 499.01 | 31.32 |
| 15 | 45 30 | 25.72 | 54 30 | 503.32 | 22.40 |
| 16 | 38 0 | 13.48 | 41 0 | 01.46 | 12.02 |
| 17 | 39 30 | 25.60 | 42 30 | 06.87 | 18.73 |
| 18 | 38 0 | 23.38 | 48 30 | 07.82 | 15.56 |
| 19 | 47 0 | 23.99 | 48 30 | 497.42 | 26.57 |
| 20 | 38 0 | 18.41 | 38 0 | 509.53 | 8.88 |
| 21 | 41 0 | 26.77 | 38 0 | 03.52 | 23.25 |
| 22 | 51 30 | 20.89 | 54 30 | 492.36 | 28.53 |
| 23 | 48 30 | 21.27 | 50 0 | 96.88 | 24.39 |
| 24 | 48 30 | 25.82 | 42 30 | 502.49 | 23.33 |
| 25 | 48 30 | 25.10 | 41 0 | 03.02 | 22.08 |
| 26 | 38 0 | 28.71 | 38 0 | 05.35 | 23.36 |
| 27 | 41 0 | 32.02 | 51 30 | 497.97 | 34.05 |
| 28 | 38 0 | 28.07 | 53 0 | 501.38 | 26.69 |
| 29 | 38 0 | 30.47 | 41 0 | 495.62 | 34.85 |
| 30 | 38 0 | 28.04 | 38 0 | 98.67 | 29.37 |
| 31 | 39 30 | 29.91 | 50 0 | 502.42 | 27.49 |
| Mittel | 8 42 5 | 524.361 | 1 45 5 | 502.361 | 22.011 = 9' 12" 48 |

Bemerkungen. Den 1. Früh unregelmässiger Gang; — den 4. und 27. Früh senkrechte Schwingungen; — den 8. und 9. Früh und Nachmittags etwas senkrechte Schwingungen; — den 13., 14. und 26. Früh und Nachmittags senkrechte Schwingungen; — den 15., 18. und 24. Nachmittags kleine senkrechte Schwingungen; — den 16. Früh und Nachmittags kleine senkrechte Schwingungen; — den 31. Früh etwas senkrechte Schwingungen.

Mittel aus den Summen der Maxima und Minima = 513.361.
 Grösste Declination den 21. mit 492.358) grösste monatl. Oscillation
 Kleinste " 27. " 532.017) 39.659 = 16' 35" 44.
 Grösste tägliche Oscillation den 29. = 34.850 = 14' 34" 73.
 Kleinste " " " 20. = 8.875 = 3' 42" 76.

Im April 1841.

| | | | | | |
|--------|------------------------|---------|------------------------|---------|---------------------|
| 1 | 8 ^h 40' 0'' | 531.30 | 1 ^h 37' 0'' | 496.52 | 34.78 |
| 2 | 38 0 | 37.13 | 37 0 | 95.52 | 41.61 |
| 3 | 43 0 | 37.44 | 49 0 | 87.46 | 49.98 |
| 4 | 39 0 | 32.89 | 48 0 | 97.00 | 35.89 |
| 5 | 52 0 | 36.67 | 37 0 | 97.87 | 38.80 |
| 6 | 41 0 | 34.56 | 42 0 | 500.29 | 34.27 |
| 7 | 51 0 | 31.92 | 48 0 | 499.33 | 32.59 |
| 8 | 45 0 | 36.81 | 44 0 | 96.36 | 40.45 |
| 9 | 38 0 | 37.02 | 45 0 | 99.52 | 37.40 |
| 10 | 45 0 | 34.95 | 44 0 | 99.66 | 35.29 |
| 11 | 42 0 | 37.21 | 57 0 | 88.47 | 48.74 |
| 12 | 38 0 | 33.11 | 38 0 | 500.99 | 32.12 |
| 13 | 45 0 | 31.29 | 38 0 | 00.05 | 31.24 |
| 14 | 39 0 | 29.96 | 38 0 | 02.93 | 27.03 |
| 15 | 38 0 | 29.06 | 47 0 | 04.14 | 24.92 |
| 16 | 38 0 | 30.17 | 38 0 | 03.04 | 27.13 |
| 17 | 38 0 | 26.91 | 38 0 | 498.17 | 28.74 |
| 18 | 44 0 | 28.71 | 45 0 | 93.75 | 34.96 |
| 19 | 47 0 | 21.52 | 44 0 | 99.27 | 22.25 |
| 20 | 39 0 | 21.12 | 45 0 | 500.26 | 20.86 |
| 21 | 38 0 | 26.51 | 38 0 | 02.60 | 23.91 |
| 22 | 38 0 | 26.22 | 38 0 | 00.58 | 25.64 |
| 23 | 38 0 | 29.64 | 38 0 | 495.58 | 34.06 |
| 24 | 51 0 | 31.34 | 59 0 | 499.27 | 32.07 |
| 25 | 47 0 | 26.15 | 45 0 | 504.43 | 21.72 |
| 26 | 42 0 | 26.05 | 38 0 | 06.26 | 19.79 |
| 27 | 38 0 | 21.51 | 54 0 | 03.02 | 18.49 |
| 28 | 38 0 | 29.15 | 38 0 | 04.82 | 24.33 |
| 29 | 41 0 | 31.02 | 39 0 | 01.31 | 29.71 |
| 30 | 38 0 | 36.99 | 54 0 | 494.18 | 42.81 |
| Mittel | 8 41 6 | 530.811 | 1 43 3 | 499.089 | 31.722 = 13' 16" 13 |

Mittel aus den Summen der Maxima und Minima = 514.950.
 Grösste Declination den 3. mit 487.458) grösste monatl. Oscillation
 Kleinste " 3. " 537.442) 49.984 = 20' 54" 60.
 Grösste tägliche Oscillation den 3. = 49.984 = 20' 54" 60.
 Kleinste " " " 27. = 18.483 = 7' 43" 92.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|---------------------|-------------------------|---------|------------------------|---------|---------------------|
| Im Mai 1841. | | | | | |
| 1 | 8 ^h 39' 30'' | 534.27 | 1 ^h 47' 0'' | 502.49 | 31.78 |
| 2 | 42 30 | 30.58 | 39 30 | 08.60 | 21.98 |
| 3 | 38 0 | 33.49 | 47 0 | 02.31 | 31.18 |
| 4 | 41 0 | 34.67 | 38 0 | 499.17 | 35.50 |
| 5 | 39 30 | 28.82 | 39 30 | 502.33 | 26.49 |
| 6 | 42 30 | 27.30 | 53 0 | 496.93 | 30.37 |
| 7 | 39 30 | 30.37 | 39 30 | 505.60 | 24.77 |
| 8 | 51 30 | 27.28 | 41 0 | 03.06 | 24.22 |
| 9 | 54 30 | 28.07 | 44 0 | 03.52 | 24.55 |
| 10 | 38 0 | 28.65 | 38 0 | 488.41 | 40.24 |
| 11 | 38 0 | 28.07 | 48 30 | 504.13 | 23.94 |
| 12 | 38 0 | 30.12 | 41 0 | 05.47 | 24.65 |
| 13 | 45 30 | 27.42 | 54 30 | 09.59 | 17.83 |
| 14 | 54 30 | 30.49 | 38 0 | 05.47 | 25.02 |
| 15 | 38 0 | 31.87 | 48 30 | 07.95 | 23.92 |
| 16 | 38 0 | 28.82 | 38 0 | 01.82 | 26.90 |
| 17 | 39 30 | 29.52 | 54 30 | 02.29 | 27.23 |
| 18 | 39 30 | 27.32 | 38 0 | 09.31 | 18.01 |
| 19 | 53 0 | 23.51 | 38 0 | 05.92 | 17.59 |
| 20 | 39 30 | 27.09 | 41 0 | 12.72 | 14.37 |
| 21 | 38 0 | 32.67 | 39 30 | 05.84 | 26.83 |
| 22 | 39 30 | 31.17 | 38 0 | 02.16 | 29.01 |
| 23 | 38 0 | 30.72 | 53 0 | 00.01 | 30.71 |
| 24 | 38 0 | 29.90 | 45 30 | 02.48 | 27.42 |
| 25 | 51 30 | 26.00 | 69 30 | 01.53 | 24.47 |
| 26 | 36 0 | 33.90 | 36 0 | 04.49 | 29.41 |
| 27 | 36 0 | 22.75 | 43 30 | 487.92 | 34.83 |
| 28 | 37 30 | 25.08 | 46 30 | 501.67 | 23.41 |
| 29 | 0 0 | 31.62 | 35 0 | 04.94 | 26.68 |
| 30 | 45 30 | 29.10 | 53 0 | 02.27 | 26.83 |
| 31 | 53 0 | 28.15 | 50 0 | 04.79 | 23.36 |
| Mittel | 8 40 44 | 529.407 | 1 44 23 | 503.162 | 26.245 = 10' 58" 75 |

Bemerkungen. Den 1. Früh unregelmässig; — den 3. und 4. Früh unruhig; — den 8. Nachmittags plötzlich unruhig; — den 10. Nachmittags merkwürdiger Stand und Gang; — den 26. und 28. Früh kleine senkrechte Schwingungen; — den 27. Früh kleine senkrechte Schwingungen unregelmässig.
 Mittel aus den Summen der Maxima und Minima = 516.284.
 Grösste Declination den 27. mit 487.925) grösste monatl. Oscillation
 Kleinste " 4. " 534.675) 46.750 = 19' 33" 42.
 Grösste tägliche Oscillation den 10. = 40.242 = 16' 50" 07.
 Kleinste " " " 13. = 14.367 = 6' 0" 61.

Im Juni 1841.

| | | | | | |
|----|------------------------|--------|------------------------|--------|-------|
| 1 | 8 ^h 38' 0'' | 528.63 | 1 ^h 47' 0'' | 504.97 | 23.66 |
| 2 | 42 30 | 28.67 | 38 0 | 00.80 | 27.87 |
| 3 | 39 30 | 31.52 | 39 30 | 499.46 | 32.06 |
| 4 | 37 30 | 31.57 | 37 30 | 504.14 | 27.43 |
| 5 | 37 30 | 27.46 | 52 30 | 03.97 | 23.49 |
| 6 | 40 30 | 32.99 | 37 30 | 00.58 | 32.41 |
| 7 | 38 30 | 25.64 | 46 0 | 493.72 | 31.92 |
| 8 | 47 30 | 30.11 | 43 0 | 500.19 | 29.92 |
| 9 | 47 30 | 28.83 | 37 0 | 492.53 | 36.30 |
| 10 | 40 0 | 30.62 | 38 30 | 504.56 | 26.06 |
| 11 | 48 30 | 28.36 | 41 30 | 02.01 | 26.35 |
| 12 | 37 0 | 29.93 | 53 30 | 06.52 | 23.41 |
| 13 | 53 30 | 28.93 | 38 30 | 06.72 | 22.21 |
| 14 | 37 0 | 25.92 | 38 30 | 06.67 | 19.25 |
| 15 | 37 0 | 32.03 | 46 0 | 06.99 | 25.04 |
| 16 | 37 0 | 29.50 | 44 30 | 499.01 | 30.49 |
| 17 | 46 0 | 28.27 | 43 0 | 508.60 | 19.67 |
| 18 | 47 30 | 27.44 | 52 0 | 05.45 | 21.99 |
| 19 | 37 0 | 28.21 | 38 30 | 02.83 | 25.38 |
| 20 | 37 0 | 29.37 | 46 0 | 00.84 | 28.53 |
| 21 | 37 30 | 33.85 | 42 0 | 04.00 | 29.85 |
| 22 | 51 0 | 29.58 | 54 0 | 01.36 | 28.22 |
| 23 | 40 30 | 31.91 | 38 0 | 497.52 | 34.39 |
| 24 | 39 30 | 30.10 | 54 30 | 503.04 | 27.06 |
| 25 | 31 30 | 35.07 | 38 0 | 01.55 | 33.52 |

Variationen der Declination der Magnetenadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|-------------------------|---------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|------------------------|---------|-------------|-------|-------|-------|--------|-------|
| 26 | 8 ^h 30' 0'' | 534.51 | 1 ^h 54' 30'' | 508.28 | 26.23 | 7 | 8 ^h 49' 30'' | 532.41 | 1 ^h 30' 0'' | 505.47 | 26.94 | | | | | |
| 27 | 50 0 | 32.92 | 39 30 | 06.24 | 26.68 | 8 | 33 0 | 31.01 | 45 0 | 08.27 | 22.74 | | | | | |
| 28 | 30 0 | 35.46 | 53 0 | 04.24 | 31.22 | 9 | 30 0 | 31.12 | 45 0 | 07.87 | 23.25 | | | | | |
| 29 | 30 0 | 32.98 | 38 0 | 496.19 | 36.79 | 10 | 30 0 | 33.42 | 33 0 | 07.15 | 26.27 | | | | | |
| 30 | 34 30 | 34.17 | 38 0 | 503.19 | 30.98 | 11 | 36 0 | 28.69 | 30 0 | 09.58 | 19.11 | | | | | |
| Mittel | 8 39 43 | 500.486 | 1 43 36 | 502.473 | 27.946 | 12 | 40 30 | 31.97 | 33 0 | 06.50 | 25.47 | | | | | |
| <p>Bemerkungen. Den 2., 7., 8., 23., 24., 26. und 29. Früh etwas senkrechte Schwingungen; — den 6. Nachmittags etwas senkrechte Schwingungen; — den 16. und 17. Früh unruhig; — den 19. Früh und Nachmittags unruhig; — den 28. Früh unregelmässiger Gang.</p> <p>Mittel aus den Summen der Maxima und Minima = 516.479.</p> <p>Grösste Declination den 9. mit 492.533 } grösste monatl. Oscillation Kleinste " 28. " 535.458 } 42.925 = 17' 57".42.</p> <p>Grösste tägliche Oscillation den 29. = 36.791 = 15' 23".45.</p> <p>Kleinste " " " 14. = 19.242 = 8' 2".97.</p> | | | | | | <p>13</p> | | | | | | 46 30 | 29.77 | 39 0 | 09.71 | 20.06 |
| <p>Im Juli 1841.</p> | | | | | | <p>14</p> | | | | | | 30 0 | 34.47 | 39 0 | 10.50 | 23.97 |
| 1 | 8 ^h 45' 0'' | 531.01 | 1 ^h 42' 0'' | 504.87 | 26.14 | 15 | 30 0 | 17.91 | 55 0 | 08.91 | 9.00 | | | | | |
| 2 | 31 30 | 34.66 | 38 0 | 00.85 | 33.81 | 16 | 40 30 | 31.47 | 31 30 | 06.22 | 25.25 | | | | | |
| 3 | 36 0 | 31.02 | 54 30 | 04.37 | 26.65 | 17 | 30 0 | 25.61 | 34 30 | 12.47 | 13.14 | | | | | |
| 4 | 30 0 | 33.55 | 39 30 | 495.57 | 37.98 | 18 | 43 30 | 28.95 | 40 30 | 07.69 | 21.26 | | | | | |
| 5 | 38 0 | 33.36 | 50 0 | 506.05 | 27.31 | 19 | 31 30 | 31.94 | 48 0 | 09.65 | 22.29 | | | | | |
| 6 | 30 0 | 23.08 | 38 0 | 01.13 | 26.95 | 20 | 30 0 | 36.78 | 40 30 | 10.06 | 26.72 | | | | | |
| 7 | 31 30 | 28.02 | 34 30 | 07.33 | 20.69 | 21 | 37 30 | 34.79 | 43 30 | 498.06 | 36.73 | | | | | |
| 8 | 40 30 | 39.40 | 48 0 | 08.50 | 30.90 | 22 | 42 0 | 32.73 | 34 30 | 96.78 | 35.95 | | | | | |
| 9 | 39 0 | 34.50 | 31 30 | 06.93 | 27.57 | 23 | 30 0 | 30.43 | 39 0 | 501.26 | 29.17 | | | | | |
| 10 | 33 0 | 34.28 | 55 30 | 08.83 | 25.45 | 24 | 37 30 | 12.92 | 43 0 | 06.72 | 6.20 | | | | | |
| 11 | 39 0 | 28.52 | 37 30 | 06.59 | 21.93 | 25 | 31 30 | 33.06 | 39 0 | 14.94 | 19.12 | | | | | |
| 12 | 37 30 | 29.12 | 33 0 | 12.62 | 16.50 | 26 | 30 0 | 33.60 | 31 30 | 03.17 | 30.43 | | | | | |
| 13 | 55 30 | 24.96 | 31 30 | 07.11 | 17.85 | 27 | 30 0 | 13.46 | 49 30 | 498.37 | 15.09 | | | | | |
| 14 | 39 0 | 27.98 | 39 0 | 06.72 | 21.26 | 28 | 30 0 | 27.17 | 45 0 | 506.39 | 20.78 | | | | | |
| 15 | 43 30 | 24.36 | 36 0 | 02.71 | 21.65 | 29 | 45 0 | 22.37 | 51 0 | 03.67 | 18.70 | | | | | |
| 16 | 31 30 | 28.99 | 48 0 | 09.00 | 19.99 | 30 | 30 0 | 29.27 | 37 30 | 11.07 | 18.20 | | | | | |
| 17 | 40 30 | 25.92 | 49 30 | 11.47 | 14.45 | 31 | 30 0 | 30.33 | 30 0 | 11.09 | 19.24 | | | | | |
| 18 | 30 0 | 31.64 | 51 0 | 17.75 | 23.89 | Mittel | 8 34 47 | 529.127 | 1 39 11 | 506.079 | 23.080 | | | | | |
| 19 | 30 0 | 32.46 | 40 30 | 05.14 | 27.32 | <p>Bemerkungen. Den 2. Früh unruhig, Nachmittags senkrechte Schwingungen; — den 3. Früh etwas senkrechte Schwingungen; — den 7. Früh unregelmässig; — den 10., 12., 19., 20. und 21. Früh senkrechte Schwingungen; — den 11. Früh sehr unruhig; — den 13. Früh unruhig, unregelmässig; — den 15. und 27. Früh hoher Stand; — den 24. Früh senkrechte Schwingungen, hoher Stand; — den 29. und 31. Früh unregelmässige senkrechte Schwingungen.</p> <p>Mittel aus den Summen der Maxima und Minima = 517.603.</p> <p>Grösste Declination den 22. mit 496.783 } grösste monatl. Oscillation Kleinste " 20. " 536.783 } 40.000 = 16' 44".00.</p> <p>Grösste tägliche Oscillation den 21. = 36.734 = 15' 22".02.</p> <p>Kleinste " " " 24. = 6.200 = 2' 35".62.</p> | | | | | | | | | | |
| 20 | 49 30 | 25.32 | 54 0 | 496.28 | 29.04 | <p>Im September 1841.</p> | | | | | | | | | | |
| 21 | 31 30 | 33.32 | 37 30 | 504.55 | 28.77 | 1 | 8 ^h 30' 0'' | 526.42 | 1 ^h 30' 0'' | 507.72 | 18.70 | | | | | |
| 22 | 36 0 | 28.39 | 43 30 | 10.11 | 18.38 | 2 | 30 0 | 26.46 | 30 0 | 08.04 | 18.42 | | | | | |
| 23 | 34 30 | 28.65 | 30 0 | 03.55 | 25.10 | 3 | 49 30 | 35.61 | 39 0 | 10.77 | 24.84 | | | | | |
| 24 | 42 0 | 21.79 | 40 30 | 02.75 | 19.04 | 4 | 46 30 | 37.55 | 34 30 | 08.75 | 28.80 | | | | | |
| 25 | 30 0 | 37.05 | 48 0 | 05.72 | 31.33 | 5 | 40 30 | 38.17 | 31 30 | 05.52 | 32.65 | | | | | |
| 26 | 45 0 | 34.77 | 39 0 | 03.38 | 31.39 | 6 | 45 0 | 36.57 | 33 0 | 11.88 | 24.64 | | | | | |
| 27 | 30 0 | 32.25 | 33 0 | 10.06 | 22.19 | 7 | 37 30 | 35.81 | 42 0 | 12.17 | 23.64 | | | | | |
| 28 | 31 30 | 29.32 | 46 30 | 10.47 | 18.85 | 8 | 31 30 | 33.87 | 39 0 | 15.07 | 18.80 | | | | | |
| 29 | 45 0 | 29.65 | 31 30 | 07.76 | 21.89 | 9 | 33 0 | 34.99 | 30 0 | 11.99 | 23.00 | | | | | |
| 30 | 31 30 | 33.17 | 36 0 | 06.02 | 27.15 | 10 | 30 0 | 39.47 | 34 30 | 11.87 | 27.60 | | | | | |
| 31 | 30 0 | 28.80 | 42 0 | 11.07 | 17.73 | 11 | 37 30 | 32.99 | 46 30 | 16.19 | 16.80 | | | | | |
| Mittel | 8 36 42 | 530.461 | 1 41 15 | 505.974 | 24.448 | 12 | 40 30 | 39.39 | 33 0 | 12.12 | 27.27 | | | | | |
| <p>Bemerkungen. Den 3., 9. und 11. Früh unruhig; — den 12. Nachmittags etwas senkrechte Schwingungen; — den 14., 25. und 29. Früh etwas senkrechte Schwingungen; — den 16. und 23. Früh unregelmässig; — den 17. und 18. Früh senkrechte Schwingungen; — den 30. Früh etwas senkrechte Schwingungen, unruhig.</p> <p>Mittel aus den Summen der Maxima und Minima = 518.217.</p> <p>Grösste Declination den 4. mit 495.575 } grösste monatl. Oscillation Kleinste " 8. " 539.400 } 43.825 = 18' 20".01.</p> <p>Grösste tägliche Oscillation den 4. = 37.975 = 15' 53".17.</p> <p>Kleinste " " " 17. = 14.458 = 6' 2".89.</p> | | | | | | <p>13</p> | | | | | | 45 0 | 32.53 | 30 0 | 07.42 | 25.11 |
| <p>Im August 1841.</p> | | | | | | <p>14</p> | | | | | | 48 0 | 12.56 | 30 0 | 01.61 | 10.95 |
| 1 | 8 ^h 31' 30'' | 532.00 | 1 ^h 36' 0'' | 505.42 | 26.58 | 15 | 30 0 | 32.24 | 45 0 | 14.62 | 17.62 | | | | | |
| 2 | 39 0 | 29.4 | 40 30 | 498.94 | 30.60 | 16 | 36 0 | 34.89 | 34 30 | 08.14 | 26.75 | | | | | |
| 3 | 30 0 | 30.57 | 45 0 | 97.97 | 32.50 | 17 | 42 0 | 30.20 | 30 0 | 17.47 | 12.73 | | | | | |
| 4 | 42 0 | 24.68 | 30 0 | 510.10 | 14.58 | 18 | 36 0 | 36.87 | 30 0 | 11.10 | 25.77 | | | | | |
| 5 | 30 0 | 36.12 | 55 30 | 2.57 | 33.55 | 19 | 32 0 | 39.17 | 32 0 | 10.56 | 28.61 | | | | | |
| 6 | 31 30 | 24.34 | 30 0 | 1.86 | 22.48 | 20 | 54 0 | 41.31 | 45 0 | 11.84 | 29.47 | | | | | |
| | | | | | | <p>21</p> | | | | | | 43 30 | 35.93 | 37 30 | 14.38 | 21.55 |
| | | | | | | <p>22</p> | | | | | | 46 30 | 34.34 | 32 0 | 13.03 | 21.31 |
| | | | | | | <p>23</p> | | | | | | 49 30 | 37.14 | 33 0 | 15.16 | 21.98 |
| | | | | | | <p>24</p> | | | | | | 48 30 | 40.52 | 33 0 | 08.82 | 31.70 |
| | | | | | | <p>25</p> | | | | | | 36 0 | 28.02 | 46 30 | 489.44 | 38.58 |
| | | | | | | <p>26</p> | | | | | | 46 30 | 37.96 | 34 30 | 513.30 | 24.66 |
| | | | | | | <p>27</p> | | | | | | 33 0 | 23.52 | 33 0 | 13.72 | 98.00 |
| | | | | | | <p>28</p> | | | | | | 33 0 | 27.66 | 49 30 | 17.06 | 10.60 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|-----------------------|---------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|-----------------------|--------------------|--------------------|-------|-------|-------|-------|-------|
| 29 | 3 ^h 52' 0" | 525.67 | 1 ^h 34' 0" | 518.92 | 6.75 | 13 | 8 ^h 42' 0" | 532.39 | 1 ^h 30' 0" | 22.31 | 10.08 | | | | | |
| 30 | 34 0 | 34.88 | 46 0 | 15.41 | 19.47 | 14 | 44 0 | 27.73 | 32 0 | 13.21 | 14.52 | | | | | |
| Mittel | 8 39 54 | 533.425 | 1 35 59 | 511.137 | 22.289 = 9' 19" 45 | 15 | 55 0 | 26.65 | 41 0 | 23.51 | 3.14 | | | | | |
| <p>Bemerkungen. Den 16., 20. und 22. Früh unruhig; — den 3., 4., 10. und 13. Früh senkrechte Schwingungen; — den 6. Früh sehr unruhig; — den 14. Früh senkrechte Schwingungen, hoher Stand; — den 17., 18. und 21. Früh unruhig, unregelmässig; — den 23., 25., 29. und 30. Früh unruhig, senkrechte Schwingungen.</p> <p>Mittel aus den Summen der Maxima und Minima = 522.281. Grösste Declination den 25. mit 489.442 } grösste monatl. Oscillation Kleinste " " 20. " 541.308 } 51.866 = 21' 41" 84. Grösste tägliche Oscillation den 25. = 38.575 = 16' 8" 23. Kleinste " " 29. = 6.758 = 2' 49" 62.</p> | | | | | | <p>16</p> | | | | | | 39 0 | 35.85 | 35 0 | 25.32 | 10.53 |
| <p>Im October 1841.</p> | | | | | | <p>17</p> | | | | | | 30 0 | 32.52 | 41 0 | 17.17 | 15.35 |
| 1 | 8 ^h 53' 0" | 537.20 | 1 ^h 40' 0" | 517.16 | 20.04 | 18 | 30 0 | 32.63 | 32 0 | 27.47 | 5.16 | | | | | |
| 2 | 47 0 | 34.94 | 35 0 | 13.81 | 21.13 | 19 | 30 0 | 17.00 | 48 0 | 09.38 | 7.62 | | | | | |
| 3 | 49 0 | 36.92 | 34 0 | 16.09 | 20.83 | 20 | 30 0 | 25.97 | 56 0 | 21.78 | 4.19 | | | | | |
| 4 | 34 0 | 28.77 | 2 2 0 | 08.62 | 20.15 | 21 | 39 0 | 28.09 | 30 0 | 13.71 | 14.38 | | | | | |
| 5 | 33 0 | 35.62 | 1 30 0 | 09.77 | 25.85 | 22 | 50 0 | 34.26 | 31 0 | 22.00 | 12.26 | | | | | |
| 6 | 53 0 | 38.44 | 29 0 | 09.64 | 28.80 | 23 | 34 0 | 28.78 | 37 0 | 25.37 | 3.41 | | | | | |
| 7 | 29 0 | 34.73 | 33 0 | 13.11 | 21.62 | 24 | 40 0 | 33.32 | 38 0 | 21.62 | 11.70 | | | | | |
| 8 | 35 0 | 34.97 | 29 0 | 12.92 | 22.05 | 25 | 47 0 | 34.40 | 41 0 | 27.77 | 6.63 | | | | | |
| 9 | 39 0 | 27.82 | 38 0 | 17.16 | 20.66 | 26 | 34 0 | 35.12 | 31 0 | 27.89 | 7.23 | | | | | |
| 10 | 36 0 | 30.61 | 45 0 | 12.07 | 18.54 | 27 | 10 0 | 35.81 | 5 0 | 24.66 | 11.15 | | | | | |
| 11 | 33 0 | 30.15 | 30 0 | 14.92 | 15.23 | 28 | 43 0 | 35.57 | 40 0 | 23.45 | 12.12 | | | | | |
| 12 | 42 0 | 37.71 | 30 0 | 14.89 | 22.82 | 29 | 39 0 | 33.21 | 39 0 | 25.12 | 8.09 | | | | | |
| 13 | 30 0 | 34.27 | 39 0 | 16.89 | 17.38 | 30 | 50 0 | 35.62 | 32 0 | 16.54 | 19.08 | | | | | |
| 14 | 31 0 | 34.17 | 42 0 | 17.39 | 16.78 | Mittel | 8 39 0 | 531.542 | 1 37 0 | 520.412 | 11.130 = 4' 39" 33 | | | | | |
| 15 | 43 0 | 32.58 | 30 0 | 10.10 | 22.48 | <p>Mittel aus den Summen der Maxima und Minima = 525.977. Grösste Declination den 6. mit 505.933 } grösste monatl. Oscillation Kleinste " " 1. " 536.883 } 30.950 = 12' 56" 84. Grösste tägliche Oscillation den 4. = 21.167 = 8' 51" 29. Kleinste " " 15. = 3.142 = 1' 18" 86.</p> | | | | | | | | | | |
| 16 | 32 0 | 35.21 | 31 0 | 18.55 | 16.66 | <p>Im December 1841.</p> | | | | | | | | | | |
| 17 | 30 0 | 33.73 | 39 0 | 17.11 | 16.62 | 1 | 8 ^h 39' 0" | 534.96 | 1 ^h 30' 0" | 514.27 | 20.69 | | | | | |
| 18 | 30 0 | 31.63 | 36 0 | 12.94 | 18.69 | 2 | 54 0 | 34.03 | 30 0 | 16.77 | 17.26 | | | | | |
| 19 | 43 0 | 35.33 | 46 0 | 16.76 | 18.57 | 3 | 31 30 | 28.92 | 30 0 | 07.32 | 21.60 | | | | | |
| 20 | 33 0 | 33.67 | 30 0 | 18.97 | 14.70 | 4 | 53 0 | 29.87 | 30 0 | 16.72 | 13.15 | | | | | |
| 21 | 52 0 | 35.33 | 36 0 | 07.27 | 28.06 | 5 | 42 0 | 32.15 | 31 30 | 23.82 | 8.33 | | | | | |
| 22 | 49 0 | 38.65 | 45 0 | 16.95 | 21.70 | 6 | 33 0 | 30.01 | 36 0 | 24.37 | 5.64 | | | | | |
| 23 | 46 0 | 36.27 | 30 0 | 16.33 | 20.94 | 7 | 31 0 | 34.93 | 40 0 | 26.51 | 8.42 | | | | | |
| 24 | 44 0 | 39.02 | 32 0 | 11.80 | 27.22 | 8 | 37 0 | 32.16 | 38 30 | 17.52 | 14.64 | | | | | |
| 25 | 46 0 | 13.62 | 2 2 0 | 490.48 | 3.14 | 9 | 33 0 | 36.80 | 31 0 | 19.30 | 17.50 | | | | | |
| 26 | 46 0 | 22.98 | 2 0 0 | 516.71 | 6.27 | 10 | 32 30 | 34.65 | 40 0 | 21.94 | 13.71 | | | | | |
| 27 | 30 0 | 30.82 | 1 37 0 | 26.84 | 3.98 | 11 | 33 0 | 33.34 | 39 0 | 26.97 | 6.37 | | | | | |
| 28 | 48 0 | 34.00 | 34 0 | 18.24 | 15.76 | 12 | 34 30 | 33.16 | 31 30 | 20.82 | 13.34 | | | | | |
| 29 | 38 0 | 33.92 | 44 0 | 23.10 | 10.82 | 13 | 40 30 | 32.96 | 31 30 | 26.92 | 6.04 | | | | | |
| 30 | 43 0 | 35.99 | 30 0 | 21.85 | 14.14 | 14 | 46 30 | 32.12 | 33 0 | 24.37 | 7.75 | | | | | |
| 31 | 50 0 | 34.70 | 32 0 | 19.62 | 15.08 | 15 | 31 30 | 34.63 | 45 0 | 29.82 | 4.81 | | | | | |
| Mittel | 8 40 9 | 533.348 | 1 37 7 | 514.776 | 18.927 = 7' 55" 01 | 16 | 33 0 | 34.57 | 31 30 | 27.12 | 7.45 | | | | | |
| <p>Bemerkungen. Den 25. merkwürdig hoher Stand. Mittel aus den Summen der Maxima und Minima = 524.062. Grösste Declination den 25. mit 490.483 } grösste monatl. Oscillation Kleinste " " 22. " 538.650 } 48.167 = 20' 8" 99. Grösste tägliche Oscillation den 6. = 28.800 = 12' 2" 88. Kleinste " " 27. = 3.975 = 1' 29" 77.</p> | | | | | | <p>17</p> | | | | | | 51 0 | 37.35 | 31 30 | 16.22 | 21.13 |
| <p>Im November 1841.</p> | | | | | | <p>18</p> | | | | | | 48 0 | 31.98 | 31 30 | 27.69 | 4.29 |
| 1 | 8 ^h 43' 0" | 536.88 | 1 ^h 32' 0" | 521.06 | 15.82 | 19 | 48 0 | 36.34 | 31 30 | 15.52 | 20.82 | | | | | |
| 2 | 36 0 | 34.05 | 36 0 | 22.32 | 11.73 | 20 | 40 30 | 31.85 | 42 0 | 24.42 | 7.43 | | | | | |
| 3 | 31 0 | 34.25 | 46 0 | 24.29 | 9.96 | 21 | 45 0 | 34.74 | 32 0 | 27.56 | 7.18 | | | | | |
| 4 | 49 0 | 33.02 | 31 0 | 11.85 | 21.17 | 22 | 32 0 | 33.38 | 33 30 | 28.48 | 4.90 | | | | | |
| 5 | 56 0 | 29.56 | 47 0 | 10.47 | 19.09 | 23 | 44 0 | 30.27 | 32 0 | 30.50 | -0.23 | | | | | |
| 6 | 60 0 | 36.02 | 38 0 | 19.73 | 16.39 | 24 | 42 30 | 34.92 | 2 0 30 | 17.42 | 17.50 | | | | | |
| 7 | 55 0 | 25.45 | 50 0 | 05.93 | 19.52 | 25 | 42 30 | 36.77 | 1 48 30 | 29.49 | 7.28 | | | | | |
| 8 | 33 0 | 30.17 | 31 0 | 21.53 | 8.64 | 26 | 42 30 | 35.28 | 32 0 | 25.87 | 9.41 | | | | | |
| 9 | 32 0 | 28.47 | 43 0 | 23.25 | 5.22 | 27 | 44 0 | 33.71 | 33 30 | 27.63 | 6.18 | | | | | |
| 10 | 39 0 | 32.42 | 51 0 | 22.27 | 10.15 | 28 | 47 0 | 35.74 | 50 0 | 27.72 | 8.02 | | | | | |
| 11 | 31 0 | 30.44 | 34 0 | 20.01 | 10.43 | 28 | 41 30 | 34.49 | 37 0 | 28.51 | 5.98 | | | | | |
| 12 | 32 0 | 30.56 | 35 0 | 21.35 | 9.21 | 30 | 49 0 | 32.75 | 31 30 | 25.86 | 6.89 | | | | | |
| <p>Mittel</p> | | | | | | 8 40 15 | 533.516 | 1 35 42 | 523.326 | 10.258 = 4' 17" 42 | | | | | | |
| <p>Bemerkungen. Den 17., 18. und 19. Früh unruhig; — den 23. Früh unregelmässig, merkwürdiger Stand; — den 26. Nachmittags unruhig; — den 31. Nachmittags unregelmässig. Mittel aus den Summen der Maxima und Minima = 528.421. Grösste Declination den 2. mit 507.317 } grösste monatl. Oscillation Kleinste " " 17. " 537.350 } 30.033 = 12' 33" 74. Grösste tägliche Oscillation den 3. = 21.608 = 9' 2" 36. Kleinste " " 23. = -0.225 = -5' 65.</p> | | | | | | <p>31</p> | | | | | | 44 30 | 30.23 | 31 30 | 25.67 | 4.56 |

Variationen der Declination der Magnetenadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|-------------------------|---------|--------------------|
| Im Jänner 1842. | | | | | | | | | | | |
| 1 | 8 ^h 28' 0'' | 529.99 | 1 ^h 34' 0'' | 507.59 | 22.40 | 26 | 8 ^h 35' 0'' | 539.71 | 1 ^h 5' 0'' | 527.41 | 12.30 |
| 2 | 36 0 | 33.51 | 31 0 | 25.30 | 8.21 | 27 | 34 30 | 41.64 | 30 0 | 30.27 | 11.37 |
| 3 | 39 30 | 33.00 | 38 0 | 20.53 | 12.47 | 28 | 39 0 | 42.01 | 36 30 | 29.71 | 12.30 |
| 4 | 45 0 | 37.14 | 37 0 | 16.17 | 20.97 | Mittel | 8 38 0 | 538.499 | 1 35 34 | 525.127 | 13.229 = 5' 32" 05 |
| 5 | 33 0 | 33.24 | 33 0 | 28.24 | 5.00 | Bemerkungen. Den 4. und 19. Früh senkrechte Schwingungen; — den 6., 7., 8., 9. und 13. Früh unruhig; — den 11., 12. und 14. Früh und Nachmittags unruhig. | | | | | |
| 6 | 37 0 | 36.86 | 49 0 | 25.54 | 11.32 | Mittel aus den Summen der Maxima und Minima = 531.813. | | | | | |
| 7 | 37 30 | 35.33 | 48 30 | 26.17 | 9.16 | Grösste Declination den 2. mit 506.258 } grösste monatl. Oscillation | | | | | |
| 8 | 30 0 | 37.71 | 30 0 | 25.43 | 13.28 | Kleinste " 21. " 545.225 } 38.967 = 16' 17.65. | | | | | |
| 9 | 37 30 | 36.25 | 30 0 | 27.20 | 9.05 | Grösste tägliche Oscillation den 2. = 30.342 = 12' 41" 58. | | | | | |
| 10 | 39 0 | 37.14 | 32 0 | 21.94 | 15.20 | Kleinste " 13. = 4.517 = 1' 53" 38. | | | | | |
| 11 | 40 30 | 30.37 | 36 0 | 27.06 | 3.31 | Im März 1842. | | | | | |
| 12 | 43 30 | 36.44 | 33 0 | 27.18 | 9.26 | 1 | 8 ^h 46' 30'' | 544.09 | 1 ^h 46' 30'' | 526.98 | 17.11 |
| 13 | 39 0 | 35.73 | 33 0 | 27.32 | 8.41 | 2 | 39 0 | 39.56 | 52 30 | 19.62 | 19.94 |
| 14 | 40 30 | 34.76 | 30 0 | 26.37 | 8.39 | 3 | 30 0 | 40.75 | 42 0 | 25.07 | 25.68 |
| 15 | 46 30 | 35.97 | 51 0 | 24.34 | 11.63 | 4 | 33 0 | 38.34 | 30 0 | 26.53 | 11.81 |
| 16 | 30 0 | 32.38 | 43 30 | 19.51 | 12.87 | 5 | 33 0 | 38.36 | 30 0 | 23.24 | 15.12 |
| 17 | 58 30 | 37.37 | 30 0 | 27.70 | 9.67 | 6 | 30 0 | 38.61 | 43 30 | 17.06 | 21.55 |
| 18 | 33 0 | 34.40 | 30 0 | 26.07 | 8.33 | 7 | 33 0 | 43.22 | 30 0 | 30.61 | 12.61 |
| 19 | 39 0 | 36.37 | 52 30 | 29.59 | 6.78 | 8 | 55 30 | 44.20 | 30 0 | 23.02 | 21.18 |
| 20 | 46 30 | 36.02 | 46 30 | 26.08 | 9.94 | 9 | 48 0 | 46.61 | 30 0 | 26.57 | 20.04 |
| 21 | 37 30 | 36.07 | 39 0 | 22.48 | 13.59 | 10 | 33 0 | 43.62 | 30 0 | 26.98 | 16.64 |
| 22 | 30 0 | 37.04 | 30 0 | 19.82 | 17.22 | 11 | 40 30 | 45.46 | 30 0 | 21.33 | 24.13 |
| 23 | 36 0 | 36.27 | 37 30 | 21.07 | 15.20 | 12 | 52 30 | 47.83 | 33 0 | 23.45 | 24.38 |
| 24 | 31 30 | 38.05 | 42 0 | 23.36 | 14.69 | 13 | 43 30 | 41.01 | 30 0 | 22.17 | 18.84 |
| 25 | 36 0 | 35.75 | 43 30 | 19.38 | 16.37 | 14 | 37 30 | 42.75 | 30 0 | 23.67 | 19.08 |
| 26 | 30 0 | 37.82 | 37 30 | 15.14 | 22.68 | 15 | 46 30 | 45.92 | 30 0 | 20.81 | 25.11 |
| 27 | 36 0 | 36.56 | 36 0 | 19.68 | 16.88 | 16 | 31 30 | 43.90 | 34 30 | 20.74 | 23.16 |
| 28 | 33 0 | 36.34 | 30 0 | 29.50 | 6.84 | 17 | 34 30 | 43.99 | 30 0 | 25.38 | 18.61 |
| 29 | 40 30 | 31.54 | 34 30 | 23.49 | 8.05 | 18 | 34 30 | 43.13 | 36 0 | 25.72 | 17.41 |
| 30 | 49 30 | 35.45 | 34 30 | 27.20 | 8.25 | 19 | 48 0 | 45.52 | 31 30 | 17.92 | 27.60 |
| 31 | 37 30 | 35.67 | 36 0 | 24.11 | 11.56 | 20 | 46 30 | 44.57 | 39 0 | 25.88 | 19.69 |
| Mittel | 8 37 58 | 535.372 | 1 37 3 | 523.568 | 11.837 = 4' 57" 11 | 21 | 46 30 | 41.36 | 30 0 | 25.41 | 15.95 |
| Bemerkungen. Den 1., 3. und 4. Früh und Nachmittags unregelmässig unruhig; — den 2., 12., 22., 23., 24. und 27. Früh unruhig; — den 6., 7., 8., 10. und 25. Früh unregelmässig; — den 9. Nachmittags unregelmässig; — den 26. Früh und Nachmittags unruhig. | | | | | | 22 | 45 0 | 47.88 | 39 0 | 26.45 | 21.43 |
| Mittel aus den Summen der Maxima und Minima = 529.470. | | | | | | 23 | 31 30 | 46.37 | 33 0 | 23.72 | 22.65 |
| Grösste Declination den 1. mit 507.592 } grösste monatl. Oscillation | | | | | | 24 | 46 30 | 46.97 | 33 0 | 19.70 | 27.27 |
| Kleinste " 24. " 538.052 } 30.460 = 12' 24" 55. | | | | | | 25 | 40 30 | 46.74 | 39 0 | 24.76 | 21.98 |
| Grösste tägliche Oscillation den 26. = 22.675 = 10' 24" 14. | | | | | | 26 | 43 30 | 46.58 | 30 0 | 23.09 | 23.49 |
| Kleinste " " " 11. = 3.317 = 1' 23" 26. | | | | | | 27 | 34 30 | 46.07 | 46 30 | 21.75 | 24.32 |
| Im Februar 1842. | | | | | | 28 | 42 0 | 38.71 | 40 30 | 19.82 | 18.89 |
| 1 | 8 ^h 33' 0'' | 535.05 | 1 ^h 30' 0'' | 523.07 | 11.98 | 29 | 43 30 | 48.62 | 30 0 | 22.53 | 26.09 |
| 2 | 37 30 | 36.60 | 31 30 | 6.26 | 30.34 | 30 | 37 30 | 44.00 | 45 0 | 19.32 | 24.68 |
| 3 | 34 30 | 37.48 | 40 30 | 24.08 | 13.40 | 31 | 46 30 | 46.41 | 30 0 | 24.42 | 21.99 |
| 4 | 33 0 | 37.47 | 42 0 | 24.47 | 13.00 | Mittel | 8 40 27 | 543.909 | 1 35 5 | 523.347 | 20.594 = 8' 36" 91 |
| 5 | 39 0 | 41.59 | 33 0 | 25.45 | 16.14 | Bemerkungen. Den 3. und 6. Früh senkrechte Schwingungen; — den 5., 27. und 28. Früh etwas senkrechte Schwingungen; — den 7. Früh unruhig unregelmässig; — den 8. Früh unregelmässig, Nachmittags Erdstoss; — den 9. und 24. Früh unregelmässig; — den 15. Früh unruhig, senkrechte Schwingungen; — den 17. Nachmittags etwas senkrechte Schwingungen; — den 18. Früh und Nachmittags senkrechte Schwingungen; — den 19. Nachmittags senkrechte Schwingungen. | | | | | |
| 6 | 36 0 | 39.29 | 31 30 | 19.12 | 20.17 | Mittel aus den Summen der Maxima und Minima = 533.628. | | | | | |
| 7 | 31 30 | 33.52 | 45 0 | 26.71 | 6.81 | Grösste Declination den 6. mit 517.058 } grösste monatl. Oscillation | | | | | |
| 8 | 30 0 | 40.99 | 31 30 | 23.46 | 17.53 | Kleinste " 29. " 548.617 } 31.559 = 13' 12" 13. | | | | | |
| 9 | 43 30 | 40.06 | 46 30 | 27.15 | 12.91 | Grösste tägliche Oscillation den 19. = 27.600 = 11' 32" 76. | | | | | |
| 10 | 30 0 | 39.12 | 43 30 | 28.48 | 10.64 | Kleinste " " 4. = 11.809 = 4' 6" 40. | | | | | |
| 11 | 57 0 | 40.40 | 42 0 | 25.00 | 15.40 | Im April 1842. | | | | | |
| 12 | 31 30 | 32.22 | 39 0 | 20.17 | 12.05 | 1 | 8 ^h 52' 30'' | 546.94 | 1 ^h 56' 0'' | 517.57 | 29.37 |
| 13 | 48 0 | 35.00 | 30 0 | 30.48 | 4.52 | 2 | 30 0 | 43.25 | 42 0 | 21.14 | 22.11 |
| 14 | 46 30 | 38.47 | 30 0 | 28.30 | 10.17 | 3 | 39 0 | 43.67 | 36 0 | 21.62 | 22.05 |
| 15 | 42 0 | 36.53 | 52 30 | 27.52 | 9.01 | 4 | 30 0 | 47.02 | 40 30 | 24.38 | 22.64 |
| 16 | 30 0 | 36.62 | 39 0 | 26.79 | 9.83 | 5 | 30 0 | 47.89 | 33 0 | 22.55 | 25.34 |
| 17 | 30 0 | 38.10 | 30 0 | 17.12 | 20.98 | 6 | 42 0 | 46.10 | 31 30 | 18.56 | 27.54 |
| 18 | 36 0 | 36.12 | 46 30 | 22.58 | 13.54 | | | | | | |
| 19 | 30 0 | 36.54 | 30 0 | 23.27 | 13.27 | | | | | | |
| 20 | 30 0 | 34.39 | 34 30 | 30.63 | 3.76 | | | | | | |
| 21 | 52 30 | 45.22 | 33 0 | 27.64 | 17.58 | | | | | | |
| 22 | 43 30 | 40.46 | 30 0 | 31.17 | 9.29 | | | | | | |
| 23 | 45 0 | 40.98 | 46 30 | 28.87 | 12.11 | | | | | | |
| 24 | 43 30 | 39.87 | 31 30 | 16.81 | 23.06 | | | | | | |
| 25 | 42 0 | 42.48 | 33 0 | 31.56 | 10.92 | | | | | | |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|------------------------|---------|------------------------|---------|---------------------|
| 7 | 8 ^h 30' 0'' | 550.41 | 1 ^h 30' 0'' | 522.55 | 27.86 |
| 8 | 36 0 | 49.77 | 43 30 | 18.33 | 31.44 |
| 9 | 30 0 | 49.36 | 42 0 | 14.19 | 35.17 |
| 10 | 33 0 | 50.47 | 31 30 | 19.50 | 30.97 |
| 11 | 30 0 | 37.29 | 39 0 | 14.32 | 22.97 |
| 12 | 45 0 | 47.31 | 40 30 | 10.84 | 36.47 |
| 13 | 40 30 | 42.53 | 37 0 | 497.18 | 45.35 |
| 14 | 33 0 | 47.41 | 30 0 | 19.52 | 27.89 |
| 15 | 30 0 | 36.19 | 31 30 | 19.40 | 16.79 |
| 16 | 30 0 | 28.73 | 36 0 | 21.65 | 7.08 |
| 17 | 33 0 | 52.77 | 43 30 | 16.98 | 35.79 |
| 18 | 45 0 | 48.14 | 37 30 | 23.95 | 25.19 |
| 19 | 36 0 | 45.77 | 42 0 | 18.48 | 27.29 |
| 20 | 33 0 | 50.21 | 30 0 | 18.53 | 31.68 |
| 21 | 49 30 | 46.37 | 34 30 | 24.16 | 22.21 |
| 22 | 30 0 | 49.17 | 42 0 | 26.42 | 22.75 |
| 23 | 30 0 | 47.17 | 39 0 | 26.46 | 20.71 |
| 24 | 42 0 | 54.01 | 30 0 | 22.32 | 31.79 |
| 25 | 37 30 | 52.48 | 37 30 | 22.98 | 30.50 |
| 26 | 33 0 | 50.22 | 36 0 | 22.01 | 28.21 |
| 27 | 39 0 | 49.07 | 39 0 | 25.77 | 23.30 |
| 28 | 31 30 | 46.17 | 30 0 | 24.72 | 22.45 |
| 29 | 37 30 | 48.15 | 43 30 | 22.97 | 25.18 |
| 30 | 42 0 | 48.41 | 46 30 | 22.22 | 26.19 |
| Mittel | 8 36 0 | 546.750 | 1 37 42 | 520.007 | 26.807 = 11' 12" 55 |

Bemerkungen. Den 1. und 8. Früh etwas senkrechte Schwingungen; — den 9. und 10. Früh etwas senkrechte Schwingungen unregelmässig; — den 12. Früh unregelmässig; — den 13. Nachmittags merkwürdiger Gang; — den 14. Nachmittags plötzlich etwas senkrechte Schwingungen; — den 15. Früh sehr merkwürdiger Gang; — den 16. Früh und Nachmittags unruhig; — den 17., 24. und 26. Früh unruhig.
 Mittel aus den Summen der Maxima und Minima = 533.378.
 Grösste Declination den 13. mit 497.183 } grösste monatl. Oscillation
 Kleinste „ „ 24. „ 554.058 } 56.875 = 23' 27" 56.
 Grösste tägliche Oscillation den 13. = 45.350 = 18' 58" 28.
 Kleinste „ „ 16. = 7.083 = 2' 57" 78.

Im Mai 1842.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8 ^h 31' 30'' | 30 0 | 30 0 | 36 0 | 40 30 | 40 30 | 31 30 | 31 30 | 30 0 | 30 0 | 37 30 | 45 0 | 33 0 | 43 30 | 31 30 | 43 30 | 39 0 | 40 30 | 39 0 | 30 0 | 30 0 | 30 0 | 30 0 | 30 0 | 39 0 | 31 30 | 31 30 | 40 0 | 30 0 |
| 548.93 | 50.51 | 48.97 | 49.04 | 51.01 | 46.01 | 49.62 | 47.97 | 44.25 | 47.62 | 49.17 | 49.50 | 50.06 | 53.37 | 49.80 | 44.94 | 50.17 | 47.92 | 46.67 | 44.68 | 45.06 | 46.82 | 53.57 | 49.18 | 48.81 | 47.57 | 50.50 | 51.90 | 45.92 |
| 1 ^h 40' 30'' | 31 30 | 31 30 | 33 0 | 46 30 | 33 0 | 30 0 | 42 0 | 42 0 | 34 30 | 37 30 | 33 0 | 33 0 | 33 0 | 40 30 | 40 30 | 45 0 | 40 30 | 31 30 | 31 30 | 30 0 | 45 0 | 45 0 | 48 0 | 30 0 | 30 0 | 30 0 | 30 0 | 46 30 |
| 526.86 | 19.28 | 24.38 | 24.00 | 15.92 | 20.73 | 18.75 | 22.51 | 21.69 | 21.56 | 26.96 | 21.13 | 23.35 | 23.49 | 18.93 | 04.02 | 23.02 | 29.55 | 24.16 | 26.79 | 26.77 | 27.66 | 27.07 | 26.55 | 24.17 | 17.89 | 20.52 | 24.57 | 25.82 |
| 22.07 | 31.23 | 24.59 | 25.04 | 35.09 | 25.28 | 30.87 | 25.46 | 23.56 | 26.06 | 22.21 | 28.37 | 26.71 | 29.88 | 30.87 | 40.92 | 27.15 | 18.37 | 22.51 | 17.89 | 18.29 | 19.16 | 26.50 | 22.63 | 24.64 | 29.68 | 29.98 | 27.33 | 20.00 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|------------------------|---------|------------------------|---------|---------------------|
| 30 | 8 ^h 39' 0'' | 46.53 | 1 ^h 46' 30' | 31.84 | 14.69 |
| 31 | 30 0 | 45.52 | 30 0 | 27.99 | 17.53 |
| Mittel | 3 34 41 | 548.439 | 1 36 49 | 523.161 | 25.311 = 10' 35" 31 |

Bemerkungen. Den 12. Früh unregelmässig; — den 16. Nachmittags Gewitter; — den 19. Nachmittags etwas senkrechte Schwingungen; — den 20. Früh unruhig, unregelmässig.
 Mittel aus den Summen der Maxima und Minima = 535.799.
 Grösste Declination den 16. mit 504.025 } grösste monatl. Oscillation
 Kleinste „ „ 23. „ 553.567 } 49.542 = 20' 13" 50.
 Grösste tägliche Oscillation den 16. = 40.917 = 17' 7" 02.
 Kleinste „ „ 31. = 17.533 = 7' 20" 08.

Im Juni 1842.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
|-------------------------|---------|---------|---------|---------|--------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8 ^h 30' 0'' | 30 0 | 40 30 | 30 0 | 48 0 | 30 0 | 30 0 | 48 0 | 31 30 | 31 30 | 36 0 | 30 0 | 58 30 | 48 0 | 31 30 | 39 0 | 33 0 | 49 30 | 30 0 | 33 0 | 30 0 | 30 0 | 40 30 | 30 0 | 30 0 | 30 0 | 30 0 | 43 30 | 31 30 | | |
| 548.61 | 40.92 | 49.02 | 49.22 | 36.44 | 52.49 | 50.03 | 45.32 | 51.83 | 50.02 | 45.57 | 53.27 | 51.00 | 45.94 | 44.57 | 51.27 | 53.65 | 48.82 | 46.66 | 49.90 | 48.05 | 50.95 | 46.31 | 53.92 | 51.83 | 30 0 | 49.62 | 48.45 | 53.15 | 51.09 | 55.10 |
| 1 ^h 40' 30'' | 49 30 | 42 0 | 31 30 | 46 30 | 30 0 | 49 30 | 30 0 | 51 0 | 43 30 | 36 0 | 39 0 | 33 0 | 48 0 | 30 0 | 36 0 | 33 0 | 46 30 | 49 30 | 31 30 | 30 0 | 30 0 | 42 0 | 46 30 | 30 0 | 30 0 | 43 30 | 45 0 | 40 30 | 31 30 | |
| 527.30 | 23.10 | 24.05 | 20.04 | 22.48 | 21.51 | 21.36 | 24.77 | 20.87 | 11.50 | 21.17 | 19.57 | 19.84 | 18.05 | 31.92 | 29.96 | 35.87 | 24.67 | 15.47 | 28.94 | 22.12 | 22.22 | 22.34 | 28.18 | 30.92 | 20.32 | 22.00 | 29.00 | 30.44 | 26.06 | |
| 21.31 | 17.82 | 24.97 | 29.18 | 13.96 | 30.98 | 28.67 | 20.55 | 30.96 | 38.52 | 24.30 | 33.60 | 31.16 | 27.89 | 12.65 | 21.31 | 17.78 | 24.15 | 31.19 | 20.96 | 25.93 | 28.73 | 23.97 | 25.74 | 20.91 | 29.30 | 26.45 | 24.15 | 20.65 | 29.00 | |
| Mittel | 3 35 36 | 549.102 | 1 38 51 | 523.868 | 25.234 | 10' 33" 47 | | | | | | | | | | | | | | | | | | | | | | | | |

Bemerkungen. Den 3., 16. und 18. Früh unregelmässiger Gang; — den 4. Nachmittags etwas unruhig; — den 9. Früh etwas senkrechte Schwingungen; — den 11. Früh unruhig, unregelmässig.
 Mittel aus den Summen der Maxima und Minima = 536.484.
 Grösste Declination den 10. mit 511.500 } grösste monatl. Oscillation
 Kleinste „ „ 30. „ 555.100 } 43.600 = 18' 14" 36.
 Grösste tägliche Oscillation den 10. = 38.525 = 16' 6" 98.
 Kleinste „ „ 15. = 12.650 = 5' 17" 54.

Im Juli 1842.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8 ^h 54' 0'' | 30 0 | 52 30 | 30 0 | 33 0 | 31 30 | 30 0 | 30 0 | 30 0 | 59 0 | 30 0 | 30 0 | 34 30 | 30 0 |
| 551.96 | 57.83 | 51.80 | 50.19 | 51.47 | 46.56 | 52.58 | 44.71 | 41.96 | 49.94 | 49.82 | 56.46 | 54.74 | 53.93 |
| 1 ^h 45' 0'' | 31 30 | 34 30 | 54 0 | 39 0 | 37 30 | 40 30 | 49 30 | 39 0 | 46 30 | 33 0 | 43 30 | 48 0 | 46 30 |
| 524.72 | 32.24 | 33.07 | 24.92 | 25.07 | 31.02 | 28.87 | 28.11 | 23.15 | 31.14 | 23.52 | 26.44 | 28.72 | 30.05 |
| 27.24 | 25.59 | 18.73 | 25.27 | 23.40 | 15.54 | 27.71 | 16.60 | 18.81 | 18.80 | 26.30 | 30.02 | 26.02 | 23.88 |

Variationen der Declination der Magnetenadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|------------------------|---------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|------------------------|---------|--------------------|
| 15 | 8 ^h 31' 30'' | 552.22 | 1 ^h 48' 0'' | 530.02 | 22.20 | Im September 1842. | | | | | |
| 16 | 30 0 | 50.37 | 54 0 | 29.00 | 21.37 | 1 | 8 ^h 34' 30'' | 551.02 | 1 ^h 30' 0'' | 529.98 | 21.04 |
| 17 | 30 0 | 50.74 | 43 30 | 29.39 | 21.35 | 2 | 30 0 | 57.26 | 30 0 | 29.96 | 27.30 |
| 18 | 30 0 | 57.09 | 37 30 | 26.13 | 30.96 | 3 | 31 30 | 49.12 | 43 30 | 31.22 | 17.90 |
| 19 | 37 30 | 46.87 | 55 30 | 29.77 | 17.10 | 4 | 30 0 | 49.84 | 39 0 | 31.27 | 18.57 |
| 20 | 31 30 | 49.92 | 45 0 | 33.52 | 6.40 | 5 | 33 0 | 51.39 | 45 0 | 32.88 | 18.51 |
| 21 | 30 0 | 52.62 | 31 30 | 31.53 | 21.09 | 6 | 42 0 | 47.53 | 37 30 | 31.77 | 15.76 |
| 22 | 30 0 | 54.12 | 42 0 | 26.11 | 28.01 | 7 | 42 0 | 50.58 | 30 0 | 28.71 | 21.87 |
| 23 | 43 30 | 35.66 | 37 30 | 24.30 | 11.36 | 8 | 42 0 | 48.32 | 30 0 | 24.29 | 24.03 |
| 24 | 33 0 | 57.77 | 36 0 | 32.50 | 25.27 | 9 | 31 30 | 48.85 | 34 30 | 22.58 | 26.27 |
| 25 | 30 0 | 53.24 | 40 30 | 26.67 | 26.57 | 10 | 46 30 | 44.15 | 31 30 | 26.41 | 17.74 |
| 26 | 30 0 | 49.08 | 36 0 | 25.03 | 24.05 | 11 | 45 0 | 51.13 | 30 0 | 24.27 | 26.86 |
| 27 | 37 30 | 49.87 | 45 0 | 24.31 | 25.56 | 12 | 42 0 | 47.85 | 30 0 | 28.57 | 19.28 |
| 28 | 39 0 | 50.98 | 30 0 | 26.07 | 24.91 | 13 | 40 30 | 50.96 | 31 30 | 17.33 | 33.63 |
| 29 | 30 0 | 51.59 | 43 30 | 20.17 | 31.42 | 14 | 39 0 | 50.54 | 30 0 | 30.51 | 20.03 |
| 30 | 43 30 | 45.80 | 48 0 | 23.96 | 21.84 | 15 | 40 30 | 51.45 | 30 0 | 25.26 | 26.19 |
| 31 | 30 0 | 41.32 | 37 30 | 30.00 | 11.32 | 16 | 30 0 | 37.71 | 30 0 | 28.32 | 9.39 |
| Mittel | 8 34 34 | 550.426 | 1 41 35 | 527.694 | 22.733 = 9' 30" 60 | 17 | 42 0 | 36.26 | 42 0 | 27.02 | 9.24 |
| <p>Bemerkungen. Den 2. Früh sehr unruhig, unregelmässig; — den 4., 7. und 28. Früh unregelmässig; — den 21. und 24. Nachmittags etwas senkrechte Schwingungen.</p> <p>Mittel aus den Summen der Maxima und Minima = 539.061.</p> <p>Grösste Declination den 29. mit 520.167 } grösste monatl. Oscillation Kleinste " " 2. " 557.833 } 37.666 = 15' 45" 30.</p> <p>Grösste tägliche Oscillation den 29. = 31.425 = 13' 8" 77. Kleinste " " 31. = 11.317 = 4' 44" 06.</p> | | | | | | 18 | 33 0 | 48.98 | 40 30 | 35.81 | 13.17 |
| Im August 1842. | | | | | | 19 | 37 30 | 46.06 | 37 30 | 27.62 | 18.44 |
| 1 | 8 ^h 43' 30'' | 551.27 | 1 ^h 36' 0'' | 525.64 | 25.63 | 20 | 43 30 | 53.52 | 30 0 | 24.72 | 28.80 |
| 2 | 31 30 | 44.25 | 45 0 | 24.18 | 20.07 | 21 | 54 0 | 40.88 | 45 0 | 25.42 | 15.46 |
| 3 | 30 0 | 51.27 | 37 30 | 34.93 | 16.34 | 22 | 30 0 | 47.78 | 40 30 | 22.78 | 25.00 |
| 4 | 45 0 | 47.01 | 36 0 | 32.87 | 14.14 | 23 | 30 0 | 45.65 | 30 30 | 27.95 | 18.70 |
| 5 | 37 30 | 41.09 | 30 0 | 27.55 | 13.54 | 24 | 36 0 | 48.52 | 36 0 | 29.47 | 19.05 |
| 6 | 52 30 | 44.45 | 48 0 | 29.10 | 15.35 | 25 | 49 30 | 51.88 | 30 0 | 28.32 | 23.56 |
| 7 | 46 30 | 47.02 | 40 30 | 30.08 | 16.94 | 26 | 31 30 | 55.60 | 30 0 | 33.89 | 21.71 |
| 8 | 30 0 | 51.03 | 39 0 | 29.90 | 21.13 | 27 | 46 30 | 53.62 | 33 0 | 29.70 | 23.92 |
| 9 | 33 0 | 49.82 | 30 0 | 31.50 | 17.32 | 28 | 49 30 | 47.81 | 43 30 | 32.67 | 15.14 |
| 10 | 30 0 | 51.30 | 33 0 | 33.82 | 17.48 | 29 | 33 0 | 51.32 | 43 30 | 29.33 | 21.99 |
| 11 | 34 30 | 50.21 | 48 0 | 25.35 | 24.83 | 30 | 55 30 | 52.15 | 39 0 | 38.49 | 13.66 |
| 12 | 43 30 | 52.08 | 34 30 | 29.48 | 22.60 | Mittel | 8 39 3 | 548.926 | 1 35 7 | 528.926 | 20.409 = 8' 32" 26 |
| 13 | 33 0 | 49.32 | 43 30 | 30.51 | 18.81 | <p>Bemerkungen. Den 2. Früh merkwürdiger Gang, ganz unregelmässige senkrechte Schwingungen; — den 16. und 17. Früh grosse Declination; — den 21. und 29. Früh unregelmässiger Gang; — den 27. Früh ganz unregelmässig.</p> <p>Mittel aus den Summen der Maxima und Minima = 538.739.</p> <p>Grösste Declination den 13. mit 517.333 } grösste monatl. Oscillation Kleinste " " 2. " 557.258 } 39.925 = 16' 42" 10.</p> <p>Grösste tägliche Oscillation den 13. = 33.625 = 14' 3" 99. Kleinste " " 17. = 9.241 = 3' 51" 95.</p> | | | | | |
| 14 | 33 0 | 42.21 | 34 30 | 22.19 | 20.02 | Im October 1842. | | | | | |
| 15 | 36 0 | 48.94 | 37 30 | 31.17 | 17.77 | 1 | 8 ^h 31' 30'' | 550.00 | 1 ^h 33' 0'' | 537.38 | 12.62 |
| 16 | 31 30 | 53.07 | 45 0 | 32.29 | 20.78 | 2 | 33 0 | 50.53 | 37 30 | 39.47 | 11.06 |
| 17 | 36 0 | 57.02 | 42 0 | 18.62 | 38.40 | 3 | 45 0 | 50.31 | 36 0 | 37.13 | 13.18 |
| 18 | 30 0 | 48.48 | 30 0 | 25.02 | 23.46 | 4 | 33 0 | 52.51 | 33 0 | 35.38 | 17.13 |
| 19 | 31 30 | 47.98 | 95 0 | 05.79 | 42.19 | 5 | 33 0 | 53.50 | 30 0 | 35.22 | 18.28 |
| 20 | 36 0 | 49.41 | 31 30 | 30.64 | 18.77 | 6 | 30 0 | 51.42 | 46 30 | 32.09 | 19.33 |
| 21 | 30 0 | 51.92 | 34 30 | 27.53 | 24.39 | 7 | 36 0 | 57.37 | 30 0 | 28.32 | 29.05 |
| 22 | 34 30 | 54.75 | 31 30 | 26.57 | 28.18 | 8 | 36 0 | 53.98 | 43 30 | 29.12 | 24.86 |
| 23 | 30 0 | 56.78 | 34 30 | 23.21 | 27.57 | 9 | 42 0 | 55.50 | 31 30 | 31.02 | 24.48 |
| 24 | 31 30 | 54.86 | 30 0 | 19.63 | 35.23 | 10 | 30 0 | 51.55 | 30 0 | 35.65 | 15.90 |
| 25 | 30 0 | 54.80 | 31 30 | 33.35 | 21.45 | 11 | 36 0 | 57.05 | 30 0 | 37.50 | 19.55 |
| 26 | 37 30 | 54.35 | 30 0 | 29.18 | 25.17 | 12 | 36 0 | 55.73 | 31 30 | 33.10 | 22.63 |
| 27 | 0 0 | 53.18 | 40 0 | 32.25 | 20.93 | 13 | 37 30 | 57.45 | 31 30 | 28.82 | 28.63 |
| 28 | 39 0 | 51.13 | 30 0 | 28.43 | 22.70 | 14 | 31 30 | 54.95 | 48 0 | 33.87 | 21.08 |
| 29 | 31 30 | 57.48 | 30 0 | 28.50 | 28.98 | 15 | 31 30 | 54.21 | 46 30 | 40.07 | 14.14 |
| 30 | 33 0 | 52.42 | 33 0 | 26.94 | 25.48 | 16 | 31 30 | 55.44 | 40 30 | 39.67 | 15.77 |
| 31 | 34 30 | 49.66 | 37 30 | 26.52 | 23.14 | 17 | 30 0 | 50.47 | 55 30 | 33.54 | 16.93 |
| Mittel | 8 34 4 | 550.406 | 1 38 2 | 527.509 | 22.864 = 9' 33" 89 | 18 | 49 30 | 51.91 | 49 30 | 37.28 | 14.63 |
| <p>Bemerkungen. Den 6. Früh unregelmässig; — den 13. Früh etwas unruhig; — den 19. Nachmittags fiel es fortwährend bis 2^h 35^m.</p> <p>Mittel aus den Summen der Maxima und Minima = 538.957.</p> <p>Grösste Declination den 19. mit 505.792 } grösste monatl. Oscillation Kleinste " " 29. " 557.483 } 51.691 = 21' 37" 44.</p> <p>Grösste tägliche Oscillation den 19. = 42.191 = 17' 38" 99. Kleinste " " 5. = 13.542 = 5' 39" 90.</p> | | | | | | 19 | 31 30 | 55.30 | 34 30 | 28.48 | 26.82 |
| | | | | | | 20 | 34 30 | 55.82 | 30 0 | 33.13 | 22.69 |
| | | | | | | 21 | 33 0 | 60.32 | 33 0 | 35.58 | 24.74 |
| | | | | | | 22 | 43 30 | 57.84 | 30 0 | 35.32 | 22.52 |
| | | | | | | 23 | 46 30 | 54.78 | 46 30 | 31.38 | 23.40 |
| | | | | | | 24 | 40 30 | 57.30 | 42 0 | 37.27 | 20.03 |
| | | | | | | 25 | 46 30 | 56.71 | 36 0 | 42.14 | 14.57 |
| | | | | | | 26 | 39 0 | 57.50 | 39 0 | 35.55 | 21.95 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|------------------------|---------|-----------------------|---------|--------------------|
| 27 | 8 ^h 46' 30" | 552.50 | 1 ^h 45' 0" | 536.73 | 15.77 |
| 28 | 31 30 | 51.03 | 40 30 | 39.67 | 14.36 |
| 29 | 37 30 | 53.60 | 40 30 | 39.29 | 14.31 |
| 30 | 39 0 | 51.53 | 30 0 | 36.47 | 15.06 |
| 31 | 46 0 | 54.62 | 30 0 | 41.90 | 12.72 |
| Mittel | 8 37 3 | 554.284 | 1 37 27 | 535.406 | 18.974 = 7' 46" 25 |

Bemerkungen. Den 5., 8., 13., 14., 26. und 28. Früh unregelmässig.
 Mittel aus den Summen der Maxima und Minima = 544.843.
 Grösste Declination den 7. mit 528.325 } grösste monatl. Oscillation
 Kleinste " " 21. " 560.325 } 32.000 = 13' 23" 20.
 Grösste tägliche Oscillation den 7. = 29.050 = 12' 9" 15.
 Kleinste " " " 2. = 11.066 = 4' 37" 76.

Im November 1842.

| | | | | | |
|--------|------------------------|---------|-----------------------|---------|-------------------|
| 1 | 8 ^h 37' 30" | 554.87 | 1 ^h 39' 0" | 541.80 | 13.07 |
| 2 | 33 0 | 52.52 | 45 0 | 38.04 | 13.48 |
| 3 | 42 0 | 53.10 | 45 0 | 39.19 | 13.91 |
| 4 | 43 30 | 56.68 | 30 0 | 37.69 | 18.99 |
| 5 | 39 0 | 52.93 | 39 0 | 39.43 | 13.50 |
| 6 | 46 30 | 56.10 | 30 0 | 37.15 | 18.95 |
| 7 | 42 0 | 53.68 | 31 30 | 41.57 | 12.11 |
| 8 | 37 30 | 53.89 | 30 0 | 40.28 | 13.61 |
| 9 | 37 30 | 50.26 | 36 0 | 42.17 | 8.09 |
| 10 | 31 30 | 49.82 | 37 30 | 27.78 | 22.04 |
| 11 | 36 0 | 46.33 | 45 0 | 41.86 | 4.97 |
| 12 | 42 0 | 55.10 | 45 0 | 43.29 | 11.81 |
| 13 | 43 30 | 47.70 | 34 30 | 38.49 | 9.21 |
| 14 | 39 0 | 48.57 | 31 30 | 41.66 | 6.91 |
| 15 | 31 30 | 50.01 | 33 0 | 42.99 | 7.02 |
| 16 | 30 0 | 50.15 | 30 0 | 35.82 | 14.33 |
| 17 | 43 30 | 52.01 | 30 0 | 40.63 | 11.38 |
| 18 | 37 30 | 52.22 | 30 0 | 31.97 | 20.25 |
| 19 | 43 30 | 49.87 | 33 0 | 39.86 | 10.01 |
| 20 | 34 30 | 46.97 | 30 0 | 29.40 | 17.57 |
| 21 | 45 0 | 46.73 | 30 0 | 37.19 | 9.54 |
| 22 | 42 0 | 43.60 | 30 0 | 26.82 | 16.78 |
| 23 | 43 30 | 50.67 | 42 0 | 42.32 | 7.85 |
| 24 | 39 0 | 48.99 | 45 0 | 43.64 | 5.35 |
| 25 | 46 30 | 50.59 | 33 0 | 41.22 | 9.37 |
| 26 | 25 0 | 48.39 | 30 0 | 40.55 | 7.84 |
| 27 | 46 30 | 50.13 | 36 0 | 43.76 | 6.37 |
| 28 | 34 0 | 53.70 | 30 0 | 41.17 | 12.53 |
| 29 | 45 0 | 47.31 | 31 30 | 30.88 | 16.43 |
| 30 | 45 0 | 51.67 | 33 0 | 35.37 | 16.20 |
| Mittel | 8 39 25 | 550.802 | 1 34 51 | 538.465 | 12.318 = 5' 9" 20 |

Bemerkungen. Den 4., 6. und 17. unregelmässig; — den 8. Nachmittags unregelmässig; — den 12. Nachmittags plötzliche Änderung; — den 30. von 45^m 0^s Früh bis 31^m 30^s Nachmittags dasselbe.
 Mittel aus den Summen der Maxima und Minima = 544.635.
 Grösste Declination den 22. mit 526.825 } grösste monatl. Oscillation
 Kleinste " " 4. " 556.683 } 29.858 = 12' 29" 34.
 Grösste tägliche Oscillation den 10. = 22.034 = 9' 13" 05.
 Kleinste " " 11. = 4.975 = 2' 4" 87.

Im December 1842.

| | | | | | |
|----|------------------------|--------|-----------------------|--------|-------|
| 1 | 8 ^h 37' 30" | 550.09 | 1 ^h 45' 0" | 545.30 | 4.79 |
| 2 | 46 30 | 50.52 | 30 0 | 43.83 | 6.79 |
| 3 | 30 0 | 51.87 | 31 30 | 29.42 | 22.45 |
| 4 | 31 30 | 54.18 | 31 30 | 31.77 | 22.41 |
| 5 | 40 30 | 48.25 | 39 0 | 43.25 | 5.00 |
| 6 | 48 0 | 47.12 | 30 0 | 28.98 | 18.14 |
| 7 | 42 0 | 47.46 | 37 30 | 42.58 | 4.88 |
| 8 | 34 30 | 50.20 | 36 0 | 42.29 | 7.91 |
| 9 | 46 30 | 49.43 | 31 30 | 42.67 | 6.76 |
| 10 | 45 0 | 49.62 | 37 30 | 43.84 | 5.78 |
| 11 | 46 30 | 49.90 | 30 0 | 40.75 | 9.15 |
| 12 | 43 30 | 52.88 | 46 30 | 43.28 | 9.60 |
| 13 | 39 0 | 51.94 | 42 0 | 45.82 | 6.12 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|------------------------|---------|------------------------|---------|--------------------|
| 14 | 8 ^h 46' 30" | 550.76 | 1 ^h 34' 30" | 543.51 | 7.25 |
| 15 | 46 30 | 52.32 | 31 30 | 34.37 | 17.95 |
| 16 | 30 0 | 53.57 | 34 30 | 44.97 | 8.60 |
| 17 | 40 30 | 50.83 | 30 0 | 37.67 | 13.16 |
| 18 | 31 30 | 45.45 | 48 0 | 35.98 | 9.47 |
| 19 | 34 30 | 54.76 | 30 0 | 46.22 | 8.54 |
| 20 | 37 30 | 52.14 | 31 30 | 45.72 | 6.42 |
| 21 | 40 30 | 52.62 | 30 0 | 39.21 | 13.41 |
| 22 | 37 30 | 51.66 | 30 0 | 43.47 | 8.19 |
| 23 | 36 0 | 50.56 | 30 0 | 44.45 | 6.11 |
| 24 | 51 0 | 54.37 | 30 0 | 39.34 | 15.03 |
| 25 | 31 30 | 53.17 | 40 30 | 42.71 | 10.46 |
| 26 | 30 0 | 54.65 | 31 30 | 38.19 | 16.46 |
| 27 | 31 30 | 52.82 | 30 0 | 38.91 | 13.91 |
| 28 | 45 0 | 54.52 | 31 30 | 39.09 | 15.43 |
| 29 | 31 30 | 55.20 | 42 0 | 44.47 | 10.73 |
| 30 | 31 30 | 52.92 | 46 30 | 41.15 | 11.77 |
| 31 | 30 0 | 53.38 | 31 30 | 43.62 | 9.76 |
| Mittel | 8 38 31 | 551.587 | 1 34 53 | 540.221 | 10.723 = 4' 29" 15 |

Bemerkungen. Den 4. Früh und Nachmittags unregelmässig; — den 13. Früh unregelmässig; — den 15. Nachmittags unregelmässig.
 Mittel aus den Summen der Maxima und Minima = 545.904.
 Grösste Declination den 6. mit 528.980 } grösste monatl. Oscillation
 Kleinste " " 29. " 555.200 } 26.220 = 10' 58" 12.
 Grösste tägliche Oscillation den 3. = 22.458 = 9' 23" 69.
 Kleinste " " " 1. = 4.792 = 2' 0" 28.

Im Jänner 1843.

| | | | | | |
|--------|-----------------------|---------|-----------------------|---------|--------------------|
| 1 | 8 ^h 33' 0" | 553.75 | 1 ^h 45' 0" | 541.83 | 11.92 |
| 2 | 30 0 | 52.45 | 48 0 | 41.01 | 11.44 |
| 3 | 45 0 | 50.62 | 46 30 | 43.76 | 6.86 |
| 4 | 31 30 | 55.12 | 45 0 | 35.57 | 19.55 |
| 5 | 33 0 | 53.52 | 31 30 | 46.50 | 7.02 |
| 6 | 42 0 | 52.78 | 31 30 | 45.95 | 6.83 |
| 7 | 31 30 | 56.09 | 31 30 | 45.32 | 10.77 |
| 8 | 31 30 | 53.25 | 30 0 | 43.39 | 9.86 |
| 9 | 33 0 | 53.59 | 46 30 | 41.92 | 11.67 |
| 10 | 49 30 | 53.53 | 30 0 | 35.76 | 17.77 |
| 11 | 30 0 | 52.73 | 37 30 | 39.53 | 13.20 |
| 12 | 39 0 | 53.80 | 31 30 | 44.63 | 9.17 |
| 13 | 43 30 | 54.16 | 42 0 | 43.95 | 10.21 |
| 14 | 42 0 | 55.21 | 30 0 | 43.91 | 11.30 |
| 15 | 45 0 | 55.47 | 36 0 | 42.09 | 13.38 |
| 16 | 45 0 | 52.95 | 30 0 | 40.64 | 12.31 |
| 17 | 33 0 | 53.16 | 46 30 | 44.43 | 8.73 |
| 18 | 45 0 | 55.50 | 31 30 | 44.06 | 11.44 |
| 19 | 40 30 | 54.49 | 37 30 | 41.31 | 13.18 |
| 20 | 30 0 | 56.17 | 42 0 | 43.12 | 13.05 |
| 21 | 43 30 | 55.63 | 34 30 | 43.69 | 11.94 |
| 22 | 40 30 | 54.05 | 39 0 | 45.22 | 8.83 |
| 23 | 43 30 | 57.82 | 36 0 | 43.37 | 14.45 |
| 24 | 39 0 | 52.87 | 34 30 | 45.95 | 6.92 |
| 25 | 42 0 | 55.14 | 45 0 | 47.54 | 7.60 |
| 26 | 46 30 | 55.32 | 43 30 | 33.97 | 21.35 |
| 27 | 36 0 | 52.58 | 30 0 | 45.87 | 6.71 |
| 28 | 31 30 | 55.77 | 43 30 | 42.07 | 13.70 |
| 29 | 30 0 | 53.46 | 30 0 | 45.94 | 7.52 |
| 30 | 46 30 | 52.43 | 30 0 | 47.09 | 5.34 |
| 31 | 36 0 | 53.38 | 30 0 | 47.56 | 5.82 |
| Mittel | 8 38 19 | 554.090 | 1 36 58 | 543.128 | 10.962 = 4' 35" 15 |

Bemerkungen. Den 3. Früh unregelmässig; — den 4. Früh unruhig, ganz unregelmässig, Nachmittags auch; — den 11. Nachmittags unregelmässig; — den 26. Früh und Nachmittags unregelmässig.
 Mittel aus den Summen der Maxima und Minima = 548.609.
 Grösste Declination den 26. mit 533.968 } grösste monatl. Oscillation
 Kleinste " " 23. " 557.817 } 23.849 = 9' 58" 61.
 Grösste tägliche Oscillation den 4. = 19.550 = 8' 10" 70.
 Kleinste " " 30. = 5.341 = 2' 14" 06.

Variationen der Declination der Magnetnadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|-----------------------|---------|---------------------|
| Im Februar 1843. | | | | | | | | | | | |
| 1 | 8 ^h 34' 30" | 554.53 | 1 ^h 31' 30" | 547.70 | 6.83 | 29 | 8 ^h 37' 30" | 568.54 | 1 ^h 48' 0" | 538.18 | 30.36 |
| 2 | 39 0 | 52.61 | 48 0 | 36.83 | 15.78 | 30 | 34 30 | 63.61 | 46 30 | 41.65 | 21.96 |
| 3 | 37 30 | 54.70 | 46 30 | 37.54 | 17.16 | 31 | 43 30 | 66.02 | 30 0 | 44.64 | 21.38 |
| 4 | 46 30 | 55.05 | 42 0 | 48.02 | 7.03 | Mittel | 8 39 52 | 561.604 | 1 37 47 | 542.249 | 19.354 = 8' 5" 74 |
| 5 | 30 0 | 50.53 | 34 30 | 43.72 | 6.81 | Bemerkungen. Den 2. Früh und Nachmittags ganz unregelmässig; — den 3., 4., 5., 6., 16., 17., 24. u. 25. Früh unregelmässig; — den 15. Nachmittags um 1 ^h 40 ^m plötzlich senkrechte Schwingungen; — den 18. Früh und Nachmittags unregelmässig; — den 29. Nachmittags senkrechte Schwingungen. | | | | | |
| 6 | 31 30 | 53.92 | 36 0 | 44.11 | 9.81 | Mittel aus den Summen der Maxima und Minima = 551.927. | | | | | |
| 7 | 30 0 | 56.16 | 34 30 | 36.17 | 19.99 | Grösste Declination den 7. mit 535.950 } grösste monatl. Oscillation | | | | | |
| 8 | 43 30 | 54.87 | 48 0 | 44.37 | 10.50 | Kleinste " " 17. " 571.758 } 35.808 = 14' 58" 78. | | | | | |
| 9 | 36 0 | 57.32 | 46 30 | 44.35 | 12.97 | Grösste tägliche Oscillation den 17. = 32.275 = 13' 30" 10. | | | | | |
| 10 | 46 30 | 55.07 | 46 30 | 45.68 | 9.37 | Kleinste " " 6. = 7.666 = 3' 12" 41. | | | | | |
| 11 | 43 30 | 57.20 | 46 30 | 43.45 | 13.75 | Im April 1843. | | | | | |
| 12 | 34 30 | 55.01 | 40 30 | 45.60 | 9.41 | 1 | 8 ^h 45' 0" | 566.27 | 1 ^h 30' 0" | 539.01 | 27.26 |
| 13 | 30 0 | 58.19 | 31 30 | 44.88 | 13.31 | 2 | 31 30 | 66.37 | 39 0 | 39.30 | 27.07 |
| 14 | 43 30 | 50.12 | 42 0 | 36.95 | 13.17 | 3 | 33 0 | 62.99 | 39 0 | 33.05 | 29.94 |
| 15 | 37 30 | 55.72 | 30 0 | 47.46 | 8.26 | 4 | 46 30 | 51.94 | 40 30 | 38.27 | 13.67 |
| 16 | 46 30 | 55.53 | 42 0 | 46.62 | 8.91 | 5 | 31 30 | 67.05 | 45 0 | 36.88 | 30.17 |
| 17 | 34 30 | 55.65 | 39 0 | 49.71 | 5.94 | 6 | 39 0 | 55.69 | 34 30 | 25.38 | 30.31 |
| 18 | 40 30 | 53.78 | 30 0 | 46.26 | 7.52 | 7 | 37 30 | 62.44 | 40 30 | 35.76 | 26.68 |
| 19 | 33 0 | 55.97 | 30 0 | 48.08 | 6.89 | 8 | 30 0 | 58.98 | 46 30 | 43.02 | 15.96 |
| 20 | 45 0 | 56.09 | 33 0 | 44.50 | 11.59 | 9 | 42 0 | 61.85 | 30 0 | 43.72 | 18.13 |
| 21 | 31 30 | 55.64 | 46 30 | 44.62 | 11.02 | 10 | — | — | 30 0 | 43.24 | — |
| 22 | 36 0 | 58.53 | 30 0 | 41.51 | 17.02 | 11 | 30 0 | 64.57 | 31 30 | 40.05 | 24.52 |
| 23 | 36 0 | 57.74 | 30 0 | 45.42 | 13.32 | 12 | 40 30 | 65.90 | 31 30 | 41.87 | 24.03 |
| 24 | 43 30 | 58.50 | 43 30 | 34.61 | 23.99 | 13 | 30 0 | 63.81 | 31 30 | 43.00 | 20.81 |
| 25 | 60 0 | 59.10 | 5 0 | 48.17 | 10.93 | 14 | 45 0 | 64.15 | 46 30 | 34.25 | 29.90 |
| 26 | 36 0 | 55.30 | 48 0 | 47.06 | 8.24 | 15 | 30 0 | 66.70 | 30 0 | 36.82 | 29.88 |
| 27 | 31 30 | 57.68 | 34 30 | 48.12 | 9.56 | 16 | 33 0 | 64.99 | 31 30 | 36.73 | 28.26 |
| 28 | 30 0 | 56.07 | 31 30 | 45.87 | 10.10 | 17 | 40 30 | 66.34 | 45 0 | 39.12 | 27.22 |
| Mittel | 8 38 9 | 555.592 | 1 37 24 | 544.335 | 11.403 = 4' 46" 21 | 18 | 30 0 | 66.46 | 40 30 | 39.95 | 26.51 |
| Bemerkungen. Den 2., 3. und 6. Nachmittags unregelmässig; — den 4. Früh unregelmässig; — den 14. und 19. unregelmässig; — den 22. Nachmittags senkrechte Schwingungen; — den 24. Früh unregelmässig, hohe Declination Nachmittags. | | | | | | 19 | 30 0 | 66.67 | 40 30 | 38.76 | 27.91 |
| Mittel aus den Summen der Maxima und Minima = 549.963. | | | | | | 20 | 31 30 | 64.23 | 30 0 | 41.15 | 23.08 |
| Grösste Declination den 24. mit 534.608 } grösste monatl. Oscillation | | | | | | 21 | 31 30 | 65.68 | 33 0 | 41.87 | 23.81 |
| Kleinste " " 25. " 559.100 } 24.492 = 10' 14" 75. | | | | | | 22 | 33 0 | 62.73 | 34 30 | 46.08 | 16.65 |
| Grösste tägliche Oscillation den 24. = 23.992 = 10' 2" 20. | | | | | | 23 | 42 0 | 64.34 | 46 30 | 44.17 | 20.17 |
| Kleinste " " 17. = 5.942 = 2' 29" 14. | | | | | | 24 | 40 30 | 63.99 | 30 0 | 42.97 | 21.02 |
| Im März 1843. | | | | | | 25 | 37 30 | 68.19 | 36 0 | 41.73 | 26.46 |
| 1 | 8 ^h 30' 0" | 555.33 | 1 ^h 37' 30" | 544.92 | 10.41 | 26 | 37 30 | 67.45 | 33 0 | 42.72 | 24.73 |
| 2 | 40 30 | 55.07 | 37 30 | 44.96 | 10.11 | 27 | 30 0 | 67.47 | 45 0 | 38.75 | 28.72 |
| 3 | 46 30 | 56.70 | 34 30 | 45.67 | 11.03 | 28 | 31 30 | 66.16 | 34 30 | 43.05 | 23.11 |
| 4 | 30 0 | 59.28 | 37 30 | 42.67 | 16.61 | 29 | 30 0 | 69.17 | 42 0 | 38.72 | 30.45 |
| 5 | 45 0 | 56.75 | 30 0 | 47.57 | 9.18 | 30 | 34 30 | 68.25 | 31 30 | 41.94 | 26.31 |
| 6 | 37 30 | 50.43 | 37 30 | 42.77 | 7.66 | Mittel | 8 35 20 | 564.512 | 1 36 39 | 539.712 | 24.922 = 10' 25" 54 |
| 7 | 43 30 | 55.42 | 46 30 | 35.95 | 19.47 | Bemerkungen. Den 1. und 6. Früh etwas unregelmässig; — den 11. und 23. Früh etwas senkrechte Schwingungen; — den 7. Nachmittags etwas senkrechte Schwingungen; — den 16. Nachmittags plötzlich senkrechte Schwingungen. | | | | | |
| 8 | 43 30 | 56.15 | 37 30 | 44.32 | 11.83 | Mittel aus den Summen der Maxima und Minima = 551.902. | | | | | |
| 9 | 34 30 | 60.57 | 31 30 | 42.08 | 18.49 | Grösste Declination den 6. mit 525.383 } grösste monatl. Oscillation | | | | | |
| 10 | 43 30 | 59.98 | 31 30 | 43.22 | 16.76 | Kleinste " " 29. " 569.167 } 43.784 = 18' 18" 98. | | | | | |
| 11 | 33 0 | 60.42 | 39 0 | 42.62 | 17.80 | Grösste tägliche Oscillation den 29. = 30.450 = 12' 44" 29. | | | | | |
| 12 | 37 30 | 60.96 | 46 30 | 37.56 | 23.40 | Kleinste " " 4. = 13.667 = 5' 43" 04. | | | | | |
| 13 | 42 0 | 55.00 | 33 0 | 42.67 | 12.33 | Im Mai 1843. | | | | | |
| 14 | 45 0 | 58.59 | 30 0 | 42.27 | 16.32 | 1 | 8 ^h 31' 30" | 567.94 | 1 ^h 48' 0" | 542.85 | 25.09 |
| 15 | 33 0 | 59.84 | 40 30 | 44.14 | 15.70 | 2 | 34 30 | 67.12 | 31 30 | 41.88 | 25.24 |
| 16 | 40 30 | 63.06 | 37 30 | 40.28 | 22.78 | 3 | 31 30 | 67.91 | 42 0 | 41.37 | 26.54 |
| 17 | 55 30 | 71.76 | 34 30 | 39.48 | 32.28 | 4 | 43 30 | 67.52 | 36 0 | 43.48 | 24.04 |
| 18 | 40 30 | 63.15 | 54 0 | 37.95 | 25.20 | 5 | 33 0 | 70.49 | 48 0 | 44.82 | 25.67 |
| 19 | 43 30 | 61.61 | 37 30 | 43.55 | 18.06 | 6 | 30 0 | 69.46 | 36 0 | 43.67 | 25.79 |
| 20 | 45 0 | 64.62 | 31 30 | 38.13 | 26.49 | 7 | 37 30 | 71.27 | 36 0 | 42.82 | 28.45 |
| 21 | 40 30 | 62.57 | 39 0 | 44.20 | 18.37 | 8 | 46 30 | 63.87 | 31 30 | 45.05 | 18.82 |
| 22 | 45 0 | 65.81 | 42 0 | 41.04 | 24.77 | 9 | 40 30 | 63.92 | 42 0 | 45.09 | 18.83 |
| 23 | 31 30 | 62.69 | 43 30 | 41.50 | 21.19 | 10 | 42 0 | 66.01 | 31 30 | 41.00 | 25.01 |
| 24 | 37 30 | 68.32 | 37 30 | 45.60 | 22.72 | 11 | 34 30 | 65.32 | 46 30 | 47.62 | 17.70 |
| 25 | 45 0 | 66.71 | 48 0 | 43.67 | 23.04 | | | | | | |
| 26 | 34 30 | 64.76 | 31 30 | 41.82 | 22.94 | | | | | | |
| 27 | 45 0 | 68.51 | 30 0 | 43.45 | 25.06 | | | | | | |
| 28 | 31 30 | 67.47 | 30 0 | 41.18 | 26.29 | | | | | | |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|-----------------------|---------|-----------------------|---------|--------------------|
| 12 | 8 ^h 30' 0" | 568.80 | 1 ^h 33' 0" | 544.65 | 24.15 |
| 13 | 31 30 | 67.08 | 36 0 | 48.61 | 18.47 |
| 14 | 33 0 | 69.39 | 31 30 | 43.40 | 25.99 |
| 15 | 30 0 | 70.15 | 46 30 | 37.17 | 22.98 |
| 16 | 45 0 | 62.18 | 45 0 | 48.30 | 13.88 |
| 17 | 33 0 | 68.37 | 30 0 | 45.97 | 22.40 |
| 18 | 30 0 | 65.01 | 46 30 | 42.87 | 22.14 |
| 19 | 30 0 | 66.16 | 30 0 | 45.42 | 20.74 |
| 20 | 31 30 | 72.42 | 36 0 | 40.77 | 31.65 |
| 21 | 30 0 | 68.57 | 39 0 | 45.67 | 22.90 |
| 22 | 31 30 | 62.79 | 33 0 | 44.16 | 18.63 |
| 23 | 30 0 | 62.34 | 45 0 | 46.21 | 16.13 |
| 24 | 30 0 | 64.62 | 36 0 | 38.88 | 25.74 |
| 25 | 31 30 | 70.05 | 46 30 | 37.44 | 32.61 |
| 26 | 33 0 | 69.57 | 46 30 | 36.24 | 33.33 |
| 27 | 0 0 | 69.00 | 10 0 | 39.85 | 29.75 |
| 28 | 33 0 | 70.53 | 30 0 | 42.20 | 28.33 |
| 29 | 30 0 | 71.59 | 48 0 | 45.00 | 26.59 |
| 30 | 30 0 | 62.79 | 46 30 | 41.22 | 21.57 |
| 31 | 30 0 | 67.95 | 39 0 | 42.12 | 25.83 |
| Mittel | 8 32 31 | 567.445 | 1 38 10 | 542.124 | 24.031 = 10' 3" 17 |

Bemerkungen. Den 1. Früh kleine senkrechte Schwingungen; — den 4., 5., 10. und 29. Früh unregelmässiger Gang; — den 8. Früh und Nachmittags unregelmässig; — den 18., 19. und 20. Früh etwas senkrechte Schwingungen.
 Mittel aus den Summen der Maxima und Minima = 534.784.
 Grösste Declination den 26. mit 536.242 } grösste monatl. Oscillation
 Kleinste " " 20. " 572.417 } $36.175 = 15' 7'' 99$
 Grösste tägliche Oscillation den 26. = 33.333 = 13' 56" 66.
 Kleinste " " " 16. = 13.883 = 5' 48" 46.

Im Juni 1843.

| | | | | | |
|--------|-----------------------|--------|------------------------|--------|---------------------|
| 1 | 8 ^h 30' 0' | 570.90 | 1 ^h 46' 30" | 537.65 | 33.20 |
| 2 | 30 0 | 71.17 | 39 0 | 31.32 | 39.80 |
| 3 | 31 30 | 71.77 | 45 0 | 39.47 | 32.30 |
| 4 | 31 30 | 80.75 | 46 30 | 52.25 | 28.59 |
| 5 | 30 0 | 85.33 | 30 0 | 63.99 | 21.30 |
| 6 | 33 0 | 78.06 | 30 0 | 57.85 | 20.20 |
| 7 | 34 30 | 80.65 | 31 30 | 57.23 | 23.40 |
| 8 | 30 0 | 73.97 | 37 30 | 56.71 | 17.20 |
| 9 | 46 30 | 86.27 | 46 30 | 62.46 | 23.80 |
| 10 | 30 0 | 80.56 | 30 0 | 44.22 | 36.30 |
| 11 | 40 30 | 54.81 | 30 0 | 46.07 | 8.70 |
| 12 | 30 0 | 66.79 | 46 30 | 45.80 | 21.90 |
| 13 | 43 30 | 73.29 | 43 30 | 43.37 | 29.90 |
| 14 | 34 30 | 67.48 | 37 30 | 44.43 | 23.00 |
| 15 | 45 0 | 68.51 | 46 30 | 49.84 | 18.60 |
| 16 | 31 30 | 67.61 | 30 0 | 38.75 | 28.80 |
| 17 | 36 0 | 69.62 | 43 30 | 45.20 | 24.40 |
| 18 | 33 0 | 70.60 | 42 0 | 46.19 | 24.40 |
| 19 | 30 0 | 75.42 | 46 30 | 47.29 | 28.10 |
| 20 | 30 0 | 69.28 | 31 30 | 45.47 | 23.80 |
| 21 | 30 0 | 73.06 | 39 0 | 48.84 | 24.20 |
| 22 | 34 30 | 73.10 | 40 30 | 51.49 | 21.60 |
| 23 | 46 30 | 73.42 | 39 0 | 51.67 | 21.70 |
| 24 | 33 0 | 77.13 | 46 30 | 46.63 | 30.50 |
| 25 | 36 0 | 75.27 | 30 0 | 34.92 | 40.30 |
| 26 | 30 0 | 73.54 | 43 30 | 35.93 | 37.60 |
| 27 | 40 30 | 78.62 | 30 0 | 43.84 | 35.70 |
| 28 | 31 30 | 78.12 | 46 30 | 47.77 | 30.30 |
| 29 | 30 0 | 84.19 | 30 0 | 57.27 | 26.90 |
| 30 | 34 30 | 76.93 | 30 0 | 42.97 | 33.90 |
| Mittel | 8 34 15 | — | 1 38 30 | — | 27.042 = 11' 18" 65 |

Bemerkungen. Den 2. Nachmittags plötzlich senkrechte Schwingungen; — den 10. Früh unregelmässig; — den 11. und 26. Nachmittags senkrechte Schwingungen; — den 16. Früh etwas senkrechte Schwingungen; — den 21. Früh und Nachmittags unregelmässig.
 Vom 4. Juni an wurden die Beobachtungen mit dem Rohre des Sextanten gemacht, da der Theodolith zu terrestrischen

Tag Zeit des Minimum Minimum Zeit des Maximum Maximum Unterschied

Messungen verwendet wurde. Die Beobachtungen dienen also blos zur Ermittlung der täglichen und monatlichen Oscillation.
 Grösste tägliche Oscillation den 25. = 40.350 = 16' 51" 78.
 Kleinste " " 11. = 8.733 = 3' 39" 20.

Im Juli 1843.

| | | | | | |
|--------|------------------------|--------|------------------------|--------|--------------------|
| 1 | 8 ^h 40' 30" | 577.59 | 1 ^h 31' 30" | 543.44 | 34.15 |
| 2 | 45 0 | 67.22 | 31 30 | 42.99 | 24.23 |
| 3 | 30 0 | 76.92 | 31 30 | 42.99 | 33.93 |
| 4 | 30 0 | 75.09 | 42 0 | 39.70 | 35.39 |
| 5 | 46 30 | 63.64 | 36 0 | 39.88 | 23.76 |
| 6 | 30 0 | 62.11 | 42 0 | 42.82 | 19.29 |
| 7 | 45 0 | 70.75 | 46 30 | 51.85 | 18.90 |
| 8 | 58 0 | 46.30 | 46 30 | 26.49 | 19.81 |
| 9 | 30 0 | 62.82 | 33 0 | 46.23 | 16.59 |
| 10 | 31 30 | 56.61 | 43 30 | 37.71 | 18.90 |
| 11 | 30 0 | 58.13 | 36 0 | 36.60 | 21.53 |
| 12 | 30 0 | 61.15 | 46 30 | 37.70 | 23.45 |
| 13 | 36 0 | 59.68 | 43 30 | 35.16 | 24.52 |
| 14 | 30 0 | 61.22 | 30 0 | 36.37 | 24.85 |
| 15 | 30 0 | 58.36 | 34 30 | 42.80 | 15.56 |
| 16 | 30 0 | 62.66 | 46 30 | 37.23 | 25.43 |
| 17 | 46 30 | 58.09 | 39 0 | 34.80 | 23.29 |
| 18 | 34 30 | 63.44 | 37 30 | 37.47 | 25.97 |
| 19 | 30 0 | 53.76 | 30 0 | 31.21 | 22.55 |
| 20 | 39 0 | 58.86 | 46 30 | 34.09 | 24.77 |
| 21 | 30 0 | 48.78 | 45 0 | 26.61 | 22.17 |
| 22 | 30 0 | 57.46 | 34 30 | 30.34 | 27.12 |
| 23 | 34 30 | 53.06 | 46 30 | 27.95 | 25.11 |
| 24 | 31 30 | 52.24 | 30 0 | 32.60 | 19.64 |
| 25 | 30 0 | 56.66 | 46 30 | 13.97 | 42.69 |
| 26 | 31 0 | 49.51 | 34 30 | 26.14 | 23.37 |
| 27 | 45 0 | 41.94 | 46 30 | 22.34 | 19.60 |
| 28 | 39 0 | 73.06 | 46 30 | 48.65 | 24.41 |
| 29 | 30 0 | 79.12 | 46 30 | 48.61 | 30.51 |
| 30 | 30 0 | 75.40 | 43 30 | 54.47 | 20.93 |
| 31 | 34 30 | 75.97 | 37 30 | 55.84 | 20.13 |
| Mittel | 8 35 7 | — | 1 39 43 | — | 24.276 = 10' 9" 33 |

Bemerkungen. Den 7. und 8. Früh etwas senkrechte Schwingungen; — den 21., 24., 25. und 26. Früh unregelmässig; — den 27. Nachmittags senkrechte Schwingungen; — den 28. und 29. Früh plötzlich etwas senkrechte Schwingungen.
 Auch in diesem Monate wurde mit dem Rohre des Sextanten beobachtet.
 Grösste tägliche Oscillation den 25. = 42.691 = 17' 51" 54.
 Kleinste " " 15. = 15.558 = 6' 30" 50.

Im August 1843.

| | | | | | |
|----|------------------------|--------|-----------------------|--------|-------|
| 1 | 8 ^h 46' 30" | 576.74 | 1 ^h 30' 0" | 537.82 | 38.92 |
| 2 | 40 30 | 75.42 | 45 0 | 48.89 | 26.53 |
| 3 | 40 30 | 79.40 | 33 0 | 50.06 | 29.34 |
| 4 | 33 0 | 80.96 | 40 30 | 36.84 | 44.12 |
| 5 | 30 0 | 68.37 | 42 0 | 60.52 | 7.85 |
| 6 | 36 0 | 64.63 | 33 0 | 61.89 | 2.74 |
| 7 | 30 0 | 73.82 | 42 0 | 58.62 | 15.20 |
| 8 | 31 30 | 70.61 | 46 30 | 53.93 | 16.08 |
| 9 | 46 30 | 63.26 | 36 0 | 46.88 | 16.38 |
| 10 | 42 0 | 02.81 | 30 0 | 478.31 | 24.40 |
| 11 | 37 30 | 06.45 | 43 30 | 79.42 | 26.98 |
| 12 | 30 0 | 02.03 | 30 0 | 79.84 | 22.19 |
| 13 | 37 30 | 12.18 | 42 0 | 86.12 | 26.07 |
| 14 | 34 30 | 10.47 | 30 0 | 85.28 | 25.19 |
| 15 | 30 0 | 08.57 | 30 0 | 86.77 | 21.70 |
| 16 | 30 0 | 06.89 | 43 30 | 85.67 | 21.21 |
| 17 | 37 30 | 08.83 | 40 30 | 89.42 | 19.41 |
| 18 | 34 30 | 07.02 | 30 0 | 85.32 | 21.70 |
| 19 | 30 0 | 07.34 | 40 30 | 83.48 | 23.86 |
| 20 | 33 0 | 12.26 | 30 0 | 84.18 | 28.08 |
| 21 | 39 0 | 10.50 | 30 0 | 89.65 | 20.85 |

Variationen der Declination der Magnetnadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|---------------------|-------------------------|-----------------------|---------|------------------------|---------|---------------------|-----------------------|--------|-----------------------|--------|-------|
| 22 | 8 ^h 31' 30" | 509.67 | 1 ^h 46' 30" | 474.10 | 35.57 | Im October 1843. | | | | | | | | | | |
| 23 | 45 0 | 08.63 | 37 30 | 80.08 | 26.55 | 1 | 8 ^h 33' 0" | 503.04 | 1 ^h 34' 30" | 486.38 | 16.66 | | | | | |
| 24 | 42 0 | 05.79 | 30 0 | 77.04 | 28.75 | 2 | 36 0 | 05.84 | 30 0 | 87.89 | 17.95 | | | | | |
| 25 | 34 30 | 11.50 | 37 30 | 84.69 | 26.81 | 3 | 46 30 | 496.71 | 33 0 | 88.95 | 7.76 | | | | | |
| 26 | 0 0 | 07.34 | 0 0 | 80.91 | 26.43 | 4 | 30 0 | 508.07 | 45 0 | 86.85 | 21.22 | | | | | |
| 27 | 31 30 | 10.99 | 37 30 | 80.37 | 30.62 | 5 | 34 30 | 04.25 | 46 30 | 83.64 | 20.61 | | | | | |
| 28 | 31 30 | 10.68 | 30 0 | 80.62 | 30.06 | 6 | 30 0 | 09.05 | 30 0 | 86.68 | 22.37 | | | | | |
| 29 | 40 30 | 05.07 | 31 30 | 81.29 | 23.78 | 7 | 30 0 | 08.62 | 34 30 | 85.05 | 23.57 | | | | | |
| 30 | 39 0 | 07.43 | 46 30 | 84.44 | 22.99 | 8 | 30 0 | 06.54 | 31 30 | 85.19 | 21.35 | | | | | |
| 31 | 36 0 | 06.88 | 31 30 | 80.72 | 26.16 | 9 | 30 0 | 09.70 | 45 0 | 86.72 | 22.98 | | | | | |
| Mittel | 8 34 52 | 508.390 | 1 35 22 | 482.628 | 24.429 = 10' 15" 61 | 10 | 30 0 | 06.39 | 43 30 | 88.11 | 18.28 | | | | | |
| <p>Bemerkungen. Den 1., 19. und 27. Früh unregelmässig; — den 8. Früh unregelmässig, Nachmittags senkrechte Schwingungen; — den 29. Früh plötzlich unregelmässig.</p> <p>Den 9. wurde der Theodolith wieder aufgestellt, und den 28. die Constanten zur Berechnung der absoluten Declination bestimmt; ich fand so $a = 15^{\circ} 56' 59''.7$, $b = 25^{\circ} 20'$.</p> <p>Mittel aus den Summen der Maxima und Minima vom 10. an = 495.390.</p> <p>Grösste Declination den 22. mit 474.100 } grösste monatl. Oscillation Kleinste " " 20. " 512.258 } $38.158 = 16' 1'' 58.$</p> <p>Grösste tägliche Oscillation den 4. = 44.116 = 18' 31'' 72. Kleinste " " 6. = 2.740 = 1' 9'' 05.</p> | | | | | | <p>11</p> | | | | | | 33 0 | 10.17 | 43 30 | 88.30 | 21.87 |
| | | | | | | 12 | 34 30 | 08.93 | 36 0 | 86.12 | 23.81 | | | | | |
| | | | | | | 13 | 34 30 | 07.31 | 30 0 | 86.09 | 21.22 | | | | | |
| | | | | | | 14 | 31 30 | 07.94 | 40 30 | 85.99 | 21.95 | | | | | |
| | | | | | | 15 | 37 30 | 11.68 | 31 30 | 75.17 | 36.51 | | | | | |
| | | | | | | 16 | 46 30 | 03.88 | 37 30 | 91.69 | 12.19 | | | | | |
| | | | | | | 17 | 33 0 | 03.67 | 37 30 | 89.14 | 14.53 | | | | | |
| | | | | | | 18 | 42 0 | 08.65 | 34 30 | 90.16 | 18.49 | | | | | |
| | | | | | | 19 | 40 30 | 10.85 | 45 0 | 93.41 | 17.44 | | | | | |
| | | | | | | 20 | 45 0 | 11.85 | 33 0 | 93.42 | 18.43 | | | | | |
| | | | | | | 21 | 30 0 | 11.90 | 45 0 | 96.39 | 15.51 | | | | | |
| | | | | | | 22 | 42 0 | 13.82 | 31 30 | 94.95 | 18.87 | | | | | |
| | | | | | | 23 | 39 0 | 10.59 | 30 0 | 94.75 | 15.84 | | | | | |
| | | | | | | 24 | 39 0 | 10.81 | 45 0 | 86.57 | 24.24 | | | | | |
| | | | | | | 25 | 34 30 | 07.08 | 46 30 | 96.22 | 10.86 | | | | | |
| | | | | | | 26 | 42 0 | 08.50 | 40 30 | 96.53 | 11.97 | | | | | |
| | | | | | | 27 | 36 0 | 07.79 | 36 0 | 502.70 | 5.09 | | | | | |
| | | | | | | 28 | 30 0 | 11.51 | 43 30 | 01.55 | 9.96 | | | | | |
| | | | | | | 29 | 42 0 | 11.95 | 39 04 | 499.75 | 12.20 | | | | | |
| | | | | | | 30 | 34 30 | 19.45 | 34 30 | 504.01 | 15.44 | | | | | |
| | | | | | | 31 | 30 0 | 15.43 | 31 30 | 496.81 | 18.62 | | | | | |
| | | | | | | Mittel | 8 36 0 | 508.806 | 1 37 | 490.813 | 17.993 = 7' 33'' 12 | | | | | |
| <p>Bemerkungen. Den 1., 2., 5. und 15. Früh etwas unregelmässig; — den 3. Früh hoher Stand; — den 4. Früh etwas unregelmässig, senkr. Schwingungen; — den 9. Früh etwas unregelmässig, Nachmittags senkrechte Schwingungen; — den 10. und 14. Früh und Nachmittags unregelmässig; — den 12., 20., 21., 22. und 28. Früh unregelmässig; — den 18. u. 19. Früh unregelmässig, Nachmittags senkrechte Schwingungen.</p> <p>Mittel aus den Summen der Maxima und Minima = 499.809.</p> <p>Grösste Declination den 15. mit 475.175 } grösste monatl. Oscillation Kleinste " " 30. " 519.450 } $44.275 = 18' 35'' 73.$</p> <p>Grösste tägliche Oscillation den 15. = 36.508 = 15' 20'' 00. Kleinste " " 27. = 5.092 = 2' 8'' 32.</p> | | | | | | <p>1</p> | | | | | | 8 ^h 45' 0" | 524.72 | 1 ^h 30' 0" | 503.09 | 21.63 |
| | | | | | | 2 | 46 30 | 12.77 | 39 0 | 05.38 | 7.39 | | | | | |
| | | | | | | 3 | 46 30 | 14.10 | 46 30 | 07.83 | 6.27 | | | | | |
| | | | | | | 4 | 31 30 | 18.38 | 34 30 | 10.05 | 8.33 | | | | | |
| | | | | | | 5 | 35 0 | 19.58 | 30 0 | 07.58 | 12.00 | | | | | |
| | | | | | | 6 | 43 30 | 17.04 | 33 0 | 499.87 | 17.17 | | | | | |
| | | | | | | 7 | 30 0 | 20.05 | 33 0 | 509.12 | 10.93 | | | | | |
| | | | | | | 8 | 33 0 | 21.10 | 34 30 | 11.77 | 9.33 | | | | | |
| | | | | | | 9 | 45 0 | 17.27 | 36 0 | 07.42 | 9.85 | | | | | |
| | | | | | | 10 | 30 0 | 28.02 | 30 0 | 11.66 | 6.96 | | | | | |
| | | | | | | 11 | 30 0 | 20.47 | 40 30 | 10.00 | 10.47 | | | | | |
| | | | | | | 12 | 46 30 | 22.57 | 33 0 | 499.32 | 23.25 | | | | | |
| | | | | | | 13 | 42 30 | 23.05 | 36 0 | 512.22 | 10.83 | | | | | |
| | | | | | | 14 | 43 30 | 25.30 | 30 0 | 14.73 | 10.57 | | | | | |
| | | | | | | 15 | 31 30 | 21.66 | 36 0 | 11.35 | 10.31 | | | | | |
| | | | | | | 16 | 34 30 | 20.38 | 39 0 | 12.98 | 7.40 | | | | | |
| | | | | | | 17 | 30 0 | 20.43 | 30 0 | 08.89 | 11.54 | | | | | |
| | | | | | | 18 | 42 0 | 22.84 | 31 30 | 15.57 | 7.27 | | | | | |
| | | | | | | 19 | 33 0 | 27.25 | 37 30 | 18.60 | 8.65 | | | | | |
| | | | | | | 20 | 43 30 | 18.17 | 31 30 | 10.91 | 7.26 | | | | | |
| | | | | | | 21 | 40 30 | 29.15 | 36 0 | 11.50 | 17.55 | | | | | |
| | | | | | | 22 | 36 0 | 16.31 | 34 30 | 13.10 | 3.21 | | | | | |
| <p>Bemerkungen Den 3. Früh unregelmässig, unruhig; — den 5., 8., 12. bis 16., 18. bis 21., 26., 29. und 30 Früh unregelmässig.</p> <p>Mittel aus den Summen der Maxima und Minima = 494.488.</p> <p>Grösste Declination den 10. mit 474.291 } grösste monatl. Oscillation Kleinste " " 17. " 518.792 } $44.501 = 18' 41'' 42.$</p> <p>Grösste tägliche Oscillation den 17. = 34.017 = 14' 17'' 23. Kleinste " " 5. = 9.200 = 3' 51'' 84.</p> | | | | | | | | | | | | | | | | |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|-------------------------|---------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|---------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| 23 | 8 ^h 36' 0'' | 522.71 | 1 ^h 30' 0'' | 499.07 | 23.64 | Im Jänner 1844. 1 8 ^h 37'30'' 506.12 1 ^h 31'30'' 495.57 10.55 2 37 30 07.09 30 0 495.86 11.23 3 46 30 08.08 33 0 500.36 7.72 4 46 30 09.11 34 30 493.75 15.36 5 43 30 06.83 30 0 486.63 20.20 6 30 0 00.67 31 30 499.95 0.72 7 31 30 07.37 31 30 498.58 8.75 8 30 0 07.75 30 0 498.42 9.32 9 40 30 07.92 31 30 500.19 7.73 10 45 0 08.72 42 0 02.67 6.05 11 46 30 04.72 42 0 496.88 7.84 12 45 0 05.44 30 0 500.57 4.87 13 31 30 07.78 30 0 499.42 8.36 14 30 0 05.28 39 0 494.38 10.90 15 43 30 07.81 46 30 96.95 10.86 16 43 30 08.75 40 30 93.39 15.36 17 46 30 09.08 37 30 94.05 15.03 18 30 0 07.40 30 0 96.50 10.90 19 31 30 07.86 39 0 502.85 5.01 20 37 30 07.09 34 30 03.73 3.36 21 31 30 07.37 46 30 03.07 4.30 22 40 30 08.67 30 0 01.11 7.56 23 36 0 04.67 39 0 04.80 -0.13 24 45 0 05.90 30 0 03.12 2.78 25 43 30 494.92 40 30 492.14 2.78 26 34 30 506.90 30 0 503.02 3.88 27 39 0 06.93 31 30 02.33 9.60 28 39 0 05.72 30 0 496.75 8.97 29 35 30 07.62 46 30 501.62 6.00 30 33 0 08.22 33 0 05.52 2.70 31 40 30 08.98 31 30 496.82 12.16 Mittel 8 38 19 506.671 1 34 56 498.744 7.925 = 3'19"71 Bemerkungen. Den 2., 9., 20. und 21. Früh unregelmässiger Gang; — den 5. Früh ganz unregelmässig; — den 6. zwischen 8 ^h 40 ^m und 1 ^h 40 ^m — 0.625; — den 11. und 17. Früh senkrechte Schwingungen; — den 13. Früh unruhig unregelmässig; — den 14., 15. und 16. Früh unruhig; — den 23. Früh unregelmässig, zwischen 8 ^h 40 ^m und 1 ^h 40 ^m — 2.950; — den 31. Früh plötzlich etwas senkrechte Schwingungen. Mittel aus den Summen der Maxima und Minima = 502.708. Grösste Declination den 5. mit 486.633 } grösste monatl. Oscillation Kleinste " " 4. " 509.108 } 22.475 = 9' 26" 34. Grösste tägliche Oscillation den 5. = 20.200 = 8' 29" 04. Kleinste " " 23. = - 0.125 = - 3" 02. | | | | | | | | | | | |
| 24 | 42 0 | 21.54 | 30 0 | 492.91 | 28.63 | | | | | | | | | | | | |
| 25 | 45 0 | 15.40 | 20 0 | 501.85 | 13.55 | | | | | | | | | | | | |
| 26 | 30 0 | 18.32 | 34 30 | 504.37 | 13.95 | | | | | | | | | | | | |
| 27 | 31 30 | 17.56 | 30 0 | 02.49 | 15.07 | | | | | | | | | | | | |
| 28 | 43 30 | 16.21 | 31 30 | 04.25 | 11.96 | | | | | | | | | | | | |
| 29 | 31 30 | 18.40 | 40 30 | 08.63 | 9.77 | | | | | | | | | | | | |
| 30 | 31 0 | 19.66 | 31.30 | 14.04 | 5.62 | | | | | | | | | | | | |
| Mittel | 8 37 55 | 520.034 | 1 33 40 | 507.987 | 12.012 = 5' 2" 70 | | | | | | | | | | | | |
| Bemerkungen. Den 5. Früh und Nachmittags unregelmässig; — den 6. Früh und Nachmittags unregelmässig, unruhig; — den 7. Früh plötzlich senkrechte Schwingungen, unregelmässig, unruhig; — den 8. Früh plötzlich senkrechte Schwingungen, unregelmässig, unruhig; — den 8. Früh plötzl. senkr. Schwingungen; — den 10. Früh unregelmässig, unruhig; — den 11. Früh etwas senkrechte Schwingungen; — den 12. Früh und Nachmittags etwas senkrechte Schwingungen; — den 17. Früh und Nachmittags unregelmässig, senkrechte Schwingungen; — den 26. Früh und Nachmittags senkrechte Schwingungen; — den 30. Früh unregelmässig. Mittel aus den Summen der Maxima und Minima = 514.010. Grösste Declination den 24. mit 492.908 } grösste monatl. Oscillation Kleinste " " 21. " 529.150 } 36.242 = 15' 13" 30. Grösste tägliche Oscillation den 24. = 28.634 = 12' 1" 57. Kleinste " " 22. = 3.208 = 1' 10" 84. | | | | | | | | | | | | | | | | | |
| Im December 1843. | | | | | | | | | | | | | | | | | |
| 1 | 8 ^h 36' 0'' | 523.59 | 1 ^h 46' 30'' | 508.62 | 14.97 | | | | | | | Im Februar 1844. 1 8 ^h 34'30'' 508.03 1 ^h 46'30'' 492.69 15.34 2 30 0 09.35 45 0 503.15 6.20 3 33 0 11.64 30 0 500.63 11.01 4 45 0 11.82 31 30 501.39 10.43 5 42 0 11.84 30 0 495.54 16.30 6 46 30 10.57 42 0 501.89 8.68 7 46 30 12.12 30 0 499.76 12.36 8 40 30 11.55 39 0 498.14 13.41 9 45 0 10.26 30 0 503.31 6.95 10 30 0 09.98 33 0 500.20 9.78 11 30 0 12.35 31 30 04.62 7.73 12 31 30 10.44 43 30 05.11 5.33 13 40 30 07.08 31 30 03.23 3.85 14 33 0 08.00 43 30 04.11 3.89 15 31 30 07.50 40 30 00.94 6.56 16 36 0 09.30 30 0 01.31 7.99 17 30 0 09.36 39 0 03.93 5.43 18 46 30 07.06 30 0 06.77 0.29 19 42 0 09.58 30 0 04.15 5.43 20 37 30 12.48 33 0 04.99 7.49 21 46 30 14.97 30 0 497.40 17.57 22 42 0 08.84 37 30 503.75 5.09 | | | | | |
| 2 | 33 0 | 25.65 | 30 0 | 09.62 | 16.03 | | | | | | | | | | | | |
| 3 | 45 0 | 19.83 | 30 0 | 11.20 | 8.63 | | | | | | | | | | | | |
| 4 | 34 30 | 20.42 | 30 0 | 14.58 | 5.84 | | | | | | | | | | | | |
| 5 | 43 30 | 18.91 | 30 0 | 10.52 | 8.39 | | | | | | | | | | | | |
| 6 | 30 0 | 18.35 | 40 30 | 15.62 | 2.73 | | | | | | | | | | | | |
| 7 | 40 30 | 28.78 | 43 30 | 19.12 | 9.66 | | | | | | | | | | | | |
| 8 | 45 0 | 24.67 | 34 30 | 18.07 | 6.60 | | | | | | | | | | | | |
| 9 | 49 30 | 18.09 | 34 30 | 13.48 | 4.61 | | | | | | | | | | | | |
| 10 | 30 0 | 30.68 | 31 30 | 12.64 | 18.04 | | | | | | | | | | | | |
| 11 | 33 0 | 29.82 | 37 30 | 19.40 | 10.42 | | | | | | | | | | | | |
| 12 | 33 0 | 26.50 | 33 0 | 20.64 | 5.86 | | | | | | | | | | | | |
| 13 | 43 30 | 16.42 | 37 30 | 16.29 | 0.13 | | | | | | | | | | | | |
| 14 | 39 0 | 15.14 | 31 30 | 21.74 | 6.60 | | | | | | | | | | | | |
| 15 | 49 0 | 27.32 | 33 0 | 18.79 | 8.53 | | | | | | | | | | | | |
| 16 | 36 0 | 28.24 | 34 30 | 13.37 | 14.97 | | | | | | | | | | | | |
| 17 | 34 30 | 34.99 | 36 0 | 05.61 | 29.38 | | | | | | | | | | | | |
| 18 | 30 0 | 28.54 | 30 0 | 06.46 | 22.08 | | | | | | | | | | | | |
| 19 | 45 0 | 36.91 | 43 30 | 10.09 | 26.82 | | | | | | | | | | | | |
| 20 | 33 0 | 35.98 | 36 0 | 12.36 | 23.62 | | | | | | | | | | | | |
| 21 | 30 0 | 28.32 | 33 0 | 03.81 | 24.51 | | | | | | | | | | | | |
| 22 | 33 0 | 39.73 | 30 0 | 24.22 | 15.51 | | | | | | | | | | | | |
| 23 | 45 0 | 24.60 | 34 30 | 17.01 | 7.59 | | | | | | | | | | | | |
| 24 | 36 0 | 32.62 | 31 30 | 22.73 | 9.89 | | | | | | | | | | | | |
| 25 | 46 30 | 19.99 | 43 30 | 11.02 | 8.97 | | | | | | | | | | | | |
| 26 | 40 30 | 35.47 | 46 30 | 35.06 | 0.31 | | | | | | | | | | | | |
| 27 | 67 30 | 11.79 | 37 30 | 495.55 | 16.24 | | | | | | | | | | | | |
| 28 | 30 0 | 05.45 | 30 0 | 93.09 | 12.36 | | | | | | | | | | | | |
| 29 | 37 30 | 07.54 | 31 30 | 99.70 | 7.84 | | | | | | | | | | | | |
| 30 | 43 30 | 07.81 | 30 0 | 97.77 | 10.04 | | | | | | | | | | | | |
| 31 | 39 0 | 07.82 | 33 0 | 94.63 | 12.19 | | | | | | | | | | | | |
| Mittel | 8 39 0 | 523.516 | 34 59 | 511.878 | 11.490 = 4' 49" 55 | | | | | | | | | | | | |
| Bemerkungen. Den 3. Nachmittags senkrechte Schwingungen; — den 9. zwischen 8 ^h 40 ^m und 1 ^h 40 ^m — 0.758; — den 13. zwischen 8 ^h 40 ^m und 1 ^h 40 ^m — 1.258; — den 14. zwischen 8 ^h 40 ^m und 1 ^h 40 ^m — 13.491; — den 26. zwischen 8 ^h 40 ^m und 1 ^h 40 ^m — 0.100; den 21., 23. und 24. Früh senkrechte Schwingungen; — den 27. Früh merkwürdiger Stand u. Gang. Mittel aus den Summen der Maxima und Minima = 517.697. Grösste Declination den 28. mit 493.087 } grösste monatl. Oscillation Kleinste " " 22. " 539.733 } 46.646 = 19' 35" 50. Grösste tägliche Oscillation den 17. = 29.384 = 12' 20" 50. Kleinste " " 26. = 0.397 = 10" 00. | | | | | | | | | | | | | | | | | |

Variationen der Declination der Magnetnadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|-----------------------|---------|---------------------|-------|-------|-------|--------|-------|
| 23 | 8 ^h 30' 0" | 507.60 | 1 ^h 31' 30" | 504.06 | 3.54 | 5 | 8 ^h 30' 0" | 519.57 | 1 ^h 39' 0" | 489.27 | 30.30 | | | | | |
| 24 | 0 0 | 11.21 | 35 0 | 499.83 | 11.38 | 6 | 46 30 | 19.70 | 33 0 | 97.60 | 22.10 | | | | | |
| 25 | 39 0 | 11.77 | 36 0 | 500.82 | 10.95 | 7 | 46 30 | 14.40 | 43 30 | 95.24 | 19.16 | | | | | |
| 26 | 46 30 | 10.61 | 37 30 | 499.81 | 10.80 | 8 | 31 30 | 19.64 | 36 0 | 95.50 | 24.14 | | | | | |
| 27 | 30 0 | 09.61 | 30 0 | 497.22 | 12.39 | 9 | 36 0 | 19.22 | 30 0 | 96.32 | 22.90 | | | | | |
| 28 | 34 30 | 12.83 | 31 30 | 500.00 | 12.83 | 10 | 39 0 | 22.47 | 30 0 | 92.29 | 30.18 | | | | | |
| 29 | 45 0 | 10.87 | 30 0 | 503.20 | 7.67 | 11 | 42 0 | 17.46 | 31 30 | 99.73 | 15.73 | | | | | |
| Mittel | 8 36 43 | 510.29 | 1 34 46 | 501.45 | 8.444 = 3' 42" 87 | 12 | 30 0 | 35.15 | 36 0 | 96.35 | 38.80 | | | | | |
| <p>Bemerkungen. Den 6., 14. und 16. Früh unruhig unregelmässig; — den 11., 15., 23. und 29. Früh unregelmässig; — den 18. zwischen 8^h 40^m und 1^h 40^m — 0.875; — den 21. Nachmittags ganz unregelmässig; — den 24. Terminstag; — den 27. Früh etwas senkrechte Schwingungen.</p> <p>Mittel aus den Summen der Maxima und Minima = 505.871.</p> <p>Grösste Declination den 1. mit 492.692) grösste monatl. Oscillation Kleinste " " 21. " 514.975) 22.283 = 9' 21" 53. Grösste tägliche Oscillation den 21. = 17.575 = 7' 22" 89. Kleinste " " " 18. = 0.291 = 7" 33.</p> | | | | | | <p>13</p> | | | | | | 37 30 | 20.15 | 30 0 | 95.42 | 24.73 |
| <p>Im März 1844.</p> | | | | | | <p>14</p> | | | | | | 45 0 | 23.47 | 37 30 | 96.55 | 26.92 |
| 1 | 8 ^h 43' 30" | 513.56 | 1 ^h 43' 30" | 505.73 | 7.83 | 15 | 42 0 | 16.51 | 56 30 | 89.42 | 27.09 | | | | | |
| 2 | 34 30 | 15.21 | 46 30 | 498.77 | 16.44 | 16 | 45 0 | 18.16 | 31 30 | 500.92 | 17.24 | | | | | |
| 3 | 31 30 | 06.45 | 30 0 | 501.04 | 5.41 | 17 | 37 30 | 06.29 | 37 30 | 465.97 | 40.32 | | | | | |
| 4 | 43 30 | 15.34 | 30 0 | 500.42 | 14.92 | 18 | 40 30 | 17.09 | 42 0 | 493.45 | 23.64 | | | | | |
| 5 | 45 0 | 14.77 | 30 0 | 500.87 | 13.90 | 19 | 40 30 | 28.40 | 34 30 | 505.83 | 22.57 | | | | | |
| 6 | 31 30 | 13.76 | 30 0 | 496.22 | 17.54 | 20 | 34 30 | 26.82 | 30 0 | 01.65 | 25.17 | | | | | |
| 7 | 34 30 | 12.45 | 31 30 | 501.89 | 10.56 | 21 | 30 0 | 27.15 | 33 0 | 07.32 | 19.83 | | | | | |
| 8 | 31 30 | 10.42 | 43 30 | 499.02 | 11.30 | 22 | 45 0 | 29.35 | 37 30 | 06.44 | 22.91 | | | | | |
| 9 | 34 30 | 16.94 | 27 0 | 504.11 | 12.83 | 23 | 43 30 | 28.55 | 42 0 | 01.30 | 27.25 | | | | | |
| 10 | 45 0 | 14.45 | 33 0 | 504.64 | 9.81 | 24 | 36 0 | 25.84 | 46 30 | 496.69 | 29.15 | | | | | |
| 11 | 39 0 | 16.29 | 40 30 | 497.96 | 18.33 | 25 | 37 30 | 28.33 | 42 0 | 490.58 | 37.75 | | | | | |
| 12 | 46 30 | 16.83 | 36 0 | 495.48 | 21.34 | 26 | 33 0 | 28.62 | 31 30 | 479.94 | 48.68 | | | | | |
| 13 | 43 30 | 20.57 | 45 0 | 99.57 | 20.90 | 27 | 40 30 | 23.47 | 30 0 | 502.95 | 20.52 | | | | | |
| 14 | 46 30 | 18.12 | 30 0 | 97.34 | 20.78 | 28 | 31 30 | 19.02 | 46 30 | 499.67 | 19.35 | | | | | |
| 15 | 30 0 | 17.15 | 46 30 | 99.75 | 17.40 | 29 | 42 0 | 22.92 | 30 0 | 500.04 | 22.88 | | | | | |
| 16 | 39 0 | 19.32 | 45 0 | 98.73 | 20.59 | 30 | 46 30 | 20.37 | 30 0 | 498.22 | 22.15 | | | | | |
| 17 | 39 0 | 18.82 | 40 30 | 98.72 | 20.00 | Mittel | 8 38 36 | 521.57 | 1 37 5 | 496.25 | 25.253 = 10' 36" 37 | | | | | |
| 18 | 37 30 | 23.87 | 36 0 | 94.39 | 29.48 | <p>Bemerkungen. Den 3. Früh etwas senkrechte Schwingungen; — den 4. Früh sehr unruhig; — den 5. Früh unruhig, unregelmässig; — den 8. Nachmittags senkrechte Schwingungen; — den 17. Früh und Nachmittags merkwürdiger Stand; — den 23. Früh plötzlich senkrechte Schwingungen; — den 25. Früh unregelmässig, Nachmittags senkrechte Schwingungen; — den 26. Früh unregelmässig, merkwürdig.</p> <p>Mittel aus den Summen der Maxima und Minima = 508.914.</p> <p>Grösste Declination den 17. mit 465.967) grösste monatl. Oscillation Kleinste " " 12. " 535.150) 69.183 = 29' 3" 41. Grösste tägliche Oscillation den 26. = 48.675 = 20' 25" 61. Kleinste " " " 1. = 13.825 = 5' 48" 39.</p> | | | | | | | | | | |
| 19 | 33 0 | 17.10 | 39 0 | 98.00 | 19.10 | <p>Im Mai 1844.</p> | | | | | | | | | | |
| 20 | 46 30 | 18.07 | 31 30 | 502.07 | 16.00 | 1 | 8 ^h 31' 30" | 522.42 | 1 ^h 33' 0" | 502.85 | 19.57 | | | | | |
| 21 | 45 0 | 16.76 | 46 30 | 500.11 | 16.65 | 2 | 46 30 | 19.15 | 46 30 | 02.64 | 16.51 | | | | | |
| 22 | 36 0 | 21.58 | 33 0 | 497.25 | 24.33 | 3 | 37 30 | 15.99 | 51 0 | 01.94 | 14.05 | | | | | |
| 23 | 42 0 | 21.64 | 43 30 | 96.85 | 24.79 | 4 | 30 0 | 22.92 | 31 30 | 00.42 | 22.50 | | | | | |
| 24 | 31 30 | 22.82 | 33 30 | 91.95 | 30.87 | 5 | 30 0 | 21.42 | 31 30 | 496.16 | 25.26 | | | | | |
| 25 | 40 30 | 20.33 | 31 30 | 97.36 | 22.97 | 6 | 34 30 | 17.72 | 42 0 | 96.96 | 20.76 | | | | | |
| 26 | 39 0 | 19.70 | 30 0 | 98.58 | 21.12 | 7 | 43 30 | 22.42 | 45 0 | 501.95 | 20.47 | | | | | |
| 27 | 30 0 | 21.68 | 30 0 | 99.21 | 23.47 | 8 | 45 0 | 21.44 | 42 0 | 496.19 | 25.25 | | | | | |
| 28 | 31 30 | 16.24 | 34 30 | 93.22 | 23.04 | 9 | 43 30 | 19.14 | 46 30 | 94.97 | 24.17 | | | | | |
| 29 | 39 0 | 16.92 | 30 0 | 96.91 | 20.01 | 10 | 46 30 | 22.00 | 46 30 | 502.41 | 19.59 | | | | | |
| 30 | 31 30 | 14.02 | 46 30 | 84.07 | 29.92 | 11 | 33 0 | 17.03 | 30 0 | 495.98 | 21.05 | | | | | |
| 31 | 45 0 | 14.86 | 46 30 | 93.83 | 21.03 | 12 | 30 0 | 21.62 | 39 0 | 96.02 | 25.60 | | | | | |
| Mittel | 8 38 17 | 516.97 | 1 36 47 | 498.20 | 18.802 = 7' 53" 81 | 13 | 31 30 | 21.42 | 30 0 | 97.87 | 23.55 | | | | | |
| <p>Bemerkungen. Den 2 Früh unregelmässig; — den 8. Früh sehr unruhig; — den 9. Früh sehr unregelmässig; — den 14. Früh unregelmässig, senkrechte Schwingungen; — den 18. und 22. Früh unregelmässig; — den 29. Früh senkrechte Schwingungen; — den 30. Früh und Nachmittags merkwürdiger Stand.</p> <p>Mittel aus den Summen der Maxima und Minima = 507.583.</p> <p>Grösste Declination den 30. mit 484.075) grösste monatl. Oscillation Kleinste " " 18. " 523.867) 39.792 = 16' 47" 76. Grösste tägliche Oscillation den 24. = 30.875 = 12' 58" 05. Kleinste " " " 3. = 5.411 = 2' 16" 35.</p> | | | | | | <p>14</p> | | | | | | 39 0 | 26.60 | 48 0 | 91.10 | 35.50 |
| <p>Im April 1844.</p> | | | | | | <p>15</p> | | | | | | 30 0 | 18.31 | 30 0 | 99.46 | 18.85 |
| 1 | 8 ^h 36' 0" | 514.87 | 1 ^h 31' 30" | 501.05 | 13.82 | 16 | 40 30 | 22.24 | 40 30 | 99.98 | 22.26 | | | | | |
| 2 | 37 30 | 16.86 | 46 30 | 496.66 | 20.20 | 17 | 30 0 | 19.91 | 30 0 | 502.03 | 17.88 | | | | | |
| 3 | 42 0 | 15.15 | 45 0 | 99.01 | 16.14 | 18 | 33 0 | 22.07 | 33 0 | 03.43 | 18.64 | | | | | |
| 4 | 33 0 | 22.21 | 42 0 | 96.26 | 25.95 | 19 | 43 30 | 20.75 | 36 0 | 00.52 | 20.23 | | | | | |
| <p>Denkschriften der mathem.-naturw. Cl. XVIII. Bd.</p> | | | | | | <p>20</p> | | | | | | 43 30 | 20.42 | 34 30 | 03.41 | 17.01 |
| <p>11</p> | | | | | | <p>21</p> | | | | | | 42 0 | 24.52 | 30 0 | 498.63 | 25.89 |
| <p>12</p> | | | | | | <p>22</p> | | | | | | 30 0 | 24.09 | 46 30 | 91.34 | 32.75 |
| <p>13</p> | | | | | | <p>23</p> | | | | | | 30 0 | 20.03 | 43 30 | 501.07 | 18.96 |
| <p>14</p> | | | | | | <p>24</p> | | | | | | 36 0 | 25.48 | 33 0 | 02.36 | 23.12 |
| <p>15</p> | | | | | | <p>25</p> | | | | | | 30 0 | 21.02 | 45 0 | 01.18 | 19.84 |
| <p>16</p> | | | | | | <p>26</p> | | | | | | 31 30 | 20.94 | 30 0 | 02.22 | 18.72 |
| <p>17</p> | | | | | | <p>27</p> | | | | | | 30 0 | 17.45 | 31 30 | 00.33 | 17.12 |
| <p>18</p> | | | | | | <p>28</p> | | | | | | 36 0 | 21.55 | 31 30 | 02.02 | 19.53 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|------------------------|---------|------------------------|---------|--------------------|
| 29 | 8 ^h 30' 0'' | 516.83 | 1 ^h 30' 0'' | 493.95 | 22.88 |
| 30 | 30 0 | 15.74 | 46 30 | 500.00 | 15.74 |
| 31 | 37 30 | 22.76 | 30 0 | 02.57 | 20.19 |
| Mittel | 8 35 38 | 520.82 | 1 37 33 | 499.42 | 21.402 = 8' 59" 33 |

Bemerkungen. Den 10. Früh plötzlich etwas senkrechte Schwingungen; — den 19. Früh senkrechte Schwingungen; — den 20. und 24. Früh etwas unregelmässig; — den 27. Früh und Nachmittags senkrechte Schwingungen.

Mittel aus den Summen der Maxima und Minima = 510.119.
 Grösste Declination den 14. mit 491.100 } grösste monatl. Oscillation
 Kleinste " " 14. " 526.600 } 35.500 = 14' 54" 6.
 Grösste tägliche Oscillation den 14. = 35.500 = 14' 54" 6.
 Kleinste " " " 3. = 14.050 = 5' 54" 1.

Im Juni 1844.

| | | | | | |
|--------|-------------------------|---------|------------------------|---------|--------------------|
| 1 | 8 ^h 43' 30'' | 518.60 | 1 ^h 33' 0'' | 497.31 | 21.29 |
| 2 | 39 0 | 20.71 | 39 0 | 501.32 | 19.39 |
| 3 | 46 30 | 21.39 | 30 0 | 498.87 | 22.52 |
| 4 | 40 30 | 21.13 | 54 0 | 500.88 | 20.25 |
| 5 | 31 30 | 25.51 | 30 0 | 00.39 | 25.12 |
| 6 | 30 0 | 26.90 | 42 0 | 498.74 | 28.16 |
| 7 | 34 30 | 22.28 | 31 30 | 99.26 | 23.02 |
| 8 | 31 30 | 25.64 | 36 0 | 500.33 | 25.31 |
| 9 | 42 0 | 22.55 | 33 0 | 02.53 | 20.02 |
| 10 | 34 30 | 22.02 | 30 0 | 00.32 | 19.70 |
| 11 | 42 0 | 20.79 | 48 0 | 01.75 | 19.04 |
| 12 | 30 0 | 25.14 | 33 0 | 01.79 | 23.35 |
| 13 | 40 30 | 16.64 | 42 0 | 497.85 | 18.79 |
| 14 | 37 30 | 20.63 | 36 0 | 500.74 | 19.89 |
| 15 | 30 0 | 23.62 | 33 0 | 496.36 | 27.06 |
| 16 | 31 30 | 24.32 | 46 30 | 99.35 | 24.97 |
| 17 | 43 30 | 26.26 | 30 0 | 500.44 | 25.82 |
| 18 | 34 30 | 24.81 | 46 30 | 498.09 | 26.72 |
| 19 | 33 0 | 21.28 | 46 30 | 97.35 | 23.93 |
| 20 | 30 0 | 21.92 | 31 30 | 96.83 | 25.09 |
| 21 | 40 30 | 25.49 | 45 0 | 92.41 | 33.08 |
| 22 | 46 30 | 25.46 | 37 30 | 505.90 | 19.56 |
| 23 | 36 0 | 17.99 | 45 0 | 03.88 | 14.11 |
| 24 | 33 0 | 27.35 | 33 0 | 02.66 | 24.69 |
| 25 | 40 30 | 23.38 | 45 0 | 02.30 | 21.08 |
| 26 | 30 0 | 24.33 | 36 0 | 03.45 | 20.88 |
| 27 | 30 0 | 23.32 | 31 30 | 499.68 | 23.64 |
| 28 | 30 0 | 25.02 | 30 0 | 98.03 | 26.99 |
| 29 | 37 30 | 22.33 | 37 30 | 503.13 | 19.20 |
| 30 | 30 0 | 28.18 | 36 0 | 01.51 | 26.67 |
| Mittel | 8 36 0 | 523.166 | 1 37 36 | 500.122 | 22.978 = 9' 39" 04 |

Bemerkungen. Den 4. Früh unregelmässig (starker Wind); — den 14. Früh und Nachmittags etwas unregelmässig (Wind); — den 15. Früh etwas senkrechte Schwingungen; — den 20. Früh und Nachmittags ganz unregelmässig; — den 29. Früh ganz unregelmässig.

Mittel aus den Summen der Maxima und Minima = 511.644.
 Grösste Declination den 21. mit 492.41 } grösste monatl. Oscillation
 Kleinste " " 30. " 528.18 } 35.77 = 15' 1" 40.
 Grösste tägliche Oscillation den 21. = 33.08 = 13' 53" 62.
 Kleinste " " " 23. = 14.11 = 5' 55" 57.

Im Juli 1844.

| | | | | | |
|---|-------------------------|--------|------------------------|--------|-------|
| 1 | 8 ^h 31' 30'' | 525.56 | 1 ^h 45' 0'' | 499.35 | 26.21 |
| 2 | 30 0 | 27.53 | 43 30 | 99.00 | 28.53 |
| 3 | 31 30 | 23.98 | 31 30 | 98.14 | 25.84 |
| 4 | 36 0 | 20.00 | 30 0 | 502.84 | 17.16 |
| 5 | 31 30 | 24.95 | 46 30 | 498.78 | 26.17 |
| 6 | 31 30 | 24.73 | 33 0 | 503.73 | 21.00 |
| 7 | 31 30 | 23.85 | 48 0 | 01.25 | 27.60 |
| 8 | 36 0 | 25.24 | 42 0 | 02.90 | 22.34 |
| 9 | 43 30 | 14.30 | 40 30 | 07.79 | 6.51 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|-------------------------|---------|-------------------------|---------|--------------------|
| 10 | 8 ^h 40' 30'' | 542.31 | 1 ^h 31' 30'' | 506.58 | 35.73 |
| 11 | 30 0 | 19.92 | 30 0 | 01.30 | 16.62 |
| 12 | 30 0 | 16.41 | 34 30 | 00.01 | 16.40 |
| 13 | 30 0 | 14.02 | 52 30 | 493.85 | 20.17 |
| 14 | 30 0 | 19.00 | 30 0 | 500.94 | 18.06 |
| 15 | 31 30 | 18.06 | 31 30 | 493.76 | 24.30 |
| 16 | 30 0 | 22.00 | 46 30 | 94.15 | 27.85 |
| 17 | 36 0 | 21.65 | 37 30 | 95.03 | 26.62 |
| 18 | 30 0 | 21.93 | 57 0 | 92.36 | 29.57 |
| 19 | 33 0 | 23.23 | 31 30 | 98.14 | 25.09 |
| 20 | 30 0 | 23.65 | 30 0 | 503.54 | 20.11 |
| 21 | 43 30 | 19.31 | 34 30 | 496.16 | 23.15 |
| 22 | 30 0 | 18.90 | 31 30 | 504.13 | 14.77 |
| 23 | 36 0 | 15.21 | 31 30 | 499.84 | 15.37 |
| 24 | 39 0 | 27.21 | 45 0 | 502.67 | 24.54 |
| 25 | 37 30 | 11.32 | 31 30 | 490.83 | 20.49 |
| 26 | 34 30 | 10.53 | 45 0 | 496.65 | 13.88 |
| 27 | 37 30 | 05.88 | 30 0 | 487.93 | 17.95 |
| 28 | 30 0 | 19.73 | 31 30 | 495.64 | 24.09 |
| 29 | 30 0 | 17.82 | 39 0 | 488.19 | 29.63 |
| 30 | 30 0 | 17.68 | 34 30 | 510.64 | 7.04 |
| 31 | 46 30 | 19.57 | 30 0 | 490.53 | 29.04 |
| Mittel | 8 33 49 | 520.596 | 1 37 18 | 498.602 | 21.995 = 9' 14" 27 |

Bemerkungen. Den 9. und 31. Früh unregelmässig; — den 10. Früh sehr merkwürdiger Stand, Nachmittags senkrechte Schwingungen; — den 13. Früh plötzlich etwas senkrechte Schwingungen; — den 17. Früh um 8^h 34^m unregelmässig (wenig); — den 22. Früh unregelmässig, Nachmittags senkrechte Schwingungen; — den 23. Früh plötzlich senkrechte Schwingungen (Wind); — den 25. Nachmittags unregelmässige senkrechte Schwingungen; — den 27. Früh und Nachmittags hohe Declination.

Mittel aus den Summen der Maxima und Minima = 509.599.
 Grösste Declination den 27. mit 487.93 } grösste monatl. Oscillation
 Kleinste " " 10. " 542.31 } 54.38 = 22' 50" 38.
 Grösste tägliche Oscillation den 10. = 35.73 = 15' 0" 40.
 Kleinste " " " 9. = 6.51 = 2' 44" 05.

Im August 1844.

| | | | | | |
|--------|------------------------|---------|-------------------------|--------|--------------------|
| 1 | 8 ^h 30' 0'' | 517.95 | 1 ^h 36' 30'' | 495.40 | 22.55 |
| 2 | 31 30 | 19.38 | 30 0 | 85.25 | 34.13 |
| 3 | 30 0 | 27.03 | 30 0 | 87.34 | 39.69 |
| 4 | 39 0 | 27.99 | 31 30 | 504.51 | 23.58 |
| 5 | 39 0 | 19.25 | 31 30 | 07.93 | 11.32 |
| 6 | 31 30 | 23.99 | 42 0 | 11.40 | 12.59 |
| 7 | 30 0 | 31.14 | 42 0 | 05.30 | 26.84 |
| 8 | 30 0 | 31.74 | 36 0 | 197.14 | 34.60 |
| 9 | 30 0 | 29.01 | 45 0 | 503.92 | 26.09 |
| 10 | 37 30 | 27.30 | 30 0 | 05.01 | 22.29 |
| 11 | 39 0 | 34.66 | 46 30 | 37.46 | — 2.89 |
| 12 | 42 0 | 26.70 | 30 0 | 11.01 | 15.69 |
| 13 | 30 0 | 25.72 | 33 0 | 04.10 | 21.62 |
| 14 | 30 0 | 36.85 | 45 0 | 11.44 | 25.41 |
| 15 | 30 0 | 29.80 | 30 0 | 14.50 | 15.30 |
| 16 | 30 0 | 34.63 | 43 30 | 409.61 | 35.02 |
| 17 | 31 30 | 28.67 | 43 30 | 93.59 | 35.08 |
| 18 | 30 0 | 40.68 | 42 0 | 513.15 | 27.53 |
| 19 | 43 30 | 40.49 | 30 0 | 17.41 | 23.35 |
| 20 | 33 0 | 36.43 | 34 30 | 09.08 | 27.35 |
| 21 | 31 30 | 22.91 | 31 30 | 495.35 | 27.56 |
| 22 | 31 30 | 498.94 | 37 30 | 96.88 | 2.06 |
| 23 | 37 30 | 515.36 | 46 30 | 92.05 | 23.31 |
| 24 | 39 0 | 14.13 | 39 0 | 504.41 | 9.72 |
| 25 | 46 30 | 15.01 | 31 30 | 497.43 | 17.58 |
| 26 | 43 30 | 17.39 | 30 0 | 503.20 | 14.19 |
| 27 | 36 0 | 18.19 | 31 30 | 01.03 | 17.16 |
| 28 | 30 0 | 21.75 | 30 0 | 498.26 | 23.49 |
| 29 | 30 0 | 22.71 | 30 0 | 501.28 | 21.43 |
| 30 | 34 30 | 24.46 | 45 0 | 487.11 | 37.35 |
| 31 | 5 0 | 26.69 | 50 0 | 99.34 | 27.35 |
| Mittel | 8 33 19 | 525.386 | 1 36 56 | 509.63 | 22.627 = 9' 30" 20 |

Variationen der Declination der Magnetenadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|---------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|---------|-------------|
| <p>Bemerkungen. Den 1., 2., 5., 9., 10., 12., 16., 26., 28. und 29. Früh unregelmässig; — den 3. Früh und Nachmittags unregelmässig; — den 6. und 17. Nachmittags unregelmässig; — den 11. merkwürdig, Nachmittags kleiner um 1' 10" 56; — den 18. Früh und Nachmittags senkrechte Schwingungen; — den 21. Nachmittags senkrechte Schwingungen; — den 22. Früh sehr merkwürdiger hoher Stand; — den 31. Terminstag.</p> <p>Mittel aus den Summen der Maxima und Minima = 512·5076. Grösste Declination den 2. mit 485·25 } grösste monatl. Oscillation Kleinste " " 18. " 540·68 } 55·43 = 23' 16" 84. Grösste tägliche Oscillation den 3. = 39·69 = 16' 40" 19. Kleinste " " 22. = 2·06 = 51" 91.</p> | | | | | | <p>11 8^h 33' 0" 521·78 1^h 55' 30" 505·17 16·61 12 42 0 22·54 54 0 02·18 20·36 13 45 0 21·56 40 30 03·07 18·49 14 37 30 20·42 40 30 01·89 18·53 15 39 0 23·00 31 30 04·38 18·62 16 30 0 23·50 30 0 06·44 17·06 17 46 30 24·37 30 0 04·19 20·18 18 46 30 23·21 37 30 02·32 20·89 19 43 30 23·99 46 30 08·81 15·18 20 42 0 22·30 33 0 499·16 23·14 21 39 0 19·44 30 0 97·91 21·57 22 37 30 24·57 40 30 508·94 15·63 23 37 30 19·04 45 0 08·10 10·94 24 46 30 20·30 30 0 09·52 10·78 25 46 30 18·88 30 0 07·18 11·70 26 36 0 10·40 30 0 07·27 3·13 27 33 0 22·66 43 30 07·91 14·75 28 31 30 24·20 31 30 06·81 17·39 29 34 30 19·76 31 30 07·56 12·20 30 33 0 22·56 37 30 04·63 17·93 31 37 30 22·88 31 30 04·21 18·67 Mittel 8 37 24 521·242 1 38 8 504·499 16·743 = 7' 2" 92</p> | | | | | |
| <p>Im September 1844.</p> | | | | | | <p>Bemerkungen. Den 1. Früh unregelmässig, merkwürdig, Nachmittags kleiner um 2' 0" 96; — den 2., 8., 22., 23. und 28. Früh unregelmässig; — den 9. Früh unregelmässig, unruhig; — den 12. Früh plötzlich etwas senkrechte Schwingungen; — den 14. Früh etwas unregelmässig; — den 21. Früh unregelmässig und merkwürdiger Gang; — den 30. Früh und Nachmittags unregelmässig.</p> <p>Mittel aus den Summen der Maxima und Minima = 512·870. Grösste Declination den 3. mit 495·28 } grösste monatl. Oscillation Kleinste " " 22. " 524·57 } 29·29 = 12' 18" 11. Grösste tägliche Oscillation den 3. = 26·80 = 11' 15" 36. Kleinste " " 26. = 3·13 = 1' 18" 88.</p> | | | | | |
| <p>1 8^h 37' 30" 523·00 1^h 45' 0" 498·11 24·89 2 34 30 22·78 30 0 95·15 27·63 3 31 30 20·30 30 0 97·03 23·27 4 30 0 21·07 30 0 505·10 15·97 5 30 0 19·23 30 0 502·79 16·44 6 30 0 23·67 33 0 02·77 20·90 7 46 30 22·88 30 0 00·02 22·86 8 31 30 22·34 36 0 499·08 23·26 9 30 0 16·90 31 30 502·49 14·41 10 39 0 21·59 31 30 03·78 17·81 11 39 0 24·97 30 0 01·34 23·63 12 34 30 22·52 30 0 02·24 20·28 13 31 30 19·76 33 0 498·51 21·25 14 30 0 24·16 34 30 97·46 26·70 15 30 0 20·02 31 30 96·30 23·72 16 34 30 19·50 33 0 98·12 21·38 17 30 0 25·80 30 0 506·06 19·74 18 34 30 24·02 31 30 03·72 20·30 19 39 0 24·02 30 0 499·59 24·43 20 52 0 19·72 34 30 503·51 16·21 21 30 0 22·26 30 0 05·59 16·67 22 30 0 19·92 34 30 06·04 13·88 23 30 0 22·30 34 30 04·46 17·84 24 37 30 17·37 45 0 06·02 11·35 25 45 0 18·94 40 30 00·36 18·58 26 36 0 21·04 42 0 01·53 19·51 27 30 0 06·50 45 0 497·11 9·39 28 36 0 21·56 36 0 98·14 23·42 29 31 30 09·60 43 30 94·33 15·27 30 31 30 13·33 31 30 502·18 11·15 Mittel 8 34 26 520·369 1 34 15 500·964 19·404 = 8' 8" 98</p> | | | | | | | | | | | |
| <p>Bemerkungen. Den 9., 12., 16., 17. und 29. Früh etwas unregelmässig; — den 23. Früh und Nachmittags unregelmässig; — den 26., 27. und 28. Früh unregelmässig; — den 30. Nachmittags etwas unregelmässig, merkwürdiger Gang (starker Wind).</p> <p>Mittel aus den Summen der Maxima und Minima = 510·667. Grösste Declination den 29. mit 494·33 } grösste monatl. Oscillation Kleinste " " 17. " 525·80 } 31·47 = 13' 13" 04. Grösste tägliche Oscillation den 2. = 27·63 = 11' 36" 28. Kleinste " " 27. = 9·39 = 3' 56" 63.</p> | | | | | | <p>1 8^h 40' 30" 520·42 1^h 40' 30" 504·86 15·56 2 30 0 18·80 33 0 06·00 12·80 3 30 0 18·50 40 30 05·62 12·88 4 36 0 19·10 42 0 04·35 14·75 5 43 30 19·98 30 0 10·65 9·33 6 30 0 19·80 33 0 10·26 9·54 7 36 0 20·76 36 0 07·93 12·83 8 40 30 19·48 31 30 10·04 9·44 9 30 0 21·38 31 30 09·56 11·82 10 33 0 17·78 30 0 05·49 12·29 11 45 0 18·36 30 0 06·37 11·99 12 31 30 17·13 43 30 08·33 8·80 13 45 0 18·91 30 0 11·42 7·49 14 31 30 16·95 45 0 07·52 9·43 15 43 30 25·50 30 0 05·53 19·97 16 30 0 16·16 30 0 476·65 39·51 17 46 30 09·60 31 30 510·51 -0·91 18 42 0 20·62 40 30 12·72 7·90 19 33 0 19·70 30 0 09·42 10·28 20 42 0 20·96 42 0 13·43 7·53 21 42 0 21·08 30 0 12·84 8·24 22 33 0 17·88 45 0 04·58 13·30 23 31 30 16·82 39 0 16·79 0·03 24 43 30 20·78 42 0 10·72 10·06 25 30 0 20·85 31 30 498·05 22·80 26 45 0 23·96 30 0 501·60 22·36 27 36 0 19·88 30 0 510·09 9·79 28 39 0 14·72 39 0 02·60 12·12 29 42 0 21·70 31 30 07·12 14·58 30 20 0 26·17 0 0 09·89 16·28 Mittel 8 36 43 519·258 133 57 507·031 12·457 = 5' 13" 92</p> | | | | | |
| <p>Im October 1844.</p> | | | | | | <p>1 8^h 34' 30" 506·07 1^h 46' 30" 510·87 4·80 2 37 30 22·00 42 0 503·71 +18·29 3 30 0 22·08 30 0 495·28 26·80 4 30 0 23·35 51 0 503·10 20·25 5 30 0 20·74 48 0 02·89 17·85 6 31 30 21·67 34 30 01·47 20·20 7 42 0 20·71 31 30 498·09 22·62 8 30 0 24·02 42 0 502·45 21·57 9 37 30 22·33 30 0 10·09 12·24 10 39 0 24·16 46 30 03·86 20·30</p> | | | | | |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|---------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|---------|-------------|
| <p>Bemerkungen. Den 1., 3., 5. und 25. Früh und Nachmittags unregelmässig; — den 10. Nachmittags unregelmässig; — den 11. Früh plötzlich senkrechte Schwingungen, unregelmässig; — den 15., 22. und 26. Früh unregelmässig; — den 16. Nachmittags merkwürdig hoher Stand; — den 17. Früh ganz unregelmässig, Nachmittags um 2^h 545'0; — den 23. Nachmittags senkrechte Schwingungen zwischen 8^h 40^m und 1^h 40^m — 4'19; — den 24. Früh und Nachmittags senkrechte Schwingungen; — den 30. Terminstag.</p> <p>Mittel aus den Summen der Maxima und Minima = 513'244. Grösste Declination den 16. mit 476'65} grösste monatl. Oscillation Kleinste " " 30. " 526'17} 49'52 = 20'47'90. Grösste tägliche Oscillation den 16. = 39'51 = 16'35'65. Kleinste " " " 23. = 0'03 = 0'76.</p> | | | | | | <p>11 8^h 45 0'' 515'40 1^h 43 30'' 516'79 —1'39 12 30 0 16'92 30 0 04'90 12'02 13 36 0 17'04 31 30 06'25 10'79 14 34 30 18'12 33 0 07'19 10'93 15 31 30 19'20 30 0 12'09 7'11 16 33 0 19'75 42 0 04'55 15'20 17 43 30 16'76 30 0 13'04 3'72 18 45 0 18'48 30 0 10'45 8'03 19 33 0 17'32 34 30 05'87 11'45 20 46 30 10'30 34 30 05'64 4'66 21 34 30 16'50 40 30 13'97 2'53 22 36 0 17'51 33 0 16'08 1'43 23 31 30 18'70 39 0 17'44 1'26 24 31 30 16'85 46 30 09'87 6'96 25 30 0 11'84 30 0 06'94 5'90 26 46 30 15'96 31 30 08'00 7'96 27 36 0 20'90 33 0 11'92 8'98 28 37 30 18'62 34 30 08'64 9'98 29 30 0 04'08 43 30 12'90 —8'82 30 37 30 19'31 30 0 12'63 6'68 31 42 0 21'87 30 0 11'36 10'51 Mittel 8 36 7 517'147 1 34 1 511'544 5'624 = 2'21'72</p> | | | | | |
| <p>Im December 1844.</p> | | | | | | <p>Bemerkungen. Den 8. zwischen 8^h 40^m und 1^h 40^m — 0'74; — den 10. zwischen 8^h 40^m und 1^h 40^m — 1'03; — den 11. zwischen 8^h 40^m und 1^h 40^m — 2'67; — den 13., 14. und 15. Früh und Nachmittags etwas unregelmässig; — den 16. Nachmittags ganz unregelmässig; — den 25. Nachmittags merkwürdiger Gang, zwischen 8^h 40^m und 1^h 40^m — 2'77; — den 29. Früh hoher Stand.</p> <p>Mittel aus den Summen der Maxima und Minima = 514'345. Grösste Declination den 16. mit 504'55} grösste monatl. Oscillation Kleinste " " 31. " 521'87} 17'32 = 7'16'46. Grösste tägliche Oscillation den 16. = 15'20 = 6'23'04. Kleinste " " " 4. = 0'15 = 3'78.</p> | | | | | |
| <p>1 8^h 46' 30'' 521'32 1^h 30' 0'' 499'09 22'23 2 39 0 20'42 31 30 97'17 23'25 3 45 0 21'62 30 9 508'40 13'22 4 45 0 22'76 43 30 02'80 19'96 5 45 0 26'31 36 0 10'22 16'09 6 46 30 23'24 30 0 10'56 12'68 7 36 0 21'60 40 30 09'67 12'93 8 34 30 21'52 39 0 12'97 8'55 9 43 30 20'60 30 0 498'09 22'51 10 37 30 20'20 30 0 496'43 23'77 11 45 0 20'20 30 0 500'97 19'23 12 39 0 18'65 37 30 12'18 6'47 13 45 0 16'82 31 30 09'64 7'18 14 33 0 17'19 30 0 09'72 7'47 15 46 0 13'46 45 0 05'76 7'70 16 45 0 16'46 43 30 10'73 5'73 17 42 0 16'15 30 0 12'57 3'58 18 34 30 16'10 30 0 03'78 12'32 19 30 0 17'60 42 0 10'28 7'32 20 37 30 17'84 30 0 09'50 8'34 21 46 30 18'49 40 30 08'32 10'17 22 30 0 17'76 30 0 05'25 12'51 23 42 0 17'80 34 30 04'72 13'08 24 43 30 21'45 30 0 06'28 15'17 25 42 0 20'62 33 0 05'29 15'33 26 34 30 17'30 31 30 10'77 6'53 27 39 0 13'66 34 30 10'07 3'59 28 31 30 17'74 31 30 09'40 8'30 29 33 0 17'07 57 0 03'38 13'69 30 42 0 18'96 30 0 02'88 16'08 31 33 0 16'60 30 0 05'69 10'91 Mittel 8 39 45 518'952 1 34 35 506'535 12'448 = 5'13'69</p> | | | | | | <p>Im Februar 1845.</p> | | | | | |
| <p>Bemerkungen. Den 1. Früh unregelmässig (starker Wind); — den 3. Sturm Früh und Nachmittags; — den 5., 6., 22., 24. und 25. Früh unregelmässig; — den 11., 12., 23. und 27. Früh etwas unregelmässig.</p> <p>Mittel aus den Summen der Maxima und Minima = 512'743. Grösste Declination den 10. mit 496'43} grösste monatl. Oscillation Kleinste " " 5. " 526'31} 29'88 = 12'32'98. Grösste tägliche Oscillation den 10. = 23'77 = 9'59'00. Kleinste " " " 17. = 3'58 = 1'30'22.</p> | | | | | | <p>1 8^h 42' 0' 522'28 1^h 42' 0'' 510'57 11'71 2 31 30 25'03 45 0 10'20 14'83 3 33 0 23'55 31 30 09'52 14'03 4 37 30 19'58 31 30 14'28 5'30 5 42 0 21'97 37 30 10'54 11'43 6 46 30 20'50 31 30 07'90 12'60 7 34 30 19'92 39 0 13'42 6'50 8 34 30 22'32 46 30 12'30 10'02 9 46 30 21'11 31 30 13'20 7'91 10 33 0 24'52 45 0 10'77 13'78 11 45 0 22'35 31 30 11'93 11'42 12 34 30 23'86 33 0 12'24 11'62 13 40 30 22'24 31 30 09'26 12'98 14 40 30 21'92 45 0 11'56 10'36 15 37 30 24'38 46 30 14'10 10'78 16 43 30 22'36 40 30 13'35 9'01 17 45 0 21'90 45 0 11'48 10'42 18 34 30 21'40 30 0 11'63 9'77 19 43 30 25'14 42 0 14'29 10'85 20 43 30 23'84 40 30 00'91 22'93 21 30 0 17'27 37 30 05'77 11'50 22 45 0 23'28 30 0 09'89 13'39 23 30 0 23'56 45 0 06'69 16'37 24 45 0 18'71 42 0 04'56 14'15 25 45 0 27'67 46 30 12'12 15'55 26 43 30 24'79 30 0 15'45 9'34 27 30 0 27'06 43 30 11'88 15'18 28 49 30 28'50 30 0 04'30 24'20 Mittel 8 39 32 522'875 1 38 32 510'504 12'426 = 5'13'13</p> | | | | | |
| <p>Im Jänner 1845.</p> | | | | | | <p>Bemerkungen. Den 8., 9., 10., 12., 15. und 26. Früh unregelmässig; — den 11. Früh und Nachmittags unregelmässig; — den 16. und 18. Früh etwas unregelmässig; — den 20. Früh etwas unregelmässig, Nachmittags merkwürdiger Gang; — den 21. Früh und Nachmittags etwas unregelmässig.</p> | | | | | |
| <p>1 8^h 40' 30'' 517'98 1^h 30' 0'' 510'04 7'90 2 33 0 18'26 30 0 507'34 10'92 3 31 30 18'90 30 0 12'18 6'72 4 43 30 17'68 30 0 17'53 0'15 5 30 0 17'86 31 30 18'26 —0'40 6 30 0 19'91 30 0 15'02 4'89 7 30 0 17'79 31 30 18'66 —0'87 8 30 0 18'16 30 0 16'71 1'45 9 36 0 16'82 45 0 10'31 6'51 10 42 0 16'77 36 0 15'58 1'19</p> | | | | | | | | | | | |

Variationen der Declination der Magnethadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|---------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|---------|-------------|
| Mittel aus den Summen der Maxima und Minima = 516·690. Grösste Declination den 20. mit 500·91 } grösste monatl. Oscillation Kleinste " " 28. " 528·50 } 27·59 = 11' 35" 27. Grösste tägliche Oscillation den 28. = 24·20 = 10' 9" 84. Kleinste " " " 4. = 5·30 = 2' 13" 56. | | | | | | 22 8 ^h 39' 0" 538·02 1 ^h 33' 0" 505·91 32·11 23 30 0 35·87 45 0 04·07 31·80 24 33 0 34·32 33 0 00·94 33·38 25 45 0 31·45 54 0 00·10 31·35 26 33 0 35·40 36 0 497·30 38·10 27 33 0 37·43 37 30 503 32 34·11 28 31 30 36·60 30 0 00·12 36·48 29 30 0 34·07 30 0 04·12 29·95 30 34 30 35·07 30 0 07·47 27·60 Mittel 8 36 20 535·012 1 38 6 504·157 30·888 = 12' 58" 38 | | | | | |
| Im März 1845. | | | | | | Bemerkungen. Den 14. Früh unregelmässig, Nachmittags merkwürdiger Gang; — den 16. Früh unregelmässig. Mittel aus den Summen der Maxima und Minima = 519·584. Grösste Declination den 26. mit 497·30 } grösste monatl. Oscillation Kleinste " " 3. " 541·80 } 44·50 = 18' 41" 40. Grösste tägliche Oscillation den 3. = 39·26 = 16' 29" 35. Kleinste " " " 17. = 23·62 = 9' 55" 22. | | | | | |
| 1 8 ^h 45' 0" 521·59 1 ^h 42' 0" 509·34 12·25 2 52 30 28·93 42 0 09·70 19·23 3 43 30 24·54 31 30 08·07 16·47 4 31 30 23·81 40 30 09·90 14·91 5 42 0 25·39 30 0 10·32 15·07 6 34 30 26·20 37 30 07·52 18·68 7 54 0 37·32 40 30 498·64 38·68 8 31 30 25·92 42 0 503·12 22·80 9 39 0 26·28 30 0 496·43 29·85 10 45 0 25·21 30 0 501·11 24·10 11 33 0 25·11 30 0 06·79 18·32 12 30 0 26·86 33 0 07·78 19·08 13 37 30 27·52 39 0 499·34 28·18 14 31 30 28·42 34 30 501·68 26·74 15 30 0 27·80 46 30 499·72 28·08 16 40 30 27·62 30 0 505·67 21·95 17 30 0 32·43 42 0 10·81 21·62 18 37 30 33·30 42 0 12·18 21·12 19 30 0 32·17 30 0 13·19 18·98 20 43 30 31·50 30 0 00·55 30·95 21 42 0 34·19 42 0 11·48 22·71 22 39 0 29·69 37 30 09·58 20·11 23 42 0 36·56 48 0 00·01 36·55 24 33 0 31·72 48 0 498·26 33·46 25 37 30 28·22 36 0 506·20 22·02 26 30 0 32·03 46 30 05·21 26·82 27 31 30 33·43 51 0 06·07 27·36 28 42 0 33·28 45 0 07·60 26·28 29 33 0 31·48 42 0 08·26 23·22 30 46 30 34·09 40 30 10·91 23·18 31 30 0 35·21 31 30 11·75 23·46 Mittel 8 37 42 529·607 1 38 31 506·116 23·623 = 9' 55" 30 | | | | | | Im Mai 1845. | | | | | |
| Bemerkungen. Den 1., 3., 6. und 13. Früh etwas unregelmässig; — den 7. Früh ganz unregelmässig; — den 23. Früh unregelmässig. Mittel aus den Summen der Maxima und Minima = 517·861. Grösste Declination den 9. mit 496·43 } grösste monatl. Oscillation Kleinste " " 7. " 537·32 } 40·89 = 17' 10" 43. Grösste tägliche Oscillation den 7. = 38·68 = 16' 14" 7. Kleinste " " " 1. = 12·25 = 5' 8" 6. | | | | | | 1 8 ^h 31' 30" 532·98 1 ^h 30' 0" 512·24 20·74 2 40 30 35·77 30 0 16·45 19·32 3 31 30 33·79 30 0 08·70 25·09 4 30 0 32·86 30 0 05·93 26·93 5 39 0 33·40 31 30 11·71 21·69 6 30 0 34·80 30 0 08·17 26·33 7 37 30 35·24 31 30 05·02 30·22 8 30 0 34·90 30 0 05·28 29·62 9 30 0 34·95 33 0 08·12 26·83 10 30 0 34·12 30 0 06·62 27·50 11 31 30 33·49 42 0 07·42 26·07 12 30 0 33·07 31 30 04·02 29·07 13 33 0 34·97 45 0 00·27 34·70 14 31 30 35·92 37 30 07·76 25·16 15 30 0 35·71 30 0 01·34 34·37 16 31 30 35·81 34 30 498·38 37·43 17 30 0 32·02 30 0 512·07 19·95 18 45 0 31·90 30 0 06·75 25·15 19 30 0 32·40 30 0 05·02 27·38 20 31 30 38·16 34 30 03·38 34·58 21 30 0 34·06 30 0 09·82 24·23 22 43 30 40·77 45 0 07·56 33·21 23 30 0 33·45 30 0 09·66 23·79 24 30 0 38·22 30 0 03·72 34·50 25 31 30 32·81 30 0 12·27 20·54 26 31 30 35·87 37 30 15·93 19·94 27 46 30 32·64 30 0 07·77 24·87 28 33 0 33·90 30 0 11·21 22·69 29 30 0 31·55 33 0 07·58 23·97 30 37 30 38·05 52 30 10·07 27·98 31 0 0 38·47 50 0 498·02 40·45 Mittel 8 32 10 534·702 1 33 50 507·369 27·332 = 11' 28" 77 | | | | | |
| Im April 1845. | | | | | | Bemerkungen. Den 1. und 19. Früh plötzlich senkrechte Schwingungen und unregelmässig; — den 2. Früh unregelmässig, Nachmittags senkrechte Schwingungen; — den 8. Früh plötzlich etwas senkrechte Schwingungen; — den 17. und 23. Früh plötzlich senkrechte Schwingungen; — den 18. Früh unregelmässig; — den 29. Früh etwas unregelmässig. Mittel aus den Summen der Maxima und Minima = 521·035. Grösste Declination den 31. mit 498·02 } grösste monatl. Oscillation Kleinste " " 22. " 540·77 } 42·75 = 17' 57" 29. Grösste tägliche Oscillation den 31. = 40·45 = 16' 59" 33. Kleinste " " " 2. = 19·32 = 8' 6" 86. | | | | | |
| 1 8 ^h 40' 30" 536·50 1 ^h 42' 0" 510·26 26·24 2 31 30 39·32 49 30 06·32 33·00 3 30 0 41·80 36 0 02·54 39·26 4 49 30 37·07 43 30 06·84 30·23 5 39 0 36·55 36 0 00·94 35·61 6 45 0 30·30 39 0 03·89 27·41 7 36 0 32·07 42 0 06·09 25·98 8 43 30 36·61 33 0 05·69 30·92 9 30 0 34·88 43 30 04·58 30·30 10 46 30 33·80 37 30 06·29 26·51 11 31 30 39·90 30 0 03·12 36·78 12 33 0 37·82 37 30 04·21 33·61 13 31 30 34·05 45 0 09·02 25·03 14 39 0 34·49 57 0 497·64 36·85 15 39 0 31·51 33 0 506·77 25·74 16 34 30 29·07 30 0 02·36 26·71 17 43 30 28·70 31 30 05·08 23·62 18 39 0 28·88 46 30 05·01 23·87 19 30 0 34·08 31 30 06·31 27·77 20 37 30 37·21 30 0 03·16 34·05 21 31 30 37·52 40 30 05·25 32·27 | | | | | | Im Juni 1845. | | | | | |
| 1 8 ^h 37' 30" 534·10 1 ^h 39' 0" 502·21 24·89 2 39 0 38·74 30 0 15·32 23·42 3 37 30 35·79 30 0 12·02 23·57 4 31 30 42·68 39 0 03·66 39·02 5 31 30 37·67 30 0 11·24 26·43 6 37 30 40·41 31 30 11·45 28·96 | | | | | | | | | | | |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|------------------------|---------|------------------------|---------|-----------------|
| 7 | 8 ^h 31' 30" | 537.28 | 1 ^h 37' 30" | 506.19 | 31.09 |
| 8 | 30 0 | 40.28 | 30 0 | 10.58 | 29.70 |
| 9 | 31 30 | 39.53 | 49 30 | 09.17 | 30.36 |
| 10 | 30 0 | 43.00 | 51 0 | 11.99 | 31.01 |
| 11 | 30 0 | 34.52 | 49 30 | 15.06 | 19.46 |
| 12 | 30 0 | 38.20 | 30 0 | 08.23 | 29.97 |
| 13 | 30 0 | 43.24 | 51 0 | 14.07 | 29.17 |
| 14 | 39 0 | 41.83 | 30 0 | 16.08 | 25.75 |
| 15 | 42 0 | 38.62 | 39 0 | 12.97 | 25.65 |
| 16 | 42 0 | 39.29 | 30 0 | 15.67 | 23.62 |
| 17 | 33 0 | 31.47 | 45 0 | 18.10 | 13.37 |
| 18 | 31 30 | 40.97 | 30 0 | 10.72 | 30.25 |
| 19 | 37 30 | 38.92 | 30 0 | 08.96 | 29.96 |
| 20 | 36 0 | 35.80 | 43 30 | 14.15 | 21.65 |
| 21 | 30 0 | 37.54 | 34 30 | 09.42 | 28.12 |
| 22 | 45 0 | 36.25 | 34 30 | 09.87 | 26.38 |
| 23 | 33 0 | 38.19 | 36 0 | 09.61 | 28.58 |
| 24 | 40 30 | 12.51 | 45 0 | 16.21 | -3.70 |
| 25 | 31 30 | 37.04 | 39 0 | 13.25 | 23.79 |
| 26 | 33 0 | 41.98 | 30 0 | 11.12 | 30.86 |
| 27 | 36 0 | 43.13 | 30 0 | 13.23 | 29.90 |
| 28 | 30 0 | 34.39 | 30 0 | 12.45 | 21.94 |
| 29 | 30 0 | 34.33 | 46 30 | 12.45 | 27.88 |
| 30 | 33 0 | 32.91 | 42 0 | 13.65 | 19.26 |
| Mittel | 8 34 21 | 537.354 | 1 37 6 | 511.87 | 25.477=10'42"02 |

Bemerkungen. Den 7. und 26. Früh etwas senkrechte Schwingungen; — den 8., 9., 11. und 12. Früh plötzlich senkrechte Schwingungen; — den 17., 18. und 19. Früh senkrechte Schwingungen, etwas unregelmässig; — den 20. Früh etwas unregelmässig; — den 23. Früh unregelmässig; — den 24. Früh etwas unregelmässig, merkwürdiger Stand.
 Mittel aus den Summen der Maxima und Minima = 524.612.
 Grösste Declination den 4. mit 503.66) grösste monatl. Oscillation
 Kleinste " " 13. " 543.24) 39.58 = 16'37"42.
 Grösste tägliche Oscillation den 4. = 39.02 = 16' 23"30.
 Kleinste " " 24. = -3.70 = -1' 33"24.

Im Juli 1845.

| | | | | | |
|--------|------------------------|---------|------------------------|---------|----------------|
| 1 | 8 ^h 31' 30" | 534.75 | 1 ^h 34' 30" | 519.38 | 15.37 |
| 2 | 45 0 | 3.78 | 51 0 | 23.95 | 11.83 |
| 3 | 42 0 | 34.49 | 40 30 | 14.95 | 19.56 |
| 4 | 34 0 | 40.92 | 31 0 | 17.60 | 23.32 |
| 5 | 37 0 | 34.42 | 35 30 | 11.47 | 22.95 |
| 6 | 34 0 | 32.03 | 46 0 | 15.65 | 16.38 |
| 7 | 32 30 | 42.51 | 37 0 | 12.61 | 29.90 |
| 8 | 31 0 | 37.62 | 46 0 | 12.22 | 25.40 |
| 9 | 34 0 | 31.47 | 41 30 | 13.15 | 18.32 |
| 10 | 41 30 | 42.31 | 50 30 | 13.66 | 28.65 |
| 11 | 31 0 | 40.05 | 53 30 | 07.63 | 32.42 |
| 12 | 46 0 | 36.08 | 46 0 | 14.58 | 21.50 |
| 13 | 34 0 | 32.93 | 46 0 | 16.88 | 16.05 |
| 14 | 31 0 | 39.11 | 37 0 | 13.74 | 25.37 |
| 15 | 32 30 | 37.50 | 32 30 | 14.90 | 22.60 |
| 16 | 31 0 | 34.68 | 37 0 | 16.23 | 18.45 |
| 17 | 31 0 | 35.58 | 32 30 | 07.55 | 28.03 |
| 18 | 38 30 | 32.20 | 43 0 | 06.48 | 25.72 |
| 19 | 38 30 | 39.16 | 43 0 | 11.04 | 28.12 |
| 20 | 31 0 | 34.65 | 47 30 | 08.60 | 26.05 |
| 21 | 34 0 | 31.98 | 47 30 | 04.24 | 27.74 |
| 22 | 32 30 | 36.43 | 53 30 | 07.22 | 29.21 |
| 23 | 35 30 | 40.11 | 49 0 | 06.31 | 33.80 |
| 24 | 44 30 | 39.06 | 41 30 | 16.37 | 22.69 |
| 25 | 34 0 | 20.77 | 31 0 | 12.00 | 8.77 |
| 26 | 47 30 | 34.68 | 44 30 | 13.46 | 21.22 |
| 27 | 31 0 | 38.80 | 32 30 | 16.90 | 21.90 |
| 28 | 31 0 | 37.45 | 31 0 | 16.87 | 20.58 |
| 29 | 41 30 | 37.51 | 31 0 | 15.50 | 22.01 |
| 30 | 31 30 | 37.42 | 38 30 | 14.80 | 22.62 |
| 31 | 35 30 | 35.52 | 34 0 | 15.91 | 19.61 |
| Mittel | 8 35 40 | 536.064 | 1 40 44 | 513.285 | 22.739=9'33"02 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|-----------------------|---------|-----------------------|---------|----------------|
| 1 | 8 ^h 31' 0" | 539.50 | 1 ^h 46' 0" | 501.02 | 38.48 |
| 2 | 59 0 | 25.26 | 41 30 | 07.43 | 17.83 |
| 3 | 49 0 | 06.68 | 37 0 | 15.32 | -8.65 |
| 4 | 37 0 | 30.16 | 31 0 | 08.60 | 21.56 |
| 5 | 34 0 | 36.18 | 31 0 | 14.68 | 21.50 |
| 6 | 43 0 | 36.86 | 35 30 | 08.22 | 28.64 |
| 7 | 37 0 | 28.44 | 46 0 | 08.17 | 20.27 |
| 8 | 31 0 | 34.97 | 37 0 | 00.82 | 34.15 |
| 9 | 32 30 | 38.80 | 34 0 | 21.74 | 17.06 |
| 10 | 32 30 | 49.59 | 35 30 | 14.37 | 35.22 |
| 11 | 31 0 | 51.23 | 43 0 | 21.85 | 29.38 |
| 12 | 34 0 | 54.27 | 43 0 | 25.59 | 28.68 |
| 13 | 31 0 | 48.13 | 40 0 | 25.34 | 22.79 |
| 14 | 35 30 | 47.34 | 32 30 | 25.12 | 22.22 |
| 15 | 31 0 | 48.28 | 31 0 | 19.66 | 28.62 |
| 16 | 31 0 | 47.10 | 41 30 | 22.09 | 25.01 |
| 17 | 34 0 | 42.50 | 34 0 | 21.89 | 20.61 |
| 18 | 31 0 | 34.11 | 35 30 | 18.85 | 15.53 |
| 19 | 32 30 | 42.90 | 43 0 | 18.02 | 24.88 |
| 20 | 34 0 | 45.95 | 31 0 | 21.25 | 24.80 |
| 21 | 31 0 | 47.09 | 31 0 | 18.50 | 28.59 |
| 22 | 34 0 | 46.98 | 43 0 | 19.08 | 27.90 |
| 23 | 31 0 | 42.92 | 35 30 | 16.89 | 26.03 |
| 24 | 34 0 | 39.08 | 31 0 | 27.64 | 11.44 |
| 25 | 31 0 | 44.28 | 46 0 | 22.27 | 22.01 |
| 26 | 34 0 | 53.28 | 52 0 | 15.47 | 37.81 |
| 27 | 31 0 | 45.39 | 35 30 | 24.29 | 21.10 |
| 28 | 31 0 | 49.59 | 47 30 | 27.35 | 22.24 |
| 29 | 34 0 | 41.25 | 34 0 | 13.19 | 28.06 |
| 30 | 10 0 | 33.74 | 10 0 | 18.99 | 14.75 |
| 31 | 35 30 | 41.03 | 34 0 | 23.58 | 17.45 |
| Mittel | 8 33 47 | 541.061 | 1 37 2 | 517.645 | 23.439=9'50"65 |

Bemerkungen. Den 10. und 30. Früh etwas unregelmässig; — den 13. Früh unregelmässig; — den 19. Früh etwas senkrechte Schwingungen.
 Mittel aus den Summen der Maxima und Minima = 524.674.
 Grösste Declination den 21. mit 504.24) grösste monatl. Oscillation
 Kleinste " " 7. " 542.51) 38.27 = 16' 4"10.
 Grösste tägliche Oscillation den 23. = 33.80 = 14' 11"76.
 Kleinste " " 25. = 8.77 = 3' 41"00.

Im August 1845.

| | | | | | |
|--------|-----------------------|---------|-----------------------|---------|----------------|
| 1 | 8 ^h 31' 0" | 539.50 | 1 ^h 46' 0" | 501.02 | 38.48 |
| 2 | 59 0 | 25.26 | 41 30 | 07.43 | 17.83 |
| 3 | 49 0 | 06.68 | 37 0 | 15.32 | -8.65 |
| 4 | 37 0 | 30.16 | 31 0 | 08.60 | 21.56 |
| 5 | 34 0 | 36.18 | 31 0 | 14.68 | 21.50 |
| 6 | 43 0 | 36.86 | 35 30 | 08.22 | 28.64 |
| 7 | 37 0 | 28.44 | 46 0 | 08.17 | 20.27 |
| 8 | 31 0 | 34.97 | 37 0 | 00.82 | 34.15 |
| 9 | 32 30 | 38.80 | 34 0 | 21.74 | 17.06 |
| 10 | 32 30 | 49.59 | 35 30 | 14.37 | 35.22 |
| 11 | 31 0 | 51.23 | 43 0 | 21.85 | 29.38 |
| 12 | 34 0 | 54.27 | 43 0 | 25.59 | 28.68 |
| 13 | 31 0 | 48.13 | 40 0 | 25.34 | 22.79 |
| 14 | 35 30 | 47.34 | 32 30 | 25.12 | 22.22 |
| 15 | 31 0 | 48.28 | 31 0 | 19.66 | 28.62 |
| 16 | 31 0 | 47.10 | 41 30 | 22.09 | 25.01 |
| 17 | 34 0 | 42.50 | 34 0 | 21.89 | 20.61 |
| 18 | 31 0 | 34.11 | 35 30 | 18.85 | 15.53 |
| 19 | 32 30 | 42.90 | 43 0 | 18.02 | 24.88 |
| 20 | 34 0 | 45.95 | 31 0 | 21.25 | 24.80 |
| 21 | 31 0 | 47.09 | 31 0 | 18.50 | 28.59 |
| 22 | 34 0 | 46.98 | 43 0 | 19.08 | 27.90 |
| 23 | 31 0 | 42.92 | 35 30 | 16.89 | 26.03 |
| 24 | 34 0 | 39.08 | 31 0 | 27.64 | 11.44 |
| 25 | 31 0 | 44.28 | 46 0 | 22.27 | 22.01 |
| 26 | 34 0 | 53.28 | 52 0 | 15.47 | 37.81 |
| 27 | 31 0 | 45.39 | 35 30 | 24.29 | 21.10 |
| 28 | 31 0 | 49.59 | 47 30 | 27.35 | 22.24 |
| 29 | 34 0 | 41.25 | 34 0 | 13.19 | 28.06 |
| 30 | 10 0 | 33.74 | 10 0 | 18.99 | 14.75 |
| 31 | 35 30 | 41.03 | 34 0 | 23.58 | 17.45 |
| Mittel | 8 33 47 | 541.061 | 1 37 2 | 517.645 | 23.439=9'50"65 |

Bemerkungen. Den 3. Früh sehr merkwürdiger hoher Stand; — den 5. und 6. Früh plötzlich senkrechte Schwingungen; — den 12. und 29. Früh etwas senkrechte Schwingungen; — den 15. und 16. Früh unregelmässig; — den 23., 25. und 31. Früh etwas unregelmässig.
 Mittel aus den Summen der Maxima und Minima = 529.353.
 Grösste Declination den 8. mit 500.82) grösste monatl. Oscillation
 Kleinste " " 12. " 554.27) 53.45 = 20' 46"94.
 Grösste tägliche Oscillation den 1. = 38.48 = 14' 39"69.
 Kleinste " " 3. = -8.65 = -3' 37"98.

Im September 1845.

| | | | | | |
|----|-----------------------|--------|------------------------|--------|-------|
| 1 | 8 ^h 31' 0" | 543.04 | 1 ^h 35' 30" | 521.34 | 21.70 |
| 2 | 43 0 | 37.71 | 47 30 | 14.80 | 23.91 |
| 3 | 52 0 | 42.74 | 31 0 | 15.87 | 26.87 |
| 4 | 43 0 | 35.57 | 31 0 | 27.01 | 8.56 |
| 5 | 47 30 | 42.76 | 40 0 | 23.99 | 18.77 |
| 6 | 43 0 | 45.92 | 31 0 | 21.95 | 23.97 |
| 7 | 32 30 | 48.12 | 40 0 | 14.51 | 33.61 |
| 8 | 37 0 | 47.15 | 50 30 | 22.24 | 24.91 |
| 9 | 44 30 | 44.21 | 35 30 | 24.28 | 19.93 |
| 10 | 40 0 | 45.16 | 32 30 | 26.21 | 18.95 |
| 11 | 31 0 | 44.37 | 31 0 | 18.54 | 25.84 |
| 12 | 46 0 | 37.87 | 31 0 | 21.37 | 16.50 |
| 13 | 43 0 | 40.60 | 38 30 | 18.81 | 21.79 |
| 14 | 43 0 | 45.00 | 31 0 | 23.42 | 21.58 |
| 15 | 31 0 | 41.42 | 31 0 | 27.95 | 13.47 |

Variationen der Declination der Magnetnadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|--------------------|-------|-------|-------|-------|-------|
| 16 | 8 ^h 32' 30" | 540.35 | 1 ^h 35' 30" | 522.32 | 18.03 | Im November 1845. | | | | | | | | | | |
| 17 | 31 30 | 43.45 | 34 0 | 13.65 | 30.80 | 1 | 8 ^h 46' 0" | 543.01 | 1 ^h 37' 0" | 530.64 | 12.37 | | | | | |
| 18 | 31 0 | 32.03 | 38 30 | 14.90 | 17.13 | 2 | 46 0 | 41.60 | 31 0 | 23.60 | 18.00 | | | | | |
| 19 | 32 30 | 32.42 | 47 30 | 18.59 | 13.83 | 3 | 44 30 | 39.46 | 32 30 | 26.48 | 12.98 | | | | | |
| 20 | 32 30 | 38.90 | 31 0 | 19.06 | 19.84 | 4 | 31 0 | 44.52 | 32 30 | 27.47 | 17.05 | | | | | |
| 21 | 32 30 | 40.80 | 34 0 | 16.01 | 24.79 | 5 | 47 30 | 43.44 | 34 0 | 24.66 | 18.78 | | | | | |
| 22 | 31 0 | 39.39 | 31 0 | 18.08 | 21.31 | 6 | 40 0 | 43.89 | 31 0 | 25.33 | 18.56 | | | | | |
| 23 | 44 30 | 42.28 | 34 0 | 18.66 | 23.62 | 7 | 53 0 | 45.78 | 32 30 | 19.77 | 26.01 | | | | | |
| 24 | 34 0 | 41.00 | 44 30 | 16.82 | 24.18 | 8 | 46 0 | 46.35 | 37 0 | 27.69 | 18.66 | | | | | |
| 25 | 31 0 | 34.30 | 49 0 | 05.29 | 29.01 | 9 | 32 30 | 45.07 | 31 0 | 29.43 | 15.64 | | | | | |
| 26 | 46 0 | 37.85 | 46 0 | 21.42 | 16.43 | 10 | 31 0 | 39.65 | 46 0 | 27.95 | 11.68 | | | | | |
| 27 | 41 30 | 37.75 | 31 0 | 18.02 | 19.73 | 11 | 43 0 | 39.15 | 35 30 | 25.38 | 13.77 | | | | | |
| 28 | 38 30 | 31.70 | 32 30 | 16.40 | 15.30 | 12 | 38 30 | 39.10 | 32 30 | 29.45 | 9.65 | | | | | |
| 29 | 34 0 | 35.68 | 31 0 | 21.58 | 14.10 | 13 | 32 30 | 37.83 | 31 0 | 26.45 | 11.38 | | | | | |
| 30 | 32 30 | 35.25 | 46 0 | 23.02 | 12.23 | 14 | 40 0 | 48.52 | 31 0 | 36.666 | 11.86 | | | | | |
| Mittel | 8 37 46 | 540.160 | 1 36 40 | 519.570 | 20.690 = 8' 41" 93 | 15 | 31 0 | 48.75 | 31 0 | 41.23 | 7.52 | | | | | |
| <p>Bemerkungen. Den 1. Früh unruhig, unregelmässig; — den 2., 3., 5., 6., 7., 13., 19., 21., 25., 27. und 30. Früh etwas unregelmässig; — den 16. Nachmittags unregelmässig. Mittel aus den Summen der Maxima und Minima = 529.715. Grösste Declination den 25. mit 505.29) grösste monatl. Oscillation Kleinste " 7. " 548.12) 42.83 = 17' 59" 32. Grösste tägliche Oscillation den 7. = 33.61 = 14' 6" 96. Kleinste " " 4. = 8.56 = 3' 35" 71.</p> | | | | | | <p>16</p> | | | | | | 31 0 | 49.58 | 34 30 | 38.35 | 11.23 |
| <p style="text-align: center;">Im October 1845.</p> | | | | | | <p>17</p> | | | | | | 32 30 | 47.59 | 31 0 | 29.20 | 18.39 |
| 1 | 8 ^h 46' 0" | 535.25 | 1 ^h 35' 30" | 518.45 | 16.80 | 18 | 35 30 | 49.02 | 38 30 | 41.76 | 7.26 | | | | | |
| 2 | 37 0 | 41.35 | 32 30 | 19.26 | 22.09 | 19 | 34 0 | 47.90 | 31 0 | 31.91 | 15.99 | | | | | |
| 3 | 54 30 | 39.97 | 32 30 | 15.31 | 24.66 | 20 | 47 30 | 49.44 | 31 0 | 35.84 | 13.60 | | | | | |
| 4 | 41 30 | 40.43 | 31 0 | 18.86 | 21.57 | 21 | 31 0 | 49.13 | 41 30 | 41.55 | 7.58 | | | | | |
| 5 | 35 30 | 41.06 | 43 0 | 18.16 | 22.90 | 22 | 46 30 | 47.44 | 31 0 | 40.68 | 6.76 | | | | | |
| 6 | 32 30 | 39.44 | 31 0 | 17.20 | 22.24 | 23 | 35 30 | 48.52 | 35 30 | 39.89 | 8.63 | | | | | |
| 7 | 32 30 | 40.98 | 38 30 | 17.92 | 23.06 | 24 | 34 0 | 47.58 | 35 30 | 39.54 | 8.04 | | | | | |
| 8 | 38 30 | 38.72 | 34 0 | 21.11 | 17.61 | 25 | 40 0 | 47.41 | 37 0 | 49.70 | 4.71 | | | | | |
| 9 | 31 0 | 40.84 | 37 0 | 19.95 | 20.89 | 26 | 34 0 | 48.59 | 31 0 | 29.68 | 18.91 | | | | | |
| 10 | 31 0 | 33.67 | 37 0 | 16.80 | 16.87 | 27 | 37 0 | 49.74 | 41 30 | 38.45 | 11.29 | | | | | |
| 11 | 35 30 | 37.39 | 38 30 | 20.31 | 17.08 | 28 | 47 30 | 45.85 | 46 0 | 44.84 | 1.01 | | | | | |
| 12 | 44 30 | 40.61 | 31 0 | 25.34 | 15.27 | 29 | 40 0 | 45.96 | 35 0 | 31.35 | 14.61 | | | | | |
| 13 | 31 0 | 37.71 | 32 30 | 22.54 | 15.17 | 30 | 35 30 | 42.46 | 31 0 | 22.57 | 19.89 | | | | | |
| 14 | 43 0 | 40.49 | 34 0 | 23.75 | 16.74 | Mittel | 8 37 47 | 545.444 | 1 34 | 532.350 | 13.060 = 5' 29" 11 | | | | | |
| 15 | 35 30 | 41.93 | 44 30 | 24.05 | 16.88 | <p>Bemerkungen. Den 1., 3., 4., 5., 7. und 22. etwas unregelmässig; — den 6. Nachmittags etwas unregelmässig; — den 8. Nachmittags unregelmässig; — den 9., 10., 20. und 30. Früh unregelmässig; — den 11. Früh und Nachmittags unregelmässig; — den 28. zwischen 8^h 40^m und 1^h 40^m — 23^h 18.</p> | | | | | | | | | | |
| 16 | 46 0 | 43.90 | 35 30 | 19.06 | 24.84 | <p>Mittel aus den Summen der Maxima und Minima = 538.897. Grösste Declination den 7. mit 519.77) grösste monatl. Oscillation Kleinste " 27. " 549.74) 29.67 = 12' 27" 68.</p> | | | | | | | | | | |
| 17 | 40 0 | 36.77 | 31 0 | 15.99 | 20.78 | <p>Grösste tägliche Oscillation den 7. = 26.01 = 10' 55" 45. Kleinste " " 28. = 1.01 = 25" 45.</p> | | | | | | | | | | |
| 18 | 31 0 | 42.76 | 31 0 | 21.86 | 20.90 | Im December 1845. | | | | | | | | | | |
| 19 | 32 30 | 38.45 | 32 30 | 22.06 | 16.39 | 1 | 8 ^h 38' 30" | 544.24 | 1 ^h 44' 30" | 535.23 | 9.01 | | | | | |
| 20 | 37 0 | 38.44 | 31 0 | 20.65 | 17.79 | 2 | 38 30 | 41.95 | 49 0 | 29.82 | 12.13 | | | | | |
| 21 | 53 30 | 32.66 | 53 30 | 15.32 | 17.34 | 3 | 38 30 | 38.89 | 31 0 | 30.46 | 8.43 | | | | | |
| 22 | 32 30 | 39.60 | 34 0 | 21.63 | 17.97 | 4 | 38 30 | 40.05 | 32 30 | 36.02 | 4.03 | | | | | |
| 23 | 43 0 | 43.00 | 35 30 | 23.27 | 19.73 | 5 | 35 30 | 39.38 | 31 0 | 22.35 | 17.03 | | | | | |
| 24 | 38 30 | 40.10 | 31 0 | 21.91 | 18.19 | 6 | 32 30 | 42.12 | 31 0 | 27.59 | 14.53 | | | | | |
| 25 | 38 30 | 35.01 | 34 0 | 22.05 | 12.96 | 7 | 47 30 | 42.53 | 32 30 | 34.23 | 8.30 | | | | | |
| 26 | 47 30 | 40.20 | 34 0 | 30.93 | 9.27 | 8 | 46 0 | 44.68 | 44 30 | 34.20 | 10.48 | | | | | |
| 27 | 47 30 | 43.92 | 31 0 | 27.73 | 16.19 | 9 | 49 0 | 44.78 | 37 0 | 35.99 | 8.79 | | | | | |
| 28 | 46 0 | 42.03 | 41 30 | 28.17 | 13.86 | 10 | 44 30 | 43.47 | 31 0 | 32.41 | 11.06 | | | | | |
| 29 | 31 0 | 46.05 | 47 30 | 28.32 | 17.73 | 11 | 32 30 | 43.49 | 32 30 | 34.30 | 9.19 | | | | | |
| 30 | 47 30 | 43.28 | 35 30 | 25.47 | 17.81 | 12 | 46 0 | 45.08 | 43 0 | 32.68 | 12.40 | | | | | |
| 31 | 32 30 | 45.76 | 37 0 | 28.93 | 16.83 | 13 | 37 0 | 43.35 | 42 30 | 19.19 | 24.16 | | | | | |
| Mittel | 8 39 10 | 540.057 | 1 35 44 | 521.689 | 18.336 = 7' 52" 27 | 14 | 43 0 | 43.67 | | | | | | | | |
| <p>Bemerkungen. Den 1., 2., 10., 20., 25. und 28. Früh etwas unregelmässig; — den 3. Nachmittags unruhig, unregelmässiger Gang; — den 7. und 31. Früh unregelmässig; — den 13. Früh und Nachmittags etwas unregelmässig; — den 26. Früh ganz unregelmässig. Mittel aus den Summen der Maxima und Minima = 530.873. Grösste Declination den 3. mit 515.31) grösste monatl. Oscillation Kleinste " 29. " 546.05) 30.74 = 12' 54" 65. Grösste tägliche Oscillation den 16. = 24.84 = 10' 25" 97. Kleinste " " 26. = 9.27 = 3' 53" 60.</p> | | | | | | 15 | 43 0 | 45.90 | 31 0 | 30.14 | 15.76 | | | | | |
| | | | | | | 16 | 43 0 | 44.50 | 41 30 | 37.69 | 6.81 | | | | | |
| | | | | | | 17 | 46 0 | 39.47 | 32 30 | 31.86 | 7.61 | | | | | |
| | | | | | | 18 | 41 30 | 44.39 | 46 0 | 31.77 | 12.62 | | | | | |
| | | | | | | 19 | 44 30 | 43.50 | 31 0 | 37.17 | 6.33 | | | | | |
| | | | | | | 20 | 38 30 | 44.57 | 31 0 | 34.62 | 8.95 | | | | | |
| | | | | | | 21 | 37 0 | 42.16 | 35 30 | 33.53 | 8.63 | | | | | |
| | | | | | | 22 | 38 30 | 41.75 | 31 0 | 35.63 | 6.12 | | | | | |
| | | | | | | 23 | 44 30 | 42.66 | 32 30 | 32.29 | 10.37 | | | | | |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|-----------------------|---------|-----------------------|---------|------------------|
| 24 | 8 ^h 37' 0" | 541.63 | 1 ^h 34' 0" | 534.04 | 7.59 |
| 25 | 47 30 | 44.39 | 41 30 | 35.37 | 9.02 |
| 26 | 41 30 | 43.75 | 32 30 | 33.72 | 10.03 |
| 27 | 49 0 | 46.05 | 44 30 | 35.54 | 10.51 |
| 28 | 34 0 | 43.25 | 31 0 | 35.39 | 7.86 |
| 29 | 34 0 | 44.54 | 34 0 | 36.38 | 8.16 |
| 30 | 34 0 | 38.02 | 31 0 | 33.34 | 4.68 |
| 31 | 38 30 | 37.81 | 40 0 | 37.68 | 0.13 |
| Mittel | 8 40 38 | 542.763 | 1 36 5 | 533.021 | 9.690 = 4' 4" 19 |

Bemerkungen. Den 11. und 15. Früh unregelmässig; — den 13. Nachmittags etwas unregelmässig; — den 19. unregelmässig.

Mittel aus den Summen der Maxima und Minima = 537.892.
 Grösste Declination den 13. mit 519.19 } grösste monatl. Oscillation
 Kleinste " " 27. " 546.03 } 26.86 = 11' 16.87.
 Grösste tägliche Oscillation den 13. = 24.16 = 10' 7.83.
 Kleinste " " " 31. = 0.13 = 0' 3.28.

Im Jänner 1846.

| | | | | | |
|--------|-----------------------|---------|-----------------------|---------|-------------------|
| 1 | 8 ^h 34' 0" | 542.75 | 1 ^h 40' 0" | 537.52 | 5.23 |
| 2 | 47 30 | 41.89 | 35 30 | 33.87 | 8.02 |
| 3 | 41 30 | 43.74 | 31 0 | 32.76 | 10.98 |
| 4 | 41 30 | 44.96 | 44 30 | 39.04 | 5.92 |
| 5 | 38 30 | 45.98 | 34 0 | 38.14 | 7.84 |
| 6 | 35 30 | 43.36 | 38 30 | 36.47 | 6.89 |
| 7 | 38 30 | 45.45 | 34 0 | 29.36 | 16.09 |
| 8 | 38 30 | 44.40 | 32 30 | 40.24 | 4.16 |
| 9 | 47 30 | 42.40 | 46 0 | 36.12 | 5.98 |
| 10 | 52 0 | 45.04 | 50 30 | 37.24 | 7.80 |
| 11 | 44 30 | 43.83 | 40 0 | 37.01 | 6.82 |
| 12 | 41 30 | 43.46 | 32 30 | 31.23 | 12.23 |
| 13 | 35 30 | 41.44 | 47 30 | 23.43 | 18.01 |
| 14 | 38 30 | 44.76 | 46 0 | 38.94 | 5.82 |
| 15 | 44 30 | 42.57 | 31 0 | 36.77 | 5.80 |
| 16 | 40 0 | 42.42 | 44 30 | 26.79 | 15.63 |
| 17 | 47 30 | 34.87 | 34 0 | 39.78 | — 4.91 |
| 18 | 44 30 | 41.09 | 31 0 | 40.33 | 0.76 |
| 19 | 37 0 | 41.89 | 31 0 | 35.08 | 6.81 |
| 20 | 41 30 | 44.89 | 31 0 | 31.43 | 13.46 |
| 21 | 31 0 | 40.99 | 32 30 | 31.68 | 9.31 |
| 22 | 35 30 | 45.83 | 31 0 | 33.51 | 12.32 |
| 23 | 40 0 | 45.95 | 31 0 | 37.53 | 8.42 |
| 24 | 46 0 | 17.84 | 31 0 | 35.13 | — 17.29 |
| 25 | 34 0 | 47.12 | 31 0 | 33.26 | 13.86 |
| 26 | 31 0 | 45.40 | 35 30 | 38.61 | 6.79 |
| 27 | 46 0 | 46.52 | 37 0 | 33.55 | 12.97 |
| 28 | 37 0 | 46.30 | 31 0 | 30.05 | 16.25 |
| 29 | 38 30 | 46.40 | 31 0 | 37.56 | 8.84 |
| 30 | 38 30 | 48.30 | 31 0 | 39.25 | 9.05 |
| 31 | 37 0 | 45.00 | 31 0 | 37.09 | 7.91 |
| Mittel | 8 40 23 | 543.124 | 1 35 44 | 535.131 | 7.898 = 3' 21" 32 |

Bemerkungen. Den 4., 5., 6., 17., 28. und 29. Früh unregelmässig; — den 7. Früh ganz unregelmässig; — den 14. Früh etwas unregelmässig; — den 15. Früh und Nachmittags ganz unregelmässig; — den 16. Früh und Nachmittags unregelmässig; — den 18. zwischen 8^h 40^m und 1^h 40^m — 25^h 2; — den 19. Nachmittags unregelmässig; — den 24. Früh sehr merkwürdig, zwischen 8^h 40^m und 1^h 40^m 9' 45" 6; — den 30. Früh und Nachmittags unregelmässig.

Mittel aus den Summen der Maxima und Minima = 539.128.
 Grösste Declination den 24. mit 517.84 } grösste monatl. Oscillation
 Kleinste " " 30. " 548.30 } 30.46 = 12' 47.59.
 Grösste tägliche Oscillation den 13. = 18.01 = 7' 33.85.
 Kleinste " " " 18. = 0.76 = 19" 15.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|-------------------------|------------------------|---------|-----------------------|---------|-------------------|
| Im Februar 1846. | | | | | |
| 1 | 8 ^h 32' 30" | 544.74 | 1 ^h 43' 0" | 533.51 | 11.23 |
| 2 | 37 0 | 45.19 | 31 0 | 33.52 | 11.67 |
| 3 | 46 30 | 45.00 | 37 0 | 35.48 | 9.55 |
| 4 | 31 0 | 43.49 | 37 0 | 33.64 | 9.85 |
| 5 | 47 30 | 46.71 | 44 30 | 36.73 | 9.98 |
| 6 | 47 30 | 46.30 | 49 0 | 37.40 | 8.90 |
| 7 | 41 30 | 42.88 | 49 0 | 37.71 | 5.17 |
| 8 | 50 30 | 44.97 | 31 0 | 38.68 | 6.29 |
| 9 | 47 30 | 44.03 | 34 0 | 38.34 | 5.69 |
| 10 | 32 30 | 42.65 | 31 30 | 43.51 | — 0.86 |
| 11 | 31 0 | 45.49 | 32 30 | 39.83 | 5.66 |
| 12 | 47 30 | 42.03 | 53 30 | 34.26 | 7.77 |
| 13 | 47 30 | 46.34 | 35 30 | 36.89 | 9.45 |
| 14 | 35 30 | 43.98 | 43 0 | 30.23 | 13.75 |
| 15 | 37 0 | 46.56 | 31 0 | 35.74 | 10.82 |
| 16 | 47 30 | 31.55 | 31 0 | 32.62 | — 1.07 |
| 17 | 34 0 | 47.20 | 38 30 | 36.47 | 10.73 |
| 18 | 32 30 | 45.46 | 50 30 | 35.91 | 9.55 |
| 19 | 32 30 | 47.76 | 40 0 | 37.29 | 10.47 |
| 20 | 32 30 | 46.21 | 37 0 | 38.38 | 7.83 |
| 21 | 32 30 | 44.11 | 43 0 | 37.00 | 7.11 |
| 22 | 37 0 | 46.28 | 31 0 | 40.46 | 5.82 |
| 23 | 31 0 | 48.17 | 40 0 | 38.28 | 9.89 |
| 24 | 37 0 | 46.39 | | | |
| 25 | 43 0 | 48.72 | 40 0 | 35.14 | 13.58 |
| 26 | 35 30 | 47.88 | 32 30 | 34.02 | 13.86 |
| 27 | 47 30 | 41.80 | 31 0 | 36.94 | 4.86 |
| 28 | 40 0 | 50.77 | 35 30 | 35.67 | 15.10 |
| Mittel | 8 39 6 | 545.095 | 1 38 37 | 537.171 | 8.617 = 3' 37" 15 |

Bemerkungen. Den 4., 15., 17. und 18. Früh etwas unregelmässig; — den 10. und 11. Früh unregelmässig; — den 22. Früh plötzlich etwas unruhig.

Mittel aus den Summen der Maxima und Minima = 541.205.
 Grösste Declination den 14. mit 530.23 } grösste monatl. Oscillation
 Kleinste " " 28. " 550.77 } 20.54 = 8' 37.61.
 Grösste tägliche Oscillation den 28. = 15.10 = 6' 20.52.
 Kleinste " " " 10. = 0.86 = 21" 67.

Im März 1846.

| | | | | | |
|----|-----------------------|--------|------------------------|--------|-------|
| 1 | 8 ^h 31' 0" | 548.67 | 1 ^h 44' 30" | 533.82 | 14.85 |
| 2 | 37 0 | 49.12 | 34 0 | 31.53 | 17.59 |
| 3 | 32 30 | 53.33 | 46 0 | 29.24 | 24.09 |
| 4 | 46 0 | 47.83 | 34 0 | 25.70 | 22.13 |
| 5 | 40 0 | 48.10 | 44 30 | 35.50 | 12.60 |
| 6 | 32 30 | 53.04 | 31 0 | 36.83 | 16.21 |
| 7 | 47 30 | 51.30 | 32 30 | 34.23 | 17.07 |
| 8 | 32 30 | 49.05 | 41 30 | 35.79 | 13.26 |
| 9 | 32 30 | 48.83 | 31 0 | 34.74 | 14.09 |
| 10 | 47 30 | 52.13 | 37 0 | 33.36 | 18.77 |
| 11 | 31 0 | 51.81 | 32 30 | 35.73 | 16.08 |
| 12 | 41 30 | 51.69 | 46 0 | 32.32 | 19.37 |
| 13 | 34 0 | 46.02 | 38 30 | 15.78 | 30.24 |
| 14 | 37 0 | 37.34 | 32 30 | 19.78 | 17.56 |
| 15 | 38 30 | 42.88 | 34 0 | 32.92 | 9.96 |
| 16 | 47 30 | 53.55 | 32 30 | 30.62 | 22.93 |
| 17 | 38 30 | 49.56 | 34 0 | 26.05 | 23.51 |
| 18 | 31 0 | 52.14 | 44 30 | 28.36 | 23.78 |
| 19 | 34 0 | 52.58 | 34 0 | 32.37 | 20.21 |
| 20 | 47 30 | 57.68 | 35 30 | 23.09 | 34.59 |
| 21 | 40 0 | 60.83 | 37 0 | 33.18 | 27.35 |
| 22 | 46 0 | 57.65 | 32 30 | 26.88 | 30.77 |
| 23 | 44 30 | 38.38 | 44 30 | 29.69 | 28.69 |
| 24 | 46 0 | 57.68 | 31 0 | 27.70 | 29.98 |
| 25 | 37 0 | 62.94 | 31 0 | 25.74 | 37.20 |
| 26 | 41 30 | 53.36 | 31 0 | 27.28 | 26.08 |
| 27 | 31 0 | 59.12 | 43 0 | 30.70 | 28.42 |

Variationen der Declination der Magnetenadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|------------------------|---------|--------------------|
| 28 | 8 ^h 37' 0" | 558.77 | 1 ^h 31' 0" | 523.70 | 35.07 | 10 | 8 ^h 31' 0" | 559.32 | 1 ^h 37' 0" | 520.51 | 38.81 |
| 29 | 43 0 | 58.56 | 32 30 | 25.23 | 33.33 | 11 | 31 0 | 60.82 | 34 0 | 32.78 | 28.04 |
| 30 | 37 0 | 60.34 | 31 0 | 18.50 | 41.84 | 12 | 37 0 | 59.90 | 31 0 | 22.31 | 37.59 |
| 31 | 35 30 | 57.90 | 47 30 | 25.35 | 32.55 | 13 | 32 30 | 52.66 | 34 0 | 20.01 | 32.65 |
| Mittel | 8 38 39 | 552.974 | 1 36 31 | 529.091 | 23.876 = 10' 1" 67 | 14 | 43 0 | 60.34 | 43 0 | 30.25 | 30.09 |
| <p>Bemerkungen. Den 4. und 9. Früh etwas unregelmässig; — den 13. Nachmittags merkwürdiger Gang; — den 14. Früh und Nachmittags merkwürdiger Gang; — den 30. Nachmittags merkwürdiger Stand.</p> <p>Mittel aus den Summen der Maxima und Minima = 541.032.</p> <p>Grösste Declination den 13. mit 515.78 } grösste monatl. Oscillation</p> <p>Kleinste " " 25. " 562.94 } 47.16 = 19' 48" 43.</p> <p>Grösste tägliche Oscillation den 30. = 41.84 = 17' 34" 37.</p> <p>Kleinste " " 15. = 9.96 = 4' 11" 00.</p> | | | | | | 15 | 31 0 | 57.90 | 31 0 | 25.03 | 32.87 |
| <p>Im April 1846.</p> | | | | | | 16 | 31 0 | 59.97 | 44 30 | 31.32 | 28.65 |
| 1 | 8 ^h 32' 30" | 558.35 | 1 ^h 44' 30" | 522.59 | 35.76 | 17 | 31 0 | 59.90 | 35 30 | 27.25 | 32.65 |
| 2 | 35 30 | 55.59 | 37 0 | 27.04 | 28.55 | 18 | 32 30 | 61.74 | 32 30 | 31.90 | 29.84 |
| 3 | 37 0 | 49.92 | 34 0 | 27.96 | 21.96 | 19 | 37 0 | 54.85 | 32 30 | 27.54 | 27.31 |
| 4 | 31 0 | 60.08 | 35 30 | 24.22 | 35.86 | 20 | 38 30 | 67.06 | 43 0 | 38.94 | 28.12 |
| 5 | 38 30 | 57.88 | 32 30 | 31.28 | 26.60 | 21 | 31 0 | 59.89 | 35 30 | 31.05 | 28.84 |
| 6 | 38 30 | 55.80 | 47 30 | 18.60 | 36.90 | 22 | 32 30 | 63.15 | 38 30 | 21.30 | 41.85 |
| 7 | 32 30 | 57.38 | 47 30 | 32.69 | 24.69 | 23 | 43 0 | 61.04 | 31 0 | 26.50 | 34.54 |
| 8 | 31 30 | 55.47 | 31 30 | 28.90 | 26.57 | 24 | 31 0 | 63.41 | 40 0 | 26.59 | 36.82 |
| 9 | 46 0 | 60.33 | 34 0 | 23.77 | 36.56 | 25 | 31 0 | 58.54 | 31 0 | 23.29 | 35.25 |
| 10 | 35 30 | 60.10 | 31 0 | 30.47 | 29.63 | 26 | 34 0 | 59.19 | 35 30 | 25.03 | 34.16 |
| 11 | 37 0 | 54.39 | 31 0 | 23.29 | 31.10 | 27 | 31 0 | 62.29 | 31 0 | 29.05 | 33.24 |
| 12 | 35 30 | 58.65 | 31 0 | 29.78 | 28.87 | 28 | 32 30 | 62.60 | 34 0 | 32.96 | 29.64 |
| 13 | 46 0 | 60.63 | 44 30 | 20.89 | 39.74 | 29 | 40 0 | 63.22 | 34 0 | 32.85 | 30.37 |
| 14 | 35 30 | 57.71 | 34 0 | 15.49 | 42.22 | 30 | 20 0 | 76.92 | 30 0 | 38.17 | 38.75 |
| 15 | 47 30 | 59.14 | 37 0 | 20.09 | 38.45 | 31 | 35 30 | 69.92 | 31 0 | 46.14 | 23.78 |
| 16 | 38 30 | 49.18 | 44 30 | 22.93 | 26.25 | Mittel | 8 34 22 | 559.446 | 1 36 35 | 528.659 | 31.077 = 13' 3" 14 |
| 17 | 31 0 | 53.19 | 31 0 | 23.57 | 29.62 | <p>Bemerkungen. Den 1. Früh und Nachmittags unregelmässig; — den 21. Nachmittags unregelmässig; — den 25. Früh etwas unregelmässig.</p> <p>Mittel aus den Summen der Maxima und Minima = 545.054.</p> <p>Grösste Declination den 13. mit 520.01 } grösste monatl. Oscillation</p> <p>Kleinste " " 30. " 576.92 } 56.91 = 23' 54" 13.</p> <p>Grösste tägliche Oscillation den 22. = 41.85 = 17' 34" 62.</p> <p>Kleinste " " 6. = 20.88 = 8' 46" 18.</p> | | | | | |
| 18 | 31 0 | 58.45 | 31 0 | 27.46 | 30.99 | <p>Im Juni 1846.</p> | | | | | |
| 19 | 34 0 | 56.04 | 34 0 | 36.46 | 19.58 | 1 | 8 ^h 34' 0" | 566.31 | 1 ^h 47' 30" | 543.34 | 22.97 |
| 20 | 32 30 | 58.85 | 47 30 | 28.11 | 30.74 | 2 | 31 0 | 47.56 | 47 30 | 29.63 | 17.93 |
| 21 | 40 0 | 57.80 | 35 30 | 31.97 | 25.83 | 3 | 47 30 | 52.68 | 46 0 | 24.90 | 27.78 |
| 22 | 44 30 | 57.51 | 47 30 | 29.20 | 28.31 | 4 | 34 0 | 52.07 | 47 30 | 25.84 | 26.23 |
| 23 | 32 30 | 61.47 | 50 20 | 28.95 | 32.52 | 5 | 32 30 | 50.12 | 31 0 | 29.28 | 21.84 |
| 24 | 31 0 | 57.42 | 31 0 | 27.15 | 30.27 | 6 | 46 0 | 56.06 | 47 30 | 31.22 | 24.84 |
| 25 | 31 0 | 55.79 | 47 30 | 29.17 | 26.62 | 7 | 43 0 | 52.48 | 47 30 | 30.12 | 22.36 |
| 26 | 44 30 | 54.08 | 44 30 | 28.47 | 25.61 | 8 | 38 30 | 50.45 | 41 30 | 22.21 | 28.24 |
| 27 | 47 30 | 57.32 | 32 30 | 31.20 | 26.12 | 9 | 35 30 | 58.05 | 43 0 | 28.03 | 30.02 |
| 28 | 32 30 | 59.40 | 31 0 | 32.72 | 26.68 | 10 | 35 30 | 64.92 | 34 0 | 25.01 | 39.91 |
| 29 | 37 0 | 62.99 | 43 0 | 32.00 | 30.99 | 11 | 31 0 | 56.76 | 47 30 | 31.11 | 25.65 |
| 30 | 41 30 | 60.13 | 38 30 | 32.27 | 27.86 | 12 | 31 0 | 58.99 | 31 0 | 19.45 | 39.54 |
| Mittel | 8 36 58 | 557.391 | 1 37 59 | 526.976 | 30.048 = 12' 37" 21 | 13 | 32 30 | 59.72 | 34 0 | 00.90 | 58.82 |
| <p>Bemerkungen. Den 3. Früh plötzlich etwas senkrechte Schwingungen; — den 26. Früh unregelmässig; — den 27. und 29. Früh etwas unregelmässig.</p> <p>Mittel aus den Summen der Maxima und Minima = 542.184.</p> <p>Grösste Declination den 14. mit 515.49 } grösste monatl. Oscillation</p> <p>Kleinste " " 29. " 562.99 } 47.50 = 19' 57" 00.</p> <p>Grösste tägliche Oscillation den 14. = 42.22 = 17' 43" 94.</p> <p>Kleinste " " 19. = 19.58 = 8' 13" 42.</p> | | | | | | 14 | 46 0 | 56.15 | 38 30 | 22.97 | 33.18 |
| <p>Im Mai 1846.</p> | | | | | | 15 | 47 30 | 59.49 | 40 0 | 31.42 | 28.07 |
| 1 | 8 ^h 35' 30" | 557.88 | 1 ^h 35' 30" | 526.60 | 31.28 | 16 | 46 0 | 54.43 | 47 30 | 29.80 | 24.63 |
| 2 | 58 30 | 55.59 | 35 30 | 29.10 | 26.49 | 17 | 32 30 | 56.97 | 40 0 | 27.01 | 29.96 |
| 3 | 35 30 | 52.77 | 47 30 | 21.96 | 30.81 | 18 | 41 30 | 55.13 | 40 0 | 28.99 | 26.14 |
| 4 | 41 30 | 52.74 | 47 30 | 24.66 | 27.08 | 19 | 46 0 | 35.72 | 38 30 | 34.17 | 1.55 |
| 5 | 32 30 | 55.35 | 46 0 | 29.15 | 26.20 | 20 | 31 0 | 57.64 | 31 0 | 27.19 | 30.45 |
| 6 | 31 0 | 54.13 | 46 0 | 33.25 | 20.88 | 21 | 31 0 | 487.23 | 37 0 | 39.05 | 51.82 |
| 7 | 31 0 | 54.17 | 34 0 | 26.15 | 28.02 | 22 | 34 0 | 560.86 | 43 0 | 36.53 | 24.33 |
| 8 | 31 0 | 56.63 | 41 30 | 36.00 | 30.63 | 23 | 31 0 | 65.23 | 31 0 | 39.60 | 25.63 |
| 9 | 43 0 | 56.93 | 31 0 | 28.78 | 28.15 | 24 | 31 0 | 63.74 | 47 30 | 40.32 | 23.42 |
| <p>Im Juni 1846.</p> | | | | | | 25 | 31 0 | 66.09 | 43 0 | 38.61 | 27.48 |
| 1 | 8 ^h 35' 30" | 557.88 | 1 ^h 35' 30" | 526.60 | 31.28 | 26 | 31 0 | 57.22 | 41 30 | 32.21 | 25.01 |
| 2 | 58 30 | 55.59 | 35 30 | 29.10 | 26.49 | 27 | 38 30 | 53.79 | 38 30 | 31.22 | 22.57 |
| 3 | 35 30 | 52.77 | 47 30 | 21.96 | 30.81 | 28 | 32 30 | 59.72 | 37 0 | 29.69 | 30.03 |
| 4 | 41 30 | 52.74 | 47 30 | 24.66 | 27.08 | 29 | 44 30 | 48.80 | 31 0 | 36.80 | 12.00 |
| 5 | 32 30 | 55.35 | 46 0 | 29.15 | 26.20 | 30 | 35 30 | 01.01 | 47 30 | 36.22 | 24.79 |
| 6 | 31 0 | 54.13 | 46 0 | 33.25 | 20.88 | Mittel | 8 36 45 | 554.180 | 1 40 36 | 530.095 | 24.125 = 10' 8" 63 |
| 7 | 31 0 | 54.17 | 34 0 | 26.15 | 28.02 | <p>Bemerkungen. Den 13. Nachmittags merkwürdiger Stand; — den 19. Früh merkwürdiger Stand; — den 21. Früh ausserordentlich merkwürdig (in Smyrna starkes Erdbeben); — des 29. Früh etwas unregelmässig.</p> | | | | | |
| 8 | 31 0 | 56.63 | 41 30 | 36.00 | 30.63 | | | | | | |
| 9 | 43 0 | 56.93 | 31 0 | 28.78 | 28.15 | | | | | | |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|---------|---------------------|
| Mittel aus den Summen der Maxima und Minima = 542·138. Grösste Declination den 21. mit 487·23 } grösste monatl. Oscillation Kleinste " " 1. " 566·31 } 79·08 = 33' 12" 28. Grösste tägliche Oscillation den 13. = 58·82 = 29' 12" 28. Kleinste " " " 19. = 1·55 = 39' 06. | | | | | | 22 8 ^h 31' 0' 553·49 1 ^h 31' 0" 524·48 29·01 23 31 0 62·43 31 0 27·05 35·38 24 31 0 62·45 47 30 29·86 32·59 25 32 30 67·42 40 0 39·14 28·28 26 37 0 62·16 46 0 20·13 32·03 27 40 0 58·35 34 0 36·32 22·03 28 32 0 67·56 31 0 29·15 38·41 29 41 30 64·16 47 30 39·94 33·22 30 35 30 63·84 38 30 22·93 40·91 31 34 0 61·38 32 30 37·62 23·76 Mittel 8 38 46 559·885 1 37 21 532·585 26·292 = 11' 2" 56 | | | | | |
| Im Juli 1846. | | | | | | Bemerkungen. Den 7. Früh unregelmässiger Gang; — den 17. und 30. Nachmittags unregelmässig; — den 28. und 31. Früh unregelmässig. Mittel aus den Summen der Maxima und Minima = 546·926. Grösste Declination den 7. mit 522·09 } grösste monatl. Oscillation Kleinste " " 28. " 567·56 } 45·47 = 19' 5" 84. Grösste tägliche Oscillation den 30. = 40·91 = 17' 10" 98. Kleinste " " " 14. = 9·44 = 8' 10" 88. | | | | | |
| 1 | 8 ^h 31' 0" | 564·10 | 1 ^h 47' 30" | 536·76 | 27·34 | Im September 1846. | | | | | |
| 2 | 38 30 | 72·49 | 38 30 | 28·08 | 44·41 | 1 | 8 ^h 37' 0" | 567·07 | 1 ^h 41' 30" | 535·63 | 31·44 |
| 3 | 31 0 | 58·39 | 47 30 | 41·73 | 16·66 | 2 | 31 0 | 65·56 | 32 30 | 44·29 | 21·27 |
| 4 | 38 30 | 67·64 | 41 30 | 31·38 | 35·26 | 3 | 32 30 | 63·40 | 31 0 | 41·45 | 21·95 |
| 5 | 41 30 | 67·33 | 41 30 | 43·04 | 24·29 | 4 | 32 30 | 58·92 | 31 0 | 21·66 | 37·26 |
| 6 | 31 0 | 66·46 | 46 0 | 42·85 | 23·61 | 5 | 34 0 | 61·52 | 38 30 | 21·92 | 39·60 |
| 7 | 31 0 | 62·92 | 47 30 | 40·88 | 22·04 | 6 | 43 0 | 61·18 | 31 0 | 38·62 | 22·56 |
| 8 | 31 0 | 66·68 | 41 30 | 38·79 | 27·89 | 7 | 32 30 | 63·32 | 31 0 | 40·06 | 23·26 |
| 9 | 47 30 | 61·50 | 34 0 | 35·01 | 26·49 | 8 | 41 30 | 55·60 | 43 0 | 37·64 | 17·96 |
| 10 | 32 30 | 62·71 | 37 0 | 34·04 | 28·67 | 9 | 35 30 | 67·24 | 32 30 | 44·54 | 22·70 |
| 11 | 38 30 | 67·97 | 37 0 | 20·68 | 47·29 | 10 | 32 30 | 59·94 | 43 0 | 42·08 | 17·86 |
| 12 | 32 30 | 68·30 | 31 0 | 43·97 | 24·33 | 11 | 47 30 | 60·75 | 47 30 | 27·98 | 32·77 |
| 13 | 34 0 | 69·40 | 44 30 | 32·39 | 37·01 | 12 | 37 0 | 62·20 | 43 0 | 42·41 | 19·79 |
| 14 | 47 30 | 60·26 | 47 30 | 33·87 | 26·39 | 13 | 31 0 | 68·00 | 32 30 | 43·02 | 24·98 |
| 15 | 35 30 | 54·21 | 39 0 | 32·11 | 22·10 | 14 | 40 0 | 60·71 | 31 0 | 43·67 | 17·04 |
| 16 | 46 0 | 65·42 | 38 30 | 26·91 | 38·51 | 15 | 44 30 | 62·97 | 47 30 | 38·64 | 26·33 |
| 17 | 31 0 | 55·84 | 47 30 | 34·86 | 20·98 | 16 | 32 30 | 63·05 | 31 0 | 38·84 | 24·21 |
| 18 | 43 0 | 59·47 | 47 30 | 30·95 | 28·52 | 17 | 31 0 | 61·97 | 35 30 | 36·01 | 25·96 |
| 19 | 46 0 | 58·43 | 46 0 | 32·05 | 26·38 | 18 | 47 30 | 60·15 | 31 0 | 68·86 | 21·29 |
| 20 | 40 0 | 54·55 | 41 30 | 30·91 | 23·64 | 19 | 37 0 | 59·40 | 35 30 | 42·33 | 17·07 |
| 21 | 47 30 | 50·68 | 40 0 | 36·52 | 14·16 | 20 | 35 30 | 67·10 | 31 0 | 53·23 | 13·77 |
| 22 | 44 30 | 49·54 | 41 30 | 32·21 | 17·32 | 21 | 32 30 | 75·01 | 47 30 | 55·92 | 19·09 |
| 23 | 32 30 | 51·12 | 32 30 | 30·19 | 21·03 | 22 | 31 0 | 76·06 | 47 30 | 27·36 | 48·70 |
| 24 | 31 0 | 54·00 | 44 30 | 26·98 | 27·02 | 23 | 40 0 | 65·22 | 31 0 | 46·85 | 18·37 |
| 25 | 44 30 | 53·94 | 52 30 | 27·57 | 26·37 | 24 | 34 0 | 67·30 | 37 0 | 50·04 | 17·26 |
| 26 | 35 30 | 54·43 | 53 30 | 35·02 | 19·41 | 25 | 43 0 | 76·44 | 27 0 | 43·10 | 33·34 |
| 27 | 32 30 | 55·51 | 47 30 | 26·18 | 29·33 | 26 | 34 0 | 97·43 | 31 0 | 82·52 | 14·91 |
| 28 | 31 0 | 57·74 | 43 0 | 32·82 | 24·92 | 27 | | | | | |
| 29 | 40 0 | 71·78 | 38 30 | 28·11 | 43·67 | 28 | | | | | |
| 30 | 47 30 | 68·87 | 34 0 | 38·47 | 30·40 | 29 | | | | | |
| 31 | 44 30 | 82·39 | 34 0 | 57·76 | 24·63 | 30 | | | | | |
| Mittel | 8 38 1 | 561·744 | 1 41 47 | 534·293 | 27·116 = 11' 23" 32 | Mittel | 8 36 32 | 565·673 | 1 36 35 | 541·410 | 24·258 = 10' 11" 11 |
| Mittel aus den Summen der Maxima und Minima = 548 019. Grösste Declination den 11. mit 520·68 } grösste monatl. Oscillation Kleinste " " 31. " 582·39 } 61·71 = 25' 55" 09. Grösste tägliche Oscillation den 2. = 44·41 = 18' 39" 13. Kleinste " " " 21. = 14·16 = 5' 56" 83. | | | | | | Bemerkungen. Den 1., 2., 3., 7., 8. und 9. Früh unregelmässig; — den 5. Früh und Nachmittags unregelmässig; — den 27. brach ein Balken und die Beobachtungen mussten eingestellt werden. Nach Herstellung des Schadens begannen die Beobachtungen wieder; aber den 5. November wurde nach gewaltsamem Einbrüche in die Hütte Theodolit und Magnetometer gestohlen. Mittel aus den Summen der Maxima und Minima = 553·542. Grösste Declination den 4. mit 521·66 } grösste monatl. Oscillation Kleinste " " 26. " 597·43 } 75·77 (?) = 31' 49" 40. Grösste tägliche Oscillation den 22. = 48·70 = 20' 27" 24. Kleinste " " " 26. = 14·91 = 6' 16" 33. | | | | | |
| Im August 1846. | | | | | | Im August 1847. | | | | | |
| 1 | 8 ^h 41' 30" | 564·62 | | | | 1 | 8 ^h 43' 30" | 621·51 | 1 ^h 48' 0" | 594·56 | 26·95 |
| 2 | 38 30 | 64·72 | | | | 2 | 33 0 | 21·82 | 45 0 | 96·41 | 25·41 |
| 3 | 31 0 | 61·18 | 1 ^h 47' 30" | 539·04 | 22·14 | 3 | 33 0 | 19·95 | 49 30 | 90·00 | 29·95 |
| 4 | 47 30 | 61·72 | 37 0 | 37·16 | 24·56 | | | | | | |
| 5 | 34 0 | 64·14 | 43 0 | 34·13 | 30·31 | | | | | | |
| 6 | 34 0 | 60·82 | 47 30 | 25·10 | 35·72 | | | | | | |
| 7 | 47 30 | 60·08 | 43 0 | 22·09 | 39·79 | | | | | | |
| 8 | 46 0 | 44·46 | | | | | | | | | |
| 9 | 47 30 | 63·78 | 34 1 | 35·01 | 28 78 | | | | | | |
| 10 | 31 0 | 57·02 | 32 30 | 24·21 | 32·81 | | | | | | |
| 11 | 41 30 | 52·70 | 32 30 | 31·96 | 20·14 | | | | | | |
| 12 | 47 30 | 60·60 | 37 0 | 37·54 | 23·06 | | | | | | |
| 13 | 37 0 | 53·25 | 40 0 | 36·06 | 17·19 | | | | | | |
| 14 | 32 30 | 44·78 | 41 30 | 35·34 | 9·44 | | | | | | |
| 15 | 40 0 | 58·24 | 31 0 | 31·79 | 26·45 | | | | | | |
| 16 | 46 0 | 62·55 | 43 0 | 38·00 | 24·55 | | | | | | |
| 17 | 44 30 | 49·60 | 31 0 | 34·62 | 14·98 | | | | | | |
| 18 | 47 30 | 61·06 | 39 0 | 36·79 | 24·27 | | | | | | |
| 19 | 38 30 | 61·42 | 31 0 | 41·59 | 19·83 | | | | | | |
| 20 | 40 0 | 60·78 | 38 30 | 33·32 | 27·46 | | | | | | |
| 21 | 37 0 | 64·47 | 34 0 | 31·03 | 33·44 | | | | | | |

Variationen der Declination der Magnetnadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|------------------------|---------|------------------------|---------|---------------------|
| 4 | 8 ^h 49' 30" | 621.66 | 1 ^h 49' 30" | 593.52 | 28.14 |
| 5 | 33 0 | 20.41 | 49 30 | 95.65 | 24.76 |
| 6 | 40 30 | 27.21 | 49 30 | 91.21 | 36.60 |
| 7 | 43 30 | 22.32 | 36 0 | 85.01 | 37.31 |
| 8 | 40 30 | 21.12 | 49 30 | 93.82 | 27.30 |
| 9 | 39 0 | 18.59 | 40 30 | 91.85 | 26.74 |
| 10 | 33 0 | 21.15 | 34 30 | 91.07 | 30.08 |
| 11 | 34 30 | 20.46 | 40 30 | 96.74 | 23.72 |
| 12 | 33 0 | 21.34 | 43 30 | 94.74 | 26.60 |
| 13 | 36 0 | 25.00 | 42 0 | 90.35 | 34.65 |
| 14 | 46 30 | 25.27 | 49 30 | 86.41 | 38.86 |
| 15 | 33 0 | 18.30 | 39 0 | 82.86 | 35.44 |
| 16 | 33 0 | 20.84 | 40 30 | 95.10 | 25.64 |
| 17 | 33 0 | 17.25 | 48 0 | 84.34 | 32.91 |
| 18 | 39 0 | 24.90 | 33 0 | 85.95 | 38.95 |
| 19 | 34 30 | 30.02 | 33 0 | 88.70 | 31.32 |
| 20 | 33 0 | 20.04 | 43 30 | 83.57 | 36.47 |
| 21 | 33 0 | 23.74 | 49 30 | 95.52 | 28.22 |
| 22 | 33 0 | 04.16 | 34 30 | 97.01 | 7.15 |
| 23 | 39 0 | 20.00 | 34 30 | 93.67 | 26.33 |
| 24 | 34 30 | 22.20 | 33 0 | 89.60 | 33.60 |
| 25 | 48 0 | 13.00 | 33 0 | 95.17 | 17.83 |
| 26 | 34 30 | 12.49 | 43 30 | 87.52 | 24.97 |
| 27 | 43 30 | 21.44 | 33 0 | 88.39 | 33.05 |
| 28 | 35 0 | 25.66 | 45 0 | 86.65 | 39.01 |
| 29 | 33 0 | 21.20 | 33 0 | 89.66 | 31.54 |
| 30 | 33 0 | 21.42 | 33 0 | 86.29 | 35.13 |
| 31 | 46 30 | 27.52 | 36 30 | 90.76 | 36.76 |
| Mittel | 8 37 19 | 621.033 | 1 41 32 | 590.714 | 30.025 = 12' 26" 72 |

Bemerkungen. Den 5. Früh unregelmässig, Nachmittags ganz unregelmässig; — den 7., 27. und 31. Früh etwas unregelmässig; — den 18. Früh unregelmässig; — den 22. Früh sehr hoher Stand, unregelmässig, Nachmittags auch unregelmässig; — den 24. Früh ganz unregelmässig.
 Mittel aus den Summen der Maxima und Minima = 605.873.
 Grösste Declination den 15. mit 582.862) grösste monatl. Oscillation
 Kleinste " " 19. " 630.025) 47.163 = 19' 33" 18.
 Grösste tägliche Oscillation den 28. = 39.012 = 16' 10" 42.
 Kleinste " " 22. = 7.152 = 2' 57" 91.

Im September 1847.

| | | | | | |
|----|-----------------------|--------|-----------------------|--------|-------|
| 1 | 8 ^h 36' 0" | 625.87 | 1 ^h 43' 5" | 586.60 | 39.27 |
| 2 | 34 5 | 25.10 | 37 5 | 89.26 | 35.84 |
| 3 | 36 0 | 24.14 | 36 0 | 89.15 | 34.99 |
| 4 | 42 0 | 22.71 | 34 5 | 91.56 | 31.15 |
| 5 | 33 0 | 22.30 | 33 0 | 90.77 | 31.53 |
| 6 | 42 0 | 20.74 | 49 5 | 88.71 | 32.03 |
| 7 | 33 0 | 24.19 | 33 0 | 88.12 | 36.07 |
| 8 | 33 0 | 18.45 | 40 5 | 94.87 | 23.58 |
| 9 | 37 5 | 23.94 | 33 0 | 87.90 | 36.04 |
| 10 | 36 0 | 18.90 | 34 5 | 91.40 | 27.50 |
| 11 | 33 0 | 20.55 | 33 0 | 95.09 | 25.46 |
| 12 | 49 5 | 19.06 | 33 0 | 86.96 | 32.10 |
| 13 | 33 0 | 15.05 | 49 5 | 78.80 | 36.25 |
| 14 | 40 5 | 22.11 | 49 5 | 96.05 | 26.06 |
| 15 | 45 0 | 17.14 | 34 5 | 96.14 | 21.00 |
| 16 | 34 5 | 24.52 | 48 0 | 85.12 | 39.40 |
| 17 | 42 0 | 22.44 | 34 5 | 91.72 | 30.72 |
| 18 | 33 0 | 23.15 | 33 0 | 91.97 | 31.18 |
| 19 | 40 5 | 23.44 | 49 5 | 91.66 | 28.78 |
| 20 | 36 0 | 24.55 | 49 5 | 94.55 | 33.00 |
| 21 | 37 5 | 16.10 | 33 0 | 97.51 | 18.59 |
| 22 | 33 0 | 18.70 | 33 0 | 94.99 | 23.71 |
| 23 | 34 5 | 15.10 | 36 0 | 93.69 | 21.41 |
| 24 | | | | | |
| 25 | 42 0 | 29.04 | 46 5 | 604.92 | 24.12 |
| 26 | 33 0 | 21.67 | 45 0 | 599.61 | 22.06 |
| 27 | 40 5 | 19.97 | 37 0 | 56.39 | 63.58 |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|-----------------------|---------|-----------------------|---------|---------------------|
| 28 | 8 ^h 34' 5" | 624.62 | 1 ^h 46' 5" | 597.02 | 27.60 |
| 29 | 40 5 | 25.26 | 33 0 | 602.46 | 22.80 |
| 30 | 36 0 | 21.99 | 34 5 | 03.77 | 18.22 |
| Mittel | 8 37 2 | 622.440 | 1 39 1 | 591.614 | 28.943 = 11' 59" 81 |

(Nach Ausschluss des 24. und 27.)

Bemerkungen. Den 2., 3., 6., 7., 8., 12. und 28. Früh unregelmässig; — den 4. und 5. Früh und Nachmittags unregelmässig; — den 9. Nachmittags unregelmässig; — den 13. Früh hoher Stand; — den 14. und 20. Früh etwas unregelmässig; — den 15., 16., 22. und 23. Früh und Nachmittags etwas unregelmässig; — den 24. Früh und Nachmittags ganz unregelmässig (Störung); — den 27. Früh unregelmässig, Nachmittags ganz unregelmässig (Störung).

Mittel aus den Summen der Maxima und Minima = 607.027.
 Grösste Declination den 27. mit 556.387) grösste monatl. Oscillation
 Kleinste " " 25. " 629.037) 72.650 = 30' 7" 16.
 Grösste tägliche Oscillation den 27. = 63.588 = 26' 21" 75.
 Kleinste " " " 30. = 18.212 = 7' 33" 02.

Im October 1847.

| | | | | | |
|--------|------------------------|---------|------------------------|---------|--------------------|
| 1 | 8 ^h 34' 30" | 624.52 | 1 ^h 49' 30" | 595.02 | 29.50 |
| 2 | 49 30 | 24.91 | 49 30 | 97.74 | 27.17 |
| 3 | 40 30 | 26.42 | 40 30 | 99.39 | 27.03 |
| 4 | 48 0 | 29.94 | 45 0 | 600.32 | 29.62 |
| 5 | 49 30 | 31.11 | 43 30 | 591.69 | 39.42 |
| 6 | 43 30 | 22.47 | 33 0 | 94.15 | 28.32 |
| 7 | 49 30 | 25.50 | 36 0 | 91.37 | 34.13 |
| 8 | 33 0 | 28.32 | 33 0 | 90.72 | 37.60 |
| 9 | 34 30 | 24.05 | 36 0 | 92.00 | 32.05 |
| 10 | 49 30 | 28.47 | 34 30 | 88.65 | 39.82 |
| 11 | 48 0 | 26.25 | 33 0 | 88.02 | 38.23 |
| 12 | 49 30 | 31.59 | 39 0 | 92.01 | 39.58 |
| 13 | 48 0 | 35.17 | 40 30 | 65.50 | 69.67 |
| 14 | | | 39 0 | 88.25 | |
| 15 | 52 30 | 32.59 | 33 0 | 94.15 | 38.44 |
| 16 | 39 0 | 22.06 | 39 0 | 92.44 | 29.62 |
| 17 | 33 0 | 24.69 | 49 30 | 43.97 | 30.72 |
| 18 | 42 0 | 20.31 | 48 0 | 96.04 | 24.27 |
| 19 | 49 30 | 22.09 | 49 30 | 600.70 | 21.39 |
| 20 | 33 0 | 27.44 | 42 0 | 600.42 | 27.02 |
| 21 | 49 30 | 27.04 | 45 0 | 600.25 | 26.79 |
| 22 | 49 30 | 27.01 | 43 30 | 594.76 | 32.25 |
| 23 | 48 0 | 46.34 | 49 30 | 93.50 | 52.84 |
| 24 | 46 30 | 26.15 | 45 0 | 97.84 | 28.31 |
| 25 | 33 0 | 596.00 | 37 30 | 610.00 | —14.00 |
| 26 | 34 30 | 630.37 | 45 0 | 01.34 | 29.03 |
| 27 | 36 0 | 32.82 | 48 0 | 01.01 | 31.81 |
| 28 | 34 30 | 25.65 | 34 30 | 01.16 | 24.39 |
| 29 | 36 0 | 29.17 | 33 0 | 590.92 | 38.25 |
| 30 | 49 30 | 28.57 | 40 30 | 599.44 | 29.13 |
| 31 | 49 30 | 25.79 | 43 30 | 601.79 | 24.00 |
| Mittel | 8 39 46 | 626.761 | 1 38 0 | 591.761 | 31.547 = 13' 4" 57 |

Bemerkungen. Den 1., 2., 3., 5., 8., 11. und 12. Früh etwas unregelmässig; — den 4. Früh und Nachmittags etwas unregelmässig; — den 6. und 14. Nachmittags unregelmässig; — den 9. Früh etwas unregelmässig, Nachmittags Sonnenfinsterniss; — den 13. Früh etwas und Nachmittags sehr unregelmässig; — den 15. und 24. Früh unregelmässig; — den 21. Früh unruhig; — den 23. Früh sehr unruhig, merkwürdiger Gang, Nachmittags auch Abends, Nordlicht; — den 25. merkwürdiger Gang, Nachmittags kleiner.

Mittel aus den Summen der Maxima und Minima = 608.974.
 Grösste Declination den 13. mit 565.500) grösste monatl. Oscillation
 Kleinste " " 23. " 646.337) 80.837 = 33' 30" 82.
 Grösste tägliche Oscillation den 13. = 69.675 = 28' 53" 16.
 Kleinste " " " 25. = -14.000 = -5' 48" 25.

| Tag | Zeit des Minimum | Minimum in Scalenth. | Zeit des Maximum | Maximum in Scalenth. | Oscillation in | | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|--------------------|----------------------|----------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------|---------------------|-------------------|
| | | | | | Scalenth | Bogen | | | | | | |
| Im Jänner 1850. | | | | | | | | | | | | |
| 1 | 8 ^h 43' | 623·27 | 1 ^h 48' | 611·01 | 12·26 | 5' 37" | 11 | 8 ^h 48' | 632·52 | 1 ^h 43' | 611·36 | 21·16 |
| 2 | 48 | 12·27 | 43 | 598·89 | 13·38 | 5 31·5 | 12 | 47 | 29·75 | 44 | 10·67 | 19·08 |
| 3 | 43 | 07·77 | 43 | 612·42 | —4·65 | —1 55·2 | 13 | 48 | 32·17 | 37 | 09·77 | 23·40 |
| 4 | 38 | 19·62 | 41 | 12·50 | 7·12 | 2 56·4 | 14 | 37 | 34·47 | 39 | 08·92 | 25·53 |
| 5 | 40 | 27·80 | 47 | 05·55 | 22·25 | 9 11·3 | 15 | 47 | 36·64 | 46 | 12·29 | 24·35 |
| 6 | 37 | 28·52 | 38 | 12·52 | 14·00 | 5 46·9 | 16 | 41 | 33·85 | 48 | 10·17 | 23·68 |
| 7 | 41 | 24·87 | 41 | 11·04 | 13·83 | 5 42·7 | 17 | 47 | 30·90 | 37 | 10·32 | 20·58 |
| 8 | 48 | 28·30 | 41 | 13·60 | 14·70 | 6 4·3 | 18 | 49 | 36·25 | 48 | 15·25 | 21·00 |
| 9 | 40 | 24·14 | 37 | 14·82 | 9·32 | 3 50·9 | 19 | 47 | 29·52 | 42 | 09·77 | 19·75 |
| 10 | 39 | 25·64 | 38 | 12·15 | 13·49 | 5 14·4 | 20 | 38 | 32·66 | 48 | 12·24 | 20·42 |
| 11 | 47 | 28·47 | 41 | 11·49 | 16·98 | 7 1·2 | 21 | 47 | 35·61 | 40 | 12·32 | 23·29 |
| 12 | 45 | 29·60 | 37 | 08·91 | 20·69 | 8 32·7 | 22 | 48 | 29·65 | 41 | 10·64 | 19·01 |
| 13 | 42 | 29·50 | 39 | 11·31 | 18·19 | 7 31·0 | 23 | 47 | 33·50 | 38 | 548·25 | 84·25 |
| 14 | 37 | 23·62 | 44 | 13·88 | 9·74 | 4 1·3 | 24 | 47 | 33·21 | 43 | 612·45 | 20 76 |
| 15 | 45 | 28·42 | 40 | 15·75 | 12·67 | 5 13·9 | 25 | 37 | 32·16 | 48 | 12·52 | 19·64 |
| 16 | 42 | 24·87 | 41 | 11·54 | 13·33 | 5 30·3 | 26 | 48 | 34·29 | 39 | 05·76 | 28·53 |
| 17 | 40 | 25·10 | 41 | 12·70 | 13·40 | 5 32·0 | 27 | 46 | 36·72 | 38 | 09·49 | 27·23 |
| 18 | 37 | 25·24 | 43 | 07·36 | 17·88 | 7 13·1 | 28 | 37 | 35·95 | 48 | 13·89 | 22·06 |
| 19 | 47 | 22·71 | 38 | 599·30 | 23·41 | 9 40·1 | Mittel | 8 44 | 631·874 | 1 44 | 610·416 | 22·183 = 9' 9" 69 |
| 20 | 48 | 30·06 | 46 | 603·52 | 27·54 | 11 22·4 | Bemerkungen. Den 1., 2., 10. und 22. Nachmittags unregelmässig; — den 23. Nachmittags ausserordentlich unregelmässig, Sturmwind. Mittel aus den Summen der Maxima und Minima = 621·145. Grösste Declination (mit Ausnahme d. 23.) den 2. mit 601·062 } grösste monatl. Oscillation 35·663 = 14' 43" 72. Kleinste " 27. " 636·725 } Grösste tägliche Oscillation den 26. = 28·526 = 11' 46" 97. Kleinste " " " 7. = 11·126 = 4' 35" 70. | | | | | |
| 21 | 38 | 29·72 | 48 | 10·87 | 18·85 | 7 47·1 | | | | | | |
| 22 | 38 | 30·79 | 47 | 07·74 | 23·05 | 9 31·2 | | | | | | |
| 23 | 47 | 30·42 | 48 | 596·09 | 34·33 | 14 10·7 | | | | | | |
| 24 | 46 | 23·67 | 46 | 609·17 | 14·50 | 5 59·3 | | | | | | |
| 25 | 43 | 30·16 | 37 | 12·31 | 17·85 | 7 18·3 | | | | | | |
| 26 | 44 | 28·74 | 40 | 11·22 | 17·52 | 6 13·6 | | | | | | |
| 27 | 40 | 26·41 | 37 | 02·55 | 23·86 | 9 51·2 | | | | | | |
| 28 | 46 | 33·81 | 48 | 07·04 | 26·77 | 11 3·3 | | | | | | |
| 29 | 37 | 26·97 | 48 | 06·99 | 19·98 | 8 15·1 | | | | | | |
| 30 | 44 | 29·99 | 43 | 15·15 | 14·84 | 6 7·7 | | | | | | |
| 31 | 47 | 29·01 | 38 | 07·50 | 21·51 | 8 52·9 | | | | | | |
| Mittel | 8 42 | 626·11 | 1 42 | 609·25 | 16·858 | 6 57·8 | | | | | | |
| Bemerkungen. Den 2. Früh und Nachmittags etwas unregelmässig, hoher Stand; — den 3. Früh und Nachmittags unregelmässig, merkwürdiger Stand, ruhige Luft; — den 5. Früh unregelmässig — 17° R.; — den 6., 7., 11. und 12. Früh unregelmässig; — den 9. und 10. Früh und Nachmittags unregelmässig, starker Ostwind; — den 13. Früh unregelmässig, — 11° R., ruhige Luft; — den 14. Früh und Nachmittags unregelmässig, ruhige Luft; — den 18. Früh unregelmässig, ruhige Luft; — den 19. Früh und Nachmittags unregelmässig; — den 20. Früh plötzlich unruhig und unregelmässig, Nachmittags ganz unregelmässig; — den 21. Nachmittags unregelmässig; — den 23. Früh und Nachmittags sehr unregelmässig, Nachmittags bedeutender Unterschied; — den 27. Früh und Nachmittags unregelmässig, starker Wind. Mittel aus den Summen der Maxima und Minima = 617·680. Grösste Declination den 23. mit 596·09 } grösste monatl. Oscillation Kleinste " 28. " 633·81 } 37 72 = 17' 14" 70. Grösste tägliche Oscillation den 23. = 34·33 = 14' 10" 7. Kleinste " " " 3. = —4·65 = —1' 55" 2. | | | | | | | | | | | | |
| Im März 1850. | | | | | | | | | | | | |
| 1 | 8 ^h 45' | 637·09 | 1 ^h 40' | 606·92 | 30·17 | 2 | 48 | 38·17 | 37 | 10·09 | 28·08 | |
| 2 | 48 | 38·17 | 37 | 10·09 | 28·08 | 3 | 44 | 33·64 | 38 | 12·51 | 21·13 | |
| 3 | 44 | 33·64 | 38 | 12·51 | 21·13 | 4 | 48 | 32·22 | 47 | 08·80 | 23·42 | |
| 4 | 48 | 32·22 | 47 | 08·80 | 23·42 | 5 | 48 | 33·44 | 45 | 09·07 | 24·37 | |
| 5 | 48 | 33·44 | 45 | 09·07 | 24·37 | 6 | 37 | 39·96 | 47 | 10·69 | 29·25 | |
| 6 | 37 | 39·96 | 47 | 10·69 | 29·25 | 7 | 39 | 36·44 | 48 | 07·91 | 28·53 | |
| 7 | 39 | 36·44 | 48 | 07·91 | 28·53 | 8 | 44 | 38·40 | 48 | 05·32 | 33·08 | |
| 8 | 44 | 38·40 | 48 | 05·32 | 33·08 | 9 | 42 | 34·37 | 48 | 04·16 | 30·21 | |
| 9 | 42 | 34·37 | 48 | 04·16 | 30·21 | 10 | 37 | 31·20 | 37 | 05·77 | 25·43 | |
| 10 | 37 | 31·20 | 37 | 05·77 | 25·43 | 11 | 48 | 32·36 | 40 | 05·39 | 26·97 | |
| 11 | 48 | 32·36 | 40 | 05·39 | 26·97 | 12 | 41 | 39·82 | 37 | 01·41 | 38·41 | |
| 12 | 41 | 39·82 | 37 | 01·41 | 38·41 | 13 | 48 | 37·56 | 38 | 03·31 | 34·25 | |
| 13 | 48 | 37·56 | 38 | 03·31 | 34·25 | 14 | 40 | 36·44 | 45 | 10·09 | 25·35 | |
| 14 | 40 | 36·44 | 45 | 10·09 | 25·35 | 15 | 44 | 41·26 | 42 | 12·62 | 28·64 | |
| 15 | 44 | 41·26 | 42 | 12·62 | 28·64 | 16 | 42 | 37·94 | 48 | 05·65 | 32·29 | |
| 16 | 42 | 37·94 | 48 | 05·65 | 32·29 | 17 | 47 | 44·89 | 47 | 09·34 | 35·55 | |
| 17 | 47 | 44·89 | 47 | 09·34 | 35·55 | 18 | 38 | 38·84 | 46 | 08·90 | 29·94 | |
| 18 | 38 | 38·84 | 46 | 08·90 | 29·94 | 19 | 44 | 41·71 | 48 | 11·64 | 30·07 | |
| 19 | 44 | 41·71 | 48 | 11·64 | 30·07 | 20 | 41 | 42·27 | 47 | 12·71 | 29·56 | |
| 20 | 41 | 42·27 | 47 | 12·71 | 29·56 | 21 | 43 | 43·20 | 38 | 06·96 | 36·24 | |
| 21 | 43 | 43·20 | 38 | 06·96 | 36·24 | 22 | 43 | 44·10 | 48 | 09·37 | 34·73 | |
| 22 | 43 | 44·10 | 48 | 09·37 | 34·73 | 23 | 45 | 43·35 | 47 | 09·54 | 33·81 | |
| 23 | 45 | 43·35 | 47 | 09·54 | 33·81 | 24 | 40 | 34·64 | 37 | 06·57 | 28·07 | |
| 24 | 40 | 34·64 | 37 | 06·57 | 28·07 | 25 | 38 | 37·85 | 37 | 03·55 | 34·30 | |
| 25 | 38 | 37·85 | 37 | 03·55 | 34·30 | 26 | 42 | 49·80 | 47 | 05·06 | 44·74 | |
| 26 | 42 | 49·80 | 47 | 05·06 | 44·74 | 27 | 39 | 44·20 | 42 | 07·02 | 37·18 | |
| 27 | 39 | 44·20 | 42 | 07·02 | 37·18 | 28 | 37 | 47·31 | 48 | 06·29 | 41·02 | |
| 28 | 37 | 47·31 | 48 | 06·29 | 41·02 | 29 | 42 | 49·51 | 45 | 04·54 | 44·97 | |
| 29 | 42 | 49·51 | 45 | 04·54 | 44·97 | 30 | 48 | 43·21 | 39 | 09·06 | 34·15 | |
| 30 | 48 | 43·21 | 39 | 09·06 | 34·15 | 31 | 37 | 44·97 | 40 | 01·86 | 43·11 | |
| 31 | 37 | 44·97 | 40 | 01·86 | 43·11 | Mittel | 8 42 5" | 639·683 | 1 43 2" | 607·489 | 32·162 = 13' 16" 97 | |
| Bemerkungen. Den 5. Früh und Nachmittags unregelmässig. Mittel aus den Summen der Maxima und Minima = 623·586. Grösste Declination den 12. mit 601·412 } grösste monatl. Oscillation Kleinste " 26. " 649·800 } 48 388 = 19' 59" 05. Grösste tägliche Oscillation den 29. = 44·974 = 18' 34" 55. Kleinste " " " 3. = 21·126 = 8' 43" 50. | | | | | | | | | | | | |
| Im Februar 1850. | | | | | | | | | | | | |
| 1 | 8 ^h 42' | 630·44 | 1 ^h 49' | 605·19 | 25·25 | 1 | 40 | 24·87 | 49 | 01·06 | 23·81 | |
| 2 | 40 | 24·87 | 49 | 01·06 | 23·81 | 3 | 37 | 25·19 | 48 | 06·32 | 18·87 | |
| 3 | 37 | 25·19 | 48 | 06·32 | 18·87 | 4 | 37 | 29·62 | 37 | 07·07 | 22·55 | |
| 4 | 37 | 29·62 | 37 | 07·07 | 22·55 | 5 | 40 | 28·25 | 43 | 05·43 | 22·82 | |
| 5 | 40 | 28·25 | 43 | 05·43 | 22·82 | 6 | 45 | 25·92 | 37 | 09·73 | 16·19 | |
| 6 | 45 | 25·92 | 37 | 09·73 | 16·19 | 7 | 43 | 27·79 | 48 | 16·66 | 11·13 | |
| 7 | 43 | 27·79 | 48 | 16·66 | 11·13 | 8 | 45 | 33·10 | 47 | 11·29 | 21·81 | |
| 8 | 45 | 33·10 | 47 | 11·29 | 21·81 | 9 | 43 | 35·20 | 46 | 11·91 | 23·29 | |
| 9 | 43 | 35·20 | 46 | 11·91 | 23·29 | 10 | 48 | 32·25 | 46 | 18·70 | 13·55 | |
| 10 | 48 | 32·25 | 46 | 18·70 | 13·55 | | | | | | | |

Variationen der Declination der Magnetnadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--------------------|---------|--------------------|---------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|---------|-------------|---|--------------------|--------|--------------------|--------|-------|---|----|-------|----|--------|-------|---|----|-------|----|--------|-------|---|----|-------|----|-------|-------|---|----|-------|----|-------|-------|---|----|-------|----|--------|-------|---|----|-------|----|--------|-------|---|----|-------|----|-------|-------|---|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|--------|-------|----|----|-------|----|--------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|--------|-------|----|----|-------|----|--------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|---|--------------------|--------|--------------------|--------|-------|---|----|-------|----|-------|-------|---|----|-------|----|-------|-------|---|----|-------|----|-------|-------|---|----|-------|----|-------|-------|---|----|-------|----|--------|-------|---|----|-------|----|--------|-------|---|----|-------|----|-------|-------|---|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|-------|-------|----|----|-------|----|--------|-------|
| Im April 1850. | | | | | | <p>Bemerkungen. Den 6. Früh etwas unruhig; — den 9. Nachmittags etwas unregelmässig; — den 10., 15. und 30. Früh unregelmässig; — den 11. Früh plötzlich etwas senkrechte Schwingungen; — den 12. und 14. Früh etwas unruhig, senkrechte Schwingungen; — den 16. und 28. Früh und Nachmittags etwas unregelmässig; — den 18., 22. und 24. Früh etwas unregelmässig; — den 19. Früh etwas unregelmässig, Nachmittags senkrechte Schwingungen; — den 31. Früh senkrechte Schwingungen.</p> <p>Mittel aus den Summen der Maxima und Minima = 624·042. Grösste Declination den 28. mit 595·812} grösste monatl. Oscillation Kleinste " " 24. " 664·050} 68·238 = 27' 40" 53. Grösste tägliche Oscillation den 24. = 56·688 = 23' 24" 71. Kleinste " " " 10. = 25·587 = 10' 34" 04.</p> <p style="text-align: center;">Im Juni 1850.</p> <table border="1"> <thead> <tr> <th>1</th><th>8^h 42'</th><th>638·85</th><th>1^h 37'</th><th>605·20</th><th>33·65</th></tr> </thead> <tbody> <tr><td>2</td><td>37</td><td>37·19</td><td>41</td><td>595·59</td><td>41·50</td></tr> <tr><td>3</td><td>37</td><td>40·14</td><td>37</td><td>609·00</td><td>31·14</td></tr> <tr><td>4</td><td>38</td><td>32·99</td><td>47</td><td>05·01</td><td>27·98</td></tr> <tr><td>5</td><td>37</td><td>41·69</td><td>48</td><td>06·50</td><td>35·19</td></tr> <tr><td>6</td><td>43</td><td>39·30</td><td>48</td><td>597·50</td><td>41·80</td></tr> <tr><td>7</td><td>37</td><td>40·42</td><td>45</td><td>603·34</td><td>37·08</td></tr> <tr><td>8</td><td>48</td><td>38·99</td><td>44</td><td>04·31</td><td>34·68</td></tr> <tr><td>9</td><td>44</td><td>39·34</td><td>42</td><td>05·45</td><td>33·89</td></tr> <tr><td>10</td><td>38</td><td>42·84</td><td>48</td><td>08·04</td><td>34·70</td></tr> <tr><td>11</td><td>38</td><td>36·96</td><td>48</td><td>597·35</td><td>39·61</td></tr> <tr><td>12</td><td>58</td><td>35·72</td><td>48</td><td>603·05</td><td>32·67</td></tr> <tr><td>13</td><td>37</td><td>42·74</td><td>48</td><td>05·30</td><td>37·44</td></tr> <tr><td>14</td><td>37</td><td>42·08</td><td>47</td><td>02·62</td><td>39·46</td></tr> <tr><td>15</td><td>47</td><td>35·74</td><td>48</td><td>02·45</td><td>32·29</td></tr> <tr><td>16</td><td>37</td><td>44·61</td><td>37</td><td>08·01</td><td>36·60</td></tr> <tr><td>17</td><td>45</td><td>47·75</td><td>43</td><td>09·95</td><td>37·80</td></tr> <tr><td>18</td><td>37</td><td>37·77</td><td>40</td><td>03·17</td><td>34·60</td></tr> <tr><td>19</td><td>38</td><td>42·32</td><td>44</td><td>07·40</td><td>35·92</td></tr> <tr><td>20</td><td>43</td><td>39·56</td><td>37</td><td>08·11</td><td>31·45</td></tr> <tr><td>21</td><td>37</td><td>37·59</td><td>40</td><td>13·26</td><td>24·13</td></tr> <tr><td>22</td><td>40</td><td>38·94</td><td>48</td><td>10·60</td><td>28·34</td></tr> <tr><td>23</td><td>39</td><td>42·60</td><td>37</td><td>05·57</td><td>37·03</td></tr> <tr><td>24</td><td>47</td><td>37·50</td><td>47</td><td>09·37</td><td>28·13</td></tr> <tr><td>25</td><td>38</td><td>35·52</td><td>48</td><td>03·44</td><td>32·08</td></tr> <tr><td>26</td><td>41</td><td>42·96</td><td>48</td><td>11·50</td><td>31·46</td></tr> <tr><td>27</td><td>37</td><td>40·16</td><td>39</td><td>597·02</td><td>43·14</td></tr> <tr><td>28</td><td>37</td><td>40·44</td><td>37</td><td>600·60</td><td>39·84</td></tr> <tr><td>29</td><td>42</td><td>40·79</td><td>48</td><td>10·77</td><td>30·02</td></tr> <tr><td>30</td><td>46</td><td>43·20</td><td>46</td><td>11·55</td><td>31·65</td></tr> </tbody> </table> <p>Mittel 8 40 77" 639·883 1 43 83" 605·402 34·515 = 14' 15" 28</p> <p>Bemerkungen. Den 4. Früh etwas senkrechte Schwingungen; — den 5., 8., 11., 14., 15. und 17. Früh etwas unregelmässig; — den 12. Früh trat eine Störung ein, da eine Biene in dem Kasten war.</p> <p>Mittel aus den Summen der Maxima und Minima = 622·642. Grösste Declination den 2. mit 595·588} grösste monatl. Oscillation Kleinste " " 17. " 647·750} 52·162 = 21' 32" 57. Grösse tägliche Oscillation den 27. = 43·137 = 17' 48" 93. Kleinste " " " 21. = 24·125 = 9' 57" 82.</p> <p style="text-align: center;">Im Juli 1850.</p> <table border="1"> <thead> <tr> <th>1</th><th>8^h 41'</th><th>646·10</th><th>1^h 48'</th><th>607·81</th><th>38·29</th></tr> </thead> <tbody> <tr><td>2</td><td>37</td><td>43·15</td><td>40</td><td>03·62</td><td>39·53</td></tr> <tr><td>3</td><td>37</td><td>40·70</td><td>38</td><td>11·30</td><td>29·40</td></tr> <tr><td>4</td><td>40</td><td>36·07</td><td>48</td><td>04·87</td><td>31·20</td></tr> <tr><td>5</td><td>38</td><td>37·82</td><td>46</td><td>10·66</td><td>27·16</td></tr> <tr><td>6</td><td>42</td><td>40·17</td><td>48</td><td>599·20</td><td>40·97</td></tr> <tr><td>7</td><td>37</td><td>46·35</td><td>38</td><td>608·10</td><td>38·25</td></tr> <tr><td>8</td><td>39</td><td>40·51</td><td>48</td><td>08·24</td><td>32·27</td></tr> <tr><td>9</td><td>46</td><td>43·94</td><td>38</td><td>08·12</td><td>35·82</td></tr> <tr><td>10</td><td>43</td><td>32·64</td><td>42</td><td>10·96</td><td>21·68</td></tr> <tr><td>11</td><td>43</td><td>32·69</td><td>37</td><td>04·99</td><td>27·60</td></tr> <tr><td>12</td><td>37</td><td>37·67</td><td>38</td><td>599·72</td><td>37·95</td></tr> </tbody> </table> | | | | | | 1 | 8 ^h 42' | 638·85 | 1 ^h 37' | 605·20 | 33·65 | 2 | 37 | 37·19 | 41 | 595·59 | 41·50 | 3 | 37 | 40·14 | 37 | 609·00 | 31·14 | 4 | 38 | 32·99 | 47 | 05·01 | 27·98 | 5 | 37 | 41·69 | 48 | 06·50 | 35·19 | 6 | 43 | 39·30 | 48 | 597·50 | 41·80 | 7 | 37 | 40·42 | 45 | 603·34 | 37·08 | 8 | 48 | 38·99 | 44 | 04·31 | 34·68 | 9 | 44 | 39·34 | 42 | 05·45 | 33·89 | 10 | 38 | 42·84 | 48 | 08·04 | 34·70 | 11 | 38 | 36·96 | 48 | 597·35 | 39·61 | 12 | 58 | 35·72 | 48 | 603·05 | 32·67 | 13 | 37 | 42·74 | 48 | 05·30 | 37·44 | 14 | 37 | 42·08 | 47 | 02·62 | 39·46 | 15 | 47 | 35·74 | 48 | 02·45 | 32·29 | 16 | 37 | 44·61 | 37 | 08·01 | 36·60 | 17 | 45 | 47·75 | 43 | 09·95 | 37·80 | 18 | 37 | 37·77 | 40 | 03·17 | 34·60 | 19 | 38 | 42·32 | 44 | 07·40 | 35·92 | 20 | 43 | 39·56 | 37 | 08·11 | 31·45 | 21 | 37 | 37·59 | 40 | 13·26 | 24·13 | 22 | 40 | 38·94 | 48 | 10·60 | 28·34 | 23 | 39 | 42·60 | 37 | 05·57 | 37·03 | 24 | 47 | 37·50 | 47 | 09·37 | 28·13 | 25 | 38 | 35·52 | 48 | 03·44 | 32·08 | 26 | 41 | 42·96 | 48 | 11·50 | 31·46 | 27 | 37 | 40·16 | 39 | 597·02 | 43·14 | 28 | 37 | 40·44 | 37 | 600·60 | 39·84 | 29 | 42 | 40·79 | 48 | 10·77 | 30·02 | 30 | 46 | 43·20 | 46 | 11·55 | 31·65 | 1 | 8 ^h 41' | 646·10 | 1 ^h 48' | 607·81 | 38·29 | 2 | 37 | 43·15 | 40 | 03·62 | 39·53 | 3 | 37 | 40·70 | 38 | 11·30 | 29·40 | 4 | 40 | 36·07 | 48 | 04·87 | 31·20 | 5 | 38 | 37·82 | 46 | 10·66 | 27·16 | 6 | 42 | 40·17 | 48 | 599·20 | 40·97 | 7 | 37 | 46·35 | 38 | 608·10 | 38·25 | 8 | 39 | 40·51 | 48 | 08·24 | 32·27 | 9 | 46 | 43·94 | 38 | 08·12 | 35·82 | 10 | 43 | 32·64 | 42 | 10·96 | 21·68 | 11 | 43 | 32·69 | 37 | 04·99 | 27·60 | 12 | 37 | 37·67 | 38 | 599·72 | 37·95 |
| 1 | 8 ^h 42' | 638·85 | 1 ^h 37' | 605·20 | 33·65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 37 | 37·19 | 41 | 595·59 | 41·50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 37 | 40·14 | 37 | 609·00 | 31·14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 38 | 32·99 | 47 | 05·01 | 27·98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 37 | 41·69 | 48 | 06·50 | 35·19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 43 | 39·30 | 48 | 597·50 | 41·80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 37 | 40·42 | 45 | 603·34 | 37·08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 48 | 38·99 | 44 | 04·31 | 34·68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 44 | 39·34 | 42 | 05·45 | 33·89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 38 | 42·84 | 48 | 08·04 | 34·70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 38 | 36·96 | 48 | 597·35 | 39·61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 58 | 35·72 | 48 | 603·05 | 32·67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 37 | 42·74 | 48 | 05·30 | 37·44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 37 | 42·08 | 47 | 02·62 | 39·46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 47 | 35·74 | 48 | 02·45 | 32·29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 37 | 44·61 | 37 | 08·01 | 36·60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 45 | 47·75 | 43 | 09·95 | 37·80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 37 | 37·77 | 40 | 03·17 | 34·60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 38 | 42·32 | 44 | 07·40 | 35·92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 43 | 39·56 | 37 | 08·11 | 31·45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 37 | 37·59 | 40 | 13·26 | 24·13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 40 | 38·94 | 48 | 10·60 | 28·34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 39 | 42·60 | 37 | 05·57 | 37·03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 47 | 37·50 | 47 | 09·37 | 28·13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 38 | 35·52 | 48 | 03·44 | 32·08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 41 | 42·96 | 48 | 11·50 | 31·46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 37 | 40·16 | 39 | 597·02 | 43·14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 37 | 40·44 | 37 | 600·60 | 39·84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 42 | 40·79 | 48 | 10·77 | 30·02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 46 | 43·20 | 46 | 11·55 | 31·65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 8 ^h 41' | 646·10 | 1 ^h 48' | 607·81 | 38·29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 37 | 43·15 | 40 | 03·62 | 39·53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 37 | 40·70 | 38 | 11·30 | 29·40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 40 | 36·07 | 48 | 04·87 | 31·20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 38 | 37·82 | 46 | 10·66 | 27·16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 42 | 40·17 | 48 | 599·20 | 40·97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 37 | 46·35 | 38 | 608·10 | 38·25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 39 | 40·51 | 48 | 08·24 | 32·27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 46 | 43·94 | 38 | 08·12 | 35·82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 43 | 32·64 | 42 | 10·96 | 21·68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 43 | 32·69 | 37 | 04·99 | 27·60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 37 | 37·67 | 38 | 599·72 | 37·95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 8 ^h 45' | 646·34 | 1 ^h 48' | 600·60 | 45·74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 37 | 46·17 | 40 | 06·89 | 39·28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 38 | 42·19 | 39 | 08·47 | 33·72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 38 | 41·37 | 41 | 10·44 | 30·93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 38 | 42·74 | 48 | 07·89 | 34·85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 37 | 39·45 | 41 | 08·05 | 31·40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 39 | 40·19 | 37 | 02·59 | 37·60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 48 | 40·25 | 43 | 05·19 | 35·06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 42 | 41·50 | 45 | 09·95 | 31·55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 41 | 42·96 | 43 | 04·39 | 38·57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 38 | 43·00 | 48 | 08·67 | 34·33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 37 | 41·59 | 48 | 599·44 | 42·15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 38 | 45·39 | 39 | 607·29 | 38·10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 47 | 46·67 | 37 | 02·46 | 44·21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 40 | 46·12 | 41 | 03·24 | 42·88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 39 | 44·89 | 45 | 04·10 | 40·79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 38 | 49·11 | 37 | 09·54 | 39·57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 37 | 44·01 | 48 | 04·99 | 39·02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 39 | 42·14 | 48 | 02·49 | 39·65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 37 | 44·77 | 37 | 598·54 | 46·23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 38 | 39·27 | 45 | 605·57 | 33·70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 39 | 40·11 | 37 | 11·41 | 28·70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 40 | 41·59 | 37 | 05·86 | 36·23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 40 | 41·15 | 39 | 13·03 | 28·12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 47 | 40·65 | 39 | 14·16 | 26·4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 37 | 46·77 | 37 | 19·27 | 27·59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 41 | 41·31 | 41 | 14·46 | 26·85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 37 | 38·82 | 45 | 02·15 | 36·67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 38 | 38·06 | 40 | 10·50 | 27·56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 37 | 44·69 | 41 | 09·72 | 34·97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Mittel 8 39 6" 642·777 1 41 8" 607·029 35·748 = 14' 45" 83

Mittel aus den Summen der Maxima und Minima = 624·903.
 Grösste Declination den 20. mit 598·538} grösste monatl. Oscillation
 Kleinste " " 17. " 649·112} 50·574 = 20' 53" 22.
 Grösste tägliche Oscillation den 20. = 46·237 = 19' 5" 74.
 Kleinste " " " 25. = 26·488 = 10' 56" 37.

| **Im Mai 1850.** | | | | | | **Im Juni 1850.** | 1 | 8 ^h 42' | 646·04 | 1 ^h 47' | 610·00 | 36·04 | |----|--------------------|--------|--------------------|--------|-------| | 2 | 37 | 42·71 | 42 | 06·12 | 36·59 | | 3 | 43 | 35·87 | 42 | 00·75 | 35·12 | | 4 | 37 | 30·27 | 37 | 01·52 | 28·75 | | 5 | 41 | 37·54 | 37 | 10·37 | 27·17 | | 6 | 41 | 42·54 | 37 | 12·22 | 30·32 | | 7 | 39 | 40·56 | 38 | 03·34 | 57·22 | | 8 | 38 | 41·31 | 47 | 09·50 | 31·81 | | 9 | 37 | 36·75 | 37 | 06·75 | 30·00 | | 10 | 44 | 36·94 | 42 | 11·35 | 25·59 | | 11 | 37 | 39·06 | 39 | 07·52 | 31·54 | | 12 | 40 | 45·37 | 37 | 05·31 | 40·06 | | 13 | 42 | 43·14 | 37 | 05·42 | 37·72 | | 14 | 46 | 42·40 | 37 | 02·12 | 40·28 | | 15 | 37 | 49·00 | 37 | 06·27 | 42·73 | | 16 | 42 | 42·70 | 38 | 04·92 | 37·78 | | 17 | 37 | 41·59 | 46 | 03·31 | 38·28 | | 18 | 37 | 41·52 | 37 | 11·27 | 30·25 | | 19 | 37 | 43·00 | 37 | 12·15 | 30·85 | | 20 | 39 | 39·17 | 48 | 10·19 | 28·98 | | 21 | 37 | 38·74 | 37 | 09·75 | 28·99 | | 22 | 37 | 45·05 | 48 | 13·17 | 31·88 | | 23 | 39 | 38·55 | 37 | 06·16 | 32·39 | | 24 | 37 | 64·05 | 37 | 07·36 | 56·69 | | 25 | 37 | 37·89 | 37 | 07·87 | 30·02 | | 26 | 37 | 36·62 | 48 | 09·72 | 26·90 | | 27 | 40 | 41·22 | 47 | 03·82 | 37·40 | | 28 | 41 | 30·57 | 38 | 595·81 | 34·76 | | 29 | 38 | 38·04 | 48 | 607·87 | 30·17 | | 30 | 46 | 39·99 | 46 | 06·79 | 33·10 | | 31 | 37 | 43·96 | 39 | 09·82 | 34·14 | Mittel 8 39 3" 641·038 1 40 7" 607·046 33·986 = 14' 2" 17 | | | | | |

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|--------|--------------------|---------|--------------------|---------|-------------------|
| 13 | 8 ^h 46' | 639·56 | 1 ^h 46' | 598·69 | 40·87 |
| 14 | 43 | 44·39 | 37 | 615·41 | 28·98 |
| 15 | 38 | 40·14 | 46 | 14·22 | 25·92 |
| 16 | 47 | 33·15 | 47 | 13·76 | 19·39 |
| 17 | 37 | 44·99 | 39 | 15·40 | 29·59 |
| 18 | 37 | 43·71 | 37 | 08·52 | 35·19 |
| 19 | 39 | 41·66 | 44 | 17·39 | 24·27 |
| 20 | 37 | 41·25 | 43 | 12·76 | 28·49 |
| 21 | 46 | 36·41 | 37 | 09·01 | 27·40 |
| 22 | 45 | 37·68 | 45 | 12·10 | 25·58 |
| 23 | 37 | 38·00 | 41 | 10·07 | 27·93 |
| 24 | 37 | 39·46 | 37 | 08·99 | 30·47 |
| 25 | 45 | 37·99 | 48 | 04·86 | 33·13 |
| 26 | 40 | 40·82 | 40 | 10·42 | 30·40 |
| 27 | 37 | 39·05 | 43 | 06·11 | 32·94 |
| 28 | 47 | 41·29 | 38 | 02·21 | 39·05 |
| 29 | 40 | 40·02 | 48 | 15·74 | 24·28 |
| 30 | 38 | 39·91 | 48 | 06·80 | 33·11 |
| 31 | 42 | 35·77 | 37 | 10·29 | 25·48 |
| Mittel | 8 40 42" | 639·777 | 1 39 03" | 608·722 | 31·055 = 12'49"54 |

Bemerkungen. Den 7., 12., 13. und 21. Früh etwas unregelmässig; — den 8., 10. und 11. Früh unregelmässig; — den 9. Früh ganz unregelmässig.

Mittel aus den Summen der Maxima und Minima = 624·250.

Grösste Declination den 13. mit 598·688} grösste monatl. Oscillation

Kleinste " 7. " 646·350} 47·662 = 19' 41" 06.

Grösste tägliche Oscillation den 6. = 40·975 = 16' 55" 36.

Kleinste " " 16. = 19·388 = 8' 0" 43.

Im August 1850.

| | | | | | |
|--------|--------------------|---------|--------------------|---------|--------------------|
| 1 | 8 ^h 39' | 642·72 | 1 ^h 46' | 608·00 | 34·72 |
| 2 | 37 | 36·06 | 37 | 10·67 | 25·39 |
| 3 | 37 | 36·12 | 47 | 14·22 | 21·90 |
| 4 | 40 | 42·41 | 44 | 11·02 | 31·39 |
| 5 | 40 | 38·21 | 37 | 04·87 | 33·34 |
| 6 | 39 | 33·47 | 37 | 596·01 | 37·46 |
| 7 | 48 | 34·42 | 37 | 603·97 | 30·45 |
| 8 | 43 | 38·60 | 45 | 01·42 | 37·18 |
| 9 | 40 | 32·11 | 46 | 01·70 | 30·41 |
| 10 | 40 | 34·16 | 44 | 593·01 | 41·15 |
| 11 | 37 | 33·05 | 48 | 606·60 | 26·45 |
| 12 | 41 | 29·80 | 48 | 03·09 | 26·71 |
| 13 | 39 | 30·25 | 40 | 06·87 | 23·38 |
| 14 | 41 | 36·71 | 38 | 08·62 | 28·09 |
| 15 | 46 | 33·17 | 48 | 08·97 | 24·20 |
| 16 | 43 | 31·04 | 47 | 10·79 | 20·25 |
| 17 | 47 | 33·42 | 41 | 05·39 | 28·03 |
| 18 | 37 | 30·82 | 41 | 11·84 | 18·98 |
| 19 | 37 | 37·35 | 38 | 03·92 | 33·43 |
| 20 | 42 | 38·72 | 47 | 04·94 | 33·78 |
| 21 | 40 | 30·75 | 43 | 03·50 | 27·25 |
| 22 | 45 | 34·20 | 37 | 13·05 | 21·15 |
| 23 | 37 | 37·56 | 37 | 05·47 | 32·09 |
| 24 | 37 | 30·57 | 48 | 07·47 | 23·10 |
| 25 | 48 | 37·21 | 48 | 15·35 | 21·86 |
| 26 | 40 | 37·86 | 48 | 07·52 | 30·34 |
| 27 | 39 | 41·32 | 39 | 09·96 | 31·36 |
| 28 | 38 | 46·77 | 48 | 10·21 | 36·56 |
| 29 | 41 | 39·67 | 38 | 08·96 | 30·71 |
| 30 | 47 | 44·21 | 48 | 13·25 | 30·96 |
| 31 | 40 | 44·47 | 38 | 09·72 | 34·75 |
| Mittel | 8 40 8" | 636·363 | 1 42 8" | 607·111 | 29·252 = 12' 4" 86 |

Bemerkungen. Den 8. und 18. Früh sehr unregelmässig; — den 17. Früh senkrechte Schwingungen; — den 19., 20., 21. und 22. Früh unregelmässig; — den 25., 26., 27., 30. und 31. Früh etwas unregelmässig.

Mittel aus den Summen der Maxima und Minima = 621·737.

| Tag | Zeit des Minimum | Minimum | Zeit des Maximum | Maximum | Unterschied |
|----------------------------------------------------------------------|------------------|---------|------------------|---------|-------------|
| Grösste Declination den 10. mit 593·012} grösste monatl. Oscillation | | | | | |
| Kleinste " 28. " 646·775} 53·763 = 22' 12" 27. | | | | | |
| Grösste tägliche Oscillation den 10. = 41·150 = 16' 59" 70. | | | | | |
| Kleinste " " 18. = 18·982 = 7' 50" 37. | | | | | |

Im September 1850.

| | | | | | |
|--------|--------------------|---------|--------------------|---------|---------------------|
| 1 | 8 ^h 37' | 638·12 | 1 ^h 43' | 605·00 | 33·12 |
| 2 | 37 | 38·50 | 37 | 10·72 | 27·78 |
| 3 | 41 | 39·62 | 48 | 02·79 | 36·83 |
| 4 | 40 | 35·31 | 39 | 13·07 | 22·24 |
| 5 | 48 | 32·34 | 48 | 09·99 | 22·35 |
| 6 | 44 | 42·41 | 48 | 16·05 | 26·36 |
| 7 | 41 | 33·45 | 47 | 11·01 | 22·44 |
| 8 | 48 | 31·62 | 47 | 05·75 | 25·87 |
| 9 | 39 | 34·55 | 44 | 12·95 | 21·60 |
| 10 | 44 | 41·75 | 39 | 04·44 | 37·31 |
| 11 | 37 | 39·05 | 37 | 13·09 | 25·96 |
| 12 | 42 | 36·50 | 37 | 12·16 | 24·34 |
| 13 | 37 | 39·61 | 42 | 12·62 | 26·99 |
| 14 | 40 | 37·90 | 39 | 09·54 | 28·36 |
| 15 | 41 | 38·04 | 39 | 16·42 | 21·62 |
| 16 | 47 | 38·06 | 46 | 13·85 | 24·21 |
| 17 | 38 | 43·00 | 38 | 15·25 | 27·75 |
| 18 | 37 | 43·52 | 38 | 14·72 | 28·80 |
| 19 | 44 | 38·96 | 48 | 13·00 | 25·96 |
| 20 | 37 | 36·02 | 38 | 17·81 | 18·21 |
| 21 | 37 | 40·45 | 38 | 20·01 | 20·44 |
| 22 | 44 | 41·22 | 45 | 13·29 | 27·93 |
| 23 | 38 | 39·47 | 38 | 14·70 | 24·77 |
| 24 | 37 | 40·44 | 37 | 599·10 | 41·34 |
| 25 | 39 | 43·17 | 47 | 607·00 | 36·17 |
| 26 | 37 | 44·60 | 37 | 13·82 | 30·78 |
| 27 | 39 | 33·65 | 46 | 13·32 | 20·33 |
| 28 | 44 | 44·77 | 46 | 07·76 | 37·01 |
| 29 | 37 | 45·02 | 42 | 09·85 | 35·17 |
| 30 | 43 | 47·41 | 44 | 10·75 | 36·66 |
| Mittel | 8 40 47" | 639·286 | 1 42 07" | 611·329 | 27·957 = 11' 32" 74 |

Bemerkungen. Den 8., 9., 17., 18. und 19. Früh unregelmässig; — den 10. und 13. Früh und Nachmittags unregelmässig; — den 12. Früh etwas unregelmässig; — den 28. Früh unruhig, unregelmässig.

Mittel aus den Summen der Maxima und Minima = 625·307.

Grösste Declination den 24. mit 599·100} grösste monatl. Oscillation

Kleinste " 30. " 647·412} 48·312 = 19' 57" 17.

Grösste tägliche Oscillation den 24. = 41·337 = 17' 4" 33.

Kleinste " " 20. = 18·215 = 7' 31" 37.

Im October 1850.

| | | | | | |
|----|--------------------|--------|--------------------|--------|-------|
| 1 | 8 ^h 41' | 638·89 | 1 ^h 37' | 610·01 | 28·88 |
| 2 | 39 | 36·09 | 48 | 19·11 | 16·98 |
| 3 | 40 | 26·94 | 48 | 14·92 | 11·92 |
| 4 | 39 | 42·14 | 42 | 16·24 | 25·80 |
| 5 | 39 | 43·96 | 43 | 16·44 | 27·52 |
| 6 | 47 | 35·19 | 38 | 09·91 | 25·28 |
| 7 | 37 | 37·57 | 46 | 16·40 | 21·17 |
| 8 | 45 | 36·81 | 48 | 15·87 | 20·94 |
| 9 | 42 | 33·96 | 46 | 20·72 | 13·24 |
| 10 | 37 | 49·16 | 45 | 13·77 | 29·39 |
| 11 | 47 | 43·31 | 43 | 17·10 | 26·21 |
| 12 | 39 | 46·86 | 42 | 21·27 | 25·59 |
| 13 | 40 | 42·79 | 48 | 12·77 | 30·02 |
| 14 | 37 | 46·62 | 45 | 17·75 | 28·87 |
| 15 | 48 | 42·72 | 46 | 08·25 | 34·47 |
| 16 | 40 | 41·07 | 41 | 21·49 | 19·58 |
| 17 | 37 | 40·90 | 43 | 21·20 | 19·70 |
| 18 | 44 | 39·87 | 37 | 17·44 | 22·43 |

Variationen der Declination der Magnetnadel, beobachtet in Krakau.

| Tag | Zeit des Minimum | Maximum | Zeit des Maximum | Maximum | Unterschied |
|--------|--------------------|---------|--------------------|---------|-----------------|
| 19 | 8 ^h 48' | 643·71 | 1 ^h 40' | 620·46 | 23·25 |
| 20 | 40 | 41·05 | 37 | 20·01 | 21·04 |
| 21 | 40 | 44·00 | 46 | 19·56 | 24·44 |
| 22 | 44 | 44·75 | 38 | 18·25 | 26·50 |
| 23 | — | — | — | — | — |
| 24 | — | — | — | — | — |
| 25 | — | — | — | — | — |
| 26 | — | — | — | — | — |
| 27 | — | — | — | — | — |
| 28 | — | — | — | — | — |
| 29 | — | — | — | — | — |
| 30 | — | — | — | — | — |
| 31 | — | — | — | — | — |
| Mittel | 8 41 27" | 640·563 | 1 43 04" | 616·771 | 123·792=9'49"56 |

Bemerkungen. Den 2., 7., 10., 12., 21. und 22. Früh unregelmässig; — den 3. Früh unregelmässig (hoher Stand); — den 6. Früh unruhig; — den 17. Früh senkrechte Schwingungen. In der Nacht vom 22.—23. wurde in die Hütte eingebrochen und alle Apparate entwendet!

Mittel aus den Summen der Maxima und Minima = 628·667.
 Grösste Declination den 15. mit 608·250 } grösste monatl. Oscillation
 Kleinste " " 12. " 646·862 } = 38·612 = 15' 56" 80.
 Grösste tägliche Oscillation den 15. = 34·475 = 14' 14" 29.
 Kleinste " " " 3. = 11·992 = 4' 57" 16.

| Tag | Minimum | Maximum | Oscillation | |
|-----|------------------|---------|------------------|----------|
| | in Scalentheilen | | in Scalentheilen | in Bogen |

Im Mai und Juni 1855.

Zeit der Beobachtung 8^h 40' Früh und 1^h 40' Nachmittags.

| | | | | |
|----------------|-------|-------|-------|-----------|
| Mai 26 | 275·0 | 268·0 | 7·0 | 2' 55" 35 |
| 27 | 260·0 | 268·5 | 8·5 | 3 32·90 |
| 28 | 268·0 | 265·0 | 3·0 | 1 15·15 |
| 29 | 279·0 | 262·5 | 16·5 | 6 53·32 |
| 30 | 284·5 | 264·0 | 20·5 | 8 33·52 |
| 31 | 282·5 | 266·0 | 16·5 | 6 53·32 |
| Juni 1 | 284·3 | 268·8 | 15·5 | 6 25·29 |
| 2 | 283·0 | 265·5 | 17·5 | 7 18·37 |
| 3 | 291·5 | 257·5 | 34·0 | 14 11·70 |
| 4 | 287·0 | 263·0 | 24·0 | 10 1·20 |
| 5 | 292·0 | 273·0 | 19·0 | 7 55·95 |
| 6 | 297·0 | 273·0 | 24·0 | 10 1·20 |
| 7 | 294·5 | 268·0 | 26·5 | 11 3·82 |
| 8 | 299·0 | 278·0 | 21·0 | 8 46·05 |
| 9 | 292·5 | 266·0 | 26·5 | 11 3·82 |
| 10 | 292·5 | 279·0 | 13·5 | 5 38·17 |
| 11 | 291·0 | 262·5 | 28·5 | 11 53·90 |
| 12 | 308·0 | 283·0 | 25·0 | 10 26·25 |
| 13 | 303·5 | 276·5 | 27·0 | 11 16·35 |
| 14 | 305·0 | 288·5 | 16·5 | 6 53·32 |
| 15 | 302·0 | 280·0 | 22·0 | 9 11·10 |
| 16 | 301·0 | 278·0 | 23·0 | 9 36·15 |
| 17 | 294·0 | 272·0 | 22·0 | 9 11·10 |
| 18 | 294·0 | 269·0 | 25·0 | 9 26·25 |
| 19 | 296·0 | 272·5 | 23·5 | 9 48·65 |
| 20 | 293·0 | 272·1 | 20·3 | 8 28·11 |
| 21 | 286·0 | 270·0 | 16·5 | 6 53·32 |
| 22 | 293·0 | 269·0 | 24·0 | 10 1·20 |
| 23 | 294·0 | 269·0 | 25·0 | 10 20·25 |
| 24 | 300·0 | 269·0 | 31·0 | 12 56·55 |
| 25 | 292·5 | 271·5 | 21·0 | 8 46·05 |
| 26 | 276·0 | 256·0 | 20·0 | 8 21·00 |
| 27 | 201·0 | 263·0 | 18·0 | 7 30·90 |
| 28 | 201·0 | 256·0 | 25·0 | 10 26·25 |
| 29 | 279·0 | 261·0 | 18·0 | 7 30·90 |
| 30 | 283·5 | 258·5 | 25·0 | 10 26·25 |
| Mittel im Juni | | | 22·58 | 9 25·71 |

| Tag | Minimum | Maximum | Oscillation | |
|-----|------------------|---------|------------------|----------|
| | in Scalentheilen | | in Scalentheilen | in Bogen |

Bemerkungen. Den 27. Mai merkwürdiger Stand; — den 13. Juni unruhig; — den 15. und 16. Juni Nachmittags etwas unruhig; — den 17. Juni Früh sehr unruhig, Nachmittags ruhig; — den 19. Juni Früh etwas unruhig; — den 21. Juni Früh und Nachmittags sehr unruhig; — den 25. Juni Früh und Nachmittags etwas unruhig; — den 26. und 28. Juni Nachmittags etwas unruhig; — den 29. Juni Früh etwas unruhig.

Grösste Declination d. 26. u. 28. Juni mit 256·0 } grösste monatl. Oscillation = 52·0
 Kleinste " " 12. Juni " 308·0 }
 Grösste tägliche Oscillation den 3. Juni = 34·0 = 14' 11" 70.
 Kleinste " " " 10. " = 13·5 = 5' 38" 17.

Im Juli 1855.

Zeit der Beobachtung 8^h 40' Früh und 1^h 40' Nachmittags.

| | | | | |
|--------|-------|-------|-------|------------|
| 1 | 281·5 | 256·0 | 25·5 | 10' 38" 77 |
| 2 | 280·0 | 258·0 | 22·0 | 9 11·10 |
| 3 | 271·0 | 260·0 | 11·0 | 4 35·55 |
| 4 | 280·5 | 263·0 | 17·5 | 7 18·37 |
| 5 | 278·0 | 261·0 | 17·0 | 7 5·85 |
| 6 | 281·0 | 257·0 | 24·0 | 10 1·20 |
| 7 | 288·0 | 268·0 | 20·0 | 8 21·00 |
| 8 | 284·0 | 260·0 | 24·0 | 10 1·20 |
| 9 | 286·0 | 260·0 | 26·0 | 10 51·30 |
| 10 | 279·0 | 254·0 | 25·0 | 10 26·25 |
| 11 | 285·0 | 265·0 | 20·0 | 8 4·00 |
| 12 | 284·0 | 264·0 | 20·0 | 8 21·00 |
| 13 | 265·0 | 247·0 | 18·0 | 7 30·90 |
| 14 | 269·0 | 250·0 | 19·0 | 7 35·95 |
| 15 | 263·5 | 243·0 | 20·5 | 8 35 52 |
| 16 | 265 0 | 244·0 | 21·0 | 8 46·05 |
| 17 | 268·5 | 246·0 | 22·5 | 9 23·62 |
| 18 | 267·0 | 245·0 | 22·0 | 9 11·10 |
| 19 | 264 0 | 238·0 | 26·0 | 10 51·30 |
| 20 | 261·0 | 240·0 | 21·0 | 8 46·05 |
| 21 | 271·0 | 242·0 | 29·0 | 12 6·45 |
| 22 | 264·0 | 244·0 | 20·0 | 8 21·00 |
| 23 | 258·0 | 244·0 | 14·0 | 5 50·70 |
| 24 | 265·0 | 246·0 | 19·0 | 7 55·95 |
| 25 | 268·0 | 244·0 | 24·0 | 10 1·20 |
| 26 | 248·0 | 238·0 | 10·0 | 4 10·50 |
| 27 | 258·5 | 242·0 | 16·5 | 6 53·32 |
| 28 | 254·0 | 237·0 | 17·0 | 7 5·85 |
| 29 | 251·5 | 221·0 | 30·5 | 12 44·02 |
| 30 | 256·0 | 233·0 | 23·0 | 9 36·15 |
| 31 | 251·0 | 233·0 | 18·0 | 7 30·90 |
| Mittel | | | 20·74 | 8 39·71 |

Bemerkungen. Den 12. Früh und Nachmittags etwas unruhig; — den 18. Früh sehr unruhig, Wind; — den 19. Nachmittags etwas unruhig; — den 26. wurde der Mire-Spiegel gerichtet; — den 27. Früh und Nachmittags unruhig, Erdbeben in Mailand.

Grösste Declination den 29. mit 221·0 } grösste monatl. Oscillation = 67·0
 Kleinste " " 7. " 228·0 }
 Grösste tägliche Oscillation den 29. = 30·5 = 12' 44" 02.
 Kleinste " " " 26. = 10·0 = 4' 10" 50.

Im August 1855.

Zeit der Beobachtung 8^h 40' Früh und 1^h 40' Nachmittags.

| | | | | |
|---|-------|-------|------|-----------|
| 1 | 254·0 | 235·0 | 19·0 | 7' 55" 95 |
| 2 | 254·0 | 233·0 | 21·0 | 8 46·05 |
| 3 | 256·0 | 235·0 | 21·0 | 8 46·08 |
| 4 | 257·0 | 231·0 | 26·0 | 10 51·30 |
| 5 | 253·0 | 223·0 | 30·0 | 12 31·50 |
| 6 | 256·5 | 235·0 | 21·5 | 8 58·75 |
| 7 | 248·0 | 238·0 | 10·0 | 4 10·50 |

| Tag | Minimum | Maximum | Oscillation | |
|-----|------------------|---------|------------------|-----------------------|
| | in Scalentheilen | | in Scalentheilen | in Bogen |
| 8 | 252·0 | 237·0 | 15·0 | 6' 18 ⁷ 75 |
| 9 | 249·0 | 231·0 | 18·0 | 7 30·90 |
| 10 | 255·0 | 230·0 | 25·0 | 10 26·25 |
| 11 | 252·0 | 228·0 | 24·0 | 10 1·20 |
| 12 | 252·0 | 230·0 | 22·0 | 9 11·10 |
| 13 | 252·0 | 239·0 | 13·0 | 5 25·65 |
| 14 | 253·0 | 231·0 | 22·0 | 9 11·11 |
| 15 | 256·0 | 221·0 | 35·0 | 14 36·75 |
| 16 | 260·0 | 230·0 | 30·0 | 12 31·50 |
| 17 | 252·0 | 230·0 | 22·0 | 9 11·15 |
| 18 | 246·0 | 233·0 | 13·0 | 5 25·65 |
| 19 | 319·0 | 298·0 | 21·0 | 8 46·05 |
| 20 | 265·0 | 248·0 | 17·0 | 7 5·85 |
| 21 | 266·0 | 253·0 | 13·0 | 5 25·65 |
| 22 | 264·0 | 250·0 | 14·0 | 5 50·70 |
| 23 | 268·0 | 247·5 | 20·5 | 8 33·52 |
| 24 | 267·0 | 250·0 | 17·0 | 7 5·85 |
| 25 | 268·0 | 246·0 | 22·0 | 9 11·15 |
| 26 | 268·0 | 247·0 | 21·0 | 8 46·05 |
| 27 | 265·5 | 263·0 | 2·5 | 1 2·62 |
| 28 | 270·0 | 242·0 | 28·0 | 11 41·40 |
| 29 | 274·0 | 247·0 | 27·0 | 11 16·35 |
| 30 | 264·0 | 238·0 | 26·5 | 11 3·82 |
| 31 | 258 | 240·0 | 18·0 | 7 30·90 |

Mittel

20·48 8 33·27

Bemerkungen. Den 16. Früh etwas unruhig; — den 27. Früh Gewitter; — den 28. Früh und Nachmittags etwas unruhig.
 Grösste Declination den 15. mit 221·0 } grösste monatl. Oscillation
 Kleinste " " 19. " 319·0 } = 98·0
 Grösste tägliche Oscillation den 15. = 35·0 = 14' 36⁷75.
 Kleinste " " 27. = 2·5 = 1' 2⁷62.

Im September 1855.

Zeit der Beobachtung 8^h 40' Früh und 1^h 40' Nachmittags.

| | | | | |
|----|-------|-------|------|-----------------------|
| 1 | 269·0 | 248·5 | 20·5 | 8' 33 ⁷ 52 |
| 2 | 268·0 | 248·0 | 20·0 | 8 21·00 |
| 3 | 271·0 | 250·0 | 21·0 | 8 46·05 |
| 4 | 269·5 | 254·0 | 15·5 | 6 28·25 |
| 5 | 271·0 | 250·0 | 21·0 | 8 46·05 |
| 6 | 267·0 | 248·0 | 19·0 | 7 55·95 |
| 7 | 267·5 | 246·0 | 21·5 | 8 58·52 |
| 8 | 264·0 | 240·0 | 24·0 | 10 1·20 |
| 9 | 263·0 | 249·0 | 14·0 | 5 50·70 |
| 10 | 263·0 | 246·0 | 17·0 | 7 5·85 |
| 11 | 289·0 | 263·0 | 26·0 | 10 51·30 |
| 12 | 290·0 | 266·5 | 23·5 | 9 48·65 |
| 13 | 290·0 | 273·0 | 17·0 | 7 5·85 |
| 14 | 290·0 | 273·0 | 17·0 | 7 5·85 |
| 15 | 286·0 | 266·0 | 20·0 | 8 21·00 |
| 16 | 285·0 | 274·0 | 11·0 | 4 35·55 |
| 17 | 281·0 | 269·0 | 12·0 | 5 0·60 |
| 18 | 288·0 | 276·0 | 12·0 | 5 0·60 |
| 19 | 286·5 | 277·0 | 9·5 | 3 57·95 |
| 20 | 287·0 | 278·0 | 9·0 | 3 45·45 |
| 21 | 292·0 | 271·0 | 21·0 | 8 46·05 |
| 22 | 288·0 | 274·0 | 14·0 | 5 50·70 |
| 23 | 293·0 | 277·0 | 16·0 | 6 40·80 |
| 24 | 296·0 | 273·5 | 22·5 | 9 23·62 |
| 25 | 294·0 | 273·0 | 21·0 | 8 46·05 |
| 26 | 287·0 | 273·0 | 14·0 | 5 50·70 |
| 27 | 292·0 | 272·5 | 19·5 | 8 8·47 |
| 28 | 377·0 | 275·0 | 12·0 | 5 0·60 |
| 29 | 285·0 | 276·0 | 9·0 | 3 45·45 |
| 30 | 293·5 | 277·0 | 16·5 | 6 53·32 |

Mittel

17·2 7 14·98

Bemerkungen. Den 7. etwas unruhig; — den 25. unruhig.
 Grösste Declination den 8. mit 240·0 } grösste monatl. Oscillation
 Kleinste " " 24. " 296·0 } = 56·0
 Grösste tägliche Oscillation den 11. = 26·0 = 10' 51⁷30.
 Kleinste " " 20. u. 29. = 9·0 = 3' 45⁷45.

| Tag | Minimum | Maximum | Oscillation | |
|----------------------------------------------------------------------------------|------------------|----------|------------------|----------------------|
| | in Scalentheilen | | in Scalentheilen | in Bogen |
| Im October 1855. | | | | |
| Zeit der Beobachtung 8 ^h 40' Früh und 1 ^h 40' Nachmittags. | | | | |
| 1 | 290·5 | 276·0 | 14·5 | 6' 3 ⁷ 23 |
| 2 | 289·0 | 278·0 | 11·0 | 4 35·55 |
| 3 | 285·5 | 267·0 | 18·5 | 7 43·42 |
| 4 | 295·0 | 275·0 | 20·0 | 8 21·00 |
| 5 | 284·0 | 275·0 | 9·0 | 3 45·45 |
| 6 | 306·0 | 287·0 | 19·0 | 7 55·95 |
| 7 | 307·5 | 287·5 | 20·0 | 8 21·00 |
| 8 | | 274·0 | | |
| 9 | | | | |
| 10 | 333·0 | 320·0 | 13·0 | 5 25·65 |
| 11 | 305·0 | 293·0 | 12·0 | 5 0·60 |
| 12 | 303·0 | 293·0 | 10·0 | 4 10·80 |
| 13 | 301·5 | 287·0 | 14·5 | 6 3·22 |
| 14 | 304·0 | 292·0 | 12·0 | 5 0·60 |
| 15 | 304·0 | 291·0 | 13·0 | 5 25·65 |
| 16 | 306·5 | 289·0 | 17·5 | 7 18·37 |
| 17 | 307·0 | 292·0 | 15·0 | 6 15·25 |
| 18 | 298·0 | 279·0 | 19·0 | 7 55·95 |
| 19 | 301·0 | 291·0 | 10·0 | 4 10·80 |
| 20 | 295·0 | 289·0 | 6·0 | 2 30·30 |
| 21 | 301·0 | 286·0 | 15·0 | 6 15·75 |
| 22 | 303·5 | (270·0)? | | |
| 23 | 293·5 | 277·0 | 16·5 | 6 53·32 |
| 24 | 279·0 | 267·0 | 12·0 | 5 0·60 |
| 25 | 284·0 | 267·0 | 17·0 | 7 5·85 |
| 26 | 282·0 | 266·0 | 16·0 | 6 40·80 |
| 27 | 284·5 | 270·0 | 14·5 | 6 3·22 |
| 28 | 284·9 | 265·2 | 19·7 | 8 13·6 |
| 29 | 282·5 | 265·0 | 17·5 | 7 18·4 |
| 30 | 281·5 | 263·0 | 18·5 | 7 43·42 |
| 31 | 291·2 | 269·0 | 22·2 | 9 16·11 |

Mittel

15·10 6 18·36

Bemerkungen. Den 7. Früh sehr unruhig; — den 15. Früh unruhig; — den 16. Nachmittags unruhig; — den 17. Früh und Nachmittags etwas unruhig; — den 22. nach der Früh-Beobachtung wurde am Mire-Spiegel etwas geändert.
 Grösste Declination den 30. mit 263 } grösste monatl. Oscillation
 Kleinste " " 10. " 333 } = 70·0
 Grösste tägliche Oscillation den 31. = 22·2 = 9' 16⁷11.
 Kleinste " " 20. = 6·0 = 2' 30⁷30.

Im November 1855.

Zeit der Beobachtung 8^h 40' Früh und 1^h 40' Nachmittags.

| | | | | |
|----|-------------------------------------|-------|------|-----------------------|
| 1 | Die Nadel war sehr unruhig. | | | |
| 2 | Die Nadel war wieder sehr unruhig. | | | |
| 3 | 312·0 | 301·0 | 11·0 | 4' 35 ⁷ 55 |
| 4 | 313·0 | 301·0 | 12·0 | 5 0 60 |
| 5 | 307·0 | 292·5 | 14·5 | 6 3·22 |
| 6 | 309·0 | 297·0 | 12·0 | 5 0·60 |
| 7 | 307·0 | 294·0 | 13·0 | 5 25·65 |
| 8 | 409·0 | 294·0 | 15·0 | 6 15·25 |
| 9 | | | | |
| 10 | Die Scala wurde anders aufgestellt. | | | |
| 11 | | | | |
| 12 | 320·0 | 310·0 | 10·0 | 4 10·50 |
| 13 | 321·5 | 309·0 | 12·5 | 5 13·12 |
| 14 | 323·0 | 313·0 | 10·0 | 4 10·57 |
| 15 | 326·0 | 317·0 | 9·0 | 3 45·45 |
| 16 | 327·0 | 317·0 | 10·0 | 4 10·57 |
| 17 | 325·0 | 315·0 | 10·0 | 4 10·57 |
| 18 | 321·0 | 315·0 | 6·0 | 2 30·30 |
| 19 | 322·0 | 315·0 | 7·0 | 2 55·35 |
| 20 | 322·0 | 315·0 | 7·0 | 2 55·35 |
| 21 | 323·0 | 314·0 | 9·0 | 3 45·45 |

98 *Max Weisse. Variationen der Declination der Magnetrnadel, beobachtet in Krakau.*

| Tag | Minimum | Maximum | Oscillation | | Tag | Minimum | Maximum | Oscillation | |
|----------------------------------------------------------------------------------|------------------|---------|------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|-----------|
| | in Scalentheilen | | in Scalentheilen | in Bogen | | in Scalentheilen | | in Scalentheilen | in Bogen |
| Im März 1856. | | | | | 18 | 366·0 | 351·0 | 15·0 | 6' 15" 75 |
| Zeit der Beobachtung 8 ^h 40' Früh und 1 ^h 40' Nachmittags. | | | | | 19 | 368·0 | 347·0 | 21·0 | 8 46·20 |
| 1 | 371·0 | 354·0 | 17·0 | 7' 5" 85 | 20 | 368·0 | 353·0 | 15·0 | 6 15·75 |
| 2 | 368·0 | 355·0 | 13·0 | 5 25·65 | 21 | 371·0 | 355·0 | 16·0 | 6 40·80 |
| 3 | 366·0 | 353·0 | 13·0 | 5 25·65 | 22 | 376·0 | 347·0 | 29·0 | 12 6·65 |
| 4 | 365·0 | 356·0 | 9·0 | 3 45·65 | 23 | 373·0 | 355·0 | 18·0 | 7 30·90 |
| 5 | 365·0 | 358·0 | 7·0 | 2 55·35 | 24 | 375·0 | 355·0 | 20·0 | 8 21·14 |
| 6 | 364·0 | 347·0 | 17·0 | 7 5·85 | 25 | 371·0 | 355·0 | 16·0 | 6 50·80 |
| 7 | 366·0 | 356·0 | 10·0 | 4 10·57 | 26 | 374·0 | 354·0 | 20·0 | 8 21·14 |
| 8 | 358·0 | 351·0 | 7·0 | 2 55·35 | 27 | 368·0 | 339·0 | 29·0 | 12 6·66 |
| 9 | 367·0 | 353·0 | 14·0 | 5 50·70 | 28 | 369·0 | 348·0 | 21·0 | 8 46·20 |
| 10 | 367·0 | 356·0 | 11·0 | 4 35·62 | 29 | 368·0 | 346·0 | 22·0 | 9 1·25 |
| 11 | 369·0 | 358·0 | 11·0 | 4 35·62 | 30 | 368·0 | 345·5 | 23·0 | 9 26·31 |
| 12 | 368·0 | 357·0 | 11·0 | 4 35·62 | 31 | 368·0 | 353·0 | 15·0 | 6 15·75 |
| 13 | 368·0 | 355·0 | 13·0 | 5 25·65 | Mittel | | | 16·13 | 6 44·17 |
| 14 | 366·0 | 352·0 | 14·0 | 5 50·70 | Bemerkungen. Den 8. Früh unruhig. Grösste Declination den 27. = 339 0 } grösste monatl. Oscillation Kleinste " " 22. = 376·0 } 37·0 = 15' 27" 22 Grösste tägliche Oscillation den 22. = 29·0 = 12' 6" 66. Kleinste " " 5. = 7·0 = 2' 55" 35. | | | | |
| 15 | 368·0 | 349·0 | 19·0 | 7 35·95 | | | | | |
| 16 | 367·0 | 355·0 | 12·0 | 5 0·60 | | | | | |
| 17 | 367·0 | 351·0 | 16·0 | 6 40·80 | | | | | |

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Denkschriften der Akademie der Wissenschaften.Math.Natw.Kl.](#)
[Frueher: Denkschr.der Kaiserlichen Akad. der Wissenschaften. Fortgesetzt:](#)
[Denkschr.oest.Akad.Wiss.Mathem.Naturw.Klasse.](#)

Jahr/Year: 1860

Band/Volume: [18_1](#)

Autor(en)/Author(s): Weisse Maximilian

Artikel/Article: [Variationen der Declination der Magnetrnadel, beobachtet in Krakau. 63-98](#)