Polish Amateur Astronomical Society

Section of Observations of Positions and Occultations

International Occultation Timing Association/ European Section (IOTA/ES)

**THE CATALOG OF THE HISTORICAL OBSERVATIONS**

**OF SOLAR ECLIPSES**

FOR EUROPE AND THE NEAR EAST

by Marek Zawilski

ver.7.0

# Łódź, April 2021

This version No. 7.0 of the catalog is the revised and supplemented version No. 6.3.

Several observations have been added and some mistakes of the previous version have been corrected. First of all, the selected observations made in telescopic times were included.

**If you know any interesting historical observation of the solar eclipse not mentioned in the catalog, please inform the author - your information will be used in the next edition !**

**NO REPRODUCTION OF ANY PART OF THIS MANUSCRIPT MAY TAKE PLACE WITHOUT THE AGREEMENT OF THE AUTHOR.**

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### MAPS

## PREFACE

The catalog represents the effects of the author’s several years’ work devoted to gathering information about historical observations of solar eclipses. The present collection is concerned with the region of Europe and the Near East.

Literature on this subject includes many works relating to observations of solar eclipses but the author has not found any synthetic study which would present a list of all interesting phenomena.

Moreover, many of the stated observations have not been quoted in any known literature items.

The catalog presents a chronological list of eclipses for which it was possible to find such historical documents the analysis of which has allowed to establish or to evaluate the phase of the eclipse in a given place.

Thus, the catalog contains data for the following of eclipses :

1. total, when the source text states it beyond reasonable doubt,
2. when there is a supposition that the description may reflect exactly such phenomena, or gives other information which allows to arrive at a conclusion as to the phase of the eclipse, e.g. visibility of stars, appearance of unusual darkness, accompanying phenomena (reactions of people and animals, remarking the solar corona and protuberances),
3. partial, when this word is used in relation to the description of a phase,
4. partial, for which the moments of contacts and/or max. phase have been timed,
5. partial, described as the appearance of a solar crescent,
6. partial near the horizon,
7. partial, in regions near the path of totality, described as the appearance of a disctinct weakening of light.

Generally speaking, partial eclipses were quoted in the cases when the path of centrality was running through the countries of Europe and the Near East.

However, partial eclipses near the horizon and those with the timed contacts and maximal phase are included.

On account of this, the catalog does not include all reports which relate to partial eclipses. Of course, a large number of laconic reports which do not meet the above stated criteria have not been included, either.

The term “Near East” has been treated arbitrarily - it should be understood more broadly as encompassing the countries of North Africa and West Asia. Sometimes the data on eclipses goes beyond this area, e.g. in the case of some eclipses from the end of the 19th century, data from the areas of Siberia and South Asia were provided to ensure the continuity of data on the specific observed eclipse.

“The Collection of the Historical Descriptions of Solar Eclipses” containing source texts in their original language and in English, form an independent computer set of texts not included in the catalog. This collection is brought to the end of the 18th century.

A complete interpretation of the descriptions must be supported by the analysis of source texts. “The Collection ... “ also contains the list ofreferences on the subject.

The major part of the catalog has been prepared on the grounds of chronicle sources, while informations supplied by astronomers were rather rare.

Three sets of astronomical observations have been distinguished and enclosed at the end of this part of the catalog. The are :

1. a collection of Islamic observations from the years 829-1004,
2. a collection of observations made in West Europe in the XIVth till XVIIth century before the aid of telescopes,
3. a collection of the Polish observations from the XVth century (mainly Nicolaus Copernicus’ observations).

The invention of the telescope radically influenced astronomical observations. The number of solar eclipse observations has also increased significantly. Therefore, the set of solar observations for the telescopic period was separated and presented in a more detailed format. For this period, no separate set of source texts was prepared, which would be too extensive, replacing this information with data that would allow access to literature sources (most of which are available on the Internet).

This period dates back to 1914, when agreat solar eclipse of August 21 happened three weeks

after the outbreak of World War I.

As the supplement, the collection of maps containing paths of centrality and observation places marked, has been added at the end of the catalog.

## THE CATALOG SYSTEM

The basic part of the catalog includes solar eclipses data according to a chronological system, beginning with the earliest about which a recorded information has been found (the so called Ugarit eclipse), and ending with the last European total eclipse of the pre-telescopic era, in 1605.

Some others observations made by astronomers from 1605 till 1614 have been added, too. The first solar eclipse observed with the aid of telescopes was that of 21 May 1621. Beginning from the version 5.0, the selected observations made in telescopic times were included into the catalog.

The list states the following data for each of the eclipses :

1. the date of the eclipse according to the Gregorian calendar,
2. the place of observation

Other information is given depending on its availability :

1. the name of observer
2. Timed - the original stating of the time of the eclipse :

hd - hour of the day

CNTCS - timing of the contacts performed

SR - at sunrise

ASR - after sunrise

ASS - after sunset

BSS - before sunset

N - about noon

M - in the morning

FN - in the forenoon

AN - in the afternoon

BM - before midday

h AM/PM - hours anti/post meridiem

The next column state, among others, the sign which indicates that the source text records the information on a given subjects in an unquestionable way.

If there is some doubt but the context shows that it is very probable, the letter “C” is put - concluded.

Other signs are listed below :

T - total eclipse (C-concluded from the text)

A - annular eclipse

Dis - disappearance of the Sun

P - partial eclipse - if more detailed data concerning the magnitude of the phase, they are

designated by the following symbols :

#### CR - the Sun like the crescent Moon

CR number - number means the adequate age of the crescent Moon

fraction A - the eclipsed part of the solar disk area

fraction D - the eclipsed part of the solar disk diameter

number d - the phase in digits (12 digits = diameter of the Sun = total eclipse)

NT - nearly total eclipse

GP - greatest part of the Sun eclipsed

LP – less part of the Sun eclipsed

B - beginning remarked,

M- maximum phase estimated

E - end remarked

PH - phases of the eclipse described; these descriptions were sometimes very scanty;

G – „a great eclipse occurred”;

GD - great darkness; the term also covers such expressions as a sudden darkening of the

sky and turning the day into night ;

TW - twilight effect : distinct darkening of the sky and the earth reminding of twilight

or a cloudy day;

SV - stars visible; this term has been overused and occurred as a necessary term when describing a solar eclipse;

V - Venus remarked; Venus was remarked even during partial eclipses

and this gives basics for estimation of the phase;

WD - weather described; any information of meteorological character;

For the West-European and Polish observations the separate notation was used.

In the current version of the catalogue, the maps of centrality have been included on the map of Europe. The paths of centrality have resulted from the calculations made with the help of the Occult v.4.6.5 programme.

The data about the visiblity of eclipses at the chosen sites in Europe (calculated by this programme) have been also included.

## ACKNOWLEDGEMENTS :

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UK

**THE CATALOG OF THE HISTORICAL OBSERVATIONS OF THE SOLAR ECLIPSES**

**FOR EUROPE AND THE NEAR EAST**

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | -1222 III 5 (?) | Ugarit (?) |  |  |  |  |  |  |  |  |  |  |  | Tablet No KTU 1.78 Mus.Ant.Damascus |
| 2 | - 584 V 28 (?) | Halys river |  |  |  |  |  |  |  |  |  |  |  | Herodot : History, I |
| 3 | - 430 VIII 3 | Athens (?) |  | AN |  |  |  | CR |  |  |  |  |  | Thucidydes: History of the Peloponnesian War, II |
| 4 | - 393 VIII 14 | near Chaeroneia | Xenophon |  |  |  |  | CR |  |  |  |  |  | Xenophon : Hellenica, IV |
| 5 | -368 IV 11 | Babylon |  | 24m ASS |  |  |  | 1/3 D |  |  |  |  |  | Tablet No BM 37097, British Museum |
| 6 | - 321 IX 26 | Babylon |  | 12m BSS |  |  |  | B |  |  |  |  |  | Tablet No BM 34093, British Museum |
| 7 | - 309 VIII 15 | Mediter. Sea | Agathocles |  |  |  |  |  |  |  |  |  |  | Diodori Siculi Bibliothecae Historicae |
| 8 | -280 I 30 | Babylon |  | SR  80m ASR |  |  |  | 2d  E |  |  |  |  |  | Tablet No BM 41660, British Museum |
| 9 | -253 I 31 | Babylon |  | 3h44m BSS  2h 56m BSS  2h12m BSS |  |  |  | B  M  E |  |  |  |  |  | Tablet No BM 34278, British Museum |
| 10 | -248 V 4 | Babylon |  | 6h ASR |  |  |  | B  2/3 A |  |  |  |  |  | Tablets No BM 45723, 32154, British Museum |
| 11 | -240 XI 28 | Babylon |  | BSS |  |  |  | E |  |  |  |  |  | Tablet No BM 41522, British Museum |
| 12 | -194 VI 6 | Babylon |  | 4h ASR |  |  |  | B  4d |  |  |  |  |  | Tablet No BM 34048, British Museum |
| 13 | -189 III 14 | Babylon |  | 2h ASR  3h ASR  4h ASR |  |  |  | B  4.5d  E |  |  |  | ? |  | Tablet No BM 33812, British Museum |
| 14 | - 187 VII 17 | Roma |  | 3-4 hd |  |  |  |  |  |  |  |  |  | Titus Livius : Ab urbe condita, XXXVIII |
| 15 | -169 VII 28 | Babylon |  | 80mBSS  32mBSS |  |  |  | B  1/3A? |  |  |  |  |  | Tablet No BM 35387, British Museum |
| 16 | -165 V 17 | Babylon |  |  |  |  |  | 4.5d |  |  |  |  |  | Tablet No BM 32844, British Museum |
| 17 | - 135 IV 15 | Babylon |  | 1h36m ASR  2h48m ASR  3h56m ASR |  |  |  | B  M  E |  |  |  |  |  | Tablets No BM 34034, 45745, British Museum |
| 18 | -128 XI 20 (?) | Hellespont  Alexandria |  |  |  |  |  | 4/5 D |  |  |  |  |  | Pappus : Commentary on the „Almagest” as a quotation of the lost Hipparchus’ treatise. |
| 19 | 29 XI 24 (?) | Nicaea (?) |  | 6 hd |  |  |  |  |  |  |  | \* |  | Phlegon of Tralles : Olympiades |
| 20 | 71 III 20 (?) | Chaeroneia (?) | Plutarch (?) | N |  |  |  |  |  |  |  | \* |  | Plutarch : The Face of the Moon |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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| 21 | 237 IV 12 (?) | Roma |  |  |  |  |  |  |  |  |  |  |  | Historiae Augustae scriptores 6. Julius Capitolinus |
| 22 | 364 VI 16 | Alexandria | Theon | CNTCS |  |  |  |  |  |  |  |  |  | Theon : Commentary on the Almagest |
| 1 | 447 XII 23 (?) | (France) |  |  |  |  |  | 2/3 A |  |  |  |  |  | Gregorii Turoniensis Historia |
| 2 | 458 V 28 | (Galicia) | Hydiatus | 4-6 hd |  |  |  | CR 5-6 |  |  |  |  |  | Hydatii Lemici Chronicon |
| 3 | 464 VII 20 | (Galicia) | Hydiatus | 3-6 hd |  |  |  | CR 5 |  |  |  |  |  | Hydatii Lemici Chronicon |
| 4 | 484 I 14 | Athens (?) | Marinus | M |  |  |  |  |  |  |  |  |  | Marinus Neapolitanus : Vita Procli |
| 5 | 540 VI 20 | Roma (?) |  |  |  |  |  |  |  |  |  |  |  | Bedae Venerabilii Historia Ecclesiastica |
| 6 | 563 X 3 | Clermont (?) | Gregory |  |  |  |  | 3/4 A |  |  |  |  |  | Gregorii Turoniensis Historia |
| 7 | 590 X 4 | Clermont (?) | Gregory |  |  |  |  | CR5 |  |  |  |  |  | Gregorii Turoniensis Historia |
| 8 | 590 X 4 | Constantinople |  |  |  |  |  | NT |  |  |  |  |  | Theophylacti Simocattae Historia |
| 9 | 592 III 19 | Dijon (?) |  |  |  |  |  | 2/3 A |  |  |  |  |  | Fredegarii Scholastici Chronica |
| 10 | 594 VII 23 | (Ireland) |  | M |  |  |  |  |  | ♦ |  |  |  | Annals of Ulster |
| 11 | 655 IV 12 | (Spain) |  | N |  |  |  |  |  |  |  |  |  | Isidori episc.Hisp. Historia,cont.Hisp. |
| 12 | 693 X 5 | Constantinople |  |  |  |  |  |  |  |  |  |  |  | Georgios Hamartolos : Historia |
| 13 | 693 X 5 | Constantinople |  | 3 hd |  |  |  |  |  |  |  |  |  | Theophanis Chronographia |
| 14 | 718 VI 3 | (Spain) |  | 7-9 hd |  |  |  |  |  |  |  |  |  | Isidori episc.Hisp. Historia,cont.Hisp. |
| 15 | 733 VIII 14 | Jarrow (?) |  | 3 hd |  |  |  | NT |  |  |  |  |  | Bedae Venerabilii Historia Ecclesiastica |
| 16 | 812 V 14 | (Syria) |  | 9-11 hd |  |  |  |  |  |  |  |  |  | Chronicle by Michael the Syrian,XII |
| 17 | 833 IX 17 | (Andalusia) |  | AN |  |  |  |  |  |  |  |  |  | Ibn ‘IdhārīAl-Bayān al-Mughrib fi Akhbār Ahl-Andalus wa’l-Maghrib |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 840 V 5 | Bergamo | Andrea | 9 hd | C |  |  |  |  |  |  |  |  | Andreae Bergomatis Chronicon |
| 2 | 840 V 5 | Como |  |  |  |  |  |  |  |  |  |  |  | Annali Sacri della citta di Como |
| 3 | 840 V 5 | Brescia |  | N |  |  |  |  |  |  |  |  |  | Chronicon Brixiense |
| 4 | 840 V 5 | Ravenna | Agnellus | 9 hd |  |  |  |  |  |  |  |  |  | Agnelli Liber pontif.eccl.Ravennatis |
| 5 | 840 V 5 | Lyon |  | 8 hd |  |  |  |  |  |  |  |  |  | Annales Lugdunenses |
| 6 | 840 V 5 | Xanten |  | 9 hd |  |  |  |  |  |  |  |  |  | Annales Xantenses |
| 7 | 840 V 5 | (Bavaria) |  |  |  |  |  |  |  |  |  |  |  | Vita Hludowici Imperatoris |
| 8 | 840 V 5 | (Bavaria) |  | 7-8 hd |  |  |  |  |  |  |  |  |  | Ruodolfi Fuldensis Annales |
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| 1 | 873 VII 28 | Neyshabur | al-Iranshahri |  |  | ♦ |  |  |  |  |  |  |  | al-Biruni : al-Qanun al-Masudi |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 878 X 29 | Reykyavik (?) |  | 9 hd |  |  |  |  |  |  |  | \* |  | Annales Islandorum regii |
| 2 | 878 X 29 | Fulda (?) |  | 9 hd |  |  |  |  |  | ♦ |  | \* |  | Annales Fuldenses, pars tertia |
| 3 | 878 X 29 | S.Amand |  | 9 hd |  |  |  |  |  |  |  | \* |  | Annales Elnonenses Minores |
| 4 | 878 X 29 | St.Pierre-de Beze |  | 9 hd |  |  |  |  |  |  |  | \* |  | Annales Besuenses |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 885 VI 16 | (Ireland) |  |  |  |  |  |  |  |  |  | \* |  | Rerum hibernicarum scriptores veteres, vol.IV |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 912 VI 17 | Cordoba |  | BSS | ♦ |  | ♦ |  |  | ♦ |  | \* |  | ibn-Hayyan : al Muqtabis |
| 2 | 912 VI 17 | Fez |  | BSS | ♦ |  |  |  |  |  |  | \* |  | Ibn Abi Zar’: Rawḍ al-qirṭās |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 939 VII 19 | Olmos/Cueva de la Mora |  | FN |  |  |  | NT |  |  |  |  |  | ibn-Hayyan : al-Muqtabis |
| 2 | 939 VII 19 | (Spain) |  |  |  |  |  |  |  | ♦ |  |  |  | Chronicon de Sampiro |
| 3 | 939 VII 19 | Monte Cassino |  |  |  |  |  |  |  | ♦ |  |  |  | Annales Casinenses |
| 4 | 939 VII 19 | Bari |  | 3 hd |  |  |  |  |  |  |  |  |  | Lupus Protospatarius Barensis  Rerum in Regno Neapolitano gestarum breve chronicon |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 968 XII 22 | Constantinople | Leo Deacon | 4 hd | ♦ |  |  |  | ♦ | ♦ |  | \* | ♦ | Leonis Deaconi Historia |
| 2 | 968 XII 22 | Corfu Island | Liudprand |  |  |  | ♦ |  |  |  |  |  |  | Liudprandus : Relatio de legatione... |
| 3 | 968 XII 22 | Monte Cassino |  | 3hd |  |  |  |  |  |  |  | \* |  | Chronica monasterii Casinensis |
| 4 | 968 XII 22 | (France) |  | 1-3 hd |  |  |  |  |  |  |  | \* |  | Chronicon Floriacense |
| 5 | 968 XII 22 | (Calabria) |  |  |  |  |  |  |  | ♦ |  |  |  | Anselme de Liége  Gesta episcoporum Tungrensium, Traiectensium et Leodiensium |
| 6 | 968 XII 22 | (Calabria) |  |  |  |  |  |  |  |  |  |  |  | Reineri monachi Vita Evracli |
| 7 | 968 XII 22 | (Calabria) |  |  |  |  |  |  |  |  |  |  |  | Rupert de Deutz  Chronicon sancti Laurentii Leodiensis |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 993 VIII 20 | Fez |  |  | **?** |  |  | **?** |  |  |  |  |  | Ibn Abi Zar’: Rawḍ al-qirṭās |
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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1033 VI 29 | S.Amand |  | 8 hd |  |  |  | CR1 | ♦ |  |  |  |  | Annales Elnonenses Minores |
| 2 | 1033 VI 29 | Dijon |  | AN |  |  |  |  |  |  |  | V |  | Annales S.Benigni Divionensis |
| 3 | 1033 VI 29 | Cluny | Rudolfus | 6-8 hd |  |  |  | CR4 |  |  |  |  |  | Glabri Rudolphi Historia |
| 4 | 1033 VI 29 | Fleury | Helgaldus |  |  |  |  | CR4 |  | ♦ |  |  |  | Helgaldi Floriacenses Epitoma v.Roberti |
| 5 | 1033 VI 29 | Monte Cassino | Leo Marsicano |  |  |  |  | GP |  |  |  |  |  | Chronica Montis Casinensis |
| 6 | 1033 VI 29? | Edessa (?) |  |  | ♦ |  |  |  |  |  |  | \* |  | Chronique de Matthieu d'Édesse |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1061 VI 20 | Baghdad |  | 2h PM | ♦ |  |  |  |  | ♦ |  |  |  | ibn al-Jawzi : al-Muntazam |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1079 VII 1 | Coimbra |  |  |  |  |  |  |  | ♦ |  | \* |  | Chronicon Complutense sive Altobacense |
| 2 | 1079 VII 1 | Jan (?) |  |  | ♦ |  |  |  |  |  |  |  |  | al-Gahani : The treatise on the eclipse |
| 3 | 1079 VII 1 | Fez |  |  |  |  |  | GP |  |  |  |  |  | Ibn Abi Zar’: Rawḍ al-qirṭās |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1086 II 16 | (Sicily) |  | N |  |  |  |  |  | ♦ |  |  |  | [Matteo Camera](http://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Matteo+Camera%22): Annali delle Due Sicilie dall'origine e fondazione della monarchia fino a tutto il regno dell'augusto sovrano Carlo III. Borbone |
| 2 | 1086 II 16 | Karnobat (?) | Alexi Komnenos |  | ♦ |  |  |  |  |  |  |  |  | Anna Comnena: The Alexiad |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1093 IX 23 | Schaffhausen | Bernoldus | AN |  |  |  |  |  |  |  |  |  | Bernoldi Chronicon |
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|  | **Date** | Place | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1113 III 19 | Kiev (?) |  |  |  |  |  | CR |  |  |  |  |  | Povest' vremennykh let |
| 2 | 1113 III 19 | Jerusalem | Foucher | SR-1 hd |  |  |  | 3/4 A |  |  |  |  |  | Foucher de Chartres : Hist.Iherosolymitana |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1115 VII 23 | Kiev (?) |  |  |  |  |  | CR |  |  |  |  |  | Povest' vremennykh let |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1124 VIII 11 | Oxfordshire (?) |  |  |  |  |  | CR |  |  |  |  |  | Chronicon Thomae Wykes |
| 2 | 1124 VIII 11 | Brugges | Galbertus | 9 hd |  |  |  |  |  |  |  |  |  | Galbertus : Passio Caroli Comitis |
| 3 | 1124 VIII 11 | Gr. Novgorod |  | AN |  |  |  |  |  |  |  |  |  | Novgorodskaya I. Letopis' |
| 4 | 1124 VIII 11 | Kiev |  | 9 hd |  |  |  | NT |  |  |  |  |  | Lavrentevskya Letopis' |
| 5 | 1124 VIII 11 | Jerusalem | Foucher | 9 hd |  |  |  | CR |  |  |  |  |  | Foucher de Chartres : Historia Iherosolymitana |
|  | **Date** | Place | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1133 VIII 2 | Melrose |  |  |  |  |  |  |  |  |  |  |  | Chronicon de Mailros |
| 2 | 1133 VIII 2 | Eng. Channel (?) |  |  |  |  |  | CR3 |  |  |  |  |  | Anglo-Saxon Chronicle |
| 3 | 1133 VIII 2 | Malmesbury (?) | William | 6 hd |  |  |  |  |  |  |  |  |  | Willelmi Malmesbiriensis Historia Novella |
| 4 | 1133 VIII 2 | the sea-shore of the Eng.Channel | John of Worcester (?) | N |  |  |  | CR |  |  |  |  |  | Ioanni Wigoriensis ex Chronicorum Chronica |
| 5 | 1133 VIII 2 | (England) | John of Worcester (?) | N |  |  |  |  |  |  |  |  |  | Ioanni Wigoriensis ex Chronicorum Chronica |
| 6 | 1133 VIII 2 | Egmond aan Zee |  | 6 hd |  |  |  |  |  |  |  |  |  | Annales Egmundani |
| 7 | 1133 VIII 2 | Fosse |  | N |  |  |  |  |  |  |  |  |  | Annales Fossenses |
| 8 | 1133 VIII 2 | Kloosterrade |  | N |  |  |  |  |  |  |  |  |  | Annales Rodenses |
| 9 | 1133 VIII 2 | Gembloux | Anselmus | N |  |  |  |  |  |  |  |  |  | Anselmi Cont.Sigeberti |
| 10 | 1133 VIII 2 | Liege |  | N |  |  |  |  |  |  |  |  |  | Annales s.Iacobi Leodiensis |
| 11 | 1133 VIII 2 | Bourbourg |  | 6 hd |  |  |  |  |  |  |  |  |  | Sigeberti Chronographiae cont.Burburgensis |
| 12 | 1133 VIII 2 | Augsburg (?) |  |  | C |  |  |  |  |  |  |  |  | Honorii Augustodensis Elucidarium sive Summa Totius |
| 13 | 1133 VIII 2 | Cambrai |  | 6 hd | C |  |  |  |  |  |  |  |  | Chronicon S.Andreae Cameracensis |
| 14 | 1133 VIII 2 | Heilsbronn |  | N |  |  |  |  |  |  |  |  |  | Notae Halesbrunnenses |
| 15 | 1133 VIII 2 | Corvei |  | N | C |  |  |  |  |  |  |  |  | Notae Corbeienses |
| 16 | 1133 VIII 2 | Würzburg |  | N |  |  |  |  |  |  |  |  |  | Annales Herbipolenses |
| 17 | 1133 VIII 2 | Zwiefalten (?) |  | N |  |  |  |  |  |  |  |  |  | Martin Krauss: Annales Suevici |
| 18 | 1133 VIII 2 | Fulda (?) |  | 9 hd |  |  |  |  |  |  |  |  |  | Mariani Scotii Chronicon |
| 19 | 1133 VIII 2 | Paderborn |  | 6 hd |  |  |  |  |  |  |  |  |  | Ann.Hildesh. cont. Paderbornensis |
| 20 | 1133 VIII 2 | Disibodenberg |  | 7 hd |  |  |  |  |  |  |  |  |  | Annales Sancti Disibodi |
| 21 | 1133 VIII 2 | Floreffe |  | N |  |  |  |  |  |  |  |  |  | Annales Floreffienses |
| 22 | 1133 VIII 2 | Freising |  | N |  |  |  |  |  |  |  |  |  | Annales S.Stephani Frisingensis |
| 23 | 1133 VIII 2 | Hirschau |  | 6 hd |  |  |  |  |  |  |  |  |  | Annales HirsaugensesirsaugensesH |
| 24 | 1133 VIII 2 | Brauweiler |  | 6 hd |  |  |  |  |  |  |  |  |  | Annales Brunwilarenses |
| 25 | 1133 VIII 2 | Reichersberg |  | 7-8 hd |  |  |  |  |  |  |  |  |  | Annales Reichspergenses |
| 26 | 1133 VIII 2 | Salzburg |  | N |  |  |  |  |  |  |  |  |  | S.Rudberti Salisburgenses Annales Breves |
| 27 | 1133 VIII 2 | Admont |  | N |  |  |  |  |  |  |  |  |  | Annales Admuntenses |
| 28 | 1133 VIII 2 | Praha |  |  |  |  |  | NT |  |  |  |  |  | Canonici Vissegradensis Cont.Cosmae |
| 29 | 1133 VIII 2 | Monte Cassino |  | 6-9 hd |  |  |  | NT |  |  |  |  |  | Annales Casinenses |
| 30 | 1133 VIII 2 | Jerusalem |  |  |  |  |  |  |  |  |  |  |  | Chronicon S.Andreae Cameracensis |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1140 III 20 | Malmesbury (?) | William |  |  |  |  |  |  |  |  |  |  | Willelmi Malmesbiriensis Historia Novella |
| 2 | 1140 III 20 | Gembloux |  | AN |  |  |  |  |  |  |  |  |  | Siegeberti continuatio Gemblacensis |
| 3 | 1140 III 20 | Wales |  |  |  |  |  |  |  |  |  | \* |  | A Medieval Welsh Chronicle |
| 4 | 1140 III 20 | (Denmark) |  |  |  |  |  |  |  |  |  |  |  | Most of Danish annals |
| 5 | 1140 III 20 | Gr.Novgorod |  | AN |  |  |  | CR4 |  |  |  |  |  | Novgorodskaya I.Letopis' |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1147 X 26 | Magdeburg |  | N |  |  |  | CR |  |  |  |  |  | Annales Magdeburgenses |
| 2 | 1147 X 26 | Brauweiler |  |  |  | ? |  |  |  |  |  |  |  | Annales Brunwilarenses |
| 3 | 1147 X 26 | Braunschweig |  |  |  |  |  | CR |  |  |  |  |  | Bothonis Chronicon BrunsvicensisPicturatum |
| 4 | 1147 X 26 | Constantinople |  |  |  |  |  | 0.5A |  |  |  |  |  | S. Bernardi abbatis primi Clarae-Vallensis Opera omnia, t.4. |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1153 I 26 | Erfurt |  |  |  |  |  | CR |  |  |  |  |  | Chronica S.Petri Erfordensis Moderna |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1176 IV 11 | Antakya | Michael | M |  |  |  |  |  |  |  |  |  | Chronicle by Michael the Syrian |
| 2 | 1176 IV 11 | Cizre | ibn al-Athir | FN |  |  |  |  |  |  |  |  |  | ibn al-Athir : al-Kamil |
| 3 | 1176 IV 11 | Orontes river | Abu Shama |  | C |  |  |  |  |  |  |  |  | Abu Shama : Kitab al-Rawdatain ... |
| 4 | 1176 IV 11 | Tarsus (?) |  |  | C |  |  |  |  |  |  |  |  | empad : Chronicle of Little Armenia |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1178 IX 13 | Vigeois | Gaufredus | 5-6 hd |  |  |  | CR2-3 |  |  |  | V |  | Chronico Gaufredi Vosiensis |
| 2 | 1178 IX 13 | Montpellier |  |  |  |  |  |  |  |  |  |  |  | Les chroniques clestes du Petit Thalamus |
| 3 | 1178 IX 13 | Bayonne |  |  |  |  |  |  |  |  |  |  |  | Nouvelle chronique de la ville de Bayonne, par un Bayonnais |
| 4 | 1178 IX 13 | Tuolouse |  |  |  |  |  |  |  |  |  |  |  | Chronica magistri Guillelmi de Podio |
| 5 | 1178 IX 13 | Catania (?) |  | 9 hd |  |  |  |  |  |  |  |  |  | Annales Siculi |
| 6 | 1178 IX 13 | Melrose |  | N |  |  |  | NT |  |  |  |  |  | Chronicon de Mailros |
| 7 | 1178 IX 13 | Canterbury | Gervase | 6 hd |  |  |  |  |  |  |  |  |  | Gervasii Cantauriensis Chronica |
| 8 | 1178 IX 13 | Angers (?) |  |  |  |  |  | CR |  |  |  |  |  | Chronicon S.Sergii Andegavensis |
| 9 | 1178 IX 13 | La Cava |  | N |  |  |  | GP |  |  |  |  |  | Annales Cavenses |
| 10 | 1178 IX 13 | Valencia |  |  |  |  |  |  |  |  |  |  |  | Obras chronologicas de don Gaspar Ibañez deSegovia Peralta i Mendoza |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1185 V 1 | Melrose |  | 3h PM |  |  |  |  |  |  |  |  |  | Chronicon de Mailros |
| 2 | 1185 V 1 | (Scotland) |  | N |  |  |  |  |  |  |  |  |  | Chronica Magistri Rogeri de Hoveden |
| 3 | 1185 V 1 | Worcester |  |  |  |  |  |  |  |  |  |  |  | Annales prioratus de Wigornia |
| 4 | 1185 V 1 | Canterbury |  | 7 hd |  |  |  |  |  |  |  |  |  | Gervasii Cantauriensis Chronica |
| 5 | 1185 V 1 | (Norway) |  |  |  |  |  |  |  |  |  |  |  | Ten Icelandic Annals |
| 6 | 1185 V 1 | (Russia) |  | AN | C |  |  |  |  |  |  |  |  | Lavrentevskaya Letopis' |
| 7 | 1185 V 1 | Gr.Novgorod |  | 10 hd |  |  |  |  |  |  |  |  |  | Novgorodskaya I. Letopis' |
| 8 | 1185 V 1 | Donetz river |  | AN |  |  |  | CR |  |  |  |  |  | Ipatyevskaya Letopis' |
| 9 | 1185 V 1 | St.Denis (?) | Rigordo | 9 hd |  |  |  |  |  |  |  |  |  | Rigordo : De gestis Philippi II.Augusti |
| 10 | 1185 V 1 | (Wales) |  |  |  |  |  |  |  | **?** |  |  | **?** | A Medieval Welsh Chronicle |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1187 IX 4 | Galich |  |  |  |  |  |  |  |  |  | \* |  | Ipatyevskaya Letopis' |
| 2 | 1187 IX 4 | Gr.Novgorod |  | M |  |  |  | CR |  |  |  |  |  | Novgorodskaya I,II. Letopis’ |
| 3 | 1187 IX 4 | (Sweden (?)) |  |  |  |  |  |  |  |  |  |  |  | Hamsfortii Chronologia secunda |
| 4 | 1187 IX 4 | St.Denis (?) | Rigordo | 3 hd |  |  |  |  |  |  |  |  |  | Rigordo : De gestis Philippi II.Augusti |
| 5 | 1187 IX 4 | Efrurt |  | 6 hd |  |  |  | CR24 |  |  |  |  |  | Chronica Sampetri Erfurtense |
| 6 | 1187 IX 4 | Canterbury | Gervase | 6 hd |  |  |  |  |  |  |  |  |  | Gervasii Cantauriensis Chronica |
| 7 | 1187 IX 4 | Nangis |  |  |  |  |  | C |  |  |  |  |  | Chronique latine de Guillaume de Nangis |
| 8 | 1187 IX 4 | Jerusalem |  |  |  |  |  |  |  |  |  |  |  | De Kantzag: Histoire d’Arménie |
| 9 | 1187 IX 4 | (Near East) |  |  |  |  |  |  |  |  |  |  |  | Chronologia Roberti Altissiodorensi |
| 10 | 1187 IX 4 | (Near East) |  |  |  |  |  |  |  |  |  |  |  | Michaud J.F.: History of the crusadsers |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1191 VI 23 | Durham (?) | Roger |  |  |  |  |  |  |  |  |  |  | Chronica Magistri Rogeri de Hoveden |
| 2 | 1191 VI 23 | Anchin |  | 6 hd |  |  |  | CR3 |  |  |  |  |  | Sigeberti cont.Aquicinctina |
| 3 | 1191 VI 23 | Freiburg |  | 6 hd |  |  |  |  |  |  |  |  |  | Annales Sancti Trudperti |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1207 II 28 | (Spain) |  |  |  |  |  |  |  |  |  |  |  | Juan de Mariana: Historia general de España |
| 2 | 1207 II 28 | St.Denis (?) | Rigordo | 6 hd |  |  |  |  |  |  |  |  |  | Rigordo : De gestis Philippi II.Augusti |
| 3 | 1207 II 28 | Neuf-Moustier | Albericus | 5 hd |  |  |  |  |  |  |  |  |  | Chronicon Alberici monachi Trium Fontium |
| 4 | 1207 II 28 | Köln |  | 10 hd |  |  |  |  |  |  |  |  |  | Chronica Regia Coloniensis |
| 5 | 1207 II 28 | Hirschau |  | 3 hd |  |  |  |  |  |  |  |  |  | Chronicon Hirsaugense |
| 6 | 1207 II 28 | Gr.Novgorod |  | AN |  |  |  | CR1 |  |  |  |  |  | Lavrentevskaya I.Letopis |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1230 V 14 | Belvoir (?) |  | SR |  |  |  |  |  |  |  |  |  | Roger of Wendover : Flores Historiarum |
| 2 | 1230 V 14 | (Russia) |  |  |  |  |  | CR3 |  |  |  |  |  | Lavrentevskaya Letopis' |
| 3 | 1230 V 14 | Kiev |  | 3 hd |  |  |  | CR |  |  |  |  |  | Lavrentevskaya Letopis' |
| 4 | 1230 V 14 | Gr.Novgorod |  | M |  |  |  | CR5 |  |  |  |  |  | Novgorodskaya I.Letopis’ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1236 VIII 3 | (Russia) |  | AN |  |  |  | CR5 |  |  |  |  |  | Novgorodskaya I.Letopis' |
| 2 | 1236 VIII 3 | (Russia) |  |  |  |  |  | CR4 |  |  |  |  |  | Lavrentevskaya Letopis' |
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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1239 VI 3 | Coimbra |  | 6-9 hd | C |  |  |  |  |  |  |  |  | Chronicon Conimbricense.II |
| 2 | 1239 VI 3 | Toledo |  | 6 hd |  |  |  |  |  |  |  |  |  | Anales Toledanos Segundos |
| 3 | 1239 VI 3 | Cerrato | Emanuel | N |  |  |  |  |  |  |  |  |  | Chronicon del Cerratense |
| 4 | 1239 VI 3 | Cardeña |  | N |  |  |  |  |  |  |  |  |  | Las Memorias de Cardeña |
| 5 | 1239 VI 3 | Pamplona |  | N |  |  |  |  |  |  |  |  |  | Iohannis Longi Chronica mon.S.Bertini |
| 6 | 1239 VI 3 | Perpignan |  |  |  |  |  |  |  |  |  |  |  | Cronicó de Perpinyà |
| 7 | 1239 VI 3 | Montpellier | King Jayme | N-9 hd |  |  |  |  |  |  |  |  |  | Anales de la Corona de Aragon |
| 8 | 1239 VI 3 | Montpellier | King Jayme | N |  |  |  |  |  |  |  |  |  | Les chroniques clestes du Petit Thalamus |
| 9 | 1239 VI 3 | Montpellier |  | N |  |  |  |  |  |  |  |  |  | Llibre dels Fets |
| 10 | 1239 VI 3 | Digne |  | N |  |  |  |  |  |  |  |  |  | P.Gassendi : Notitia Ecclesiae Diniensis |
| 11 | 1239 VI 3 | Toulouse |  | 6 hd |  |  |  |  |  |  |  |  |  | Chronica magistri Guillelmi de Podio |
| 12 | 1239 VI 3 | Milano |  | N |  |  |  | NT |  |  |  |  |  | Memoriae Mediolanenses |
| 13 | 1239 VI 3 | Genova | Bartholomeo | N | C |  |  |  |  |  |  |  |  | Bartholomei Scribae Annales |
| 14 | 1239 VI 3 | Voraggio (?) | Jacobus |  | C |  |  |  |  |  |  |  |  | Iacobi de Voragine Chronico Legendare |
| 15 | 1239 VI 3 | Parma |  | N |  |  |  |  |  |  |  |  |  | Annales Parmenses Maiores |
| 16 | 1239 VI 3 | Siena |  | 6 hd |  |  |  |  |  |  |  |  |  | Annales Senenses |
| 17 | 1239 VI 3 | Siena |  |  |  |  |  |  |  |  |  |  |  | Archivio del Duomo di Siena |
| 18 | 1239 VI 3 | Reggio d'Emilia |  | N |  |  |  |  |  |  |  |  |  | Memoriae Potestatum Regiensium |
| 19 | 1239 VI 3 | Modena |  | N |  |  |  |  |  |  |  |  |  | Annales Veteres Mutinensium |
| 20 | 1239 VI 3 | Cesena |  | N |  |  |  |  |  |  |  |  |  | Annales Caesenates |
| 21 | 1239 VI 3 | Bergamo |  | 9 hd |  |  |  |  |  |  |  |  |  | Annales Bergomates |
| 22 | 1239 VI 3 | Ravenna |  | 9 hd |  |  |  |  |  |  |  |  |  | Ricobaldi Historia Imperatorum |
| 23 | 1239 VI 3 | Ravenna |  | N | C |  |  |  |  |  |  |  |  | Spicilegium Ravennatis Historiae |
| 24 | 1239 VI 3 | Firenze |  | 9 hd |  |  |  |  |  |  |  |  |  | Ricordano Malespini : Istoria Fiorentina |
| 25 | 1239 VI 3 | Arezzo | Ristoro | 6 hd |  |  |  |  |  |  |  |  |  | Ristoro d'Arezzo : Della composizione del mondo |
| 26 | 1239 VI 3 | Lucca | Salimbene | 9 hd | C |  |  |  |  |  |  |  |  | Salimbene de Adam : Chronicon |
| 27 | 1239 VI 3 | Lucca |  | N | C |  |  |  |  |  |  |  |  | Ptolomaei Lucensi Historia Ecclesiastica |
| 28 | 1239 VI 3 | Split | Thomas |  |  |  |  |  |  |  |  |  |  | Thomae Spalatensis Historia |
| 29 | 1239 VI 3 | Altaich | Hermann |  |  |  |  |  |  |  |  |  |  | Hermanni Abbatis Altahensis Chronicon |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1241 X 6 | Stade | Albertus | AN |  |  |  |  |  |  |  |  |  | Annales Stadenses |
| 2 | 1241 X 6 | Tewkesbury |  |  |  |  |  |  |  |  |  |  |  | Annales de Theokesberia |
| 3 | 1241 X 6 | Erfurt |  | 11 h ASS |  |  |  |  |  |  |  |  |  | Chronica S.Petri Erfordensis Moderna |
| 4 | 1241 X 6 | Lobbes |  |  |  |  |  |  |  |  |  | V |  | Annales Laubienses Continuatio |
| 5 | 1241 X 6 | Lambach |  |  |  |  |  |  |  |  |  |  |  | Ann.Mell. Continuatio Lambacensis |
| 6 | 1241 X 6 | Freising |  | N |  |  |  |  |  |  |  |  |  | Annales S.Stephani Frisingensis |
| 7 | 1241 X 6 | Würzburg |  |  |  |  |  |  |  |  |  |  |  | Annales Herbipolenses Minores |
| 8 | 1241 X 6 | Corvei |  | 10 hd |  |  |  |  |  |  |  |  |  | Notae Corbeienses |
| 9 | 1241 X 6 | Worms |  |  |  |  |  |  |  |  |  |  |  | Annales Breves Wormatienses |
| 10 | 1241 X 6 | Scheftlarn |  |  |  |  |  |  |  |  |  |  |  | Annales Scheftlarienses Maiores |
| 11 | 1241 X 6 | Scheftlarn |  | N |  |  |  |  |  |  |  |  |  | Annales Scheftlarienses Minores |
| 12 | 1241 X 6 | Niederaltaich |  | N |  |  |  |  |  |  |  |  |  | Notae Altahenses |
| 13 | 1241 X 6 | Reichersberg |  | N |  |  |  |  |  |  |  |  |  | Chronicon magni Presb.Reicherspergensis |
| 14 | 1241 X 6 | Windberg |  | N |  |  |  |  |  |  |  |  |  | Annales Windbergenses |
| 15 | 1241 X 6 | Weltenburg |  | 9 hd |  |  |  |  |  |  |  |  |  | Notae Weltenburgenses |
| 16 | 1241 X 6 | Ensdorf |  | 9 hd |  |  |  |  |  |  |  |  |  | Annales Ensdorfenses |
| 17 | 1241 X 6 | Ellwangen |  | N |  |  |  |  |  |  |  |  |  | Chronicon Elwacense |
| 18 | 1241 X 6 | Salzburg |  |  |  |  |  |  |  |  |  |  |  | Annales S.Rudberti Salisburgensis |
| 19 | 1241 X 6 | Praha |  | AN |  |  |  |  |  |  |  |  |  | Annales Pragensium Cont.Cosmae |
| 20 | 1241 X 6 | Heiligenkreuz |  | 9 hd |  |  |  |  |  |  |  |  |  | Ann.Austr. cont.Sancrucensis secunda |
| 21 | 1241 X 6 | Wien |  | 9 hd |  |  |  |  |  |  |  |  |  | Ann.Austr. cont.Praedic.Vindobonensium |
| 22 | 1241 X 6 | Admont |  | 9 hd |  |  |  |  |  |  |  |  |  | Ann.Austr. cont. Admuntensis |
| 23 | 1241 X 6 | Split | Thomas |  | C |  |  |  |  |  |  |  |  | Thomae Spalatensis Historia |
| 24 | 1241 X 6 | Cairo |  | 8-9 hd |  |  |  |  |  |  |  |  |  | Synaxarium Alexandrinum |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1255 XII 30 | Nicea |  | 3 h PM |  |  |  |  |  |  |  |  |  | Georgii Pachymeris De Michaele et Andronico Palæologis |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1263 VIII 5 | Orkney |  |  |  | ? |  | CR |  |  |  |  |  | Haconar Saga |
| 2 | 1263 VIII 5 | Salzburg |  |  |  |  |  |  |  |  |  |  |  | Chronicon Salisburgense |
| 3 | 1263 VIII 5 | Bologna |  |  |  |  |  |  |  |  |  |  |  | Cherubino Ghirardacci Historia di Bologna |
| 4 | 1263 VIII 5 | Bohemia |  |  |  |  |  | CR |  |  |  |  |  | Chronocon Boemiae auctore Neplachone abate Opatoviense |
| 5 | 1263 VIII 5 | Erfurt |  |  |  | ? |  |  |  |  |  |  |  | Cronica sancti Petri Erfordensis moderna |
| 6 | 1263 VIII 5 | Kraków (?) |  |  |  |  |  |  | G |  |  |  |  | Annales Sandivogii |
| 7 | 1263 VIII 5 | Roma |  |  |  |  |  |  |  |  |  |  |  | Vitae romanorum Pontificum |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1267 V 25 | Constantinople |  | 3h AM |  |  |  |  |  |  |  |  |  | Nicephorii Gregorae Byzantinae Historiae |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1283 I 30 | Iran |  | 4.3-7.5 ASR |  |  |  | CNTS |  |  |  |  |  | A treatise by al-Wabkanawi |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1290 IX 5 | Erfurt |  | 3 hd |  |  |  |  |  |  |  |  |  | Chronica S.Petri Erfordensis Moderna |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1295 XI 8 | Fez |  |  |  |  |  |  |  |  |  |  |  | Ibn Abi Zar’: Rawḍ al-qirṭās |
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| 1 | 1310 I 31 | Erfurt |  |  |  |  |  |  |  |  |  |  |  | Chronica S.Petri Erfordensis Moderna |
| 2 | 1310 I 31 | Avignon |  | 8 hd |  |  |  |  |  |  |  |  |  | Ptolemaei Lucensi Historia Ecclesiastica |
| 3 | 1310 I 31 | St.Denis |  | 1:24 pm |  |  |  |  |  |  |  |  |  | Chronique latine de Guillaume de Nangis |
| 4 | 1310 I 31 | Paris | G.de la Marche | 7 hd |  |  |  |  |  |  |  |  |  | Treatise by G.de la Marche |
| 5 | 1310 I 31 | Modena | J. de Bazano | AN |  |  |  | 3/4 |  |  |  |  |  | Johannes de Bazano : Chronicon Mutinense |
| 6 | 1310 I 31 | Bologna |  | AN |  |  |  | 3/4 |  |  |  |  |  | Cherubino Ghirardacci Historia di Bologna |
| 7 | 1310 I 31 | Asti | G.Ventura | AN |  |  |  | 1/2 A |  |  |  |  |  | Memoriale Guilielmi Venturae |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1312 VII 5 | Eastern Iceland |  |  |  |  |  |  |  |  |  |  |  | Oddaverja annal |
| 2 | 1312 VII 5 | Lanercost |  | 1 hd |  |  |  | CR |  |  |  |  |  | The Chronicle of Lanercost |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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| 1 | 1321 VI 26 | Orange | Ben Gerson | 1h ASR |  |  |  | 11d |  |  |  |  |  | Observation by L. Ben Gerson |
| 2 | 1321 VI 26 | Augsburg |  |  |  |  |  |  |  |  |  |  |  | Annales Augustani Minores |
| 3 | 1321 VI 26 | Ellwangen |  | 1-3 hd | ? |  |  |  |  |  |  |  |  | Chronicon Elwancese |
| 4 | 1321 VI 26 | Gr. Novgorod |  |  |  |  |  | CR5 |  |  |  |  |  | Novgorodskaya I. Letopis' |
| 5 | 1321 VI 26 | Gr. Novgorod |  |  |  |  |  | CR2 |  |  |  |  |  | Novgorodskaya II. Letopis' |
| 6 | 1321 VI 26 | Firenze | G.Villani | SR |  |  |  | 2d |  |  |  |  |  | Giovanni Villani: Istorie Fiorentine |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1330 VII 16 | Iceland |  |  |  |  |  |  |  |  |  |  |  | Annales Islandorum Regii |
| 2 | 1330 VII 16 | Orange | Levi ben Gerson | 4h PM |  |  |  | 9.5d |  |  |  |  |  | Astronomy by Levi ben Gerson |
| 3 | 1330 VII 16 | Zbraslav |  | 8 hd |  |  |  | CR3 |  |  |  |  |  | Chronicon Aulae Regiae |
| 4 | 1330 VII 16 | Diessenhoven | Heinrich | AN |  |  |  | 2/3 A |  |  |  |  |  | Chronicon de Heinrici de Diessenhoven |
| 5 | 1330 VII 16 | Marienburg (?) | Wigand | AN |  |  |  |  |  |  |  |  |  | Wigandi Marburgensis Chr.Nova Prutenica |
| 6 | 1330 VII 16 | Bologna |  | AN |  |  |  | 4/5 A |  |  |  |  |  | Chronica di Bologna |
| 7 | 1330 VII 16 | Firenze | G.Villani | AN |  |  |  | ½ A |  |  |  |  |  | Giovanni Villani : Istorie Fiorentine |
| 8 | 1330 VII 16 | Foligno (?) |  | AN |  |  |  | ½ A |  |  |  |  |  | Cronaca Bonaventurae Benvenuti |
| 9 | 1330 VII 16 | Tüngedaer Schloß |  | N |  |  |  | 11d |  |  |  |  |  | Johann Binhard: Thüringer Chronik |
| 10 | 1330 VII 16 | Constantinople |  |  |  |  |  | 11d+ |  |  |  |  |  | Nicephori Gregorae, Historiae Byzantinae |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1333 V 14 | Coimbra |  | N |  |  |  | CR |  |  |  |  |  | Chronicon Conimbricense.V |
| 2 | 1333 V 14 | Montpellier |  | AN |  |  |  |  |  |  |  |  |  | Les chroniques clestes du Petit Thalamus |
| 3 | 1333 V 14 | Evreux | J. de Muris | CNTCS |  |  |  | 10d |  |  |  |  |  | Manuscript by Jean de Muris |
| 4 | 1333 V 14 | Orange | Levi ben Gerson | 3:30 PM |  |  |  |  |  |  |  |  |  | Astronomy by Levi ben Gerson |
| 5 | 1333 V 14 | Parma |  | AN |  |  |  | CR |  |  |  |  |  | Annales Parmenses Maiores |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1337 III 3 | St.Germain des Pres, Paris | J. de Muris | CNTCS |  |  |  | 5d |  |  |  |  |  | Manuscript by Jean de Muris |
| 2 | 1337 III 3 | St.Denis | R.Lescot |  |  |  |  | 0.5 D |  |  |  |  |  | Chronique de Richard Lescot: religieux de Saint-Denis |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1339 VII 7 | (Iceland) |  | N |  |  |  |  |  |  |  |  |  | Annales Islandici |
| 2 | 1339 VII 7 | St.Albans |  |  |  |  |  | ¾ A |  |  |  |  |  | Chronicon Angliae |
| 3 | 1339 VII 7 | Lbeck |  | AN |  |  |  | GP |  |  |  |  |  | Detmar-Chronik |
| 4 | 1339 VII 7 | Neuberg |  | AN | C |  |  |  |  |  |  |  |  | Chr.Claustro-Neuburg. Continuatio Novimontenses |
| 5 | 1339 VII 7 | Strassburg |  | AN |  |  |  | ? |  |  |  |  |  | Strassburgische Chronik |
| 6 | 1339 VII 7 | Siena |  | AN |  |  |  | 5/6 D |  |  |  |  |  | Annales Senenses |
| 7 | 1339 VII 7 | Firenze | G.Villani | AN |  |  |  |  |  |  |  |  |  | G.Villani : Istorie Fiorentine |
| 8 | 1339 VII 7 | Verona |  | AN |  |  |  |  |  |  |  |  |  | Chronicon Veronense |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1344 X 7 | Praha |  | SR |  |  |  |  |  |  |  |  |  | Chronica Francisci Pragensis |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1354 IX 17 | Sos |  |  | **C** |  |  |  |  |  |  |  |  | An instription on the city arcade |
| 2 | 1354 IX 17 | Perugia |  | 3-5 hd |  |  |  | **9d** |  |  |  | V |  | Cronaca della Città di Perugia dal 1309 al 1491 |
| 3 | 1354 IX 17 | Firenze | G.Villani |  |  |  |  | **GP** |  |  |  |  |  | Cronaca di Matteo Villsni |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1361 V 5 | (Turkey) |  |  |  |  |  |  |  |  |  |  |  | Leunclavius: Annales Sultanorum Osmanidarum |
| 2 | 1361 V 5 | Siena |  | 6 hd |  |  |  |  |  |  |  |  |  | Annales Senenses |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1366 VIII 7 | (Russia) |  | 3 hd |  |  |  | CR3 |  |  |  |  |  | Rogozskaya Letopis' |
| 2 | 1366 VIII 7 | (Russia) |  | 3 hd |  |  |  | CR3 |  |  |  |  |  | Novgorodskaya IV.Letopis' |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1379 V 16 | Sevilla (?) |  | AN | ♦ |  |  |  |  | ♦ |  |  |  | Cronicas de los Reyes de Castilla-  Compendio |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1384 VIII 17 | Praha (?) |  |  |  |  |  |  | G |  |  |  |  | Chronicle by Lupáč |
| 2 | 1384 VIII 17 | Fosse |  | 13-14 h |  |  |  | 2/3 A |  |  |  |  |  | Annales Leodienses |
| 3 | 1384 VIII 17 | Firenze |  |  |  |  |  | NT |  |  |  |  |  | Cronaca Fiorentina |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1386 I 1 | Basel |  |  |  |  |  |  |  | ♦ |  |  |  | Kleine Basler Annalen |
| 2 | 1386 I 1 | Luzern |  |  |  |  |  |  |  | ♦ |  |  |  |  |
| 3 | 1386 I 1 | Montpellier |  | 2-3 hd |  |  |  |  |  | ♦ |  |  |  | Les chroniques clestes du Petit Thalamus |
| 4 | 1386 I 1 | Firenze |  |  |  |  |  |  |  | ♦ |  |  | ♦ | Cronaca Fiorentina |
| 5 | 1386 I 1 | Napoli |  |  |  |  |  |  |  | ♦ |  |  |  | Giornali Napolitani |
| 6 | 1386 I 1 | Bologna |  |  |  |  |  |  |  | ♦ |  |  |  | Mathaei de Griffonibus Memoriale Historicum |
| 7 | 1386 I 1 | Bologna |  |  |  |  |  |  |  | ♦ |  |  |  | Corpus chronicroum Bononensium |
| 8 | 1386 I 1 | Roma |  | 1 hd |  |  |  |  |  | ♦ |  |  |  | Vitae Romanorum Pontificum |
| 9 | 1386 I 1 | Piacenza | J.de Mussis | 3 hd |  |  |  |  |  | ♦ |  |  | ♦ | Joannes de Mussis : Chronicon Placentinum |
| 10 | 1386 I 1 | Peć |  |  |  |  |  |  |  |  |  | **\*** |  | Letopis Pecke Patrijaršije |
| 11 | 1386 I 1 | (Russia) |  | 7 hd |  |  |  | CR4 | ♦ |  |  |  |  | Nikonovskaya Letopis' |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** |  |

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| 1 | 1406 VI 16 | Mondoñedo |  |  |  |  |  |  |  |  |  |  |  | Calendario de la Catedral de Mondoñedo |
| 2 | 1406 VI 16 | Paris (?) | Jean Juvenal | 6-7 h AM |  |  |  |  |  |  |  |  |  | Jean Juvenal des Ursins: Histoire de Charles VI |
| 3 | 1406 VI 16 | Paris | N. de Baye |  |  |  |  |  |  |  |  |  |  | Journal de Nicolas de Baye |
| 4 | 1406 VI 16 | St.Denis | Religieux | 6-7 h AM |  |  |  |  |  |  |  |  |  | Religieux de St.Denis : Chronicorum ... |
| 5 | 1406 VI 16 | Metz |  | 6 h AM |  |  |  |  |  |  |  | \* |  | La chronique de Philippe de Vigneulles |
| 6 | 1406 VI 16 | Liege |  | 6-7 h AM |  |  |  |  |  |  |  |  |  | Chronique latine de Jean de Stavelot |
| 7 | 1406 VI 16 | Rouen |  |  |  |  |  | C |  |  |  |  |  | Le Victorial Chronique de Don Pedro Nino |
| 8 | 1406 VI 16 | Bordeaux |  |  |  |  |  |  |  |  |  |  |  | Archives municipales de Bordeaux |
| 9 | 1406 VI 16 | Basel |  | 6-8 h |  |  |  | CR2 |  |  |  |  |  | Röteler Chronik |
| 10 | 1406 VI 16 | Braunschweig |  | 1 hd |  |  |  |  |  |  |  |  |  | Bothonis Chronicon Brunsvicensis picturatum |
| 11 | 1406 VI 16 | Beiersdorf |  |  |  |  |  |  |  |  |  |  |  | Chronik der Gemeinde Beiersdorf |
| 12 | 1406 VI 16 | Haselbach (?) | Th.Ebendorffer | 6 h AM |  |  |  |  |  |  |  |  |  | Th.Ebendorfferi de Haselbach Chr.Austriacum |
| 13 | 1406 VI 16 | Nrnberg |  | 3 hd |  |  |  |  |  |  |  |  |  | Chronik aus Kaiser Sigmundus Zeit |
| 14 | 1406 VI 16 | Augsburg |  | 6 h AM |  |  |  | C |  |  |  |  |  | Chronik von 1368 bis 1406 |
| 15 | 1406 VI 16 | (Thuringia) |  |  |  |  |  |  |  |  |  |  |  | Thüringische Chronik by J.Bangen |
| 16 | 1406 VI 16 | Eisenach | J.Rothe | M | ? |  |  |  |  |  |  |  |  | Düringische Chronik by J.Rothe |
| 17 | 1406 VI 16 | Magdeburg |  | 9 h AM |  |  |  |  |  |  |  |  |  | Magdeburger Schoppenchronik |
| 18 | 1406 VI 16 | Lbeck |  | 5 h AM |  |  |  |  |  |  |  |  |  | Detmar-Chronik. Zweite Fortsetzung |
| 19 | 1406 VI 16 | Lbeck |  | 6 h AM |  |  |  |  |  |  |  |  |  | sog.Rufus-Chronik.Zweiter Theil |
| 20 | 1406 VI 16 | Lbeck | H.Korner | 6 h AM |  |  |  |  |  |  |  |  |  | Hermanni Corneri Chronicon |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 21 | 1406 VI 16 | Hamburg | A.Traziger | 6 h AM |  |  |  |  |  |  |  |  |  | Adami Trazigeri Chronica Hamburgensis |
| 22 | 1406 VI 16 | Stralsund |  | 7 h AM |  |  |  |  |  |  |  |  |  | Stralsundische Chroniken |
| 23 | 1406 VI 16 | Paderborn | Gobelinus | 5 h AM |  |  |  |  |  |  |  |  |  | Gobelini Personae Cosmidromius |
| 24 | 1406 VI 16 | Saxony |  | 1 hd |  |  |  |  |  |  |  |  |  | Matthaeus Dresser:SächsischChronicon |
| 25 | 1406 VI 16 | Kraków (?) |  | 10 h AM |  |  |  | 10d |  |  |  |  |  | Annalium Trascae cont.de Szamotuły |
| 26 | 1406 VI 16 | Dortmund |  |  |  |  |  |  |  |  |  | \* |  | Chronik der Reichsstadt Dortmund bis 1618 |
| 27 | 1406 VI 7 | Dortmund |  | 6-7 h |  |  |  |  |  |  |  |  |  | Johannis Kerkhörde: Chronicon |
| 28 | 1406 VI 16 | Mnster |  |  |  |  |  |  |  |  |  |  |  | Chronik der Bischofe von Mnster |
| 29 | 1406 VI 16 | Meiningen |  |  |  |  |  |  |  |  |  |  |  | Poligraphia Meiningensis |
| 30 | 1406 VI 16 | Mhlhausen |  |  |  |  |  |  |  |  |  |  |  | Chronik der Stadt Mühlhausen in Thüringen |
| 31 | 1406 VI 16 | Gr.Novgorod (?) |  | 4 hd |  |  |  | CR3 |  |  |  |  |  | Troitskaya Letopis' |
| 32 | 1406 VI 16 | Tver (?) |  | 4-6 hd |  |  |  | CR4 |  |  |  |  |  | Tverskaya Letopis' |
| 33 | 1406 VI 16 | Bologna |  |  |  |  |  | 3/4 |  |  |  |  |  | Continuatio Chronici Bononensis |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1415 VI 7 | (Spain)  Euskal |  |  |  |  |  |  |  |  |  |  |  | Mil noticias insólitas del país de los vascos |
| 2 | 1415 VI 7 | Navarra |  |  |  |  |  |  |  |  |  |  |  | Annales de Navarra |
| 3 | 1415 VI 7 | Montpellier |  | 1.5 hd |  |  |  |  |  |  |  |  |  | Les chroniques clestes du Petit Thalamus |
| 4 | 1415 VI 7 | Arles |  |  |  |  |  |  |  |  |  |  |  | Protocol du Bernard Pangonis |
| 5 | 1415 VI 7 | Avignon |  | 6-7 h |  |  |  |  |  |  |  |  |  | D'Anciennes Annales Avignonnaises |
| 6 | 1415 VI 7 | Toulouse |  | 6-7h |  |  |  |  |  |  |  |  |  | Annales de Observatoire Astronomique, de Toulouse, 1950 |
| 7 | 1415 VI 7 | (Provence) |  | 2 hd |  |  |  |  |  |  |  |  |  | Histoire générale de Provence |
| 8 | 1415 VI 7 | Digne |  | 2 hd |  |  |  |  |  |  |  |  |  | P.Gassendi: Notitia Ecclesiae Diniensis |
| 9 | 1415 VI 7 | Konstanz\_1 | Petr z Mladonowic |  |  |  |  | NT |  |  |  |  |  | Petri de Mladenowicz : Historia de fatis... |
| 10 | 1415 VI 7 | Konstanz\_2 (?) |  | 11 h ASS |  |  |  |  |  |  |  |  |  | Chronica Universitas Pragensis |
| 11 | 1415 VI 7 | Konstanz\_3 |  |  |  |  |  | NT |  |  |  |  |  | [Wilhelm Seyfried](https://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Wilhelm+Seyfried%22)  Commentatio de Iohannis Hussi martyris vita, fatis et scriptis |
| 12 | 1415 VI 7 | Konstanz\_4 |  |  |  |  |  | NT |  |  |  |  |  | Christianus Genschius, 1699  Rerum Concilii Constantiensis, Corpus Actorum Et Decretorum Magni |
| 13 | 1415 VI 7 | Niederaltaich |  | 6 h AM |  |  |  |  |  |  |  |  |  | Notae Altahenses |
| 14 | 1415 VI 7 | Wien |  |  |  |  |  | C |  |  |  |  |  | Anonyme Viennese Breve Chronicon |
| 15 | 1415 VI 7 | Neuchatel |  |  |  |  |  |  |  |  |  |  |  | Annales historiques du comté de Neuchâtel et Valangin |
| 16 | 1415 VI 7 | Praha | Vavinec z Bezove | 11 h ASS |  |  |  |  |  |  |  |  |  | [Laurentius de Brezina : de gestis et variis...](http://www.sopiz.ptma.pl/historical_solar_eclipses/1415%20VI%207%20Praha.docx) |
| 17 | 1415 VI 7 | Geiffenberg/  Gryfów Śl. |  |  |  |  |  |  |  |  |  |  |  | [Johannes Gotthelf Luge](http://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Johannes+Gotthelf+Luge%22)  Chronik der Stadt Greiffenberg in Schlesien |
| 18 | 1415 VI 7 | Wrocław |  | 12 h ASS |  |  |  |  |  |  |  |  |  | Chronica Sigismundi Rosiczi |
| 19 | 1415 VI 7 | Kamieniec Z. |  | 11 h ASS |  |  |  |  |  |  |  |  |  | Necrologium des Stifts Kamenz |
| 20 | 1415 VI 7 | Stodoły |  |  |  |  |  |  |  |  |  |  |  | Annalium Trascae cont.de Szamotuły |
| 21 | 1415 VI 7 | Kraków |  | 11 h ASS |  |  |  |  |  |  |  |  |  | MS 3361 National Archives Kraków |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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| 22 | 1415 VI 7 | Lower Silesia |  |  |  |  |  |  |  |  |  |  |  | August Werner  Chronik von Friedland und Umgegend. |
| 23 | 1415 VI 7 | Erfurt |  |  |  |  |  |  |  |  |  |  |  | Johann Binhard: Thüringer Chronik |
| 24 | 1415 VI 7 | Belarus | King V.Jagiello | 3 hd | C |  |  |  |  |  |  |  |  | Joannis Dlugossi Annales |
| 25 | 1415 VI 7 | Moskva (?) |  | FN | C |  |  |  |  |  |  |  |  | Moskovskiy svod konca XV veka |
| 26 | 1415 VI 7 | Tver (?) |  | 7 hd | C |  |  |  |  |  |  |  |  | Tverskaya Letopis' |
| 27 | 1415 VI 7 | Pskov (?) |  |  | C |  |  |  |  |  |  |  |  | Pskovskaya Letopis' |
| 28 | 1415 VI 7 | (Russia\_1) |  |  | C |  |  |  |  |  |  |  |  | Patriaraya Letopis' |
| 29 | 1415 VI 7 | (Russia\_2) |  |  |  |  |  |  |  |  |  |  |  | Letopis' Avraamki |
| 30 | 1415 VI 7 | Roma | A.Petri | 3 hd |  |  |  |  |  |  |  |  |  | Antonio Petri: Diarium Romanum |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |
| 1 | 1424 VI 26 | Trzemeszno (?) |  | AN | ? |  |  |  |  |  |  |  |  | Annalium Trascae cont.de Szamotuły |
| 2 | 1424 VI 26 | (Thuringia) |  |  |  |  |  | G |  |  |  |  |  | Thüringische Chronik by J.Binhard |
| 3 | 1424 VI 26 | (Lombardia) |  | 21h ASS |  |  |  | G |  |  |  |  |  | Archivo storico lombardo |
| 4 | 1424 VI 26 | (Bohemia) |  | AN |  |  |  | 11d+ |  |  |  |  |  | P.Lupač: Rerum Boemicarum ephemeris |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1431 II 12 | Andalusia |  |  |  |  |  | 7/8 A |  |  |  |  |  | al-Maqrizi : al-Suluk |
| 2 | 1431 II 12 | Valencia |  | 2h PM |  |  |  |  | G |  |  |  |  | Melcior Miralles: Crònica i dietari del capellà d'Alfons el Magnàn |
| 3 | 1431 II 12 | Praha (?) |  |  |  |  |  |  |  |  |  |  |  | Daniel Adam z Veleslavína:  Kalendář Hystorycký |
| 4 | 1431 II 12 | Kraków (?) |  |  |  |  |  |  | G |  |  |  |  | Ioannis Dlugossi Annales |
| 5 | 1431 II 12 | Foligno | Petruccio | 21h ASS |  |  |  |  |  |  |  |  |  | Memoriale di Petruccio di Giacomo degli Unti |
| 6 | 1431 II 12 | Perugia | A. dei Veghi | 21-22 h ASS |  |  |  |  |  |  |  |  |  | Antonio dei Veghi : Diario 1423-1491 |
| 7 | 1431 II 12 | Perugia |  |  |  |  |  |  |  |  |  |  |  | Pompeo Pellini:Della Historia di Perugia, t.2 |
| 8 | 1431 II 12 | Napoli (?) |  | 21h ASS |  |  |  |  | G |  |  |  |  | Annales Bonincontrii Miniatensis |
| 9 | 1431 II 12 | Viterbo |  | 22h-3h ASS |  |  |  |  |  |  |  |  |  | Cronaihe da Niccola della Tuccia |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |

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| 1 | 1433 VI 17 | Edinburgh ? |  | 3 h PM |  |  |  |  |  |  |  |  |  | Philosophical Transactions, 40 (1741),194. |
| 2 | 1433 VI 17 | Metz (?) |  | 3 h PM |  |  |  |  |  |  |  |  |  | Les chroniques de la ville de Metz |
| 3 | 1433 VI 17 | Metz |  | 2h PM |  |  |  |  |  |  |  | \* |  | Chronique de Metz de Jacomin Husson |
| 4 | 1433 VI 17 | Dortmund | J.Kerkhörde | 3 h PM |  |  |  |  |  |  |  |  |  | Johannis Kerkhörde: Chronicon 1405-1465 |
| 5 | 1433 VI 17 | Dortmund |  | 3 h PM |  |  |  |  |  |  |  |  |  | Chronik der Reichsstadt Dortmund bis 1618 |
| 6 | 1433 VI 17 | Kln |  | 4 h PM |  |  |  |  |  |  |  |  |  | Coronica zo Collen |
| 7 | 1433 VI 17 | Kln |  | 4 h PM | C |  |  |  |  |  |  | 3 |  | Cllner Jahrbcher (C) |
| 8 | 1433 VI 17 | Celle |  |  |  |  |  |  |  |  |  |  |  | H.Bnting : Chronologia Catholica |
| 9 | 1433 VI 17 | Nrnberg | E.Tucher | 12:16 |  |  |  |  |  |  |  |  |  | Endres Tucher's Memorial |
| 10 | 1433 VI 17 | Nrnberg |  | 12:04 |  |  |  |  |  |  |  |  |  | Chronik aus Kaiser Sigmundus Zeit |
| 11 | 1433 VI 17 | Friedensdorf |  |  |  |  |  |  |  |  |  |  |  | Merseburger Chroniken |
| 12 | 1433 VI 17 | Leipzig (?) |  |  |  |  |  |  |  |  |  |  |  | Matthaeus Dresser: Sächsisch Chronicon |
| 13 | 1433 VI 17 | Regensburg | Andreas | AN |  |  |  |  |  |  |  |  |  | Andreae Presbyterii Ratisbonensis Chronicon |
| 14 | 1433 VI 17 | Augsburg | H.Mülich | 4-5 h AN |  |  |  |  |  |  |  |  |  | Chronik des Hector Mlich |
| 15 | 1433 VI 17 | Augsburg |  | 4-5 h AN |  |  |  |  |  |  |  |  |  | Achilli Pirmini Gassari Annales Augustburgenses |
| 16 | 1433 VI 17 | Bavaria |  | 3h AN |  |  |  |  |  |  |  |  |  | [Maria Candida Schmid](http://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Maria+Candida+Schmid%22): Sonnen-Finsternis, 1758 |
| 17 | 1433 VI 17 | (Thuringia) |  |  |  |  |  |  | G |  |  |  |  | Thüringische Chronik by J.Binhard |
| 18 | 1433 VI 17 | Salzburg |  |  |  |  |  |  |  |  |  |  |  | Necrologia Germaniae, Dioecesis Salisburgensis |
| 19 | 1433 VI 17 | Sankt Pölten | J.Roll | 4-5 h AN |  |  |  |  |  |  |  |  |  | Joannis Rollii Adnotationes Chronicae |
| 20 | 1433 VI 17 | Altzelle |  |  |  |  |  |  |  |  |  |  |  | Chronica Vetero-Cellensis |
| 21 | 1433 VI 17 | Karltejn | Bartoek | 20 h ASS |  |  |  |  |  |  |  |  |  | Kronika Bartoka z Drahonic |
| 22 | 1433 VI 17 | Nürnberg (?) | J. Šindel |  |  |  |  |  |  |  |  |  |  | Lupáč Prokop z Hlavačova : Rerum Boemicarum ephemeris, sive Kalendarium historicum |
| 23 | 1433 VI 17 | (Bohemia) |  |  |  |  |  | G |  |  |  |  |  | Daniel Adam z Veleslavína: Kalendář Hystorycký |
| 24 | 1433 VI 17 | (Bohemia) |  |  |  |  |  |  |  |  |  |  |  | Catalogus prodigiorum ac ostentorum. |
| 25 | 1433 VI 17 | Marseille |  |  |  |  |  |  |  |  |  |  |  | La Chronique de Saint-Victor de Marseille |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 26 | 1433 VI 17 | Bologna |  | 20-21 h ASS |  |  |  |  |  |  |  |  |  | Cherubino Ghirardacci Historia di Bologna |
| 27 | 1433 VI 17 | (Serbia) |  | 16-17h |  |  |  |  |  |  |  | \* |  | ? (interent information) |
| 28 | 1433 VI 17 | (Serbia) |  |  |  |  |  |  |  |  |  |  |  | ? (interent information) |
| 29 | 1433 VI 17 | Mount Athos |  |  |  |  |  |  |  |  |  |  |  | A manuscript of the local monastery |
| 30 | 1433 VI 17 | (Moldavia) |  |  |  |  |  |  |  |  |  |  |  | Chronicle of Azarie |
| 31 | 1433 VI 17 | Edirne |  | AN |  |  |  |  |  |  |  |  |  | Leunclavius: Annales Sultanorum Osmanidarum |
| 32 | 1433 VI 17 | Edirne |  | 22 h ASS |  |  |  |  |  |  |  |  |  | Leunclavius: Historiae Musulmanae Turcorum |
| 33 | 1433 VI 17 | Aleppo | al-Asqalani | AN |  |  |  | NT |  |  |  |  |  | al-Asqalani : Inba' al-Ghmur ... |
| 34 | 1433 VI 17 | Cairo | al-Maqrizi | 1 h PM |  |  |  | 2/3 A |  |  |  |  |  | al-Maqrizi : al-Suluk |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |
| 1 | 1448 VIII 29 | Barcelona |  | 9-10 hd |  |  |  |  |  |  |  |  |  | Esteve Gilabert Bruniquer i Riera  Ceremonial dels magnífichs consellers y regiment de la Ciutat de Barcelona |
| 2 | 1448 VIII 29 | Praha (?) |  | 6 hd |  |  |  | G |  |  |  |  |  | Daniel Adam z Veleslavína:  Kalendář Hystorycký |
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| 1 | 1460 VII 18 | (Turkey) |  | SR |  |  |  |  |  |  |  |  |  | Leunclavius: Annales Sultanorum Osmanidarum |
| 2 | 1460 VII 18 | Praha (?) |  |  |  |  |  |  | G |  |  |  |  | Chronicle by Lupáč |
| 3 | 1460 VII 18 | (Russia) |  | 2 hd |  |  |  | CR5 |  |  |  |  |  | Patryaraya ili Nikonovskaya Letopis' |
| 4 | 1460 VII 18 | Bologna |  | 11.5 h |  |  |  | 0.5 |  |  |  |  |  | Cherubino Ghirardacci Historia di Bologna |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1476 II 25 | Pskov |  | 2 hd |  |  |  |  |  |  |  |  |  | Pskovskaya I. Letopis' |
| 2 | 1476 II 25 | Pskov |  |  |  |  |  |  |  |  |  |  |  | Pskovskaya II. Letopis' |
| 3 | 1476 II 25 | Gr.Novgorod |  | 1 hd |  |  |  |  |  |  |  |  |  | Novgorodskaya IV.Letopis' |
| 4 | 1476 II 25 | Moskva |  | 1 hd |  |  |  |  |  |  |  |  |  | Patryaraya ili Nikonovskaya Letopis' |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1478 VII 29 | Sevilla (?) |  | N |  |  |  |  |  |  |  |  |  | A.Bernaldez: Historia de los Reyes Catolicos |
| 2 | 1478 VII 29 | (Spain) |  |  |  |  |  |  |  |  |  |  |  | Annales breves del reinado de los Reyes... |
| 3 | 1478 VII 29 | Sevilla (?) |  |  | ♦ |  |  |  |  |  |  |  |  | Annales eclesiasticos y seculares de la ciudad de Sevilla, p. 384. |
| 4 | 1478 VII 29 | Valencia |  | 10 h-1h PM |  |  |  |  |  |  |  |  |  | Anales Valencianos |
| 5 | 1478 VII 29 | Salamanca (?) |  | N |  |  |  |  |  |  |  |  |  | Abraham Zacut: Sefer Yuhasin |
| 6 | 1478 VII 29 | Leon |  | N-1h PM |  |  |  |  |  |  |  |  |  | Archive of the Leon cathedral |
| 7 | 1478 VII 29 | Nrnberg | B.Walther | CNTCS |  |  |  |  |  |  |  |  |  | The observation by Bernhard Walther |
| 8 | 1478 VII 29 | Göttingen |  | 1 h PM |  |  |  | ½ D |  |  |  |  |  | Göttinger Annalen |
| 9 | 1478 VII 29 | Basel | J.Knebel | 1.5 h PM |  |  |  | 3/4 D |  |  |  |  |  | Johannis Knebel diarium |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |
| 1 | 1485 III 16 | Salamanca | A.Zacut |  |  |  |  | C |  |  |  |  |  | A.Zacut: Juyzio del eclipse |
| 2 | 1485 III 16 | Bourges | J.Batereau | 3 h | ♦ |  |  |  |  | ♦ |  |  |  | Chronique de Bourges |
| 3 | 1485 III 16 | Lyon (?) | B.Maillard | 3-4 h PM | ? |  |  |  |  |  |  |  |  | Benedicti Maillardi Chronica |
| 4 | 1485 III 16 | St.Leonard-de-Noblat | J.Massiot | 4h PM |  |  |  |  |  | ♦ |  |  |  | Bulletin de la Société scientifique, historique et archéologique de la Corrèze, t.7, 1885 |
| 5 | 1485 III 16 | Rouffach | K.Pellicanus |  |  |  |  |  |  | ♦ |  |  |  | K.Pellicanus: Chronicon |
| 6 | 1485 III 16 | Besançon |  |  |  |  |  |  |  | ♦ |  |  |  | Aucunes choses mémorables lesquelles se sont passées anciennement rière la cité de Besançon |
| 7 | 1485 III 16 | Zrich (?) |  |  | ♦ |  |  |  |  | ♦ |  |  |  | Ulrici Campelli Historia Raetica,I |
| 8 | 1485 III 16 | (Switzerland) |  |  |  |  |  |  |  | ♦ |  |  |  | J.Stumpf:Schwytzer Chronica |
| 9 | 1485 III 16 | Augsburg |  | AN | ♦ |  |  |  |  | ♦ |  |  | ♦ | A.P.Gassari Annales Augustburgenses |
| 10 | 1485 III 16 | Basel |  | 4 h PM |  |  |  |  |  | ♦ |  |  |  | Basler Chroniken |
| 11 | 1485 III 16 | Bern |  | AN |  |  |  | NT ? |  |  |  |  |  | Valerius Anshelm's, genannt Rüd, Berner-Chronik |
| 12 | 1485 III 16 | Neuchatel |  |  |  |  |  |  |  | ♦ |  |  |  | Annales historiques du comté de Neuchâtel et Valangin |
| 13 | 1485 III 16 | St.Gallen |  | 4 h PM | ♦ |  |  |  |  |  |  |  |  | Dominikanerinnenkloster St. Katharina,  Konventsbuch |
| 14 | 1485 III 16 | Freiburg |  |  |  |  |  |  |  | ♦ |  |  |  | Die Grosse Freiburger Chronik |
| 15 | 1485 III 16 | Nrnberg | H.Deichsler | 3 h BSS |  |  |  | 8/9 A |  |  |  |  |  | Chronik des Heinrich Deichlers |
| 16 | 1485 III 16 | Nrnberg | B.Walther | 4:27 PM |  |  |  | 11d |  |  |  |  |  | The observation by Bernhard Walther |
| 17 | 1485 III 16 | Mengen | K.Beck | 4 h PM | ♦ |  |  |  |  |  |  |  |  | Fanilienchronik von Beck |
| 18 | 1485 III 16 | (Germany) | J.Tritheim | 4 h PM | ♦ |  |  |  |  |  |  |  |  | J.Tritheimii Chronicon Hirsaugense |
| 19 | 1485 III 16 | Salzburg |  |  | ♦ |  |  |  |  |  |  |  |  | Chronicon Salisburgense auctore anonymo |
| 20 | 1485 III 16 | Sankt Pölten | J.Roll | 4-5 h PM |  |  |  |  |  | ♦ |  |  |  | Joannis Rollii Adnotationes Chronicae |
| 21 | 1485 III 16 | Melk |  |  | ♦ |  |  |  |  |  |  |  |  | Ann.Austriacarum continuatio Mellicenses |
| 22 | 1485 III 16 | Wien | J.Tichtel |  | ♦ |  |  |  |  |  |  |  |  | Chronik des Johann Tichtels |
| 23 | 1485 III 16 | Passau | J.Staindinell |  | ♦ |  |  |  |  |  |  |  |  | Joanni Staindelli Chronicon Generale |
| 24 | 1485 III 16 | (Thuringia) |  |  |  |  |  |  |  | ♦ |  |  |  | Thüringische Chronik by J.Binhard |
| 25 | 1485 III 16 | (Thuringia) |  |  |  |  |  | C |  |  |  |  |  | Das leben des heiligen Ludwig |
| 26 | 1485 III 16 | Erfurt | C.Stolle |  |  |  |  | CR |  |  | ♦ |  |  | Thüringisch-Erfurtsche Chronik by C.Stolle |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |
| 26 | 1485 III 16 | Praha (?) |  |  |  |  |  | ♦ |  |  |  |  |  | Stai letopisove esti |
| 27 | 1485 III 16 | Praha (?) |  | 22-23 h ASS |  |  |  |  | 11d |  | ♦ |  |  | Daniel Adam z Veleslavína:  Kalendář Hystorycký |
| 28 | 1485 III 16 | S.Bohemia (?) |  |  | ♦ |  |  |  |  |  |  |  |  | Vaclav Hajek : Kronyka Czeska |
| 29 | 1485 III 16 | (Bohemia) |  |  |  |  |  | NT |  |  |  |  |  | P.Lupač: Rerum Boemicarum ephemeris |
| 30 | 1485 III 16 | Jihlava |  |  |  |  |  |  |  | ♦ |  |  |  | Chronik der königlichen Stadt Iglau |
| 31 | 1485 III 16 | Leipzig | M.Doering | 4 h PM |  |  |  | ♦ |  |  | ♦ |  | ♦ | Matthiae Doeringii cont.Chron.Engelhusii |
| 32 | 1485 III 16 | Leipzig |  |  |  |  |  | 11d |  |  |  |  |  | Matthaeus Dresser Sächsisch Chronicon |
| 33 | 1485 III 16 | (Mecklenburg) |  |  |  |  |  | CR |  |  |  |  |  | Incerti autoris Chronica Slavica |
| 34 | 1485 III 16 | on Danube r. |  |  |  |  |  |  |  |  |  |  |  | A.Bonfinii Rerum Ungaricarum decades quator... |
| 35 | 1485 III 16 | Krakw (?) |  |  |  |  |  | 11d |  |  | ♦ |  |  | Mathiae de Mechovia Chronica Polonorum |
| 36 | 1485 III 16 | Racibrz |  |  | ♦ |  |  |  |  |  |  |  |  | Chronicon Ratiborense |
| 37 | 1485 III 16 | Mirandola | Maciej z Miechowa |  |  |  |  | C |  |  |  |  |  | Mathiae de Mechovia Chronica Polonorum |
| 38 | 1485 III 16 | Castignano |  |  |  |  |  | GP |  |  |  |  |  | Le scritte del Giudizio Universale nella chiesa dei Santi Pietro e Paolo  di Castignano |
| 39 | 1485 III 16 | Venezia |  | 21 h ASS |  |  |  | 11d |  |  |  |  |  | [John Duns Scotus](http://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22John+Duns+Scotus%22), [Father Charles Balić](http://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Father+Charles+Bali%C4%87%22)  Opera omnia,: Ordinatio. Prologus |
| 40 | 1485 III 16 | Ferrara |  | 21-23 hd |  |  |  | GP |  |  |  |  |  | Diario Ferrarese |
| 41 | 1485 III 16 | Milano | Leonardo da Vinci |  |  |  |  | CR |  |  |  |  |  | Codice Trivulziano |
| 42 | 1485 III 16 | Bologna |  | 22 h ASS |  |  |  |  |  |  |  |  |  | Cherubino Ghirardacci Historia di Bologna |
| 43 | 1485 III 16 | Edirne |  | AN |  |  |  | 2/3 D |  |  |  |  |  | Leunclavius: Historiae Musulmanae Turcorum |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |
| 1 | 1502 X 1 | Melk |  |  |  |  |  | 10d |  |  |  |  |  | Annales Mellicenses |
| 2 | 1502 X 1 | (Thuringia) |  |  |  |  |  | 10d |  |  |  | V |  | Thüringische Chronik by J.Binhard |
| 3 | 1502 X 1 | Krakw | M.Biem | CNTCS |  |  |  | 10d46' |  |  |  |  |  | The observation by Marcin Biem |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1513 III 7 | Damascus | Ibn Tulun |  |  |  |  |  |  | ♦ |  |  |  | Ibn Tulun : Mufakahat al-Khullan ... |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1530 III 29 | Praha |  |  |  |  |  | NT |  |  |  |  |  | A Hebrew Chronicle of Prague |
| 2 | 1530 III 29 | Kraków | M.Biem | CNTCS |  |  |  |  |  |  |  |  |  |  |
| 3 | 1530 III 29 | Frombork | M.Kopernik | CNTCS |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1539 IV 18 | Sevilla |  |  | ♦ |  |  |  |  |  |  |  |  | Annales eclesiasticos y seculares de la ciudad de Sevilla, p. 518. |
| 2 | 1539 IV 18 | Sevilla | G.Cei |  |  |  |  |  |  | ♦ |  |  | ♦ | Los indigenismos en el Viaje y descripción de las Indias (1539-1553) de Galeotto Cei |
| 3 | 1539 IV 18 | Palma de Mallorca | P.Martorell | 10.5 hd | ♦ |  |  |  |  | ♦ |  | ♦ |  | Lib.de Extraordinari de 1539 a 1539 |
| 4 | 1539 IV 18 | Milano | G.Cardano | 4:19 PM |  |  |  | 9d |  |  |  |  |  | The observation by G.Cardano |
| 5 | 1539 IV 18 | Messina |  |  | ♦ |  |  |  |  |  |  |  |  | Annali Della Citta Di Messina |
| 6 | 1539 IV 18 | Leipzig |  | 4 h PM |  |  |  | 9d |  |  |  |  |  | Matthäus Dresser: Sächsisch Chronicon |
| 7 | 1539 IV 18 | Frombork | M.Kopernik | CNTCS |  |  |  |  |  |  |  |  |  | The observation by Copernicus |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |
| 1 | 1540 IV 7 | Augsburg |  | BM |  |  |  |  |  |  | ♦ |  |  | M.Welser : Chronica der weitberuempten Statt Augspurg.... |
| 2 | 1540 IV 7 | (Thuringia) |  |  | ♦ |  |  |  |  |  |  |  |  | Thüringische Chronik by J.Binhard |
|  | 1540 IV 7 | Wittenberg | E.Reinhold |  |  |  |  | ♦ |  |  |  |  |  |  |
| 3 | 1540 IV 7 | Strassbourg |  |  |  |  |  | C |  |  |  |  |  | Chronique Strasbourgeoise |
| 4 | 1540 IV 7 | Leipzig |  |  |  |  |  | C |  |  |  |  |  | Matthäus Dresser: Sächsisch Chronicon |
| 5 | 1540 IV 7 | Mansfeld |  |  | ♦ |  |  |  |  |  |  |  |  | Mansfeldische Chronica |
| 6 | 1540 IV 7 | Trautenau |  |  |  |  |  |  |  | ♦ |  |  |  | Simon Hüttels Chronik der Stadt Trautenau |
| 7 | 1540 IV 7 | Frombork | M.Kopernik | CNTCS |  |  |  | 11d |  |  |  |  |  | The observation by Copernicus |
| 8 | 1540 IV 7 | Wrocław | C.Leovitius |  |  |  |  | NT |  |  |  |  |  | Cyprianus Leovitius  Eclipsium omnium ab Anno Domini 1554, usque ad annum 1606. |
| 9 | 1540 IV 7 | Jihlava |  |  |  |  |  |  |  | ♦ |  |  |  | Chronik der koeniglichen Stadt Iglau |
|  | 1540 IV 7 | Praha (?) |  | at sunrise |  |  |  | G |  |  |  |  |  | Daniel Adam z Veleslavína:  Kalendář Hystorycký |
| 10 | 1540 IV 7 | Pskov |  | 2 hd |  |  | ♦ |  |  |  |  |  |  | Pskovskaya Letopis’ |
| 11 | 1540 IV 7 | Firenze |  |  |  |  |  | NT |  |  |  |  |  | Voyages en Italie et en Espagne pendant les années 1787 et 1789 par Arthur Young |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |
| 1 | 1544 I 24 | Louvain | G.Frisus |  |  |  |  | 10d |  |  |  |  |  | J.Kepler : Astronomiae pars optica |
| 2 | 1544 I 24 | Dortmund |  | 9 hd |  |  |  | 11d17’ |  | ♦ |  |  |  | Chronik des Dietrich Westhoff |
| 3 | 1544 I 24 | Orange |  | 9 hd |  |  |  |  |  | ♦ |  | \* |  | Tableau de l'histoire des princes et principauté d'Orange |
| 4 | 1544 I 24 | Strassbourg |  | 9 hd |  |  |  |  |  | ♦ |  |  |  | Chronique Strasbourgeoise du seizième siècle |
| 5 | 1544 I 24 | Strassbourg |  | 9 hd |  |  |  |  |  | ♦ |  | \* |  | Chronique strasbourgeoise du seizième siècle |
| 6 | 1544 I 24 | Strassbourg |  | 9 hd |  |  |  |  |  | ♦ |  |  |  | Memoires de Jean Sleidan |
| 7 | 1544 I 24 | Nrnberg | J.Funck |  |  |  |  | 11d |  |  | ♦ |  |  | Johann Funck : Chronologia ab orbe condito |
| 8 | 1544 I 24 | Augsburg |  | 9 hd | ♦ |  |  |  |  |  |  |  |  | A.P.Gassari Annales Augustburgenses |
| 9 | 1544 I 24 | Niederaltaich |  | 9 hd |  |  |  |  |  | ♦ |  |  |  | Notae Altahenses |
| 10 | 1544 I 24 | Ulm |  | 9 hd |  |  |  |  |  | ♦ |  |  |  | Martinus Crusius: Schwabische Chronick |
| 11 | 1544 I 24 | Leipzig |  |  | ♦ |  |  |  |  | ♦ |  |  |  | Cyprianus Leovitius  Eclipsium omnium ab Anno Domini 1554, usque ad annum 1606. |
| 12 | 1544 I 24 | Wittenberg |  |  |  |  |  |  | G |  |  |  |  | Ph.Melachton: Annales vita mei |
| 13 | 1544 I 24 | Neuchatel |  | 9 hd |  |  |  | 11d |  | ♦ |  |  |  | Annales historiques du comté de Neuchâtel et Valangin |
| 14 | 1544 I 24 | Gdańsk |  |  |  |  |  |  | G |  |  |  |  | Georg Mehlmann : Chronik |
| 15 | 1544 I 24 | Jihlava |  | 15-16 h ASS |  |  |  |  |  | ♦ |  |  |  | Chronik der königlichen Stadt Iglau |
| 16 | 1544 I 24 | Olomouc |  |  |  |  |  |  |  | ♦ |  |  |  | Olmützer Sammel - Chronik |
| 17 | 1544 I 24 | Sighişoara |  |  |  |  |  |  |  | ♦ |  |  |  | Die Chronik des Schässburger Stadtschreibers Georg Krause, FRA, VIIl. |
| 18 | 1544 I 24 | Vilnius (?) |  | 1h BM |  |  |  | CR | ♦ |  | ♦ | 2 |  | Letopisec V.Kn.Litovskogo i mojtskogo |
| 19 | 1544 I 24 | Vilnius (?) |  | 1h BM |  |  |  | CR | ♦ |  | ♦ | 2 |  | M.Stryjkowski : Kronika polska, litewska ... |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1560 VIII 21 | Coimbra | C.Clavius | N | ♦ |  |  |  |  | ♦ |  | \* |  | Chr.Clavii In sphaeram ... Commentarius |
| 2 | 1560 VIII 21 | Lisboa (?) | E. da Veiga | N | ♦ |  |  |  |  | ♦ |  | \* |  | A letter of E.da Veiga to C.Scheiner |
| 3 | 1560 VIII 21 | Barcelona |  | 11-12h |  |  |  | 7d |  |  |  |  |  | Dietaris de la Generalitat de Catalunya |
| 4 | 1560 VIII 21 | Louvain | G.Frisus | CNTCS |  |  |  | 7.5d- |  |  |  |  |  | J.Kepler : Astronomiae pars optica |
| 5 | 1560 VIII 21 | København | T.Brahe |  |  |  |  | ♦ |  |  |  |  |  |  |
| 6 | 1560 VIII 21 | Wien | P.Fabricius | CNTCS |  |  |  | 5.5d |  |  |  |  |  | J.Kepler : Astronomiae pars optica |
| 7 | 1560 VIII 21 | Roma | E.Dantes |  |  |  |  | ♦ |  |  |  |  |  | Compilation |
| 8 | 1560 VIII 21 | Venezia | F.Iunctinus | CNTCS |  |  |  |  |  |  |  |  |  | Compilation |
| 9 | 1560 VIII 21 | Bruxelles | Ph.Lansbergen | CNTCS |  |  |  | 6d31' |  |  |  |  |  | Compilation |
| 10 | 1560 VIII 21 | Mansfeld |  |  |  |  |  | 5d- |  |  |  |  |  | Cyriacus Spangenberg: Mansfeldische Chronica |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1567 IV 9 | Roma | C.Clavius |  | ♦ |  |  |  |  |  |  |  |  | Chr.Clavii In sphaeram ... Commentarius |
| 2 | 1567 IV 9 | Louvain | G.Frisus | CNTCS |  |  |  | 9d- |  |  |  |  |  | J.Kepler : Astronomiae pars optica |
| 3 | 1567 IV 9 | Rostock | T.Brahe | 12:10 |  |  |  | 6d29' |  |  |  |  |  |  |
| 4 | 1567 IV 9 | Grlitz |  | CNTCS |  |  |  | 8d25' |  |  |  |  |  | J.Kepler : Astronomiae pars optica |
| 5 | 1567 IV 9 | Duisburg | Mercator | CNTCS |  |  |  | ♦ |  |  |  |  |  |  |
| 6 | 1567 IV 9 | Tbingen | M.Maestlin |  |  |  |  | 10d- |  |  |  |  |  |  |
| 7 | 1567 IV 9 | Esslingen | M.Krauss |  |  |  |  | 10d2‘ |  |  |  |  |  | Martn Krauss: Annales Suevivi |
| 8 | 1567 IV 9 | Mansfeld |  |  |  |  |  | 0.75 A |  |  |  |  |  | Cyriacus Spangenberg: Mansfeldische Chronica |
| 9 | 1567 IV 9 | (Russia) |  |  |  |  |  | CR |  |  |  |  |  | Zapadno-russkie Letopisi |
| 10 | 1567 IV 9 | (Russia) |  | 8-11 hd |  |  |  | CR3 | ♦ | ♦ |  |  |  | Patriaraya ili Nikonovskaya Letopis' |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | Source |
| 1 | 1598 III 7 | Edinburgh (?) |  |  | ♦ |  |  |  |  |  |  |  |  | Robert Lindsay of Pitscottie:  Chronicles of Scotland |
| 2 | 1598 III 7 | Edinburgh |  |  | ♦ |  |  |  |  |  |  |  |  | David Calderwood:  The history of the Kirk of Scotland |
| 3 | 1598 III 7 | Edinburgh |  | 9-10 hd |  |  |  |  |  | ♦ |  |  |  | Diary of Robert Birrel, burges of Edinburghe, from 1532 to 1605 |
| 4 | 1598 III 7 | Edinburgh |  |  |  |  |  |  |  | ♦ |  | 2\* |  | Patrick Anderson: History of Scotland |
| 5 | 1598 III 7 | St.Andrews |  |  | C |  |  |  |  | ♦ |  |  |  | Autobiography and Diary of Mr James Melville |
| 6 | 1598 III 7 | Wandesburg | T.Brahe | CNTCS |  |  |  |  |  |  |  |  |  |  |
| 7 | 1598 III 7 | Rostock | C.Longomonta-nus | CNTCS |  |  |  | 9d10' |  |  |  |  |  |  |
| 8 | 1598 III 7 | Wittenberg | M.Joestell | CNTCS |  |  |  |  |  |  |  |  |  |  |
| 9 | 1598 III 7 | Frankfurt a.O. | D.Origanus | CNTCS |  |  |  | 9d |  |  |  |  |  |  |
| 10 | 1598 III 7 | Graz | J.Kepler | CNTCS |  |  |  |  |  |  |  |  |  | J.Kepler : Astronomiae pars optica |
| 11 | 1598 III 7 | Uraniborg | Tycho's students | CNTCS |  |  |  | 9d40' |  |  |  |  |  |  |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1600 VII 10 | Valencia | J.Porcar | 12:15 hd |  |  |  |  |  |  |  |  |  | Pere Joan Porcar: coses evengudes en la ciutat y regne de València |
| 2 | 1600 VII 10 | Graz | J.Kepler | CNTCS |  |  |  | 7.5d ? |  |  |  |  |  | J.Kepler : Astronomiae pars optica |
| 3 | 1600 VII 10 | Benátky | T. Brahe | CNTCS |  |  |  | 5d |  |  |  |  |  | J.Kepler : Astronomiae pars optica |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1601 XII 24 | near Bergen |  | AN |  |  |  |  |  |  |  |  |  | Ch.S.Longomontanus : Astronomia Danica |
| 2 | 1601 XII 24 | Goes | Ph.Lansbergen |  |  |  |  |  |  |  |  |  |  | P.J.B.Riccioli : Astronomiae Reformate,II |
| 3 | 1601 XII 24 | Goes | Ph.Lansbergen | 1:51 PM |  |  |  |  |  |  |  |  |  | Annales Celestes |
| 4 | 1601 XII 24 | Praha | J.Kepler | CNTCS |  |  |  | 8d+ |  |  |  |  |  | J.Kepler : Astronomiae pars optica |
| 5 | 1601 XII 24 | Trondheim | C.Longomonta-nus | 1 h PM |  |  |  |  |  |  |  |  |  | Ch.S.Longomontanus : Astronomia Danica |
| 6 | 1601 XII 24 | Padova | S.Marius | CNTCS |  |  |  |  |  |  |  |  |  | Gaab H., Leich P.: Simon Marius and His Research, 2019. |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1605 X 12 | Antwerp | Martin | 2h PM |  |  |  | NT |  |  |  |  |  | Johannes Kepler: Gesammelte Werke, Band XV: Briefe 1604 – 1607, ed. 1951. |
| 2 | 1605 X 12 | Stavelot | Crzistanovic | 2h PM |  |  |  | 10.5d |  |  |  |  |  | Johannes Kepler: Gesammelte Werke, Band XV: Briefe 1604 – 1607, ed. 1951. |
| 3 | 1605 X 12 | (Thuringia) |  | 2h PM |  |  |  | 9d |  |  |  |  |  | Thüringische Chronik by J.Binhard |
| 4 | 1605 X 12 | (France) |  |  |  |  |  |  |  |  |  |  |  | Journal des savants |
| 5 | 1605 X 12 | (France) |  |  |  |  |  | corona noticd |  |  |  |  |  | François Eudes de Mézeray  Abrégé chronologique, ou Extraict de l'histoire de France |
| 6 | 1605 X 12 | Burgundy |  | 1h PM |  |  |  |  |  |  |  |  |  | Mémoires et la vie de Messire Claude de Létouf, Chevalier Baron de Sirot |
| 7 | 1605 X 12 | Paris (?) | De Thou | 1h PM |  |  |  |  |  |  |  |  |  | Mémoires de Maximilien de Béthune, duc de Sully |
| 8 | 1605 X 12 | Paris |  | 1h PM |  |  |  |  |  |  |  |  |  | Mercure François |
| 9 | 1605 X 12 | Auch |  |  |  |  |  |  |  |  |  |  |  | Extrait d'une Chronique des Capitouls |
| 10 | 1605 X 12 | La Rochelle | J.Guillaudeau |  |  |  |  |  |  |  |  |  |  | Diaire de Joseph Guillaudeau |
| 11 | 1605 X 12 | Mas-Cabardés |  | Noon-1 PM |  |  |  | 11/12 |  |  |  |  |  | Explorations pyrénéenes : Ascenions et recherches scientifiques, archéologiques and historiques |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

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|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 12 | 1605 X 12 | Rabastens |  | 1h PM |  |  |  |  |  |  |  |  |  | Archives des notaires de Rabastens |
| 13 | 1605 X 12 | Valencia |  | 1 ¼ h PM |  |  |  |  |  |  |  |  |  | Pere Joan Porcar: coses evengudes en la ciutat y regne de València |
| 14 | 1605 X 12 | Barcelona |  | 1.5h PM |  |  |  |  |  |  |  |  |  | Dietari del Antich Consell Barceloni, VIII |
| 15 | 1605 X 12 | Castelló d'Empúries | J.Pujades | noon-3:17 p.m. |  |  |  | corona noticed |  |  |  |  |  | Dietari de Jeroni Pujades (1601-1605) |
| 16 | 1605 X 12 | Forcalquier | G. Wendelin | 2h40m p.m. |  |  |  | NT |  |  |  |  |  | P.J.B.Riccioli : Astronomiae Reformate,II |
| 17 | 1605 X 12 | Marseille |  |  |  |  |  |  |  |  |  |  |  | P.J.B.Riccioli : Astronomiae Reformate,II |
| 18 | 1605 X 12 | near Napoli (?) |  |  |  |  |  |  |  |  |  |  |  | J.Kepler’s account in “De Stella Nova” |
| 19 | 1605 X 12 | Italy |  |  |  |  |  |  |  |  |  |  |  | Annali del Sacerdozio |
| 20 | 1605 X 12 | Bologna | C.Ghiradello |  |  |  |  | 11d31’ |  |  |  |  |  | Annales Celestes |
| 21 | 1605 X 12 | Palermo |  | 20h ASS |  |  |  |  |  |  |  |  |  | Diario di Palermo |
| 22 | 1505 X 12 | Palermo |  | 20h ASS |  |  |  |  |  |  |  |  |  | Nuove effemeridi Siciliane |
| 23 | 1605 X 12 | Enna |  | 20.5h ASS |  |  |  |  |  |  |  |  |  | Storia di Castrogiovanni |
| 24 | 1605 X 12 | Tbingen | M.Maestlin | CNTCS |  |  |  | 10.3d |  |  |  | V |  | Annales Celestes, J.C. Emmrich: Historia Coelestis, A leter do J.Kepler |
| 25 | 1605 X 12 | Mainz | R.Ziegler |  |  |  |  | 10d |  |  |  |  |  | The letter by Johann Reinhard Ziegler to Johann Kepler; Johannes Kepler: Gesammelte Werke, Band XV: Briefe 1604 – 1607, ed. 1951. |
| 26 | 1605 X 12 | Mainz | N.Serarius |  |  |  |  | 10-11d |  |  |  |  |  | The letter by Nicolaus Serarius to Johann Kepler; Johannes Kepler: Gesammelte Werke, Band XV: Briefe 1604 – 1607, ed. 1951. |
| 27 | 1605 X 12 | Praha | J.Kepler | CNTCS |  |  |  |  |  |  |  |  |  |  |
| 28 | 1605 X 12 | Brno |  |  | AN |  |  |  |  |  |  |  |  | Chronik von Brünn, 1555-1604 |
| 29 | 1605 X 12 | Middelburg | J.Rotarius | CNTCS |  |  |  | 10-11d |  |  |  |  |  | P.J.B.Riccioli : Almagestum novum,I |
| 30 | 1605 X 12 | London | Eric | CNTCS |  |  |  |  |  |  |  |  |  | Compilation |
| 31 | 1605 X 12 | Antwerp | Coignet | CNTCS |  |  |  |  |  |  |  |  |  | Compilation |
| 32 | 1605 X 12 | Osteel (?) | J.Fabricius | CNTCS |  |  |  | 9d |  |  |  |  |  | Annales Celestes,  Johannes Kepler: Gesammelte Werke, Band XV: Briefe 1604 – 1607, ed. 1951. |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |
| 1 | 1612 V 30 | København | Longomontanus | 1.5h |  |  |  | 72/3-8d |  |  |  |  |  | Johann C. Emmrich: Historia coelestis |
| 2 | 1612 V 30 | København | Longomontanus | 1.5h |  |  |  | 72/3-8d |  |  |  |  |  | Ch.Longomontanus: Astronomia Danica |
| 3 | 1612 V 30 | München | Ch.Scheiner | CNTS |  |  |  | **7d-** |  |  |  |  |  | Johann C. Emmrich: Historia coelestis |
| 4 | 1612 V 30 | Tübingen | M.Mästlin | CNTS |  |  |  |  |  |  |  |  |  | Johann C. Emmrich: Historia coelestis |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1614 X 3 | Valencia |  |  |  |  |  |  |  |  |  |  |  | Pere Joan Porcar: coses evengudes en la ciutat y regne de València |
| 2 | 1614 X 3 | Tübingen | M.Mästlin | 6 hd |  |  |  | 8 1/3d |  |  |  |  |  | J.C. Emmrich: Historia Coelestis |
| 3 | 1614 X 3 | Linz | J.Kepler  D.Fabricius | 1h47m PM |  |  |  | 9d+ |  |  |  |  |  | A.G. Pingré: Annales célestes |
| 4 | 1614 X 3 | München | Ch.Scheiner | CNTCS |  |  |  | 9d- |  |  |  |  |  | J.C. Emmrich: Historia Coelestis |
| 5 | 1614 X 3 | Venezia | S.Marius |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 1614 X 3 | Instanbul | Golius | AN |  |  |  | 0.5D |  |  |  |  |  | J.C. Emmrich: Historia Coelestis |
|  | **Date** | **Place** | **Observer** | **Timed** | **T** | **A** | **Dis** | **P** | **PH** | **GD** | **TW** | **SV** | **WD** | **Source** |

### THE ISLAMIC OBSERVATIONS 829-1004

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Date** | **Place** | **Observer** | **C** | **Timing** | **UT** | **Phase** |
| 1 | 829 XI 30 | Baghdad | al-Hasib | 1  4 | HS=7o (E)  HS=24o (E) | 4 36  6 26 |  |
| 2 | 866 VI 16 | Baghdad | al-Mahani | 1  m  4 | >1/3 un AN 7:26 un ASR  8:30 un ASR | >9 25  10 44  12 01 | 7.5d D |
| 3 | 891 VIII 8 | Raqqa | al-Battani  al-Biruni | m | 1 uh AN | 10 35 | 0.67+A |
| 4 | 901 I 23 | Antakya | al-Battani  al-Biruni | m | 3 40 eq BN | 6 10 | 0.5+A |
| 5 | 901 I 23 | Raqqa | Anonymous | m | <3 30 eq BN | >6 09 | 0.67-A |
| 6 | 923 XI 11 | Baghdad | ibn-Amajur | m  4 | HS=8o E  HS=20o E | 4 23  5 32 | 9d D |
| 7 | 928 VIII 18 | Baghdad | ibn-Amajur | m 4 | HS=11.9o E | 3 30 | 0.25 A |
| 8 | 977 XII 13 | Cairo | ibn-Yunus | 1 m  4 | HS=15.5o (E)  HS=33.3o (E) | 6 17  8 36 | 8d D |
| 9 | 978 VI 8 | Cairo | ibn-Yunus | 1  m  4 | HS=56o (W)  HS=26o (W) | 12 23  14 42 | 5.5d D |
| 10 | 979 V 28 | Cairo | ibn-Yunus | 1  m? | HS=6.5o (W) | 16 13 | 5.5d D |
| 11 | 985 VII 20 | Cairo | ibn-Yunus | 1  m  4 | HS=23o (W)  HS=6o (W) | 14 56  16 18 | 0.25 |
| 12 | 993 VIII 20 | Cairo | ibn-Yunus | 1  m  4 | HS=27o E  HS=45o E  HS=60o E | 5 36  7 01  8 17 | 0.67 A |
| 13 | 1004 I 24 | Cairo | ibn-Yunus | 1  m | HS=18.5o W  HS=16.5o W  HS=15o W  HS=10o W  HS=5o W | 13 51  14 02  14 05  14 37  15 03 | rem.  3d  6d  11d D |

**NOTATION:**

HS - altitude of the Sun

un - unequal hour

eq - equal hour

AN - after noon

BN - before noon

ASR - after sunrise

Phase :

A - of the solar disk surface, D -of the solar diameter

+ a little more than ..., - a little less than ...

d - in digits (12 = total eclipse, 6 = linear phase 0.50, etc.)

rem. - remarkable phase

**THE WEST-EUROPEAN OBSERVATIONS**

**IN THE XIVth TILL XVIIth CENTURY**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Date** | Place | **Observer** | **C** | **Timing** | **UT** | **Phase** |
| 1 | 1321 VI 26 | Orange | Levi ben Gerson | 1  m | 0h08m ASR  1h ASR | 4:12  5:04 | 11+d |
| 2 | 1330 VII 16 | Orange | Levi ben Gerson | m | 4h18m PM (?) | 16:04 | 9.5d |
| 3 | 1333 V 14 | Evreux | Jean de Muris | 1  m  4 | HS 50o  HS 33o | 14:11  16:02 | 10d |
| 4 | 1333 V 14 | Orange | Levi ben Gerson | m | 3h30m PM,  HS 41o | 15:06  15:05 |  |
| 5 | 1337 III 3 | St.Germain des Pres,  Paris | Jean de Muris | 1  m  4 | HS 10O  HS 27O |  | 5d |
| 6 | 1462 XI 21 | Viterbo | Regiomontanus | m?  4 | HS 26o 30' mer  HS 24o 36',  AS 16 15 | 11:01 ?  11:58 | 2d |
| 7 | 1473 IV 27 | Nrnberg | Regiomontanus | 4 | HS 25 | 6:20 |  |
| 8 | 1478 VII 29 | Nrnberg | B.Walther | 1  4 | HS 54.5o  HS 41.5 | 12:26  14:16 |  |
| 9 | 1485 III 16 | Nrnberg | B.Walther | 1  m  4 | 3h 26m PM  4 27 PM  5 28 PM | 14:48  15:49  16:50 | 11d |
| 10 | 1491 V 8 | Nrnberg | B.Walther | 1  4 | MC 19 gr.Gem  MC 26 gr.Cnc |  |  |
| 11 | 1493 X 10 | Nrnberg | B.Walther | 1  4 | 1-2h PM  4h 24m PM | -  15:25 |  |
| 12 | 1497 VII 29 | Nrnberg | B.Walther | 4 | 3h 24m PM | 14:44 |  |
| 13 | 1539 IV 18 | Milano | G.Cardano | m | 4h 19m PM | 15:39 | 9d |
| 14 | 1544 I 24 | Nrnberg | J.Funck | m |  |  | 11d |
| 15 | 1544 I 24 | Louvain | C.Gemma | m | 8h 53m PMD | 8:49 | 10d |
| 16 | 1545 VI 9 | Louvain | C.Gemma | m | 4h PM | 15:41 | 4 2/3 d |
| 17 | 1560 VIII 21 | Coimbra | Chr.Clavius | m |  |  | total |
| 18 | 1560 VIII 21 | Louvain | C.Gemma | 1  m  4 | >11h 00m PMD  1h 23m PM | >10:41  13:04 | 7.5d - |
| 19 | 1560 VIII 21 | Wien | P.Fabricius,  T.Stella | 1  m  4 | 0h 50m PM  1h 40m PM  2h 55m PM | 11:44  12:34  13:49 | 5.5d S |
| 20 | 1560 VIII 21 | Roma | E.Dantes | m | 1h 30m PM | 12:40 |  |
| 21 | 1560 VIII 21 | Venezia | Iunctinus | 1 | 11 50 PMD | 11:01? |  |
| 22 | 1560 VIII 21 | Bruxelles | Ph.Lansbergen | m  4 | 1h 48m PM | 13:30 | 6d 31' |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Date** | **Place** | **Observer** | **C** | **Timing** | **UT** | **Phase** |
| 23 | 1567 IV 9 | Roma | Chr.Clavius | m |  |  | annular |
| 24 | 1567 IV 9 | Tbingen | M.Mästlin | m |  |  | 10d- S |
| 25 | 1567 IV 9 | Duisburg | G.Kremer  (Mercator) | 1  4 | 10h25h PMD  1h PM | 9:57  12:32 |  |
| 26 | 1567 IV 9 | Louvain | C.Gemma | 1  m  4 | 10h12m PMD  11h40m PMD  >12.5 PMD | 9:52  11:20  >12:10 | 9d- |
| 27 | 1567 IV 9 | Grlitz |  | 1  m  4 | 10h53m PMD  12h25m PMD  1h47m PM | 9:52  11:24  12:46 | 8d25' |
| 28 | 1567 IV 9 \* | Rostock? | T.Brahe | m | 12h | 11:08 | 6d 29'S? |
|  |  |  |  |  |  |  |  |
| 29 | 1579 II 25 | Uraniborg | T. Brahe | m | 5h 50m PM | 17:11 | 5d 50' |
| 30 | 1584 V 10 | Uraniborg | T. Brahe | m | 5h 39m PMD | 16:44 | 3d 0' |
|  |  |  |  |  |  |  |  |
| 31 | 1588 II 26 | Uraniborg | T. Brahe | 1  4 | 1h32m, HS 32o  2h 51m,HS 12o | 12:55#  14:14# |  |
| 32 | 1590 VII 31 | Uraniborg | T.Brahe | 1  m  4 | 6h51m PMD  7h54m PMD  9h PMD | 6:06  7:09  8:15 | 4-5d |
| 33 | 1590 VII 31 | Tbingen | M.Mästlin | m  4 | HS 33o (M)  HS 41o1/4 | 7:27  8:18 | 6d |
| 34 | 1591 VII 20 | Uraniborg | T. Brahe | m | 3h 33m PM | 14:48 | 2.5d |
| 35 | 1593 V 30 | Zerbst |  | m | 2h 40m PM | 14:48 | 2d |
| 36 | 1593 V 30 | Uraniborg | T.Brahe |  |  |  | not seen |
| 37 | 1595 X 3 | Uraniborg | T. Brahe | m  4 | 1h08m PM  2 05 PM | 12:06  13:03 | 3d50' |
| 38 | 1595 X 3 | Tbingen | M.Mästlin | 1  m | >mer | >11:13 | 2.5d |
| 39 | 1595 X 3 | Graz | J.Kepler | 1 | V 51 1/6  V 55 |  | 3d |
| 40 | 1595 X 3 | Strasbourg |  | 1  4 | >12  1 00 PM | >11:18  12:18 |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Date** | Place | **Observer** | **C** | **Timing** | **UT** | **Phase** |
| 43 | 1598 III 7 | Wandesburg | T. Brahe | 1 | 9h52m PMD |  |  |
| 44 | 1598 III 7 | Rostock | Chr.Longo-  montanus | 1  remm  4 | > 10h04m PMD  10h 05  11h 10m  12h 35m | 9:27  9:28  10:33  11:58 | 9d10' |
| 45 | 1598 III 7 | Wittenberg | M.Joestell | m  4 | 11h 29m PMD  2/3h PM | 10:50  12:01 |  |
| 46 | 1598 III 7 | Frankfurt am Oder | D.Origanus | 1  m  4 | 10h20m PMD  11h28m and  11h 46m  12h 32m | 9:33  10:41  10:59  11:45 | 9d |
| 47 | 1598 III 7 | Graz | J.Kepler | 4 | 12 55 PMD | 12:05 |  |
| 48 | 1598 III 7 | Uraniborg | Tycho's students | 1  m  4 | 10d 03m PMD  ?  12h 32m PMD | 9:24  11:53 | 9d 40' |
|  | 1598 III 7 | Wolffenbüttel | J.Krabbe | 1  4 | 10:04 HS27o  12:12 |  |  |
| 49 | 1599 VII 22 | Praha | T.Brahe |  | HS=2o | 3:34 | 1d S |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Date | Place | Observer | C | Timing | UT | Phase |
| 50 | 1600 VII 10 | Graz | J.Kepler | 1  m  4 | 0 37.5 PM  1 47.5 PM\*\*  2 57.5 PM | 11:41  12:51  14:01 | 6+d(7.5?) |
| 51 | 1600 VII 10 | Benátky | T. Brahe | 1  m  4 | >12h40m,  HS 60 35'  1h 46.5m PM  2 44 1/6,  HS 47o43.5' | >11:45  11:50  12:52  13:50  13:48 | 0.5d  5d |
|  | 1600 VII 10 | Grüningen | J.Krabbe | 1  4 | 12:30  2:42 PM  HS 46o10’ |  |  |
| 52 | 1601 XIII 24 | near Bergen |  | m |  |  | annular |
| 53 | 1601 XII 24 | Goes | Ph.Lansbergen | m | 1h50m | 13:35 | annular |
| 54 | 1601 XII 24 | Praha | J.Kepler | 1  m | 1h17.5m PM  2 h53.5m  3h21m | 12:21  13:56  14:24 | 8d  5.5d |
| 55 | 1605 X 12 | Tübingen | M.Mästlin | 1  m  4 | HS 33o20’  HS 20o45’ | 12:10  14:? | 10.3d-10.4d |
|  | 1605 X 12 | Wolffenbüttel | J.Krabbe | 1  4 | 0:50 PM HS 29o  3:08 PM HS 22o |  |  |
| 56 | 1605 X 12 | Middelburg | J.Rotarius | m | 1 15 PM | 12:47 | 10-11d S |
| 57 | 1605 X 12 | Forcalquier | G.Wendelin | m  4? | 2 40 PM | 14:03 | nearly total |
| 58 | 1605 X 12 | London | Eric | m? | 1h06m | 12:53 |  |
| 59 | 1605 X 12 | Antwerp | Coignet | m? | 1h06m | 12:35 |  |
| 60 | 1605 X 12 | Osteel | J.Fabricius | m?  4 | 1h06m  3h00m | 12:24  14:18 |  |
| 61 | 1608 VIII 10 | Goes | Ph.Lansbergen | m | 4h 8m PM | 15:57 | 2.5d S |
| 62 | 1608 VIII 10 | Wittenberg | M.Joestell | m |  |  | 2d- |
| 63 | 1608 VIII 10 | Kφbenhavn | Chr.  Longomontanus | m |  |  | not seen |
| 64 | 1612 V 30 | Ingolstadt | Ch.Scheiner | 1  m  4 | 10h PMD  12h45m PMD | 9:11  11:56 | 8d |
| 65 | 1612 V 30 | München |  | 1  m  4 | 10h AM  12h45m |  | 7d- |
| 66 | 1612 V 30 | Kφbenhavn | Chr.  Longomontanus | 1  m  4 | 10h14m40s  11.5h  12h23m45s | 9:24  11:52 | 8d |
| 67 | 1612 V 30 | Linz | J.Kepler | 1  m  4 | 10h24m PMD  12h52m PMD | 9:24  11:52 | 6d- |
| 68 | 1612 V 30 | Roma | J.Remus | 1  4 | 10h PMD  12h24mPMD | 9:07  11:31 |  |
| 69 | 1612 V 30 | Roma | a Belgian Mathematician | m  4 | 12h28m PMD | 11:35 | 4.75d |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Date | Place | Observer | C | Timing | UT | Phase |
| 69 | 1614 X 3 | Tbingen | M.Mästlin | m  4 | 1h26m occid.  HS 34 o 2/3 | 12:39  12:33 | 8 1/3 d |
| 70 | 1614 X 3 | Linz | J.Kepler  D.Fabricius | m  4 | 1h47m PM | 12:39 | 9d+ |
| 71 | 1614 X 3 | Mnchen | Ch.Scheiner | 1  m  4 | 11h15m PMD  1h45m PM | 10:18  12:48 | 9d- |

**NOTATION :**

1- first contact

4 - fourth contact

m - maximum phase

hor- the Sun on the horizon

rem - remarkable phase

AM – anti meridiem (before true midday)

PM - post meridiem ( past true midday )

PMD - past midnight

mer - exactly in the meridian

>mer - past the transit through the meridian

MC - "medium coeli" - equivalent to the sideral time

\*\* - mean value of the 1st and the 4rd contacts

HS - altitude of the Sun

AS - azimuth of the Sun ( from the local meridian )

V - vertical angle

**REMARKS :**

**\***  less credible observation ( maybe the prediction written down )

(M) - more contacts and estimations of the phase noted

# the moment according to the direct timing; altitude of the Sun wrongly

measured

**The list of the above observations was prepared according to the following sources :**

T.Brahe : Opera Astronomica. Amsterdam, 1699.

Epistolae ad Joannem Keplerum. Frankfurt, 1718.

P.Gassendi : de Tychonis Brahei vita.

B.R.Goldstein : Medieval observations of solar and lunar eclipses. Arch.int.d'hist.des sciences,

1979, 29,no.104,p.102-156.

J.Kepler : Opera Omnia. Astronomiae pars optica. Frankfurt, 1859.

Epistolae ad Joannem Keplerum. Frankfurt, 1718.

Riccioli G.B. : Almagestum novum. Bologna, 1651.

Regiomontanus J.: Eclipsium, cometarum ... observationes. Nrnberg, 1544.

**THE POLISH OBSERVATIONS OF THE XVIth CENTURY**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Place** | **Observer** | **C** | **Timing** | **UT** | **Phase** |
| 1502 X 1 | Kraków | M.Biem | 1  m  4 | 13:15 ASS  14:24 ASS  15:29 ASS | 5:21  6:30  7:35 | < 11d |
| 1518 VI 8 | Olkusz  Kraków ? | M.Biem  M.Kopernik | 1  m  1  m  4  4 | 9:15 ASS  10:30 ASS  17:19 PM  18:26 PM  19 34 PM  HS 32o (E ) | 4:09  5:08  4:00  5:07  6:15  6:15 | ca 10d  ca 10d |
| 1530 III 29 | Kraków  Frombork | M.Biem  M.Kopernik | 1  m  4  1  m  4 | 11:20 ASS  12:15 ASS  13:08 ASS  17:58 PM  18:54 PM  19:50 PM | 4:40  5:35  6:28  4:42  5:38  6:34 | >7d  8d |
| 1536 VI 18 | Frombork | M.Kopernik | m |  |  | ca 9d |
| 1539 IV 18 | Frombork | M.Kopernik | 4 | 5:44 PM | 16:22 |  |
| 1540 IV 7 | Frombork | M.Kopernik | m  4 | 18:40 PM | 5:21 | 11d |
| 1541 VIII 21 | Frombork | M.Kopernik | m  4 | 2:24 PM | 13:05 | <4.5d |

**NOTATION :**

C - contact No : 1 - beginning, m- middle , 4- end

PM - after ( true ) noon

ASS - after sunset ( of the previous day )

HS - altitude of the Sun

Phase : in digits

**THE STATEMENT OF THE COORDINATES**

**OF THE OBSERVATION PLACES**

|  |  |  |
| --- | --- | --- |
| **Place** | **Longitude** | **Latitude** |
| Admont | 14 29’ | 47 35 |
| Aleppo | 37 10 | 36 14 |
| Alexandria | 29 54 | 31 12 |
| Altaich | 13 02 | 48 46 |
| Altzelle | 13 16 | 51 04 |
| Anchin | 3.1 | 50.4 |
| Angers | - 0 33 | 47 29 |
| Antakya (Antioch) | 36 10 | 36 12 |
| Antwerp | 4 25 | 51 13 |
| S.Amand-les-Eaux | 3 26 | 50 27 |
| Arezzo | 11 54 | 43 28 |
| Asti | 8 12 | 44 54 |
| Athena (Athens) | 23 44 | 38 00 |
| Augsburg | 10 54 | 48 22 |
| Avignon | 4 49 | 43 57 |
| Babylon | 44 25 | 32 33 |
| Baghdad | 44 26 | 33 20 |
| Barcelona | 2 15 | 41 25 |
| Basel | 7 35 | 47 36 |
| Belvoir | 0 43 | 52 54 |
| Benatky | 14 50 | 50 18 |
| Bergamo | 9 40 | 45 42 |
| Bergen | 5 21 | 60 23 |
| Bielefeld | 8 33 | 52 04 |
| Bologna | 11 21 | 44 30 |
| Bourbourg | 2 11 | 50 57 |
| Bourges | 2 25 | 47 04 |
| Braunschweig | 10 30 | 52 15 |
| Brauweiler | 7 30 | 49 48 |
| Brescia | 10 13 | 45 32 |
| Brugges | 3 14 | 51 13 |
| Bruxelles | 4 21 | 50 50 |
| Cairo (al-Qahira) | 31 15 | 30 02 |
| Cambrai | 3 14 | 50 11 |
| Canterbury | 1 05 | 51 17 |
| Catania | 15 06 | 37 31 |
| Cava,La | 14 43 | 40 42 |
| Celle | 10 02 | 52 36 |
| Cerrato | -4 31 | 41 57 |

|  |  |  |
| --- | --- | --- |
| **Place** | **Longitude** | **Latitude** |
| Cesena | 12 15 | 44 08 |
| Cheroneia | 22 51 | 38 29 |
| Cizre | 42 11 | 37 21 |
| Clermont | 3 05 | 45 47 |
| Cluny | 4 37 | 46 27 |
| Coimbra | -8 25 | 40 13 |
| Como | 9 05 | 45 48 |
| Constantinople (Istanbul) | 28 59 | 41 01 |
| Cordoba | -4 46 | 37 53 |
| Corfu Island  (Corfu City) | 19 56 | 39 57 |
| Corvei | 9 24 | 51 48 |
| on Danube river | 17 00 | 48 10 |
| St.Denis | 2 22 | 48 56 |
| Diessenhoven | 11 07 | 47 56 |
| Digne | 6 13 | 44 06 |
| Dijon | 5 02 | 47 19 |
| Disibodenberg | 7 43 | 49 47 |
| on Donetz River | 37 | 50 |
| Duisburg | 6 45 | 51 20 |
| Durham | -1 35 | 54 47 |
| Edinburgh | -3 11 | 55 52 |
| Edirne | 26 34 | 41 40 |
| Egmond aan Zee | 4 38 | 52 40 |
| Ellwangen | 10 09 | 48 57 |
| Ensdorf | 11 55 | 49 27 |
| Erfurt | 11 02 | 50 59 |
| Evreux | 1 11 | 49 03 |
| Fastov | 29 55 | 50 05 |
| Firenze | 11 15 | 43 46 |
| Fleury | 2 27 | 47 40 |
| Floreffe | 4 47 | 50 26 |
| Foligno | 12 42 | 42 57 |
| Forcalquier | 5 47 | 43 58 |
| Fosse | 4 44 | 50 24 |
| Frankfurt a.O. | 14 33 | 52 20 |
| Freiburg | 7 51 | 47 59 |
| Freising | 11 43 | 48 24 |
| Frombork | 19 42 | 54 22 |
| Fulda | 9 40 | 50 33 |
| Galich | 24 42 | 49 05 |
| Gembloux | 4 42 | 50 33 |
| Genova | 8 55 | 44 25 |
| Grlitz | 14 57 | 51 08 |
| Goes | 3 54 | 51 31 |
| Graz | 15 27 | 47 05 |

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| **Place** | **Longitude** | **Latitude** |
| Halys River | 35 | 39 |
| Hamburg | 7 38 | 53 33 |
| Haselbach | 16 21 | 48 39 |
| Heiligenkreuz | 16 08 | 48 04 |
| Heilsbronn | 10 45 | 49 20 |
| Herzogenrath | 6.1 | 50.8 |
| Hirschau | 11 58 | 49 33 |
| Inglostadt | 11 26 | 48 46 |
| Jaen | -3 17 | 37 46 |
| Jerusalem | 35 13 | 31 47 |
| Kamieniec Z. | 16 43 | 50 31 |
| Karltejn | 14 02 | 49 57 |
| Kiev | 30 32 | 50 25 |
| Kφbenhavn | 12 34 | 55 43 |
| Kobrin/Mytho | 25 | 53 |
| Konstanz | 9 11 | 47 40 |
| Kln | 6 57 | 50 49 |
| Kraków (Cracow) | 19 56 | 50 03 |
| Lambach | 13 52 | 48 05 |
| Leipzig | 12 23 | 51 20 |
| Liege | 5 30 | 50 32 |
| Linz | 14 18 | 48 16 |
| Leoben | 15 05 | 47 24 |
| London | -0 10 | 51 30 |
| Louvain | 4 42 | 50 53 |
| Lucca | 10 31 | 43 51 |
| Lbeck | 10 41 | 53 52 |
| Lyon | 4 49 | 45 46 |
| Magdeburg | 11 38 | 52 08 |
| Mainz | 8 17 | 50 01 |
| Malmesbury | -2 06 | 51 35 |
| Marienburg | 19 00 | 54 01 |
| Marola | 10 30 | 44 30 |
| Marseille | 5 22 | 43 18 |
| Melk | 15 21 | 48 14 |
| Melrose | -2.7 | 55.6 |
| Metz | 6 10 | 49 07 |
| Middelburg | 3 36 | 51 30 |
| Milano (Milan) | 9 11 | 45 27 |
| Mirandola | 11 04 | 44 53 |
| Modena | 10 56 | 44 39 |
| Monte Cassino | 13 49 | 41 29 |
| Montpellier | 3 53 | 43 37 |
| Moskva | 37 38 | 55 45 |
| Mnchen | 11 36 | 48 09 |
| Mnster | 7 37 | 51 58 |

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| **Place** | **Longitude** | **Latitude** |
| Napoli (Naples) | 14 16 | 40 52 |
| Neuberg | 15 33 | 47 04 |
| Neuf-Moustier | 5 15 | 50 32 |
| Neyshabur | 58 24 | 36 05 |
| Novgorod, Great | 31 20 | 58 30 |
| Nrnberg | 11 05 | 49 27 |
| Olkusz | 19 34 | 50 16 |
| Orange | 4 49 | 44 08 |
| Orkney | -2 57 | 59 58 |
| on Orontes River | 36.4 | 34.4 |
| Osney | -1 16 | 51 45 |
| Osteel | 7.2 | 53.3 |
| Oxfordshire | -1.2 | 51.8 |
| Paderborn | 8 45 | 51 43 |
| Pamplona | -1 39 | 42 49 |
| Parma | 10 19 | 44 49 |
| Passau | 13 28 | 48 34 |
| Perugia | 12 22 | 43 07 |
| Piacenza | 9 41 | 45 03 |
| Praha (Prague) | 14 25 | 50 06 |
| Pskov | 28 18 | 57 49 |
| Racibórz | 18 14 | 50 05 |
| Raqqa | 39 03 | 35 57 |
| Ravenna | 12 11 | 44 24 |
| Regensburg | 12 05 | 49 01 |
| Reggio d’Emilia | 10 38 | 44 42 |
| Reichersberg | 13 22 | 48 20 |
| Reykyavik | -21 55 | 64 08 |
| Roma (Rome) | 12 29 | 41 54 |
| Rostock | 12 07 | 54 05 |
| Rouen | 1 06 | 49 27 |
| St.Germain, Paris | 2 20 | 48 52 |
| Salzburg | 13 04 | 47 48 |
| Schaffhausen | 8 38 | 47 41 |
| Scheftlarn | 1 28 | 47 52 |
| Sevilla | -5 58 | 37 22 |
| Siena | 11 20 | 43 19 |
| Split | 16 27 | 43 30 |
| Stade | 9 29 | 53 37 |
| Stralsund | 13 05 | 54 18 |
| Strasbourg | 7 46 | 49 38 |
| Tarsus | 34 53 | 36 54 |
| Tewkesbury | -2 12 | 52 00 |
| Toledo | -4 02 | 39 52 |
| Tbingen | 9 04 | 48 31 |
| Tver | 35 54 | 56 43 |

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| **Place** | **Longitude** | **Latitude** |
| Ugarit | 35 47 | 35 37 |
| Uraniborg | 12 44 | 55 54 |
| Venezia | 12 19 | 45 26 |
| Verona | 10 59 | 45 26 |
| Vigeois | 1 31 | 45 23 |
| Viterbo | 12 05 | 42 24 |
| Wandesburg | ? | ? |
| Weltenburg | 11.9 | 48.9 |
| Wien (Vienna) | 16 22 | 48 12 |
| Windberg | 7 32 | 52 54 |
| Wittenberg | 12 36 | 51 54 |
| Worcester | -2 14 | 52 12 |
| Worms | 8 23 | 49 38 |
| Wrocław | 17 02 | 51 07 |
| Wrzburg | 9 56 | 49 48 |
| Xanten | 6 27 | 51 40 |
| Zerbst | 12 05 | 51 57 |
| Zrich | 8 33 | 47 23 |
| Zwiefalten | 9 37 | 48 17 |

##### BIBLIOGRAPHY

### COLLECTIVE PUBLICATONS

**Basl.Chr.** Basler Chroniken, Bd. 1-5, Ed.A.Bernoulli, 1985.

**BRG**  Bibliotheca rerum Germanicarum, t.1-6,

ed. Ph.Jaffe, Berlin, 1864-1873.

**CDB** Codex Diplomaticus Brandenburgiae, t.1-4, ed.Riedel.

**Ch.d.d.St.** Chroniken der deutschen Stdte vom 14 bis 16 Jahrhundert,

Bd.1-30, Leipzig, 1862-1892.

**Chr. d’Anjou**  Chroniques d’Anjou, t.1-2, ed.P.Marchegay et A.Salmon.

**CHMA** Corpus Historii Medii Aevi, t.1-2, ed.J.G.Eccard, 1723-1743.

**CRC** Cronicas de los reyes de Castilla, t.1-3,

ed. C.Rosell, Bibl. de auctores espaoles, Madrid, 1875-1878.

**CSHB**  Corpus Scriptorum Historiae Byzantinae, t.1-37, Bonn, 1828-1878.

**ES** Espaa Sagrada, t.1-51, ed.H.Florez, Madrid, 1747-1886.

**FRA** Fontes rerum Austriacarum, t.1-2, Wien, 1855-1866.

**FRB** Fontes rerum Bohemicarum, t.1-5, Praha, 1873-1882.

**FRG** Fontes rerum Germanicarum, t.1-4, ed. J.F. Bhmer, Stuttgart, 1843-1868.

**MGH SS** Monumenta Germaniae Historica. Scriptores, ed. G.Pertz, t.I-XXIX, Hannover, 1826-1892.

**MGH SS auct. antiq.** Monumenta Germaniae Historica. Auctores antiquissimi, t.1-13,

Berlin, 1877-1894.

**MGH SS** Monumenta Germaniae Historica. Scriptores rerum

**rer. Longob.et Italic.** Longobardicarum et Italicarum saec. VI-IX, ed.G.Waitz, Hannover, 1878.

**MGH SS** Monumenta Germaniae Historica. Scriptores rerum Merovingicarum,

**rer. Meroving.** t.1-2, Hannover, 1885-1888.

**MGH SSus.sch.** Monumenta Germaniae Historica in usum scholarum (Scriptores rerum Germanicarum), t.1-42, Hannover, 1840-1894.

**MHP** Monumenta Historiae Patriae. Scriptores, vol.II-V, ed.A.Taurin, 1840-1848.

**PMH** Portugaliae Monumenta Historica, vol.I, Olisipone, 1856-1861.

### INDIVIDUAL PUBLICATONS

**Batereau Jean :** Chronique de Bourges 1467-1506, ed. J.Havet, 1882.

**Binhard Johannes** : Thüringische Chronica, 1613.

**Bonfini Antonio** : Rerum Ungaricarum decades quator. Basel, 1581.

**Brahe Tycho** : Opera astronomica. Amsterdam, 1699

**BüntingH**.: Chronologia Catholica. Zerbst, 1590.

Chronicle of Melrose. Ed.J.Stevenson, Edinburgh, 1835.

Chronicon Ratiborense. Ed. in Zeitschrift des Vereins fuer Geschichte Schlesiens, IV,1862, p.114-126.

Chronique de Metz. Ed. Les chroniques de la ville de Metz, 1838.

Chronique de Michel le Syrien, patriarche jacobite d’Antioche (1166-1193), t.1-4, ed.J.B.Chabat, Paris, 1901-1904.

**Crusius Martinus** (Krauss Martin) : Annales Suevici, Frankfurt, 1595.

**Crusius Martinus** (Krauss Martin) : Schwäbische Chronick, Frankfurt, 1733.

**Emmrich Johann Conrad**: Historia coelestis: complectens observationes astronomicas varias ad historiam coelestem spectantes…, Regensburg, 1672.

Epistolae ad Ioannem Keplerum, Frankfurt, 1718.

**Gassendi Pierre** : Opera Omnia, Lyon, 1658.

t.4 : Opuscula astronomica

t.5. Notitia Ecclesiae Diniensis

**Hevelius Johann**: Machinae Coelestis pars prior, Gdańsk, 1673, pars posterior, 1679.

**Długosz Jan:**Joannis Dlugossi Annales, t.1-11, Warszawa, 1964-1985.

**Ginzel** , **F. K.**: **Astronomische** Untersuchungen uber Finsternisse , III . Sitzungsberichte der Kaiserlichen Akademie des Wissenschaften, Wien, Math.-Naturwiss. Kl. 89, 491-559, 1884.

**Kepler Johann** : Opera Omnia. Astronomiae pars optica, Mnchen, 1939.

**Leunclavius (Löwenklau) Io.** : Historiae musulmanae Turcorum de Monumentis ipsorum exscripta, Libri XVIII. (many editions).

**Lindsay R**.: Chronicles of Scotland, t.1,2, Edinburgh, 1814.

**Longomontanus Christian S**. : Astronomia Danica, 1622.

**Maciej z Miechowa** (Mechovius) : Chronica Polonorum, 1521.

**Maillard Benoît** : Chronique. Ed. G.Guigue, Lyon, 1883 (with the translation into French).

Necrologia des Stifts Kamenz Ed. in Zeitschrift des Vereins fuer Geschichte Schlesiens, IV,1862, p.308.

**Newton**, **R. R.**, Medieval Chronicles and the Rotation of the Earth. Johns Hopkins University Press, Baltimore 1972.

**Newton**, .**R. R.** : **Ancient Astronomical** Observations and the Accelerations of the Earth and Moon, Johns Hopkins U. Press, Baltimore, 1970.

**Palačky F**: Dilo Františka Palačkeho, Praha, 1941, t.1,2.

**Pingré A.G.:** Annales Célestes du dix-septième siècle. Ed. Bigourdan M.G., Paris, 1901.

**Regiomontanus J**.: Eclipsium, cometarum ... observationes, Nrnberg, 1544.

**Riccioli GiovanniB**.: Astronomiae Reformate Tomi duo, t.II,Liber II, 1655.

**Stephenson F.R.** : Historical Eclipses and Earth’s Rotation. Cambridge, 1997.

Strals.Chron. - Stralsunder Chronik. Ed.Zober, 1862.

**Stryjkowski Maciej** : Kronika polska, litewska, żmódzka i wszystkiej Rusi, Królewiec, 1582.

Synaxarium Alexandrinum. Ed.I.Forget, Louvain, 1963.

**Tritheimus J**.: Annales Hirsaugenses seu Chronicon Hirsaugenses. St.Gallen, 1690.

**Xenophon** : Hellenica (many editions).

#### HISTORIOGRAPHY

**Jansen M., Schmitz-Kallenberg L.:** Historiographie und Quellen der deutschen Geschichte bis 1500.

**Kuzmik J**.: Slovnik starovekovych a stredovekovych avtorov. t.1-2, Martin, 1983.

**Lhotsky A.:** Quellenkunde zur Mittelalterichen Geschichte sterreichs. Graz, 1963.

**Manitius M.:** Geschichte der lateinischen Literatur des Mittelalters. Mnchen, 1964.

**Potthast A**.: Wegweiser durch die Geschichtswerke des Europischen Mittelalters bis.1500. Graz, 1957, t.1-2.

**Priselkov M.D.:** Istorija russkogo letopisanija XI-XV v. (History of Writing of the Russian Annals in XI-XV centuries), Leningrad, 1940.

**Wattenbach W**.: Deutschlands Geschichtsquellen im Mittelalter. Berlin, 1876.

OBSERVATIONS OF GREAT SOLAR ECLIPSES IN THE TELESCOPIC TIMES IN EUROPE AND THE NEAR EAST

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1621 V 21 | Luffenham | England | Wing | Almost annular eclipse, stars appeared? | Astronomica Britannica, Annales Celestes |
| 2 | 1621 V 21 | Danzig/Gdańsk | Poland | Krüger | Max. 10.3d | Annales Celestes |
| 3 | 1621 V 21 | Stuttgart | Germany | Kepler | Max. 10d | Annales Celestes |
| 4 | 1621 V 21 | Middelburg | The Netherlands | Lansbergen | Beginning and end timed, Max. 102/3(Pingre 11d12’) | Annales Celestes, Uranometria |
| 6 | 1621 V 21 | Dordrecht | The Nerherlands | Hortensius | Max. 10d07’ | Annales Celestes |
| 7 | 1621 V 21 | Aix | France | Gassendi | Max. 9d23’ | Annales Celestes |
| 8 | 1621 V 21 | Adrianopol | Turkey | Anonymous | Max. 2/3 D | J.C. Emmrich: Historia Coelestis |

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| 1 | 1630 VI 10 | Tübingen | Germany | Schickard | Max. 11.5d | J.C. Emmrich: Historia Coelestis,  Annales Celestes |
| 2 | 1630 VI 10 | Butzbach | Germany | Landgrave of Hesse | Max.possibly10.5d | J.C. Emmrich: Historia Coelestis,  Annales Celestes |
| 3 | 1630 VI 10 | Ebersberg | Germany | Jesuits | Max. 10d14’ | J.C. Emmrich: Historia Coelestis,  Annales Celestes |
| 4 | 1630 VI 10 | Ingolstadt | Germany | A.Arzet,  Cysat | Max.11d57’ | Annales Celestes,  [G. B. Riccioli](https://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Giovanni+Battista+Riccioli%22): Almagestum novum |
| 5 | 1630 VI 10 | Dordrecht | The Nerherlands | Hortensius | Max. 10.625d | Annales Celestes |
| 6 | 1630 VI 10 | Dordrecht | The Nerherlands | Beekman | Contacts | [Journal tenu par Isaac Beeckman](http://www.historyofscience.nl/search/detail.cfm?startrow=158&view=image&pubid=94), t.3 |
| 7 | 1630 VI 10 | Graz | Austria | Kepler | Max. 7d10’ | Astronomiae pars optica |
| 8 | 1630 VI 10 | Middelburg | The Nerherlands | Lansbergen | Max. 10.667d | Annales Celestes |
| 9 | 1630 VI 10 | Paris | France | Gassendi | Max. 11d32’ | A letter of P.Gassendi to J.Golius,  Annales Celestes |
| 10 | 1630 VI 10 | Caen | France | Massé | Max. 11d | Annales Celestes |
| 11 | 1630 VI 10 | Forum Naevii | Italy | Riccioli | Max. 11.5d | Annales Celestes, Almagestum Novum, I |
| 12 | 1630 VI 10 | Paris | France | Beaugrand |  | A letter to Marin Mersenne |
| 13 | 1630 VI 30 | Oxford | England | Bainbridge | Max. 11.667d | J.C. Emmrich: Historia Coelestis,  Annales Celestes |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1639 VI 1 | Danzig/Gdańsk | Poland | Hevelius | Big partial eclipse observed,  Max. 10d48’ | Machinae Coelestis, p.I, Lib.II |
| 2 | 1639 VI 1 | Königsberg | Prussia | Linnemann | Almost annular eclipse seen,  Max. 11.5 digits, Venus remarked | G.B.Riccioli, Almagestum Novum, Bologna, 1651,  Annales Celestes |
| 3 | 1639 VI 1 | Ebersberg | Germany | Anonymous | Max. 9d56’ | Annales Celestes |
| 4 | 1639 VI 1 | Leyden | The Netherlands | Kechel | Max. 10d20’ | Almagestum Novum,I, Annales Celestes |
| 5 | 1639 VI 1 | London | England | Foster  and Twisden | Max. 9d 24’ | Samuel Foster: Miscellanea, sive lucubrationes mathematicae,  Annales Celestes |
| 6 | 1639 VI 1 | Lussenham | England | Wing | Beginning and end timed | Astronomica Britannica, Annales Celestes |
| 7 | 1639 VI 1 | Middleton | England | Gascoigne | Max. 9d40’ | Hist.coel.Brit., Annales Celestes |
| 8 | 1639 VI 1 | Much Hoole | England | Horrox | Max. 9d30’ | [J.](https://www.google.pl/search?hl=pl&tbm=bks&tbm=bks&q=inauthor:%22Jeremiah+Horrocks%22&sa=X&ved=0ahUKEwjGgfz38P3PAhWKiSwKHUWdAXwQ9AgIIjAA) Horroccii Opera posthuma,  Annales Celestes |
| 9 | 1639 VI 1 | Paris | France | Boulliau | Max. 8.75d | Annales Celestes |
| 10 | 1639 VI 1 | Paris | France | Beaugrand, Pascal and Hardi | Max. 9d34’ | Annales Celestes |
| 11 | 1639 VI 1 | Paris | France | Roberval, Midorge, Petaut | First and last contacts recorded | [G. Fournier](https://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Georges+Fournier%22): Hydrographie,  Annales Celestes |
| 12 | 1639 VI 1 | Blois | France | Beaune | Max. 8.5d | Annales Celestes |
| 13 | 1639 VI 1 | Flèche | France | Fournier, Vatier, Dariennes | Beginning, maximum and end timed | Annales Celestes |
| 14 | 1639 VI 1 | Aix | France | Gassendi | Max. 8d10’ – 8d16’ | Annales Celestes |
| 15 | 1639 VI 1 | Règues | France | Agarrat | Max. 8d30’ | Annales Celestes |
| 16 | 1639 VI 1 | Roma | Italy | Berti | Max. 8.5d | Annales Celestes |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1652 IV 8 | Carrickfergus | Ireland | Wyberd | Solar corona remarked | V.Wing: Astronomia Brittanica, 1669 |
| 2 | 1652 IV 8 | Edinburgh | Scotland | Lamont | Solar corona and Venus remarked | Original diary |
| 3 | 1652 IV 8 | Edinburgh | Scotland | unknown | Great darkness and fear, some stars seen | Memorials, or the memorable things that fell out within this island of Britain  from 1638 to 1684 |
| 4 | 1652 IV 8 | Edinburgh | Scotland | Nicoll | Great darkness and fear | A diary of public transactions and other occurrences, chiefly in Scotland, from January 1650 to June 1667 by John Nicoll |
| 5 | 1652 IV 8 | Edinburgh | Scotland | unknown | Great darkness for 8 minutes, a clear star seen | Records of the Royal Burgh of Peebles, 1604-52 |
| 6 | 1652 IV 8 | Dunfermline | Scotland | unknown | Graet darknees, Mirk Monday | Parish register of births, baptisms and marriages |
| 7 | 1652 IV 8 | Danzig/Gdańsk | Poland | Hevelius | Contacts, max. 9.375d | Machinae Coelestis, p.I |
| 8 | 1652 IV 8 | Uppsala | Sweden | unknown | Contacts, max. 9d52’ | Annales Celestes... |
| 9 | 1652 IV 8 | Warszawa | Poland | des Noyers | Contacts, max. 8.5d | Annales Celestes… |
| 10 | 1652 IV 8 | Königsberg | Prussia | Linnemann | Contacts | Annales Celestes... |
| 11 | 1652 IV 8 | Leyden | Belgium | unknown | Contacts, max. 11.167d=0.931  Venus, Mercury and some bright stars seen | Annales Celestes… |
| 12 | 1652 IV 8 | Bruxelles | Belgium | Langren | Contacts, max. 10d10’=0.847 | Annales Celestes... |
| 13 | 1652 IV 8 | London | England | Foster | Max. 11d=0.917 | Annales Celestes… |
| 14 | 1652 IV 8 | London | England | Leybourn | Max. 11d=0.917 | Annales Celestes... |
| 15 | 1652 IV 8 | Ecton | England | Palmer | Contacts, max. 11d22.5’=0.948 | Annales Celestes… |
| 16 | 1652 IV 8 | Eston | England | Twysden | Contacts, max. 11d15’=0.938 | Annales Celestes... |
| 17 | 1652 IV 8 | Tournay | France | Wendelin | Contacts | Annales Celestes… |
| 18 | 1652 IV 8 | Paris | France | Boulliau | Contacts,10d25’=0.868 | Annales Celestes... |
| 19 | 1652 IV 8 | Paris | France | Petit, Azout, Bout et al. | Contacts, max. 10d20-25’=0.861-0.868 | Annales Celestes… |
| 20 | 1652 IV 8 | Paris | France | de Roberval, Milon | Contacts, max. 10.25d=0.854 | Annales Celestes... |
| 21 | 1652 IV 8 | Paris | France | Bourdin, Gaynot | Contacts | Annales Celestes… |
| 22 | 1652 IV 8 | Paris | France | Jesuits | Contacts, max. 10d20’=0.861 | Annales Celestes... |
| 23 | 1652 IV 8 | Paris | France | Morin | Contacts, max. 10d18’=0.858 | Annales Celestes… |
| 24 | 1652 IV 8 | Digne | France | Gassendi | Contacts, max. 9d24’=0.783 | Annales Celestes... |
| 25 | 1652 IV 8 | Avignon | France | Saint-Léger | Contacts | Annales Celestes… |
| 26 | 1652 IV 8 | Aix | France | Gautier | Contacts, max. 9d=0.750 | Annales Celestes... |
| 27 | 1652 IV 8 | Castres | France |  | Max. 0.75 | Le livre de raison de Jean de Bouffard-Madiane |
| 28 | 1652 IV 8 | Roma | Italy | Payen | Contacts. Max.7.25d=0.604 | Annales Celestes… |
| 29 | 1652 IV 8 | Roma | Italy | d’Albert | Contacts | Annales Celestes... |
| 30 | 1652 IV 8 | Bolonia | Italy | Riccioli,  Grimaldi | Contacts, max. 8d48’=0.733 | Annales Celestes… |
| 31 | 1652 IV 8 | Madrid | Spain | unknown | Contacts, max. 9d10’=0.764 | Annales Celestes... |
| 32 | 1652 IV 8 | Mallorca | Spain | Mut | Contacts, max. 9d47’=0.815 | Annales Celestes… |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1654 VIII 12 | København | Denmark | anonymous | The day turned into night,  bright stars seen in the sky | Nicolaus Höpffner  Kurtzer Entwurff... |
| 2 | 1654 VIII 12 | København | Denmark | anonymous | Total eclipse, a great darkness, stars visible in the sky, a fear | Theatrum Europaeum |
| 3 | 1654 VIII 12 | København | Denmark | anonymous | Total eclipse, a great darkness, stars visible in the sky, a fear | Johann S. Güthen: Poligraphia Meiningensis |
| 4 | 1654 VIII 12 | Vejle | Denmark | anonymous | Max. 10.5d | [Vejle Amts Aarbøger](https://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Vejle+Amts+historiske+Samfund%22) |
|  | 1654 VIII 12 | Bornholm | Demark | anonymous | Max. 10d | Bornholmske samlinger |
| 5 | 1654 VIII 12 | Kiel | Germany | Bremer | A deep solar eclipse, remarkable darkening of the daylight, a fear | Asmus Bremer: Chronicon Kilense tragicum-curiosum  Anno 1432 – Anno 1717 |
| 6 | 1654 VIII 12 | Danzig/Gdańsk | Poland | Hevelius | Almost total or short total eclipse  in the overcast sky | J.Hevelius: Machinae Coelestis, p.I, Lib.II |
| 7 | 1654 VIII 12 | Grudziądz | Poland | Anonymous | Great darkness | Die Annalen der Stadt Graudenz  1563-1660 |
| 8 | 1654 VIII 12 | Elbing/Elbląg | Poland | Anonymous | A deep eclipse of 10 digits | Local Annals (Ms) |
| 9 | 1654 VIII 12 | Trzciana | Poland | Temberski | A deep eclipse in the clouded sky | Original printed annals |
| 10 | 1654 VIII 12 | Warszawa | Poland | des Noyers | Max. nearly total, stars seen | Annales Celestes |
| 11 | 1654 VIII 12 |  | S-E Poland | Łoś | Max. 11d | Memorial of Jakub Łoś |
| 12 | 1654 VIII 12 | Jüterbog | Germany | anonymous | Max. 11d | Chronik der Stadt Jüterbog |
| 13 | 1654 VIII 12 | Franfurt a. Oder | Germany | Placentinus | Max. 11 digits,Venus remarked | Original printed report, Annales Celestes |
| 14 | 1654 VIII 12 | Leipzig | Germany | Anonymous | Max. 11d8’, a clear sky | Leipzigische Annales |
| 15 | 1654 VIII 12 | Görlitz | Germany | Anonymous | Max. 10d34’ | Annalium Gorlicensium continuatio |
| 16 | 1654 VIII 12 | Shklov | Belarus | Radziwiłł | A deep eclipse during a battle | A military letter by J.Radziwiłł |
| 17 | 1654 VIII 12 | Fastov ? | Ukraine | Anonymous | A deep eclipse, stars visible in the sky | Litopis’ Samiyla Velichka |
| 18 | 1654 VIII 12 | Mezhihirya | Ukraine | Anonymous | A terrible eclipse, total darkness | Mezigorskaya Letopis |
| 19 | 1654 VIII 12 | Chernigov | Ukraine | Anonymous | Total eclipse, stars visible in the sky | Chernigivskiy Litopis’ |
| 20 | 1654 VIII 12 | Sighişoara | Romania | Kraus | Deep darkness, three star seen | Die Chronik des Schassburger Stadtschreibers Georg Krause 1608-1665 |
| 21 | 1654 VIII 12 | London | England | Leybourn | Max. 10d20’ | Astronomica Brittanica, Annales Celestes |
| 22 | 1654 VIII 12 | Ecton | England | Palmer | Max. 10d15’ | Astronomica Brittanica, Annales Celestes |
| 23 | 1654 VIII 12 | Oxford | England | Wallis | Max. about 10d | Annales Celestes |
| 24 | 1654 VIII 12 | Paris | France | Boulliau | Max. 9d15’ | Annales Celestes |
| 25 | 1654 VIII 12 | Paris | France | Petit | Max 9d17’ | Annales Celestes |
| 26 | 1654 VIII 12 | Paris | France | Jesuits | Max. 9d20’ | Annales Celestes |
| 27 | 1654 VIII 12 | Montmort | France | Gassendi | Max. 9d | Annales Celestes |
| 28 | 1654 VIII 12 | Blois | France | Le duc d’Orléans | Max. 8d40’ | Annales Celestes |
| 29 | 1654 VIII 12 | Lyon | France | Guevare | Max. 8d21’ | Annales Celestes |
| 30 | 1654 VIII 12 | Avignon | France | Payen | Max. 9d40’ | Annales Celestes |
| 31 | 1654 VIII 12 | Grenoble | France | de Billy | Max.9d20’ | Annales Celestes |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 32 | 1654 VIII 12 | Aix | France | Gautier | Max. 8d | Annales Celestes |
| 32 | 1654 VIII 12 | Roma | Italy | Boghille | Max. 7d10’ | Annales Celestes |
| 33 | 1654 VIII 12 | Bologna | Italy | Riccioli, Grimaldi | Max. 8d22’ | Annales Celestes |
| 34 | 1654 VIII 12 | Mallorca | Spain | Fuster | Max. 6d | Annales Celestes |
| 35 | 1654 VIII 12 | Tebriz | Iran | Zakaria | Great darkness,  Stars seen | Local chronicle  Collection d’historiens Armeniens. |
| 36 | 1654 VIII 12 | Zulfa | Armenia | Manucci | Great darkness,  stars seen | N.Manucci: Storia do Mogor 1653-1708 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1661 III 30 | Istanbul | Turkey | anonymous | Total eclipse | Tarihten bir yaprak, 1661 |
| 2 | 1661 III 30 | Roma | Italy | Rossetti? | Contacts recorded,  max. phase almost 10d | Notizie degli aggrandimenti delle scienze fisiche accaduti in Toscana nel corso di anni 60 del secolo 17. raccolte dal dottor Gio. Targioni Tozzetti, t.2.2, 1780. |
| 3 | 1661 III 30 | Ferrara | Italy | Cassini | Max.phase 9d | Annales Celestes; Riccioli |
| 4 | 1661 III 30 | Bologna | Italy | Riccioli and Grimaldi | Contacts recorded,  max. phase 9d | [Jacques de Billy](https://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Jacques+de+Billy%22): Opus astronomicum, 1661. |
| 5 | 1661 III 30 | Torino | Italy |  | Max. phase 8d25’ | Riccioli Astronomia Reformata |
| 6 | 1661 III 30 | Gdańsk | Poland | Hevelius and Boulliau | Contacts recorded,  max. phase 7.75d | J.Hevelius: Machinae Coelestis, p.I, Lib.II |
| 7 | 1661 III 30 | Frankfurt/O | Germany | Placentinus | Max.phase 6d | Annales Celestes |
| 8 | 1661 III 30 | Innsbruck | Austria | Archduke Ferdinand Karl | Main phases observed | Eclipsis solaris Oeniponti sub elevatione poli 47. gr. 15. min., die 30. Martii ante meridiem anno 1661 a Ferdinando Carolo Austriae archiduce ... observata |
| 9 | 1661 III 30 | Lussenham | England |  | Max.phase 7d | Astronomia Brittanica |
| 10 | 1661 III 30 | Mallorca | Spain | Mut | Max.phase 9d10’ | Annales Celestes |
| 11 | 1661 III 30 | Barcelona | Spain | Zaragoça | Max.phase 8d30’ | Annales Celestes |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1666 VII 2 | Ingolstadt | Germany | Bronicki | Partial eclipse  Contacts recorded | W.Leinberer, F.J. Bronicki: Eclipsis solis anno 1666. II. Iul. Ingolstadii observata |
| 2 | 1666 VII 2 | Gdańsk | Poland | Hevelius | Partial eclipse,  contacts recorded,  max.phase 8d25’ | J.Hevelius: Machinae Coelestis, p.I, Lib.II; Annales celestes, p.267 |
| 3 | 1666 VII 2 | Genova | Italy | Salvaterra | Partial eclipse,  contacts recorded,  max.phase 9.75d | Atti e memorie inedite dell’Accademia del Cimento… Firenze, 1780, p.758. |
| 4 | 1666 VII 2 | Bologna | Italy | Riccioli | Partial eclipse,  contacts recorded, | Atti e memorie inedite dell’Accademia del Cimento…Firenze, 1780, p.758. |
| 5 | 1666 VII 2 | Casalecchio | Italy | Montanari | Partial eclipse,  contacts recorded,phases noted,  max.phase 9.8d | Atti e memorie inedite dell’Accademia del Cimento…Firenze, 1780, p.758; Annales Celestes, p. 269. |
| 6 | 1666 VII 2 | Firenze | Italy | Anonymous | Partial eclipse,  contacts recorded,  max.phase 10d | Atti e memorie inedite dell’Accademia del Cimento…Firenze, 1780, p.758. |
| 7 | 1666 VII 2 | Roma ? | Italy | Anonymous | Partial eclipse,  contacts recorded,  max.phase 10.5d | Atti e memorie inedite dell’Accademia del Cimento…Firenze, 1780, p.758. |
| 8 | 1666 VII 2 | Roma | Italy | Gottignies | Max.phase 10d 25’ | Annales Celestes, p.269 |
| 9 | 1666 VII 2 | Roma | Italy | Fabry | Max.phase 10d 40’ | Annales Celestes, p.269 |
| 10 | 1666 VII 2 | Paris | France | Payen | Partial eclipse,  contacts recorded,  max.phase 7d50’ | Philosophical Transactions, 17, 1666, 295; Annales Celestes, p.268 |
| 11 | 1666 VII 2 | Paris | France | Boulliau | Partial eclipse,  contacts recorded,  max.phase 7d56’ | Annales Celestes, p.268 |
| 12 | 1666 VII 2 | Paris | France | Huygens et al. | Partial eclipse,  Contacts recorded,  max.phase 7d7/8 | Annales Celestes, p.268 |
| 13 | 1666 VII 2 | ? | France | Anonymous | Phases noted,  max.phase>7.25d | Atti e memorie inedite dell’Accademia del Cimento…Firenze, 1780, p.764. |
| 14 | 1666 VII 2 | Ham | France | Legrand | contacts recorded,  max.phase 8d30’ | Annales Celestes, p.269 |
| 15 | 1666 VII 2 | Lyon | France | Capucins and Jesuits | The end recorded,  max.phase 8d28’ or 10d | Annales Celestes, p.269 |
| 16 | 1666 VII 2 | London | England | Willoughby, Pope, Hook, Philips | Partial eclipse,  contacts recorded,  max.phase 7d | Philosophical Transactions, 17, 1666, 295; Annales Celestes, p.267 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 17 | 1666 VII 2 | Madrid | Spain | Earl of Sandwich | Partial eclipse  Contacts recorded  Max.phase 37/63=0.587 or 0.63 | Philosophical Transactions, 17, 1666, 295; Annales Celestes, p.269 |
| 18 | 1666 VII 2 | Valencia | Spain | Zaragoça | Partial eclipse  Contacts recorded  Max.phase 9d40’ | Annales Celestes, p.269 |
| 19 | 1666 VII 2 | Mallorca | Spain | Mut | Partial eclipse  Contacts recorded  Max.phase 9d45’ | Annales Celestes, p.269 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1684 VII 12 | ? | Spain | anonymous | A horrible eclipse, stars visible | Annales de Cataluña. 3 |
| 2 | 1684 VII 12 | Valladolid | Spain | anonymous | A deep eclipse of the sun | Matias Sangrador y Vitores: Historia de la muy noble y leal ciudad de Valladolid. |
| 3 | 1684 VII 12 | Lisboa | Portugal | Jacobs | The beginning and end recorded;  max. phase 11d | Philosophical Transactions, 1684; Annales Celestes, p.38**7** |
| 4 | 1684 VII 12 | Paris | France | Cassini | Max. phase 7d7/8 ,  the end recorded | Mem. de la Acad., 1699, Hist. 1701; Annales Celestes, p.38**6** |
| 5 | 1684 VII 12 | Paris | France | Boulliau | Max.phase 8d,  the end recorded | Annales Celestes, p.386 |
| 6 | 1684 VII 12 | Paris | France | La Hire, Pothenot | Max.phase 7d50’,  the end recorded | Annales Celestes, p.386 |
| 7 | 1684 VII 12 | Paris | France | Fontanay | Max. phase 7d3/4 | Annales Celestes, p.386 |
| 8 | 1684 VII 12 | Honfleur | France | De Glos | The beginning and end recorded  Max.phase 8-9d | Annales Celestes, p.387 |
| 9 | 1684 VII 12 | Aix | France | Gautier | The beginning and end recorded,  max. phase 8.5d | Mem. de la Acad., 1699, Hist. 1701;  Annales Celestes, p.38**7** |
| 10 | 1684 VII 12 | Avignon | France | Bonfa | Max. phase 9d | Mem. de la Acad., 1699, Hist.1701; Annales Celestes, p.38**7** |
| 11 | 1684 VII 12 | Lyon | France | Hoste | Max.phase 8.5d | Histoire de l’Academie royale des sciences, 1701 |
| 12 | 1684 VII 12 | Honfleur | France | de Glos | Max.phase 8d | Histoire de l’Academie royale des sciences, 1701 ; Annales Celestes, p.38**7** |
| 13 | 1684 VII 12 | Pau | France | Richau | Max. phase 9d | Histoire de l’Academie royale des sciences, 1701 ; Annales Celestes, p.38**7** |
| 14 | 1684 VII 12 | Baye de Roses | France | Chazelles | Max.phase 9d | Histoire de l’Academie royale des sciences, 1701 ; Annales Celestes, p.38**7** |
| 15 | 1684 VII 12 | Strasbourg | France | Reichelt | Max.phase 7.5d | Annales Celestes, p.387 |
| 16 | 1684 VII 12 | London | England | Halley | The beginning and end recorded | Annales Celestes, p.386 |
| 17 | 1684 VII 12 | Greenwich | England | Flamsteed | The end recorded,  max.phase 7.3d (19.5/32) | Philosophical Transactions, 1684; Annales Celestes, p.386 |
| 18 | 1684 VII 12 | Oxford | England | Wallis, Caswell, Rooke | Max.phase 7.4d, | Philosophical Transactions, 1684; Annales Celestes, p.386 |
| 19 | 1684 VII 12 | Townley | England | Townley | The beginning and end recorded | Annales Celestes, p.386 |
| 20 | 1684 VII 12 | Dublin | Ireland | Ash, Molynoux | Max.phase 8d,  the end recorded, | Philosophical Transactions, 1684; Annales Celestes, p.386 |
| 21 | 1684 VII 12 | Tredagh | Ireland | Osburn | The beginning and end recorded | Philosophical Transactions, 1684; Annales Celestes, p.386 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 22 | 1684 VII 12 | Bologna | Italy | Guglielmini | The end recorded,  max.phase 7d20’ | Observatio solaris eclipsis : anni M.DC.LXXXIV. : Bononiae habita die 12. Iulij eiusdem anni; Annales Celestes, p.38**7** |
| 23 | 1684 VII 12 | Gdańsk | Poland | Hevelius | The beginning and end recorded  Max.phase 4d55’ | Annus Climactericus, sive Rerum Uranicarum Observationum Annus Quadragesiums Nonus, 1685;Annales Celestes, p.384 |
| 24 | 1684 VII 12 | Breslau | Austrian Empire/Poland |  | The beginning and end recorded | Annales Celestes, p.385 |
| 25 | 1684 VII 12 | Leipzig | Germany | Kirch | Phases observed. Max.phase 6.25d | Annales Celestes, p.385 |
| 26 | 1684 VII 12 | Leipzig | Germany | Honold | Max.phase 6d40’ | Annales Celestes, p.385 |
| 27 | 1684 VII 12 | Nürnberg | Germany | Wurzelbaur | The end recorded,  max.phase 7d | Annales Celestes, p.385-6 |
| 28 | 1684 VII 12 | Nürnberg | Germany | Eimmart | The end recorded,  max.phase 7d | Annales Celestes, p.385 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1699 IX 23 | Kiel | Germany | Reiher | Twilight effects  Max. phase almost 11d | Hist. Acad. des Sci. Paris, 1699 ;  Zeitschrift Historische Remarques;  Annales Celestes…, p.578 |
| 2 | 1699 IX 23 | Greifswald | Germany | Pyl | Max. phase 11d56’=0.994  Great darkness, almost total eclipse, Venus, Mercury, Regulus and Spica noticed | The observation of Th.Pyl;  Nova litter. maris Balthici, 1699;  Hist. Acad. des Sci. Paris, 1699 ;  Annales Celestes... p.577 |
| 3 | 1699 IX 23 | Stralsund | Germany | Anonymous | Great darkness star seen like at night | Hist. Acad. des Sci. Paris, 1700 ;  Annales Celestes..., p.577 |
| 5 | 1699 IX 23 | Bydgoszcz | Poland | Anonymous | Almost total, max. 11d45’=0.979,  Venus seen | Local Bernardin chronicle,  Ed. Roczn.Tow.Przyj. Nauk, 1907,  Origin: Archiv of the Province, Kraków |
| 6 | 1699 IX 23 | Chełmno | Poland | Anonymous | Max. phase 11 digits | Chronicle by priests missionaires |
| 7 | 1699 IX 23 | Marienburg/  Malbork | Prussia/  Poland | Wilhelmi | Great darkness, some stars visible | Local printed burgomaster chronicle |
| 8 | 1699 IX 23 | Danzig/Gdańsk | Poland | Hecker | Max. phase 11d27’ | Nova lit.maris Baltici, 1699 |
| 9 | 1699 IX 23 | Elbing/Elbląg | Poland | Anonymous | Big partial eclipse of 11 4/5 digits | Local annals |
| 10 | 1699 IX 23 | Guben | Germany | Th.Kirch | In maximum, 1’45” not eclipsed | Annales Celestes..., p.576 |
| 11 | 1699 IX 23 | Neuzelle | Germany | G.Kirch | Max. phase 11d 21’ | Annales Celestes..., p.576 |
| 12 | 1699 IX 23 | Leipzig | Germany | Anonymous | Remarkable darkening of the sky, max.phase 10d, Venus and few stars seen | Acta Eruditorum, 1699;  Annales Celestes... p.577 |
| 13 | 1699 IX 23 | Leipzig | Germany | Anonymous | Big solar eclipse of 10d 47’  Venus and 2-3 stars seen | Kurtzer Entwurff oder Beschreibung...  by N.Hoepffner |
| 14 | 1699 IX 23 | Leipzig | Germany | Anonymous | Remarkable darkening of the day as if at dawn | J.J. Vogel: Leipzigische Annales |
| 15 | 1699 IX 23 | Jena | Germany | Hamberger | Big partial eclipse, contacts recorded, max.phase 10d50’ | Die Kalenderbriefe des Georg Albrecht Hamberger |
| 16 | 1699 IX 23 | Jena | Germany | Höpffner | Remarkable darkening of the sky, cooling down of the air noticed max.phase of 11 1/3d | Kurtzer Entwurff oder Beschreibung...  by N.Hoepffner |
| 17 | 1699 IX 23 | Dresden | Germany | von Tschirnhaus, Beuttes | Remarkable darkening of the sky,  a twilight effect noticed, Venus seen | Annales Celestes...,p.576 |
| 18 | 1699 IX 23 | Görlitz | Germany | anonymous | Big partial eclipse of about 11d | Annalium Gorlic.contin. (Ms) |
| 19 | 1699 IX 23 | Zeitz | Germany | Teuber | Phases timed, max.phase 11d | Annales Celestes ..., p.577 |
| 20 | 1699 IX 23 | Breslau/Wrocław | Germany/  Poland | anonymous | Remarkable darkening, contacts recorded,  max. phase 11d | Local diary (Ms);  Annales Celestes…, p.576 |
| 21 | 1699 IX 23 | Praha | Bohemia | anonymous | A notable solar eclipse past 9h | Diarium collegii Societatis Jesu ad sanctum Clementem Vetero-Pragae 1699-1714 |
| 22 | 1699 IX 23 | Nürnberg | Germany | Eimmart | Max. phase 10.5d | Annales Celestes..., p.578 |

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| 23 | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 24 | 1699 IX 23 | Nürnberg | Germany | Wurzelbaur | Max. phase 10d45’ | Annales Celestes…p.578, Acta Erudit. 1699 |
| 25 | 1699 IX 23 | Giessen | Germany | Vagetius | The end recorded | Annales Celestes…p.578 |
| 26 | 1699 IX 23 | Hörvelsingen | Germany | Honold | The beginning and end recorded | Annales Celestes…p.578 |
| 27 | 1699 IX 23 | Lindau | Germany | Gauppius | The beginning and end recorded | Annales Celestes…p.578 |
| 28 | 1699 IX 23 | Oberwiederstedt | Germany | Anonymous | The crescent of the Sun observed | Kupferberg - Annalen |
| 29 | 1699 IX 23 | Brixen | Austria | Anonymous | A deep partial eclipse observed | A local monastery chronicle;  Pascal P.M.: Himmlische Schreckensboten…, 2018. |
| 30 | 1699 IX 23 | Karlsbad? | Bohemia | Anonymous | The beginning and end recorded | Annales Celestes…p.578 |
| 31 | 1699 IX 23 | Strassbourg | Germany | Eisenschmid | Max. a little more than 10d | Annales Celestes, Mem. de la Acad., 1701 |
| 32 | 1699 IX 23 | Paris | France | Cassini, Maraldi | The beginning and end recorded, phases noted,  max. phase 9.5d | Mem. de la Acad., 1699, Hist. de la Acad., 1699  Annales Celestes…, p.579 |
| 33 | 1699 IX 23 | Paris | France | de la Hire | The beginning and end recorded,  max. phase 9d39’ | Mem. de la Acad., 1699, Hist. de la Acad., 1699, Annales Celestes..., p.579 |
| 34 | 1699 IX 23 | Honfleur | France | de Glos | The beginning and end recorded,  max. phase 9d | An nales Celestes…, p.580 |
| 35 | 1699 IX 23 | Tours | France | Nonnet | The beginning and end recorded, phases noted,  max. phase 9d33’ | Annales Celestes…, p.580 |
| 36 | 1699 IX 23 | La Rochelle | France | Deshayes | The beginning and end recorded | Annales Celestes…, p.580 |
| 37 | 1699 IX 23 | Châtenay | France | Malezieu | The beginning and end recorded | Annales Celestes…, p.580 |
| 38 | 1699 IX 23 | Avignon | France | Bonfa | The beginning and end recorded,  max. phase 9d10’ | Annales Celestes…, p.580 |
| 39 | 1699 IX 23 | Marseille | France | Minimes, Chazelles, Laval, Feuillée | The beginning and end recorded, phases noted,  max. phase 8.25d | Annales Celestes…, p.581 |
| 40 | 1699 IX 23 | Toulon | France | Hoste | The beginning and end recorded,  max. phase 8d | Annales Celestes…, p.581 |
| 41 | 1699 IX 23 | Lyon | France | Bonnet | The beginning and end recorded | Annales Celestes…, p.580 |
| 42 | 1699 IX 23 | Oxford | England | Gregory | The end recorded  max. phase10.25d | Philosophical Transactions, 9,1700;  Annales Celestes…, p.579 |
| 43 | 1699 IX 23 | Greenwich | England | ? | The end recorded, clouds | Annales Celestes…, p.579 |
| 44 | 1699 IX 23 | Bologna | Italy | Manfredi, Stancari | The beginning and end recorded,  max. phase 9d | Mem. de la Academie, 1701;  Annales Celestes…, p.581 |
| 45 | 1699 IX 23 | Modena | Italy | Fontana | The beginning and end recorded, phases noted  max. phase more than 9d | Annales Celestes…, p.581 |
| 46 | 1699 IX 23 | Parma | Italy | Beccatelli | The beginning and end recorded,  max. phase 9.01d | Annales Celestes…, p.582 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 47 | 1699 IX 23 | Genova | Italy | Salvago, Grimaldi | The beginning and end recorded,  max. phase 8d45’ | Mem. de la Academie, 1701;  Annales Celestes…, p.582 |
| 48 | 1699 IX 23 | Roma | Italy | Bianchini | The end recorded,  max. phase 8.5d | Annales Celestes…, p.582 |
| 49 | 1699 IX 23 | Madrid | Spain | d’Uzeda, Kresa, Scotti | Max. phase less than 7d | Annales Celestes…, p.582 |
| 50 | 1699 IX 23 | Częstochowa | Poland | anonymous | Twilight effect | Annlas of the Jasna Góra monastery |
| 51 | 1699 IX 23 | Jazowsko | Poland | Owsiński | A deep solar eclipse observed | Local printed diary |
| 52 | 1699 IX 23 | Żywiec | Poland | Komaniecki | Twilight effect | Local printed diary |
| 53 | 1699 IX 23 | Rabča | Slovakia | anonymous | A deep solar eclipse observed | Rabčiansky Chýrnik 3/2008 |
| 54 | 1699 IX 23 | Beočin | Serbia | anonymous | A deep partial eclipse observed | M. Lazović:Privatni život Srba pre modernih vremena |
| 55 | 1699 IX 23 | Kopyl | Belarus | Kraiński | Remarkable darkness | Local diary (Ms) |
| 56 | 1699 IX 23 | Lubeć | Lithuania | Niezabitowski | A deep solar eclipse observed | Local diary (Ms) |
| 57 | 1699 IX 23 | On the Prut river | Ukraine | Anonymous | A deep and terrible solar eclipse observed | Silahdar Findikili: A Turkish chronicle |
| 58 | 1699 IX 23 | Drežnik | Croatia | Marsigli | The beginning and end recorded,  max.phase 9d | Annales Celestes, p.576 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1706 V 12 | Valencia | Spain | Corachán | Total eclipse | Mathesis sacra ex Bibliotheca Gregorii Majansii |
| 2 | 1706 V 12 | Madrid | Spain | Cassani | Patial eclipse, max.phase 10.5d, contacts recorded | Memoires de l’Academie Royale, 1706,462 |
| 3 | 1706 V 12 | Barcelona 1 | Spain | Barcelona consuls | Total eclipse, great darkness, stars appeared | Dietari del Antich Consell Barceloni  Vol. XXIII |
| 4 | 1706 V 12 | Barcelona 2 | Spain | anonymous | A battle stopped during the totality | E.G. Happel : Historischen Kern-Chronick |
| 5 | 1706 V 12 | Barcelona 3 | Spain | anonymous | A battle stopped during the totality | Diaria y veridica relation de las operaciones y sucesos del sitio de Barcelona |
| 6 | 1706 V 12 | Barcelona 4 | Spain | anonymous | An extraordinary total eclipse, a great fear | [Narciso Feliu de la Peña y Farell](https://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Narciso+Feliu+de+la+Pe%C3%B1a+y+Farell%22):  Annales de Cataluña. 3 |
| 7 | 1706 V 12 | Barcelona 5 | Spain | Vicente Bacallar | Total eclipse, great astonishing darkness, stars appeared | Vicente Bacallar,  Marques de San Felipe:  Comentarios de la querra de Espana e historia de su rey Felipe V, el animoso |
| 8 | 1706 V 12 | Barcelona 6 | Spain | Anonymous | A battle stopped during the totality | J.E.Zschakwitz  Leben unf Thaten Seiner Kayselichen und Katholischen Majestt Caroli VI.  wie auch Europische-Staats- und Teutsche Reichs-Historie  ed.Franfurt a.M., 1723. |
| 9 | 1706 V 12 | Barcelona 7 | Spain | Anonymous | Total eclipse for 6 minutes | Original printed report by Timotheo |
| 10 | 1706 V 12 | Barcelona 8 | Spain | Anonymous | Total eclipse for a half a quarter of an hour, great darkness, stars appeared | Dietaris de la Generalitat de Catalunya, vol.X |
| 11 | 1706 V 12 | Barcelona 9 | Spain | Francescde Castellví | Great darkness, stars seen, troops could not march | Les narracions històriques de Francesc de Castellví. Episodis de la guerra de Successió. |
| 12 | 1706 V 12 | Barcelona 10 | Spain | Rafael Figuerò y Jolís | Great horrible darkness during the battle | Rafael Figuerò y Jolís : Relacion breve y resumen de lo sucedido en Barcelona… |
| 13 | 1706 V 12 | Barcelona 11 | Spain | Anonymous | A terrible eclipse, the whole body of the sun covered | Relación de la Guerra de Sucesión en Cataluña |
| 14 | 1706 V 12 | Barcelona 12 | Spain | Honorat de Pallejà | The day became night | Les Memòries d’Honorat de Pallejà |
| 15 | 1706 V 12 | Barcelona 13 | Spain | John Walpole | A dark eclipse of the sun | The manuscripts of the Earl of Buckinghamshire, the Earl of Lindsey, the Earl of Onslow, Lord Emly, Theodore J. Hare, Esq., and James Round, Esq. |
| 16 | 1706 V 12 | Sant Ferriol | Spain | Patllari Ombrabella Monell | The Sun disappeared, the sky full of stars | Crònica del Collell |
| 17 | 1706 V 12 | Ampurdán | Spain | Anonymous | Total eclipse | Historia del Ampurdán |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 18 | 1706 V 12 | Greenwich | England | Flamsteed | Several partial phases observed through clouds | Philosophical Transactions, 25, 1706 |
| 19 | 1706 V 12 | Canterbury | England | Grey | Paertial phases observed, max. phase 10d or more | Philosophical Transactions, 25, 1706 |
| 20 | 1706 V 12 | Horton | England | Sharp | Partial phases observed, max. phase 9.5d | Philosophical Transactions, 25, 1706 |
| 21 | 1706 V 12 | Narbonne | France | Le Pech, Pailhoux | Solar corona remarked | Hist. Acad. des Sci. Paris, 1706 |
| 22 | 1706 V 12 | Montpellier | France | Plantade, Bon, Clapies | Solar corona of 1 digit width observed | Hist. Acad. des Sci. Paris, 1706 |
| 23 | 1706 V 12 | Arles | France | Anonymous | Many stars seen | Hist. Acad. des Sci. Paris, 1706 |
| 24 | 1706 V 12 | Marseille 1 | France | Laval, Chazelles | Total for 2m54s , solar corona of 1 digit width observed, stars seen | Hist. Acad. des Sci. Paris, 1706 |
| 25 | 1706 V 12 | Marseille 2 | France | Guey | The sun black like coal, many stars visible,  a panic in the city | Jean-Louis Guey  Mémoires, ou Livre de raison d’un bourgeois de Marseille |
| 26 | 1706 V 12 | Tarascon | France | Marsigli | Solar corona seen | Hist. Acad. des Sci. Paris, 1706 |
| 27 | 1706 V 12 | Bèziers | France | d’Ortous  de Mairan | Totality for 3m26s,  Planets and many stars seen | Mem. Acad. des Sci. Paris, 1719 |
| 28 | 1706 V 12 | Avignon | France | Jesuits | Total eclipse for 2m30s, solar corona observed, stars seen | Mémoires pour l’histoire des sciences et des beaux arts, 1706 |
| 29 | 1706 V 12 | Agen | France | Anonymous | Total eclipse | Histoire de la ville d’Agen |
| 30 | 1706 V 12 | Entrecasteaux | France | Anonymous | The moon covered the sun totally, great darkness | Registre paroissial d’Entrecasteaux |
| 31 | 1706 V 12 | Esclanèdes | France | Ribes | The sun was covered, the stars appeared | Petite chronique du curé Alexis Ribes d’Esclanèdes en Gévaudan de 1682 à 1722 |
| 32 | 1706 V 12 | Nimes | France | Anonymous | Total eclipse | Local printed city history |
| 33 | 1706 V 12 | Viviers | France | Anonymous | Total eclipse, great darkness, stars appeared | F.X.Zach: Correspond. Astr. 1825, 13,458 |
| 34 | 1706 V 12 | Languedoc | France | Ribes | Total eclipse, great darkness, stars appeared | Petite chronique du curé Alexis Ribes |
| 35 | 1706 V 12 | Peypin-d’Aigues | France | Saurin | Total eclipse, stars seen | The manuscript by Saurin |
| 36 | 1706 V 12 | Murbach | France | Anonymous | Darkness effects | Diarium de Murbach 1671-1746 |
| 37 | 1706 V 12 | Marly | France | Cassini jr., de la Hire jr., king Louis XIV | Max.phase of almost 11d | Mémoires de la Academie Royale des Sciences, 1706, 165 |
| 38 | 1706 V 12 | Paris 1 | France | Cassini and Maraldi | Max. phase 10d50’ | Mémoires de la Academie Royale des Sciences, 1706, 169 |
| 39 | 1706 V 12 | Paris 2 | France | de la Hire | Max. phase 10d58b’ | Mémoires de la Academie Royale des Sciences, 1706, 172 |
| 40 | 1706 V 12 | Requista | France | Quenet | The sun totally eclipsed by the Moon | Journal de Pierre Prion |
| 41 | 1706 V 12 | Torino 1 | Italy | Soleri | Dark eclipse caused a night | Manuscript diary of Francesco Ludovico Soleri |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 42 | 1706 V 12 | Torino 2 | Italy | Anonymous | The sun lost all its splendour | Chronicle of Capucins - D.Rebaudengo : Torino racconta |
| 43 | 1706 V 12 | Varese | Italy | Anonymous | Dark eclipse, stars seen, great fear | Giovanni Antonio Adamollo:  Cronaca di Varese : memorie cronologiche |
| 44 | 1706 V 12 | Bologna | Italy | Manfredi,  Stancari | Max. phase greater than 11 digits | Mem. Acad. des Sci. Paris, 1706 |
| 45 | 1706 V 12 | Parma | Italy | Beccatelli | Contacts recorded | Zeitschrift fur Astronomie, 5/6, 1817 |
| 46 | 1706 V 12 | Modena | Italy | Fontana | Beginning recorded | Mem. Acad. des Sci. Paris, 1706 |
| 47 | 1706 V 12 | Genoa | Italy | Salvago | Beginning and maximum recorded | Zeitschrift für Astronomie und verwandte Wissenschaften, t.3-4. |
| 48 | 1706 V 12 | Roma | Italy | Bianchini | Max. phase 10d36’ | Mem. Acad. des Sci. Paris, 1706 |
| 49 | 1706 V 12 | Aarau | Switzerland | Anonymous | Night darkness, stars seen | Chronik der Stadt Aarau |
| 50 | 1706 V 12 | Neuchatel | Switzerland | Anonymous | Great darkness, stars seen | Annales historiques du comté de Neuchâtel et Valangin depuis Jules-César jusqu’en 1722 |
| 51 | 1706 V 12 | Basel | Switzerland | Anonymous | Stars seen | Petr Ochs: Geschichte der Stadt und Landschaft Basel, Bd.8 |
| 52 | 1706 V 12 | Basel | Switzerland | Bernoulli | A total eclipse for 3-4 minutes, stars seen | A letter by Johann Bernoulli to Johann Jacob Scheuchzer |
| 53 | 1706 V 12 | St.Gallen | Switzerland | Zili | Total eclipse, great darkness, many stars seen | Die Chronik des St. Gallers Hans Anton Zili |
| 54 | 1706 V 12 | - | Switzerland | Anonymous | Total for four minutes, great darkness, solar corona remarked, Venus and first magnitude stars seen | Original printed report by Timotheo |
| 55 | 1706 V 12 | Zürich 1 | Switzerland | Bluntschli | The sun entirely covered by the Moon,  stars seen | Memorabilia Tigurina, 1841 |
| 56 | 1706 V 12 | Zürich 2 | Switzerland | Scheuchzer | Total for 4 min., solar corona noticed | Phil.Trans., 25,1708 |
| 57 | 1706 V 12 | Zürich 3 | Switzerland | Scheuchzer | Total for 4 min., solar corona noticed | **Johann Jakob Scheuchzer**  Beschreibung der Natur-Geschichten des Schweizerlands |
| 58 | 1706 V 12 | Zürich 4 | Switzerland | Fries | Great darkness, stars seen | Manuscript by J.H.Fries |
| 59 | 1706 V 12 | Zürich 5 | Switzerland | Füssli | A drawing presenting the total eclipse  over Zürich | Johann Melchior Füssli  Vorstellung der besonders remarquablen grossen sichtbaren total Sonnen Fünsternuss welche A. 1706 den 11. Maÿ sich ereignet |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 60 | 1706 V 12 | Zürich 6 | Switzerland |  | Total eclipse for 4 minutes, stars and Venus seen,  Solar corona noticed | Histoire de l’ Academie Royale des Sciences, 1706 |
| 61 | 1706 V 12 | Bern | Switzerland | Stannyan | Total for 4.5 minutes, stars and planets seen | A printed report,  Phil. Trans., 25, 1708 |
| 62 | 1706 V 12 | Weiach | Switzerland | Brennwald | Great darkness, stars seen |  |
| 63 | 1706 V 12 | Geneve | Switzerland | Jean-Christoph Fatio,  Nicolas Fatio de Duillier | Total, great darkness, solar corona of 1 digit to 4-5 degrees width observed, Venus, Mercury, Saturn and, stars seen | a letter written from Geneva, May the 31th, 1706. N.S. by Monsieur J.Chr. Facio Duillier.  Phil.Trans., 25, 1708 |
| 64 | 1706 V 12 | Geneve | Switzerland | Gautier, Violier | Total eclipse for 3 minutes | Mem. de l’Academ.Roy. des Sciences de Paris, 1706, p.463. |
| 65 | 1706 V 12 | Reutte | Austria | Anonymous | Great darkness, stars seen | Klosterchronik von Reutte |
| 66 | 1706 V 12 | Horb | Germany | Anonymous | Total eclipse, great darkness, stars seen | Beschreibung besonderer Himmelserscheinungen in Chroniken der Tiroler Franziskanerprovinz. Provinzarchiv Hall, Codex 4a) I 991. |
| 67 | 1706 V 12 | Stillnau | Germany | Anonymous | Stars seen | Ortsgeschichte von Stillnau |
| 68 | 1706 V 12 | Bamberg | Germany | Anonymous | Total eclipse, great darkness, stars seen | [Bernhard Duhr](http://www.google.pl/search?hl=pl&tbo=1&biw=1822&bih=614&tbm=bks&tbm=bks&q=inauthor:%22Bernhard+Duhr%22&sa=X&ei=q0E1T_KaAc6p-gbh753rAQ&sqi=2&ved=0CDcQ9Ag): [Geschichte der Jesuiten in den Ländern deutscher Zunge, Bd.4.](http://books.google.pl/books?id=4qZlAAAAMAAJ&q=1706+sonnenfinsternis+Mai+12+jesuit&dq=1706+sonnenfinsternis+Mai+12+jesuit&hl=pl&sa=X&ei=q0E1T_KaAc6p-gbh753rAQ&sqi=2&ved=0CDYQ6AEwAQ) |
| 69 | 1706 V 12 | Babenhausen | Germany | Anonymous | Total eclipse, great darkness | Chronik zu Babenhausen |
| 70 | 1706 V 12 | Augsburg | Germany | Anonymous | Total eclipse, great darkness, corona and stars seen | Die anonyme Chronik der Stadt Augsburg von 1704 bis 1707 |
| 71 | 1706 V 12 | Allgäu | Germany | Anonymous | Great darkness, stars seen | Allgäuer Chronik: Von 1701 bis zum Jahr 1914 |
| 72 | 1706 V 12 | Altreetz | Germany | Anonymous | Total eclipse, stars seen | Chronologie zur Geschichte von Altreetz |
| 73 | 1706 V 12 | Burgbernheim | Germany | Anonymous | A great eclipse, stars seen | Nörr, P. C  Chronik des Marktfleckens Burgbernheim in übersichtliche Ordnung gebracht |
| 74 | 1706 V 12 | Guebwiller | Germany | Anonymous | Great darkness, stars seen |  |
| 75 | 1706 V 12 | Nürnberg 1 | Germany | Wurzelbaur | Solar corona of 0.5 digit width observed, Venus and Saturn and many stars seen | Miscellanea Berolinensia ad incrementum scientiarum, 1710 |
| 76 | 1706 V 12 | Nürnberg 1a | Germany | Wurzelbaur | Solar corona of 0.5 digit width observed, Venus and Saturn and many stars seen | Acta Eruditorum, 1706, |
| 77 | 1706 V 12 | Nürnberg 2 | Germany | Müller,  Rost | Total eclipse, stars seen | [Johann Leonhard Rost](https://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Johann+Leonhard+Rost%22): Astronomisches Handbuch, 1718 |
| 78 | 1706 V 12 | Nürnberg | Germany | Eimmart | Total eclipse, corona observed, Venus and Saturn seen according to her painting | A painting by M.C.Eimmart |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 79 | 1706 V 12 | Lindau | Germany | Anonymous | Great darkness, stars seen | Local chronicle |
| 80 | 1706 V 12 | Ulm 1 | Germany | Anonymous | Total eclipse, great darkness,  stars seen | Local city chronicle (Ms) |
| 81 | 1706 V 12 | Ulm 2 | Germany | Anonymous | Total eclipse, great darkness,  stars seen | Local city chronicle (Ms) |
| 82 | 1706 V 12 | Ulm 3 | Germany | Anonymous | Total eclipse, great darkness,  stars seen | Local city chronicle (Ms) |
| 83 | 1706 V 12 | Reutlingen (?) | Germany | Gayler | Total eclipse, star seen | Christoph F.Gayler  Recollections |
| 84 | 1706 V 12 | Neuburg | Germany | Jesuits | Total eclipse for 3m 23s, contacts recorded | Memoires de l’Acaademie Royale, 1706,462 |
| 85 | 1706 V 12 | Nördlinger Rie | Germany | Anonymous | Total eclipse, great darkness | Original printed report by Timotheo |
| 86 | 1706 V 12 | Künzelsau | Germany | Anonymous | Total eclipse | Künzelsauer Chronik, 1678-1741‎ |
| 87 | 1706 V 12 | Oberwiederstedt | Germany | Anonymous | Dark sun | Kupferberg - Annalen |
| 88 | 1706 V 12 | Pappenheim | Germany | Zuttel | Black sun, corona and stars seen | Chronik des Pappenheimer Mesners Zuttel |
| 89 | 1706 V 12 | Greifswald | Germany | Anonymous | Max. phase 11d20’ | E.W. Happel: Historischer Kerns oder so genandten kurtzen Chronica (cont.) |
| 90 | 1706 V 12 | Hamburg | Germany | Anonymous | Almost total eclipse | E.W. Happel**:** Historischer Kerns oder so genandten kurtzen Chronica (cont.) |
| 91 | 1706 V 12 | Weissenburg | Germany | Anonymous | Great darkness by day | Chronik der Stadt Weissenburg im Nordgau und des Klosters Wülzburg |
| 92 | 1706 V 12 | Zeitz | Germany | Teuber | 1. Total eclipse for 30-35 seconds   b) Max.phase 11.5d | a) Miscellanea Berolinensia ad incrementum scientiarum. -  I (Berolini: Papen, 1710)  b) Memoires de l’Acaademie Royale, 1706,462 |
| 93 | 1706 V 12 | Döbeln | Germany | Anonymous | Stars seen during the eclipse | Chronik von Döbeln und Umgegend |
| 94 | 1706 V 12 | Drehna | Germany | Kaschke | The whole sun darkened | „Der Nieder-Lausitzische Methusalah“. Annäherungen an das Leben des Wirtschaftsvogtes Martin Kaschke (1610-1727)  von Christoph Crusius (Kraus) (1689-1770), Pfarrer in Drehna |
| 95 | 1706 V 12 | Straßfurt | Germany | Anonymous | Almost total eclipse, planets and first magnitude stars seen | Chronik der Stadt Staßfurt und der Umgegend, vom Beginne historischer Nachrichten bis auf das Jahr 1836 incl. |
| 96 | 1706 V 12 | Zittau 1 | Germany | Timotheo | Total eclipse, great darkness | Original printed report by Timotheo |
| 97 | 1706 V 12 | Zittau 2 | Germany | Carpzov (?) | Total eclipse, planets and stars seen | Analecta Fastorum Zittaviensium |
| 98 | 1706 V 12 | Görlitz | Germany | Anonymous | Total eclipse for 4 minutes | Ann.Gorlic. cont 1663-1713 (Ms) |
| 99 | 1706 V 12 | Dresden | Germany | Von Tschirnhaus | Solar corona seen, observation of the lunar limb made, Saturn, Venus, Mercury and some stars seen | Acta Eruditorum, 1708 |
| 100 | 1706 V 12 | Gera | Germany | Anonymous | Great darkness, stars seen | Chronik von Carl Gottfried Felbrig |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 101 | 1706 V 12 | Eisfeld | Germany | Anonymous | Great eclipse, stars seen | Conrad, Johann Jacob (1838): Historische Blätter und Jahrbücher der Stadt und Diöces Eisfeld aus der Vergangenheit und Gegenwart |
| 102 | 1706 V 12 | Feuchtwangen | Germany | Anonymous | Great darkness, stars seen | Gedenck-, Stadt- und Huth-Buch (Chronik der Stadt Feuchtwangen) |
| 103 | 1706 V 12 | Memmingen | Germany | Anonymous | Great darkness for 4 minutes | Kurze Geschichte der königlich baierischen Stadt Memmingen im Illerkreis |
| 104 | 1706 V 12 | Wechmar | Germany | Anonymous | Great eclipse, stars seen | Johann Simon Schlimbach: Chronick von Wechmar |
| 105 | 1706 V 12 | Hanau | Germany | Anonymous | Great eclipse, stars seen | Georg Friedrich Dhein: Chronik aus dem Archiv des Hanauer Geschichtsvereins |
| 106 | 1706 V 12 | Hohburg | Germany | Anonymous | The sun completely covered, many stars seen | Eintragung im Sterberegister von Hohburg |
| 107 | 1706 V 12 | Meiningen | Germany | Anonymous | Great darkness | Chronik der Stadt Meiningen von 1676 bis 1834 |
| 108 | 1706 V 12 | Rottenburg | Germany | Lutz | Stars seen in the sky | Chronik des Christoph Lutz |
| 109 | 1706 V 12 | Kiel | Germany | Reyher | Almost total, max.phase 11d45’ | Observation by S.Reyher in: Schriften, Kiel Univ, 1859 |
| 110 | 1706 V 12 | Berlin | Germany | Hoffmann | Almost total, max. 11 7/8 digits=0.989,  Venus, Jupiter , Mars and 2 other stars remarked | Acta Eruditorum, 1706,  Astr.Jahrb. 1820  Miscellanea Berolinensia ad incrementum scientiarum: I, 1710 |
| 111 | 1706 V 12 | Leipzig 4 | Germany | Rivinus and Junius | Contacts recorded | Memoires de l’Acaademie Royale, 1706,470 |
| 112 | 1706 V 12 | Leipzig 1 | Germany | Anonymous | Max. phase at 10:15, a little part of the uneclipsed solar disc remained, Venus and some stars seen | J.J.Vogel: Leipzigisches Geschicht-Buch |
| 113 | 1706 V 12 | Leipzig 3 | Germany | Wolf | Almost total., max. 11 2/3 digits =0.972, solar corona described | Christian Wolff  Vernüfftige Gedancken von den Wirckungen der Natur |
| 114 | 1706 V 12 | Leipzig 2 | Germany | Wolf | Almost total., max. 11 2/3 digits =0.972, Venus and Jupiter seen, Saturn and Mercury as well as some stars seen by some people, too, the presence of solar corona remarked | Acta Eruditorum, 1706, 1708 |
| 115 | 1706 V 12 | Leipzig | Germany | Anonymous | Almost total, max. 11.5 digits= digits=0.958 | Ann.Gorlic. cont 1663-1713 (Ms) |
| 116 | 1706 V 12 | Rostock | Germany | Becker | Max. phase 11.5d | Nova literaria maris Balthici & Septentrionis, December 1706 |
| 117 | 1706 V 12 | Frankfurt a.M. | Germany | Anonymous | A great eclipse | Gebhard Florian  Franckfurt am Mayn Chronica |
| 118 | 1706 V 12 | Annaberg | Germany | Anonymous | Total eclipse, stars seen | Annaberger chronik |
| 119 | 1706 V 12 | Jena | Germany | Hamberger | Almost total., max. 11 5/6 digits =0.986,  Venus, Jupiter and Capella seen | Acta Eruditorum, 1706 |
| 120 | 1706 V 12 | Wrocław 1 | Poland | Heinrich | Total for 1 minute, many stars and planets seen, solar corona and Baily’s beads observed | Acta Eruditorum, 1706 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 121 | 1706 V 12 | Wrocław 2 | Poland | Anonymous | Bright stars seen | Breslauer Tagebuch (Ms) |
| 122 | 1706 V 12 | Wrocław 3 | Poland | Hanke | Stars seen near the Sun | Martini Hankii Vitam  1692-1709 (Ms) |
| 123 | 1706 V 12 | Opava | Bohemia | Anonymous | A great eclipse, darkness, stars seen | [Erasmus Kreuzinger](https://www.google.pl/search?hl=pl&tbo=p&tbm=bks&q=inauthor:%22Erasmus+Kreuzinger%22): Chronik der alten und neuern Zeit Troppau‘s, oder Troppau und seine Merkwürdigkeiten |
| 123 | 1706 V 12 | Stara Rudna | Bohemia | Anonymous | Total eclipse, stars seen | Gedenkbuch der Gemeinde  Alt – Vogelseifen |
| 124 | 1706 V 12 | Praha | Bohemia | Anonymous | Total eclipse well visible | Diarium collegii Societatis Jesu ad sanctum Clementem Vetero-Pragae 1699-1714 |
| 125 | 1706 V 12 | Stod | Bohemia | Anonymous | Great darkness, stars seen | Archiv města Stod |
| 126 | 1706 V 12 | Mikulášovice | Bohemia | Anonymous | Great eclipse, stars seen | Sammlungen historischen Ereignisse  von Nixdorf und Umgegend von 1416 bis 1890 |
| 127 | 1706 V 12 | Časlav | Bohemia | Jelinek | Almost total eclipse, great darkness, stars seen | Pamĕti kantora Jana Jindřicha Jelinka |
| 128 | 1706 V 12 | Řídeč | Bohemia | Anonymous | Total eclipse, stars seen in the sky | Gedenkbuch der Gemeinde Rietsch |
| 129 | 1706 V 12 | Pisek | Bohemia | Kochan | Total eclipse | Manuscript Library Plzeň |
| 130 | 1706 V 12 | Zbąszyń | Poland | Anonymous | Darkness like at night, stars seen near the Sun | Local Burgomaster Book |
| 131 | 1706 V 12 | Poznań | Poland | Rzączyński | A darkness, stars seen | Historia naturalis curiosa Regni Poloniae |
| 132 | 1706 V 12 | Bydgoszcz | Poland | Głazowicz | Star seen in the sky by day | Local Jesuit chronicle |
| 133 | 1706 V 12 | Słupca | Poland | Anonymous | Eclipse during a battle | C.G. Rehnschiöld : Military diary |
| 134 | 1706 V 12 | Radosno | Poland | Preußler | Great eclipse, stars seen | August Werner: Chronik von Friedland und Umgegend |
| 135 | 1706 V 12 | Jelenia Góra | Poland | Anonymous | Great eclipse, stars seen | Chronik der Stadt Hirschberg von Caspar Gottlieb Lindner |
| 136 | 1706 V 12 | Szprotawa | Poland | Anonymous | Great darkness | Chronik der Stadt Sprottau |
| 137 | 1706 V 12 | Krosno Odrzańskie | Poland | Möller (?) | A total eclipse, great darkness, many stars seen | Chronica der Stadt und des ehemal. Herzogthums Crossen. |
| 138 | 1706 V 12 | Międzychód | Poland | Anonymous | Total eclipse for 2 minutes, great darkness, stars seen | Chronik der Stadt und des Kreises Birnbaum |
| 139 | 1706 V 12 | Wałcz | Poland | Anonymous | Extraordinarily notable eclipse seen | Historia residentiae Walcensis Societatis Jesu  (Ms) |
| 140 | 1706 V 12 | Chełmno | Poland | Anonymous | Total eclipse, stars appeared like at night | Chronicle by priests missionaries |
| 141 | 1706 V 12 | Malbork | Prussia/Poland | Wilhelmi | Some star seen in the sky | Local diary |
| 142 | 1706 V 12 | Warszawa | Poland | Anonymous | A distinct darkness by day | Chronicon rerum gestarum ab anno 1700 ad annum 1706, 1707… |
| 143 | 1706 V 12 | Gdańsk | Poland | anonymous | Total eclipse | E.W. Happel : Historischer Kern-Chronick (cont.) |
| 144 | 1706 V 12 | Elbing/Elbląg | Poland | anonymous | Total eclipse, stars seen in the sky | Local annals (Ms) |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 145 | 1706 V 12 | Kopyl | Belarus | Kraiński | Great partial eclipse of 10 digits,  Remarkable gloom | Local diary (Ms) |
| 146 | 1706 V 12 | Żywiec | Poland | Komaniecki | Great darkness | Local diary |
| 147 | 1706 V 12 | Ravlunda | Sweden | Floraeus | Almost total eclipse | Gud verkar med naturliga medel: pestens härjningar i Skåne 1710-1713 |
| 148 | 1706 V 12 | Königsberg | Prussia | Gruben | Great darkness, third contact remarked | Local diary |
| 149 | 1706 V 12 | Great Novgorod | Russia | anonymous | Great darkness | Novgorodskaya Letopis,  printed local annals |
| 150 | 1706 V 12 | Vilnius | Lithuania | Zawisza | Great darkness | Diarium of Krzysztof Zawisza |
| 151 | 1706 V 12 | Wysock | Belarus | Radziwiłł | Partial eclipse observed | Jan Mikolaj ks.Radziwiłł Diarium meum 1680-1709 |
| 152 | 1706 V 12 | ? | Belarus | Kagg | Geart eclipse of the sun | Leonhard Kagg: Dagbock 1698-1722 |
| 153 | 1706 V 12 | Moskva | Russia | Bruce | Partial eclipse observed |  |
| 154 | 1706 V 12 | Pskov | Russia | Narishkin | Deep darkness like at midnight | A letter to Peter the Great |
| 155 | 1706 V 12 | Archangelsk | Russia | Wagner | Maximum phase 10.5 digits, a distinct gloom | Miscellanea Berolinensia ad incrementum scientiarum. – II, 1723 |
| 156 | 1706 V 12 | Kholmogory  near Archangelsk | Russia | anonymous | Almost total, great darkness, Baily’s beads (?) seen | Dvinskij Letopisec, PSRL, 33  printed local annals |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1715 V 3 | Greenwich | England | Flamsteed | Total eclipse for 3m11s | Phil.Trans., 29-30,1717 |
| 2 | 1715 V 3 | London | England | Halley,  de Lonville,  Monmort | Total eclipse for 3m23s, Baily’s beads, protuberances and solar corona observed, Jupiter, Mercury, Venus and some stars seen | Phil.Trans., 29-30,1717 |
| 3 | 1715 V 3 | Wanstead | England | Pond | Total eclipse for 3m20s | Phil.Trans., 29-30,1717 |
| 4 | 1715 V 3 | Exon | England | Hudson | Total eclipse for 3m30s | Phil.Trans., 29-30,1717 |
| 5 | 1715 V 3 | Upminster | England | Derham,  Molyneux | Total eclipse for 3m8s | Phil.Trans., 29-30,1717 |
| 6 | 1715 V 3 | Cambridge | England | Cotes | Total eclipse | Phil.Trans., 29-30,1717 |
| 7 | 1715 V 3 | Barton | England | Bridges | Total eclipse for 3m53s | Phil.Trans., 29-30,1717 |
| 8 | 1715 V 3 | Kings Walden | England | Whiteside | Total eclipse for 3m52s | Phil.Trans., 29-30,1717 |
| 9 | 1715 V 3 | Witley | England | Baxter | Total eclipse for 3m15s | Phil.Trans., 29-30,1717 |
| 10 | 1715 V 3 | Bell Bar | England | Jones | Total eclipse for 3m42s | Phil.Trans., 29-30,1717 |
| 11 | 1715 V 3 | Canterbury | England | Gray | A deep partial eclipse | Phil.Trans., 29-30,1717 |
| 12 | 1715 V 3 | Norton Court | England | J.Harris | Total eclipse for 59s | Phil.Trans., 29-30,1717 |
| 13 | 1715 V 3 | Crewe | England | Wright | Total eclipse for 2m00s | Phil.Trans., 29-30,1717 |
| 14 | 1715 V 3 | Northampton | England | Hawkins | Total eclipse for 4m02s | Phil.Trans., 29-30,1717 |
| 15 | 1715 V 3 | Plymouth | England | Heines | Total eclipse for 4m30s | Phil.Trans., 29-30,1717 |
| 16 | 1715 V 3 | Portchester | England | Candler | Total eclipse for 3m50s | Phil.Trans., 29-30,1717 |
| 17 | 1715 V 3 | Salop | England | Hollings | Total eclipse for 1m40s | Phil.Trans., 29-30,1717 |
| 18 | 1715 V 3 | Weymouth | England | Hobbis | Total eclipse for 4m00s | Phil.Trans., 29-30,1717 |
| 19 | 1715 V 3 | Oxon | England | Keill | Total eclipse for 3m30s | Phil.Trans., 29-30,1717 |
| 20 | 1715 V 3 | Badsworth | England | Daubuz | Grazing total at the northern limit | Phil.Trans., 29-30,1717 |
| 21 | 1715 V 3 | Darrington | England | Th.Shelton | Grazing total at the northern limit | Phil.Trans., 29-30,1717 |
| 22 | 1715 V 3 | Lewes | England | anonymous | Grazing total at the southern limit | Phil.Trans., 29-30,1717 |
| 23 | 1715 V 3 | Cranbrook | England | Tempest | Grazing total at the southern limit | Phil.Trans., 29-30,1717 |
| 24 | 1715 V 3 | Haverford | England | Prosser | Total eclipse for 1.5 minutes | Phil.Trans., 29-30,1717 |
| 25 | 1715 V 3 | Shrewsbury | England | Hollings | Total eclipse for 1m40s | Phil.Trans., 29-30,1717 |
| 26 | 1715 V 3 | Dublin | Ireland | Arch.Bish.,  Hawkins | A deep partial eclipse | Phil.Trans., 29-30,1717 |
| 27 | 1715 V 3 | Marly | France | Cassini | The partial phases recorded,  Max.phase 11 ¼ d | Histoire de l’Académie Royale des Sciences, 1715 |
| 28 | 1715 V 3 | Paris | France | De la Hire | The partial phases recorded  Max.phase 11d10’ | Hist.de l’Academie Royale des Sciences, 1715 |
| 29 | 1715 V 3 | Luxembourg Palace/Paris | France | Delisle le Cadet | The beginning and end recorded,  Max.phase 11 ¼ d | Hist.de l’Academie Royale des Sciences, 1715 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 30 | 1715 V 3 | Châtenay | France | Maraldi | The partial phases recorded,  max.phase 11d11’ | Hist.de l’Academie Royale des Sciences, 1715 |
| 31 | 1715 V 3 | Marseille | France | Laval and Feuillée | The beginning and end recorded,  max.phase 9d40’ | Hist.de l’Academie Royale des Sciences, 1715 |
| 32 | 1715 V 3 | Montreüil | France | De Vilmarest | Some partial phases recorded,  max. phase 11.5d | Hist.de l’Academie Royale des Sciences, 1715 |
| 33 | 1715 V 3 | Montpellier | France | De Plantade and Clapies | Some partial phases recorded | Hist.de l’Academie Royale des Sciences, 1715 |
| 34 | 1715 V 3 | Recicourt | France | Teinturier | The beginning and end recorded | Hist.de l’Academie Royale des Sciences, 1715 |
| 35 | 1715 V 3 | Hamburg | Germany |  | A deep partial eclipse,  max. phase 11d30’=0.958 | Phil.Trans., 29-30,1717, Hist.de l’Academie Royale des Sciences, 1715 |
| 36 | 1715 V 3 | Kiel | Germany | Reyer | The beginning and end recorded,  max. phase 11d20’=0.944 | Phil.Trans., 29-30,1717 |
| 37 | 1715 V 3 | Berlin | Germany | Hoffmann | A deep partial eclipse,  max. phase 11d = 0.917 | Acta Eruditorum Lipsiensia, anno 1682 à 1776, 1716, Hist.de l’Academie Royale des Sciences, 1715 |
| 38 | 1715 V 3 | Pirna | Germany | Schmieder | A deep partial eclipse,  max. phase 10d = 0.833 | Acta Eruditorum Lipsiensia, anno 1682 à 1776, 1716 |
| 39 | 1715 V 3 | Lindau | Germany | Gaupe | The end of the eclipse recorded | Hist.de l’Academie Royale des Sciences, 1715 |
| 40 | 1715 V 3 | Frankfurt a.M. | Germany |  | The beginning and end recorded,  max.phase 10d34’ | Hist.de l’Academie Royale des Sciences, 1715 |
|  | 1715 V 3 | Altdorf | Germany | Müller | Max.phase 10d | Observationes astronomico-physicae |
| 41 | 1715 V 3 | Wrocław | Poland | Heinrich | Big partial eclipse,  max. 10d 18’= 0.858 | Acta Eruditorum Lipsiensia, anno 1682 à 1776, 1715 |
| 42 | 1715 V 3 | Gdańsk | Poland | Hecker | The beginning and end as well as phases recorded,  max.phase >10 2/3=0.889 | Acta Eruditorum Lipsiensia, anno 1682 à 1776, 1716,Hist.de l’Academie Royale des Sciences, 1715 |
| 43 | 1715 V 3 | Warszawa | Poland | ? | Iocontact recorded  max. > 10d=0.917 | Acta Eruditorum Lipsiensia, anno 1682 à 1776, 1716, Hist.de l’Academie Royale des Sciences, 1715 |
| 44 | 1715 V 3 | Uppsala | Sweden | Wallerius | Total eclipse for 4m09s, great darkness, Jupiter, Mercury and Venus as well as some bright stars seen | Phil.Trans., 29-30,1717 Acta Eruditorum Lipsiensia, anno 1682 à 1776, 1716 |
| 45 | 1715 V 3 | Parma | Italy | Beccadilli | Contacts recorded,  max. phase 9.2d = 0.767 | Zeitschrift fur Astronomie, 3-4, 1817  Acta Eruditorum Lipsiensia, anno 1682 à 1776, 1766 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 46 | 1715 V 3 | Bologna | Italy | Manfredi | Iocontact recorded | Hist.de l’Academie Royale des Sciences, 1715 |
| 47 | 1715 V 3 | Roma | Italy | Bianchini | The beginning and end recorded | Hist.de l’Academie Royale des Sciences, 1715 |
| 48 | 1715 V 3 | Padova | Italy | Poleni | Partial eclipse observed;  max.phase 9d10’ | Observatio solaris eclipsis  habita Patavii V. Nonas Maias MDCCXV |
| 49 | 1715 V 3 | Genova | Italy | Salvago, Barabino | Contacts recorded | Zeitschrift für Astronomie und verwandte Wissenschaften, Bd.3-4, Mai-Junius 1817, p.356. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1724 V 22 | Haradon Hill | England | Stukeley | Great darkness, solar corona seen | Itinerarium curiosum  by W.Stukeley |
| 2 | 1724 V 22 | Trianon/Versailles | France | Cassini,  Maraldi | Total eclipse for 2m17s,  solar corona observed, Venus, Mercury and stars seen | Hist.Acad.Royale des Sci., 1724 |
| 3 | 1724 V 22 | Paris | France | Delisle le Cadet | Total eclipse for 2m23s  The solar corona of a width of 1 digit | Hist.Acad.Royale des Sci., 1724 |
| 4 | 1724 V 22 | Palais Luxembourg/  Paris | France | Delisle de la Croyere | Total eclipse for 2m18s | Hist.Acad.Royale des Sci., 1724 |
| 5 | 1724 V 22 | Toulon | France | Laval | Partial phases observed,  max. phase 11 1/3d | Mémoires pour l’histoire des sciences et des beaux arts, 1724 |
| 6 | 1724 V 22 | Ulm | Germany | Algöwer | Total eclipse, darkness as at a full-moon-night | Appendix ad Specimen Hyetometriae Curiose. |
| 7 | 1724 V 22 | Berlin | Germany | Kirch | Phases recorded,  maximum phase 10 ¼ digits=0.846,  Venus remarked | Kirch’s journal of observations  <http://idb.ub.uni-tuebingen.de/opendigi/Md35#p=24>(et al);  Miscellanea Berolinensia 1727, p.191 |
|  | 1724 V 22 | Hamburg | Germany | Beyer | Phases recorded;  Max.phase>10d | Miscellanea Berolinensia 1727, p.191 |
| 8 | 1724 V 22 | Nürnberg | Germany | Rost,  Wurzelbaur | Maximum phase 11d26’ | J.L.Rost: Deutliche und ausführliche Beschreibung der sehr grossen und merckwürdigen Mond-Finsterniß Anno 1725 d. 21 October |
| 9 | 1724 V 22 | Hildburghausen | Germany | Wagner | Maximum phase 11d+ | Acta Eruditorum, 1725 |
| 10 | 1724 V 22 | Ingolstadt | Germany | Nicas Grammaticus | Partial phases recorded. Max.phase 11d15’-11d20’ | Simonelli: Scientia eclipsium, 1747 |
| 11 | 1724 V 22 | Seebach | Germany | Büchner | Partial phases observed, max. phase 10d | Sammlung von Natur- und Medicin-, wie auch hierzu gehörigen Kunst- und Literatur-Geschichten (1718-1730) |
|  | 1724 V 22 | Kusnacht | Switzerland | Scheuchzer | Total ecplise, corona observed | A letter to J.Bernoulli |
| 12 | 1724 V 22 | Basel | Switzerland | Bernoulli | A sudden darkness with the overcast sky | A letter to G.B.Bilfinger |
| 13 | 1724 V 22 | København | Denmark | Horrebow | Partial, max.phase 9 4/5d | Simonelli: Scientia eclipsium, 1747 |
| 14 | 1724 V 22 | Lund | Sweden | Quensel | Partial | Acta Litter. et Scient. Sueciae, I |
| 15 | 1724 V 22 | Uppsala | Sweden | Burman | Partial | Acta Litter. et Scient. Sueciae, I |
| 16 | 1724 V 22 | Albano | Italy | Bianchini | Partial up to 8d40’ | A special report |
| 17 | 1724 V 22 | Padova | Italy | Poleni | Observed partial phases up to 7d,  Next many stars seen | Acta Erudiorum, 1725 and Ad lo. Iacobum Marinonium epistola in qua agitur de Solis defectu anno 1724. Patavii observato |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 18 | 1724 V 22 | Bologna | Italy | Manfredi | Maximum phase 11 13/14, stars, Venus and Mercury seen | De Bononiensi Scientiarum et artium Instituto atque Academia Commentarii, Opuscula, t. II, p.III, p. 91-93 |
| 19 | 1724 V 22 | Firenze | Italy | Simonelli | Almost total eclipse, Venus, Mercury and some stars seen | Simonelli: Scientia eclipsium, 1747 |
| 20 | 1724 V 22 | Roma | Italy | Young jesuits | Max. phase almost 7d at sunset | Simonelli: Scientia eclipsium, 1747 |
| 21 | 1724 V 22 | Albano | Italy | Bianchini | Partial phases recorded,  max.phase 9d15’ | F.Bianchini: eclipsis solis  die xxii. Maii mdccxxiv. Observata Albani in Latio…, 1724. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1733 V 13 | London | England | Graham | Max. phase 9 4/5 d | Philosophical Transactions 1733 |
| 2 | 1733 V 13 | Norton Court | England | Gray | Partial phases observed. Max. phase 97/8d | Philosophical Transactions 1733 |
| 3 | 1733 V 13 | Otterden | England | Wheler | First and last contact recorded | Philosophical Transactions 1733 |
| 4 | 1733 V 13 | Yeowil | England | Milner | First and last contact recorded | Philosophical Transactions 1733 |
| 5 | 1733 V 13 | Göteborg | Sweden | B.Vassenius | Total eclipse for 2m08s, solar corona and protuberances observed | Philosophical Transactions, 38, 1735 |
| 6 | 1733 V 13 | Svenacker | Sweden | T.Vassenius | Total eclipse for 2m31s | Philosophical Transactions, 38, 1735 |
| 7 | 1733 V 13 | Catherinesholm | Sweden |  | Solar corona of about 1d breadth | Acta Lit. et Sci. Suec. Upsal., t.IV |
| 8 | 1733 V 13 | Karlstad | Sweden | Edstrom | A symmetric solar corona observed | Acta Lit. et Sci. Suec. Upsal., t.IV |
| 9 | 1733 V 13 | Königsberg | Prussia | Langhansen | Total eclipse for 2m40s  great darkness, solar corona remarked | Miscellanea Berolinensia ad incrementum scientiarum. – IV, 1734 |
| 10 | 1733 V 13 | Paris | France | Grandjean de Fouchy | Partial phases observed. Max. phase 9d | Histoire de l’Académie Royale des Sciences 1733 |
| 11 | 1733 V 13 | Paris | France | Cassini | Partial phases observed. Max. phase 9.5d | Histoire de l’Académie Royale des Sciences 1733 |
| 12 | 1733 V 13 | Paris | France | Godin | Partial phases observed. Max. phase 9d20’ | Histoire de l’Académie Royale des Sciences 1733 |
| 13 | 1733 V 13 | Wittenberg | Germany | Weidler | Max. phase 11d | Miscellanea Berolinensia ad incrementum scientiarum. – IV,1734 |
| 14 | 1733 V 13 | Regensburg | Germany | Grammaticus | Partial phases observed.  Max. phase 10 1/6 d | Monatliche Correspondenz, Maerz 1800 |
| 15 | 1733 V 13 | Ingolstadt | Germany | Anynomous | Some partial phases recorded.  Max.phase 10d | Monatliche Correspondenz, Maerz 1800 |
| 16 | 1733 V 13 | Berlin | Germany | Kirch | Max. phase 11d9’=0.929 | Miscellanea Berolinensia ad incrementum scientiarum. – IV,1734 |
| 17 | 1733 V 13 | Berlin | Germany | Celsius | Max. phase 11d6’=0.925 | Miscellanea Berolinensia ad incrementum scientiarum. – IV,1734 |
| 18 | 1733 V 13 | Praha | Bohemia | Mühlwenzel | Partial phases observed.  Max. phase 7 2/3d=0.639 | Monatliche Correspondenz, März 1800 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1737 III 1 | Edinburgh | Scotland | MacLaurin,  Short, Clerk | Annular eclipse for 5m48s, a distinct diminishing of light remarked, Venus seen, as well some stars seen by some people | Phil.Trans. 40, 1741 |
| 2 | 1737 III 1 | Hopeton House | Scotland | Hope | Annular eclipse for 6 minutes | Phil.Trans. 40, 1741 |
| 3 | 1737 III 1 | Crosby | Scotland | Fullarton | Annular eclipse for 7 minutes,  a dusk seen, Venus remarked | Phil.Trans. 40, 1741 |
| 4 | 1737 III 1 | Loch Ryan | Scotland | Wallace | Annular eclipse for 5 minutes | Phil.Trans. 40, 1741 |
| 5 | 1737 III 1 | Montrose | Scotland | Auchterlony | Annular eclipse for 7 minutes | Phil.Trans. 40, 1741 |
| 6 | 1737 III 1 | Aberdeen | Scotland | Steward | Annular eclipse for 6 minutes | Phil.Trans. 40, 1741 |
| 7 | 1737 III 1 | Gordon Castle | Scotland | Gregory | Annular through clouds | Phil.Trans. 40, 1741 |
| 8 | 1737 III 1 | Frazerburgh | Scotland | Walker | Annular eclipse for 5 minutes | Phil.Trans. 40, 1741 |
| 9 | 1737 III 1 | Inverness | Scotland | anonymous | Annular eclipse | Phil.Trans. 40, 1741 |
| 10 | 1737 III 1 | Elgin | Scotland | Irwin | Annular through clouds | Phil.Trans. 40, 1741 |
| 11 | 1737 III 1 | St.Andrews | Scotland | Gregory  Young, | Annular eclipse almost central | Phil.Trans. 40, 1741 |
| 12 | 1737 III 1 | Long-Framlington | Scotland | Long | Annular for about 40 seconds | Phil.Trans. 40, 1741 |
| 13 | 1737 III 1 | Newcastle | England | Thomson | Not annular | Phil.Trans. 40, 1741 |
| 14 | 1737 III 1 | Morpeth | England | Willson | Not annular but close to (the eclipse seemed to be annular for the naked eye) | Phil.Trans. 40, 1741 |
| 15 | 1737 III 1 | London | England | Graham | Partial eclipse,  max. phase 0.820 | Phil.Trans. 40, 1741 |
| 16 | 1737 III 1 | Greenwich | England | Bevis, Halley | Partial eclipse | Phil.Trans. 40, 1741 |
| 17 | 1737 III 1 | Cambridge | England | Mason | Partial eclipse,  Max. about 10d in clouds | Phil.Trans. 40, 1741 |
| 18 | 1737 III 1 | Kettering | England |  |  |  |
| 19 | 1737 III 1 | Harcourt | France | Le Monnier | Partial eclipse, phases recorded  Max. 9d7’ | Histoire de l’Academie Royale des Sciences, 1737 |
| 20 | 1737 III 1 | Paris | France | De Thiry | Partial eclipse, phases recorded  Max. 9.25d | Histoire de l’Academie Royale des Sciences, 1737 |
| 21 | 1737 III 1 | Versailles | France | Cassini | Partial eclipse, some phases recorded  Max. >9d | Histoire de l’Academie Royale des Sciences, 1737 |
| 22 | 1737 III 1 | Toulouse | France | Gariput | Partial eclipse, phases and contacts with sunspots recorded  Max. 7.5d | Mémoires de mathématique et de physique, t.2 |
| 23 | 1737 III 1 | Aix | France | Montvalon  and de Baeuf | Partial eclipse, phases recorded  Max. 7d | Histoire de l’Academie Royale des Sciences, 1737 |
| 24 | 1737 III 1 | Wittenberg | Germany | Weidler | Partial eclipse, some phases recorded | Philosophical Transactions, 1737 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 25 | 1737 III 1 | Uppsala | Sweden | Hiorter | Annular eclipse noticed | Acta literaria (et scientiarum) Sueciæ |
| 26 | 1737 III 1 | Wien | Austria | Jesuits | Partial eclipse, some phases recorded | Neue Zeitungen von gelehrten Sachen… 1743 |
| 27 | 1737 III 1 | Bologna | Italy | Manfredi | Partial eclipse, phases recorded  Max. 7.5d | Philosophical Transactions, 1737 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1748 VII 25 | Aberdour Castle | Scotland | Earl of Morton,  Le Monnier,  Short | Not annular but close to, the brown colour of the Moon at the solar cusps and the inequalities of the lunar limb during the maximum phase remarked, Venus remarked | Phil.Trans. 45,1750 |
| 2 | 1748 VII 25 | Aldiston | Scotland | Bryce | Not annular but close to, inequalities at the cusps observed | Phil.Trans. 45,1750 |
| 3 | 1748 VII 25 | Netherbyres | Scotland | Crow | Not annular | Phil.Trans. 45,1750 |
| 4 | 1748 VII 25 | Dundee | Scotland | Mark | Annular eclipse for 6m24s | Phil.Trans. 45,1750 |
| 5 | 1748 VII 25 | Montrose | Scotland | Anonymous | Annular eclipse for 4m30s | Phil.Trans. 45,1750 |
| 6 | 1748 VII 25 | Aberdeen | Scotland | Steward | Annular eclipse for 5m48s, not precisely | Phil.Trans. 45,1750 |
| 7 | 1748 VII 25 | New Macchar | Scotland | Reid | Annular eclipse | Phil.Trans. 45,1750 |
| 8 | 1748 VII 25 | Elgin | Scotland | Irwin | Annular eclipse for 5m30s, Baily’s beads observed | Phil.Trans. 45,1750 |
| 9 | 1748 VII 25 | Culloden | Scotland | Frazer | Annular eclipse for 5m00s | Phil.Trans. 45,1750 |
| 10 | 1748 VII 25 | Air | Scotland | Mair | The beginning of the eclipse observed | Phil.Trans. 45,1750 |
| 11 | 1748 VII 25 | Kirkwall | Orkney Is. | Mackenzie | Not annular | Phil.Trans. 45,1750 |
| 12 | 1748 VII 25 | Lusswick | England | Day | Big partial | Phil.Trans. 45,1750 |
| 13 | 1748 VII 25 | London | England | Bevis | Partial eclipse | Phil.Trans. 45,1750 |
| 14 | 1748 VII 25 | Greenwich | England | Bradley | Partial eclipse |  |
| 15 | 1748 VII 25 | Uttersberg | Sweden | Wargentin | A deep partial eclipse observed, contacts with sunspots recorded | Acta Societatis Regiae Scientiarum Upsaliensis, 1751 |
| 16 | 1748 VII 25 | Paris | France | Cassini, Maraldi, de Fouchy | Several phases through clouds recorded | Memoires de l’Academie Royale des Sciences, 1748 |
| 17 | 1748 VII 25 | Paris | France | de l‘Isle | Several phases through clouds recorded | Memoires de l’Academie Royale des Sciences, 1748 |
| 18 | 1748 VII 25 | Compiegne | France | de Thury, king Louis XV | Phases recorded, max. phase 9 2/3d,  Chromosphere noticed at the solar crrescent cusps | Memoires de l’Academie Royale des Sciences, 1748, p.56 |
| 19 | 1748 VII 25 | Bordeaux | France |  |  |  |
| 20 | 1748 VII 25 | Toulouse | France | Garipuy | Max.phase 7.5d | Mémoires de mathématique et de physique. présentés à l’Académie Royale des Sciences, par divers savans, et lûs dans ses assemblées, Tom 2 |
| 21 | 1748 VII 25 | Bayéux | France | Outhier | Phases recorded, max. phase 9d, contacts with sunspots recorded | Memoires de l’Academie Royale des Sciences, 1748 |
| 22 | 1748 VII 25 | Montpellier | France | de Gulleminet | Max.phase 7 3/4d  End of the eclipse recorded | Mémoires de mathématique et de physique. présentés à l’Académie Royale des Sciences, par divers savans, et lûs dans ses assemblées, Tom 2 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 23 | 1748 VII 25 | Lyon | France | Beraud | Beginning and end recorded.  Max. phase 8d55’ | Mémoires de mathématique et de physique. présentés à l’Académie Royale des Sciences, par divers savans, et lûs dans ses assemblées, Tom 2 | |
| 24 | 1748 VII 25 | Marseille | France | Pezenas | Max.phase 7d54’  End of the eclipse recorded | Mémoires de mathématique et de physique. présentés à l’Académie Royale des Sciences, par divers savans, et lûs dans ses assemblées, Tom 2 | |
| 25 | 1748 VII 25 | Berlin | Germany | Kies | Annular eclipse close to the limit for 1m22s | Histoire de l’Académie Royale des Sciences et des Belles-Lettres de Berlin. -  1748 | |
| 26 | 1748 VII 25 | Berlin | Germany | Grischow | Annular eclipse close to the limit ffor 1m22s | Phil.Trans. 45,1750 | |
| 28 | 1748 VII 25 | Frankfurt a.Oder | Germany | Polac | Annular eclipse for 4m12s | Phil.Trans. 45,1750 | |
| 29 | 1748 VII 25 | Leipzig | Germany | Heinsius | Nearly annular eclipse observed  Max. phase 10 d 57’ 2/3 | Novi Commentarii Academiae Scientiarum Imperialis Petropolitanae, Tom 1, 1747-48 | |
| 30 | 1748 VII 25 | Dresden | Germany | Böhme | Partial eclipse observed | Neuer Büchersaal der schönen Wissenschaften und freyen Künste. Hrsg. von Johann Christoph Gottsched, Tom 7, 1748 | |
| 31 | 1748 VII 25 | Breslau/Wrocław | Austrian Imp./  Poland | Stieff | Partial eclipse observed  Max. phase 11d17’ | Johann Christoph Gottsched: Briefwechsel, Nov.1748-Sept. 1749 | |
| 32 | 1748 VII 25 | Nürnberg | Germany | Mayer | Partial eclipse; astrometric observations | Kosmographische Nachrichten und Sammlungen auf das Jahr 1748 | |
| 33 | 1748 VII 25 | Göttingen | Germany | von Segner | Partial eclipse observed,  The beginning and end recorded,  max.phase almost 10 2/3d | Göttingische Zeitungen von gelehrten Sachen, den 1 Augustus 1748. | |
| 34 | 1748 VII 25 | Tübingen | Germany | Krafft | The beginning and end recorded; contacts with sunspots recorded | OBSERVATIOECLIPSEOS SOLARISd. 25 Iulii 1748 Tubingae factaa Georgio Wolffg. Krafft. | |
| 35 | 1748 VII 25 | Wien | Austria | Marinoni | Contatcs recorded  Max.phase 10 ¾ d | A letter to J.N.Delisle | |
| 36 | 1748 VII 25 | Bologna | Italy | Zanotti | Partial phases recorded.  Max.phase 8 ¾d | Giornale de’ letterati pubblicato in Firenze, Tom 17, 1748. | |
| **37** | 1748 VII 25 | Roma | Italy | Jesuits | Contacts recorded.  Max.phase 9d15’? | Mémoires pour l’histoire des sciences & des beaux-arts, 1748,9, 2087. | |
| 38 | 1748 VII 25 | Roma | Italy | Maire | Contacts recorded.  Max.phase 8d12’ | Mémoires pour l’histoire des sciences & des beaux-arts, 1748,9, 2087. | |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 40 | 1748 VII 25 | Pisa | Italy | Perelli | Partial phases recorded.  Max.phase 8 5/8d | Giornale de’ letterati pubblicato in Firenze, Tom 17, 1748. |
| 41 | 1748 VII 25 | Firenze | Italy | Ximenes | Partial phases recorded.  Max.phase 8d24’ | Giornale de’ letterati pubblicato in Firenze, Tom 17, 1748. |
| 42 | 1748 VII 25 | Verona | Italy | Gulienti and Séguier | Partial phases recorded.  Max.phase 9d05’ | Acta Eruditorum, 1749 |
| 43 | 1748 VII 25 | Madrid | Spain | de Ulloa | Some partial phases recorded.  Max.phase >6d | Observaciones Practicadas En Las Costas De España, 1809 |
| 44 | 1748 VII 25 | Uppsala | Sweden | ??? | Some partial phases recorded.  Max.phase 9.5d | Neuer Büchersaal der schönen Wissenschaften und freyen Künste. Hrsg. von Johann Christoph Gottsched, Tom 7, 1748 |
| 45 | 1748 VII 25 | St. Petersburg | Russia | Braun, Popov | Partial phases recorded  Max.phase 9d7’ | Observatio eclipsis solis anni MDCCXLVIII. die 14/25 mensis Iulii in Specula Astronomica Imperatoria reparata quae Petroburgi est presente illustrissimo comite de Rasumovski Academiae Scientiarum Praesidie instituta. |
| 46 | 1748 VII 25 | St. Petersburg | Russia | ??? | Partial phases recorded  Max.phase 8d48’ | Hamburgisches magazin: oder Gesammlete schriften, aus der naturforschung und den angenehmen wissenschaften überhaupt, Tom 3, 1748. |
| 47 | 1748 VII 25 | Stryj | Ukraine | Anonymous | Annular eclipse observed | Українське небо 2: Студії над історією астрономії в Україні, 2016 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1753 X 26 | Lisboa | Portugal | Chevalier | Partial eclipse  Contatcs recorded  Max.phase 11d5’  Jupiter, Venus and some stars seen | Philosophical Transactions, 48,2, 1755 |
| 2 | 1753 X 26 | Lisboa | Portugal | Da Veiga | Multiple phases observed  Max.phase 11d8’  Venus and Jupiter seen | Observatio Eclipsis Solaris Die 26 Octobris anni 1753, Habita Ulyssipone in Aula Sphaerae Regalis Collegii D.Antonii Magni |
| 3 | 1753 X 26 | Aveyro | Portugal | de Bory | Not total  Venus and Jupiter seen | Observation de l’eclipse du soleil du 26. Oct. 1753, faite a Aveiro  par Gabriel de Bory |
| 4 | 1753 X 26 | Göttingen | Germany | Mayer | Multiple phases observed | Tobias Meyer  Eclipsis Solis 1753. Oct. 26. anetemerid. |
| 5 | 1753 X 26 | Thury | France | Cassini, Maraldi | Contacts and some phases observed  Max.phase 8d45’ | Hist. de l’Academ. Roy.des Sci. 1753 |
|  | 1753 X 26 | Toulouse | France | Garipuy | Partial eclipse observed | GaripuyF. , *Observation de l'Eclisse du Soleil du 26 octobre 1753,*  Arch.Dep.Herault, D 129, ff° 102-105 |
| 6 | 1753 X 26 | Trujillo | Spain | Godin | Not total  Max.phase 23/24=0.958 | A letter with an observation report  José Espinosa y Tello: Memorias sobre las observaciones astronomicas…, 1809. |
| 7 | 1753 X 26 | Leyden | The Netherlands | Lulofs | Contacts recorded  Max. phase 7d50-52’ | Zons Verduistering den 26 october 1753  gedaan te Leydendoor Johan Lulofs, Verh. de Holl. Maatsch. der Wettensch. te Haarlem, 1754, p.379. |
| 8 | 1753 X 26 | Haag | The Netherlands | Gabry | Multiple phases observed  Max.phase 7d53’ | De Zons verduistering den 26 van Wynmaand 1753, waargenomen in Hage door Mr. Pieter Gabry, Verh. de Holl. Maatsch. der Wettensch. te Haarlem, 1754, p.529. |
| 9 | 1753 X 26 | Haarlem | The Netherlands | ? | Contacts observed  Max. phase 7 2/3d | Zon-Eclips, den 26 October 1753, ‘s morgens waargenoomen, te Haarlem, en Krommenie,  Verhandelingen de Hollandsche Maatsch. der Wettensch. te Haarlem, 1754, p.535. |
| 10 | 1753 X 26 | Hernösand | Sweden | Gissler | Contacts recorded | Solens Förmörkelse  Den 26. October innevarande år,  Observerad i Hernösand Af NILS GISSLER, Kungliga Svenska Vetenskapsakadem. handlingar, 14, 1753, p.293. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1764 IV 1 | Madrid | Spain | Clouet | Annular eclipse for4m23s | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.353 |
| 2 | 1764 IV 1 | Cadiz | Spain | Hénay | Annular eclipse for 2m52s | Hist. de l”Acad. Roy. des Sci., 1780, p.218 |
| 3 | 1764 IV 1 | Rennes | France | de l’Angle | Annular eclipse for 3m20s | Hist. de l”Acad. Roy. des Sci., 1780, p.226 |
| 4 | 1764 IV 1 | Calais | France | Blondeau | Annular eclipse for 6m08s  Almost central annular eclipse | Hist. de l’Acad. Roy. des Sci., 1780, p.209 |
| 5 | 1764 IV 1 | Calais | France | de Croy | Annular eclipse for 6m08s  Almost central annular eclipse | Hist. de l’Acad. Roy. des Sci., 1764, p.149 |
| 6 | 1764 IV 1 | Brest | France | Fortin | Contacts observed  Max.phase 10d45’ | Mémoires de Mathématique et de Physique, 1764 |
| 7 | 1764 IV 1 | Graville | France | Pingré | A considerable darkness | Hist. de l’Acad. Roy. des Sci., 1767, p286 |
| 8 | 1764 IV 1 | Nolon/Sens | France | de Luynes  Bailly | Short annular phase remarked | Hist. de l’Acad. Roy. des Sci., 1764, p.117, 1780, p.212 |
| 9 | 1764 IV 1 | Vire | France | Gautier | Almost central annular | Hist. de l’Acad. Roy. des Sci., 1764, p.149 |
| 10 | 1764 IV 1 | Caen | France | Pigott | Almost central annular | Hist. de l’Acad. Roy. des Sci., 1764, p.149 |
| 11 | 1764 IV 1 | Denainvilliers | France | Hamel, Pluviers,  Gâtinois | Annular eclipse but not central |  |
| 12 | 1764 IV 1 | Toul | France | de Montignot | Contacts recorded  Close to annular | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.349 |
| 13 | 1764 IV 1 | Toulouse | France | D’Arquier | The gratest phase of 0.900 observed | Histoire de l’Académie Royale des Sciences, 1764, p.110 |
| 14 | 1764 IV 1 | Nérac | France | de Romas |  |  |
| 15 | 1764 IV 1 | Kergars | France | d’Aprés | The end of the eclipse recorded  Close to annular | Histoire de l’Académie Royale des Sciences**,** 1764, p.151 |
| 16 | 1764 IV 1 | Lyon | France | Monge | Multiple phases observed  Max. phase 9d 38’ | Manuscript |
| 17 | 1764 IV 1 | Montpellier | France | de Ratte, d’Anisi | The end recorded | Memoires de la Acad. 1771, p.236 |
| 18 | 1764 IV 1 | Auxerre | France | Montbarroy | Contacts recorded | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.349 |
| 19 | 1764 IV 1 | Nancy | France | Durosoy, Barles | Contacts recorded | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.349 |
| 20 | 1764 IV 1 | Pont-à-Mousson | France | Bourgeois, Colas | Contacts recorded  Max.phase 10d 5/6 | Hist. de l’Acad. Roy. des Sci., 1780, p.162 |
| 21 | 1764 IV 1 | London | England | Short | Beginning of the eclipse recorded | Philosphical Transactions 1764, p.112 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 22 | 1764 IV 1 | London | England | Bevis | Beginning of the eclipse recorded | Philosphical Transactions 1764, p.113 |
| 23 | 1764 IV 1 | London | England | Dunn | Beginning of the eclipse recorded | Philosphical Transactions 1764, p.114 |
| 24 | 1764 IV 1 | Greenwich | England | Bliss, Reeve | Beginning of the eclipse recorded  Max.phase greater than 10.9 digits | Philosphical Transactions 1764, p.141 |
| 25 | 1764 IV 1 | Oxford | England | Hornsby | Not annular |  |
| 26 | 1764 IV 1 | Catham | England | Murray | Barely annular eclipse | Philosphical Transactions 1764, p. |
| 27 | 1764 IV 1 | Thorley Hall | England | Raper | Contacts recorded | Philosphical Transactions 1764, p. |
| 28 | 1764 IV 1 | Edinburgh | Scotland |  | Contacts recorded | Die Beobachtung der Sonnenfinsterniß... |
| 29 | 1764 IV 1 | Berlin | Germany | Reccard | Phases recorded. Max.phase 10d10’ | Die Beobachtung der Sonnenfinsterniß... |
| 30 | 1764 IV 1 | Berlin | Germany | Euler | Contacts recorded | Die Beobachtung der Sonnenfinsterniß... |
| 31 | 1764 IV 1 | Frankfurt a.O. | Germany | Polack | Phases recorded. Max.phase 10d | Die Beobachtung der Sonnenfinsterniß... |
| 32 | 1764 IV 1 | Frankenfelde | Germany | Kärsten | Contacts recorded. Max.phase 10d 7’  Venus noticed | Die Beobachtung der Sonnenfinsterniß... |
| 33 | 1764 IV 1 | Sagan | Germany | Siegart | Phases recorded. Max.phase 10+d | Die Beobachtung der Sonnenfinsterniß... |
| 34 | 1764 IV 1 | Breslau | Germany | Scheibel | Contacts recorded | Die Beobachtung der Sonnenfinsterniß... |
| 35 | 1764 IV 1 | Breslau | Germany | Wache, Geissler | Phases recorded. Max.phase 9d27’. | Die Beobachtung der Sonnenfinsterniß... |
| 36 | 1764 IV 1 | Schwetzingen | Germany | Mayer | Partial, contacts recorded | Die Beobachtungen der Sonnen-Finsternis welche sich den 1 April 1764 … |
| 37 | 1764 IV 1 | Leipzig | Germany | Heinsius | Phases recorded. Max.phase 10d8’ | Godofredus Heinsius : De eclipsi Solis d. 1. April. 1764 Lipsiae observata |
| 38 | 1764 IV 1 | Hamburg | Germany | Sonnin | Contacts recorded | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.349 |
| 39 | 1764 IV 1 | Altona | Germany | Adler, Prose | Contacts recorded | Die Beobachtung der Sonnenfinsterniß... |
| 40 | 1764 IV 1 | Elbing | Germany | Endersch | Phases recorded. Max.phase 10.5d | Die Beobachtung der Sonnenfinsterniß... |
| 42 | 1764 IV 1 | Wernigerode | Germany | Kassman | Phases recorded. Max.phase 9 ¼ d | Die Beobachtung der Sonnenfinsterniß... |
| 43 | 1764 IV 1 | Wernigerode | Germany | Schröder | Observations of the nature | Die Beobachtung der Sonnenfinsterniß... |
| 44 | 1764 IV 1 | Wien | Austria | Liesganig | Phases recorded. Max.phase >9d | Philosphical Transactions 1765, p.135 |
| 45 | 1764 IV 1 | København | Denmark | Horrebow | Contacts recorded  Max.phase 10d 5/6 | Hist. de l’Acad. Roy. des Sci., 1780, p.160 |
| 46 | 1764 IV 1 | Stockholm | Sweden | Wargentin,  Vilke, Ferner | Contacts recorded  Maax.phase 11d | Hist. de l’Acad. Roy. des Sci., 1780, p.163 |
| 47 | 1764 IV 1 | Härnösand | Sweden | Gissler et al. | Annular eclipse for 5m57s; central annular eclipse estimated | Hist. de l’Acad. Roy. des Sci., 1780, p. |
| 48 | 1764 IV 1 | Karlskrona | Sweden | Stromer, Bergstrom, Zegollstrom | Contacts recorded  Max.phase 10d 3/8 | Hist. de l’Acad. Roy. des Sci., 1780, p.157 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 49 | 1764 IV 1 | Uppsala | Sweden | Mallet | The end recorded | Hist. de l’Acad. Roy. des Sci., 1780, p. |
| 50 | 1764 IV 1 | Åbo | Finland | Planman, Justander | Contacts recorded | Hist. de l’Acad. Roy. des Sci., 1780, p.157 |
| 51 | 1764 IV 1 | Torneå | Sweden | Hellant’s friend | Annular eclipse for 6m00s | Hist. de l’Acad. Roy. des Sci., 1780, p. |
| 52 | 1764 IV 1 | Pello | Sweden | Hellant | Annular eclipse for 5m50s, almost central | Hist. de l’Acad. Roy. des Sci., 1780, p. |
| 53 | 1764 IV 1 | Warszawa | Poland | Rostan | Partial, contacts registered | Biblioteka Warszawska, 1844, III |
| 54 | 1764 IV 1 | Warszawa | Poland | Łuskina | Partial, contacts registered | Biblioteka Warszawska, 1844, III |
| 55 | 1764 IV 1 | Poznań | Poland | Rogaliński | Phases recorded  Max.phase 9d54’ | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.357 |
| 56 | 1764 IV 1 | Lwów | Poland | Łysogórski | Phases recorded | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.356 |
| 57 | 1764 IV 1 | Milano | Italy | La Grange | Phases recorded. Max.phase 9d4’ | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.336 |
| 58 | 1764 IV 1 | Bologna | Italy | Zanotii | Phases recorded. Max.phase 9d2’ | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.335 |
| 59 | 1764 IV 1 | Roma | Italy | Jesuits | Phases recorded. Max.phase almost 8d 45’ | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.349 |
| 60 | 1764 IV 1 | T’rnovo | Bulgaria | Weiss | Phases recorded. Max phase 8d55’ | Ephemerides astronomicae anni 1765 ad meridianum vindobonensem, p.362 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1778 VI 24 | Near Cape St.Vincent | Spain | Ulloa | Total eclipse seen from the ship | Ulloa A.: El Eclipse de Sol con el anillo refractorio de sus rayos..., 1778 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1793 IX 5 | Lambhuus | Iceland | Lievog | The end of the annular and partial eclipse recorded | Berliner Astronomisches Jahrbuch 1797, p.237 |
| 2 | 1793 IX 5 | Slough | England | Herschel | Lunar mountains observed | Philosophical Transactions, 1794, p.39 |
| 3 | 1793 IX 5 | Greenwich | England | Maskelyne | The beginning recorded | Berliner Astronomisches Jahrbuch 1798, p.103 |
| 4 | 1793 IX 5 | Harefield | England | Brühl | Contacts recorded | Berliner Astronomisches Jahrbuch 1796, p.227 |
|  | 1793 IX 5 | Petersham | England | Mackenzie |  | Manuscript |
|  | 1793 IX 5 | Richmond | England | Mainbray |  | Manuscript |
| 5 | 1793 IX 5 | Rotterdam | The Netherlands | Floryn, Rouppe | The beginning and end of partial eclipse as well as multiple phases recorded | Bericht wegens de waarneeming der zons-verduistering van den 5 September 1793 |
|  | 1793 IX 5 | Enschede | The Netherlands | Nieuwenhuis | Contacts recorded, Venus noticed | Waarneming der groote zonverduistering te Enschede… |
| 6 | 1793 IX 5 | Bergen | Norway | Aubert | Annular eclipse for 3m35s | Berliner Astronomisches Jahrbuch 1797, p.237 |
| 7 | 1793 IX 5 | Kristiansand | Norway | Wibe | Annular eclipse for 6m01s | Berliner Astronomisches Jahrbuch 1797, p.236 |
| 8 | 1793 IX 5 | Wang | Norway | Pihl | Contacts recorded | Berliner Astronomisches Jahrbuch 1797, p.238 |
| 9 | 1793 IX 5 | København | Denmark | Bugge | The beginning and end of partial eclipse as well as the end of the annular phase recorded | Berliner Astronomisches Jahrbuch 1797, p233; [Nye Samling af det Kongelige Danske Videnskaber(ne)s Skrifter – 1799, p.144](http://publ.royalacademy.dk/books/702) |
| 10 | 1793 IX 5 | Avgustovo | Poland/  Belarus | Odlanicki-Poczobutt,  Śniadecki | Not annular but very close to,  contacts recorded. | Supplement do Gazety Waszawskiej no.77  from Sept 25,1793 |
| 11 | 1793 IX 5 | Warszawa | Poland | Bystrzycki | Annular for 5m50s and central | Gazeta Warszawska no.73 from Sept. 11,1793 |
| 12 | 1793 IX 5 | Berlin | Germany | Bode | The beginning and several phases observed | Sammlung der deutschen Abhandlungen…  1792-97; Berliner Astronomisches Jahrbuch 1797, p101 |
|  | 1793 IX 5 | Hamburg | Germany | Reincke (?) | The end recorded, Venus and Mars noticed | Berliner Astronomisches Jahrbuch 1797, p.163 |
| 13 | 1793 IX 5 | Gotha-Seeberg | Germany | von Zach | The end recorded | Berliner Astronomisches Jahrbuch 1797, p.227 |
| 14 | 1793 IX 5 | Lilienthal | Germany | Schröter | Contacts recorded  Inequalites on the lunar limb noticed | Philosophical Transactions 1794 |
| 15 | 1793 IX 5 | Lauenburg | Germany | Harding | Multiple phases and the end of the eclipse recorded | Berliner Astronomisches Jahrbuch 1797, p.148 |
| 16 | 1793 IX 5 | Göttingen | Germany | Seyffer | The end recorded | Berliner Astronomisches Jahrbuch 1796, p.227 |
| 17 | 1793 IX 5 | Kleve | Germany | Müller | The end recorded | Berliner Astronomisches Jahrbuch 1796, p.160 |
| 20 | 1793 IX 5 | Danzig | Germany | Koch | The end recorded | Berliner Astronomisches Jahrbuch 1796, p.237 |
| 21 | 1793 IX 5 | Königsberg | Germany | Reccard | Annular for about 2m | Berliner Astronomisches Jahrbuch 1797, p.162 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 18 | 1793 IX 5 | Wien | Austria | Triesnecker, Bürg | Several partial phases and the end recorded | Ephemerides Astronomicae… ad Meridianum Vindobonenesum, 1794, p.306 |
| 19 | 1793 IX 5 | Budapest | Hungary | Taucher | Several partial phases and the end recorded | Ephemerides Astronomicae… ad Meridianum Vindobonenesum, 1794, p.315 |
| 22 | 1793 IX 5 | Jeglava | Latvia | Beitler | Beginning and some phases recorded | Berliner Astronomisches Jahrbuch 1797, p.154 |
| 23 | 1793 IX 5 | Milano | Italy | Oriani | The end recorded | Pubblicazioni del Reale osservatorio di Brera in Milano, 1875 |
| 24 | 1793 IX 5 | Napoli | Italy | Vivenzio, Cassella | Contacts recorded | Berliner Astronomisches Jahrbuch 1796, p.160 |
| 25 | 1793 IX 5 | Palermo | Italy | Piazzi | Contacts recorded | Pubblicazioni del Reale osservatorio di Brera in Milano, 1875 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1804 II 11 | Isla de León | Spain | Ortiz-Canelas | The beginning recorded | Astronomische Nachrichten, 6, 1828, p.71. |
| 2 | 1804 II 11 | Palma de Mallorca | Spain | De la Plana | The beginning and end recorded | Berliner Astronomisches Jahrbuch 1808, p. 271 |
| 3 | 1804 II 11 | Roma | Italy | Calandrelli, Conti | Twilight effects; the end recorded | Eclisse solare del di XI di Febbrajo MDCCCIV nella Specola Astronomica... osservata. Roma, 1804. |
| 4 | 1804 II 11 | Napoli | Italy | Cassella | The beginning and end recorded | Sull’ eclisse solare 1804 osservata. |
| 5 | 1804 II 11 | Utrecht | The Netherlands | Wagner | The beginning recorded | Monatliche Correspondenz 1804, April |
| 6 | 1804 II 11 | Paris | France | Messier | Max.phase 9d22’ and the end recorded | Mémoires de l’Institut des sciences, lettres et arts: sciences mathématiques et physiques, Tom 6, 1806 |
|  | 1804 II 11 | Marseille | France | Thulis | The end recorded | Monatliche Correspondenz 1804, April |
| 7 | 1804 II 11 | Regensburg | Germany | Heinrich | Some partial phases measured | Monatliche Correspondenz 1804, März |
| 8 | 1804 II 11 | Quedlinburg | Germany | Fritsche | The end recorded | Berliner Astronomisches Jahrbuch 1807, p. 204 |
| 9 | 1804 II 11 | Gotha-Seeberg | Germany | Von Zach et al. | Some partial phases measured, end recorded | Monatliche Correspondenz 1804, März |
|  | 1804 II 11 | Würzburg | Germany | Fischer | The beginning and end recorded | Monatliche Correspondenz 1804, März |
|  | 1804 II 11 | Halberstadt | Germany |  |  |  |
| 10 | 1804 II 11 | St.Petersburg | Russia | Wisniewski, Schubert | Not annular, max. 11d06’=0.925  Contacts and multiple phases recorded | Berliner Astronomisches Jahrbuch 1807, p.183 |
| 11 | 1804 II 11 | Polock | Russia | v.Thesleff | The beginning and end recorded | Berliner Astronomisches Jahrbuch 1807, p.184 Berliner Astronomisches Jahrbuch 1807, p.183 |
| 12 | 1804 II 11 | Jeglava | Latvia | Beitler | The end recorded | Berliner Astronomisches Jahrbuch 1807, p. 204 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1816 XI 16 | Holmestrand | Norway | Haansten | A sudden darkness under clouds | Claus Pavel's Dagbogs-Optegnelser, 1815-1816 |
| 2 | 1816 XI 16 | København | Denmark |  | Great darkness for some minutes | Berliner Astronomisches Jahrbuch 1820, p.190 |
| 3 | 1816 XI 16 | Stockholm | Sweden | Cronstrand, Kjellin, Hällström | The beginning and end recorded | Kongl. vetenskaps academiens handlingar, Tom 5, 1817 |
| 4 | 1816 XI 16 | Uppsala | Sweden | Svanberg, Bredman | The end recorded | Kongl. vetenskaps academiens handlingar, Tom 5, 1817 |
| 5 | 1816 XI 16 | Åbo/Turku | Finland | Hällström,  Ahlstedt,  Walbeck | The beginning and end as well as several phases recorded | Kongl. vetenskaps academiens handlingar, Tom 5, 1817 |
| 6 | 1816 XI 19 | London | England | Baily | Patrial through clouds | Memoirs of The Astronomical Society of London, 1822 |
| 7 | 1816 XI 19 | Blackheat | England | Groombridge | The beginning and end recorded | **Zeitschrift für Astronomie und verwandte Wissenschaften. Bd. V., 1818, p.49-50,**  The Philosophical Magazine and Journal, 48, 1816, p.371 |
| 8 | 1816 XI 19 | Holbeach | England | Walker | The end recorded | The Philosophical Magazine and Journal, 48, 1816, p.442 |
| 9 | 1816 XI 19 | Ipswich | England | Cappel-Lofft | The beginning and end recorded; a great partial eclipse seen | The monthly magazine, 42, 1816, 442 |
| 10 | 1816 XI 19 | Woolwich | England | Evans | The beginning and end recorded | The monthly magazine, 42, 1816, 441-442 |
| 11 | 1816 XI 16 | Stolpe/Słupsk | Prussia/Poland |  | Total eclipse for 2-3 minutes, stars seen, solar corona of 1-2 digits width observed | Berliner Astonomisches Jahrbuch 1820, p.190 |
| 12 | 1816 XI 16 | Bütow/Bytów | Prussia/Poland | Tönnies | Total through clouds, solar corona remarked | Berliner Astronomisches Jahrbuch 1820 |
| 13 | 1816 XI 19 | Stargard | Prussia/Poland | Nürnberger | Total eclipse | Joseph Emil Nürnberger: Populäres astronomisches Hand-Wörterbuch, Kempten 1846 |
| 14 | 1816 XI 16 | Thorn/Toruń | Prussia/Poland |  | Total, few clouds, great darkness | Berliner Astonomisches Jahrbuch 1820, p.190 |
| 15 | 1816 XI 16 | Culm/Chełmno | Prussia/Poland | Hagen | Total eclipse through clouds, solar corona seen | Zeitschr.f. Astronom., 1816,1817 |
| 16 | 1816 XI 16 | Warszawa | Poland | Armiński? | Almost total, solar crescent seen through clouds | Berliner Astronomisches Jahrbuch 1820, p.190 |
| 17 | 1816 XI 16 | Ołtarzew | Poland | Toczyski | Great darkness | Pamiętniki Michała Toczyskiego 1803-1867, ed. 1873. |
| 18 | 1816 XI 19 | Radymno | Poland | Lorenz | Total, movement of lunar shadow observed | Biblioteka Warszawska, 1844, III |
| 19 | 1816 XI 19 | Myślatycze | Poland | Smarzewski | Total eclipse, great darkness | Diary of Marcin Smarzewski |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 20 | 1816 XI 16 | Berlin | Germany | Bode,  Tralles | Big partial eclipse, max.phase 0.930, the sky darkened, stars not seen | Berliner Astonomisches Jahrbuch 1820, p.96  Zeitschr.f. Astronom., 1817 |
| 21 | 1816 XI 19 | Zetmin | Germany | Schmidt | A large partial eclipse, the sky darkened | Berliner Astronomisches Jahrbuch 1820, p.248 |
| 22 | 1816 XI 19 | Dresden | Germany | Eule | Partial phases observed, max phase about 11d, twilight effects | Berliner Astronomisches Jahrbuch 1820, P.246-7 |
| 23 | 1816 XI 19 | Tangermünde | Germany | Stöpel |  |  |
| 24 | 1816 XI 16 | Glatz/Kłodzko | Prussia/Poland | Von Lindener | Big partial eclipse, the day distinctly darkened | Berliner Astronomisches Jahrbuch 1820, p.205 |
| 25 | 1816 XI 16 | Breslau/Wrocław | Germany/Poland |  | Max.phase 11 13/15 digits  Twilight effects | Joseph Emil Nürnberger: Populäres astronomisches Hand-Wörterbuch, Kempten 1846 |
| 26 | 1816 XI 16 | Praha | Bohemia | David, Bittner, Hallaschka | Big partial eclipse, contacts recored | Berliner Astronomisches Jahrbuch 1820, p.171 |
| 27 | 1816 XI 16 | Praha | Bohemia | Kaunitz | The beginning and end recorded | Berliner Astronomisches Jahrbuch 1820, p.172 |
| 28 | 1816 XI 16 | Hradis/Olomouc | Bohemia | Beyer | The end of partial eclipse recorded | Berliner Astronomisches Jahrbuch 1820, P.246 |
| 29 | 1816 XI 16 | Wien | Austria | Triesnecker, Bürg | Contacts and several partial phases recorded | Berliner Astronomisches Jahrbuch 1820, p.152 |
| 30 | 1816 XI 16 | Budapest | Hungary | Littrow | The beginning and end recorded | **Zeitschrift für Astronomie und verwandte Wissenschaften. Bd. V., 1818, p.49-50.** |
| 31 | 1816 XI 16 | Marseille | France | Blanplain | The beginning and end recorded | **Zeitschrift für Astronomie und verwandte Wissenschaften. Bd. V., 1818, p.49-50.** |
| 32 | 1816 XI 16 | Viviers | France | Flaugergues | The beginning and end recorded,  max. phase 9d9’ | **Zeitschrift für Astronomie und verwandte Wissenschaften. Bd. V., 1818, p.49-50.,** Observations astronomiques et météorologiques du 15 septembre 1816 au 30 décembre 1828...  faites à Viviers |
| 33 | 1816 XI 16 | Toulouse | France | D‘Aubuisson | The beginning and end recorded | **Zeitschrift für Astronomie und verwandte Wissenschaften. Bd. V., 1818, p.49-50.** |
| 34 | 1816 XI 16 | Mirepoix | France | Vidal | The beginning and end recorded | **Zeitschrift für Astronomie und verwandte Wissenschaften. Bd. V., 1818, p.49-50.** |
| 35 | 1816 XI 16 | Milano | Italy | Carlini, Oriani | The beginning and end recorded | The letter of Oriani to Piazzi of March 4, 1817 |
| 36 | 1816 XI 16 | Roma | Italy | Conti | The beginning and end recorded  Max.phase 0.763 | Opuscoli astronomici… 1818 |
| 37 | 1816 XI 16 | Genova | Italy | von Zach | The beginning and end recorded | **Zeitschrift für Astronomie und verwandte Wissenschaften. Bd. V., 1818, p.49-50.** |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 38 | 1816 XI 16 | Madrid | Spain | Ortiz-Canelas | The beginning and end recorded | [Correspondance astronomique, géographique, hydrographique et statistique](https://reader.digitale-sammlungen.de/de/fs1/object/display/bsb10538626_00005.html?contextSort=score%2Cdescending&contextType=scan&contextRows=10&context=de+la+cuesta)de baron de Zach,1826 |
| 39 | 1816 XI 16 | San Fernando | Spain | de la Cuesta | Phases recorded | [Correspondance astronomique, géographique, hydrographique et statistique](https://reader.digitale-sammlungen.de/de/fs1/object/display/bsb10538626_00005.html?contextSort=score%2Cdescending&contextType=scan&contextRows=10&context=de+la+cuesta)de baron de Zach,1826 |
| 40 | 1816 XI 16 | Blaj? | Romania | anonymous | Great darkness | An anonymous note on a Bible |
| 41 | 1816 XI 16 | Neamt | Romania | anonymous | Great darkness | An anonymous note on a psalter |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1820 IX 7 | Bremen | Germany | Olbers, Gildemeister | Annular eclipse for 5m17s | Phil.Trans. 11,2, 1821,  Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 2 | 1820 IX 7 | Göttingen | Germany | Gauss et al. | Annular eclipse for 5m07s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 3 | 1820 IX 7 | Speyer | Germany | Schwerd | Annular eclipse for 4m48s | Phil.Trans. 11,2, 1821,  Philosophical Magazine, Tom 60, 1822, p.25 et fol., Memoirs of the Royal Astronomical Society, 1822 |
| 4 | 1820 IX 7 | Cuxhaven | Germany | Tralles | Annular eclipse for 5m03s | Phil.Trans. 11,2, 1821 |
| 5 | 1820 IX 7 | Mannheim | Germany | Nicolai | Annular eclipse for 4m56s; Baily’s beads observed | Phil.Trans. 11,2, 1821,  Philosophical Magazine, Tom 60, 1822, p.25 et fol., Memoirs of the Royal Astronomical Society, 1822 |
| 6 | 1820 IX 7 | Frankfurt a.M. | Germany | Albert | Annular eclipse for 5m35s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820, Memoirs of the Royal Astronomical Society, 1822 |
| 7 | 1820 IX 7 | Hamburg | Germany | Rümker, Repsold | The end recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 8 | 1820 IX 7 | Hannover | Germany | Luthmer, Wildt | Annular eclipse | Der Mond nach seinen komischen und individuellen Verhaltnissen oder allgemeine vergleichende Selenographie, 1837. |
| 9 | 1820 IX 7 | München | Germany | Heinrich | Annular eclipse | Phil.Trans. 11,2, 1821,  Philosophical Magazine, Tom 60, 1822, p.25 et fol. |
| 10 | 1820 IX 7 | Augsburg | Germany | Starck | Annular eclipse for 5m48s | Phil.Trans. 11,2, 1821,  Philosophical Magazine, Tom 60, 1822, p.25 et fol., Memoirs of the Royal Astronomical Society, 1822 |
| 11 | 1820 IX 7 | Stuttgart | Germany |  | The beginning and end of partial eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 12 | 1820 IX 7 | Apenrade | Germany | Duke of Schlezwig | Annular eclipse for 2m00s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 13 | 1820 IX 7 | Kuschwarta | Germany | Gruithuisen | Baily’s beads observed | Bedeutungsvolle und neue Erscheinungen bei der Sonnenfinsternis vom 8. juli 1842 |
| 14 | 1820 IX 7 | Bogenhausen/  München | Germany | Soldner | The beginning of the annular eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 15 | 1820 IX 7 | Coburg | Germany | Opitz, Göbel | The beginning of the annular eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 16 | 1820 IX 7 | Rosenau | Germany | Arzberger | The end of the annular eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 17 | 1820 IX 7 | Plön | Germany | Duke of Holstein | Annular eclipse for 0m55s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 18 | 1820 IX 7 | Marburg | Germany | Gerling | The end of partial eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 19 | 1820 IX 7 | Oderbach | Germany | Meiller | Annular eclipse for 4m15s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 20 | 1820 IX 7 | Dresden | Germany |  | The beginning and end of partial eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 21 | 1820 IX 7 | Berlin | Germany | Bode | The end of partial eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 22 | 1820 IX 7 | Tangermünde | Germany |  | The end of partial eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 23 | 1820 IX 7 | København | Denmark | Ursin | The beginning and end of partial eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 24 | 1820 IX 7 | Moskva | Russia |  | The beginning of partial eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 25 | 1820 IX 7 | Milano | Italy | Oriani, de Cesaris | The beginning and end of partial eclipse recorded | Pubblicazioni del Reale osservatorio di Brera in Milano, 1875;Bibliotheque universelle des sciences, 1820 |
| 26 | 1820 IX 7 | Bologna | Italy | von Zach | Annular eclipse | Phil.Trans. 11,2, 1821 |
| 27 | 1820 IX 7 | Capodimonte | Italy | Brioschi | Annular eclipse for 3m44s | Phil.Trans. 11,2, 1821 |
| 28 | 1820 IX 7 | Modena | Italy | Bianchi, Amici | Annular eclipse | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 29 | 1820 IX 7 | Firenze | Italy | Inghirami | Annular eclipse for 1m43s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 30 | 1820 IX 7 | Empoli | Italy | Figlinesi | Annular eclipse | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 31 | 1820 IX 7 | Padova | Italy | Santini | Annular eclipse | Memorie di matematica e di fisica…Soc.Ital. res. in Modena, tomo XIX, 1821.; Bibliotheque universelle des sciences, 1820 |
| 32 | 1820 IX 7 | Fiume | Italy | Bouvard, Havliczek | Annular eclipse for 5m14s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 ; Bibliotheque universelle des sciences, 1820 |
| 33 | 1820 IX 7 | Roma | Italy | Calandrelli et al. | The beginning and end as well as several phases recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 34 | 1820 IX 7 | Budapest | Hungary |  | The beginning and end recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 35 | 1820 IX 7 | Plzeň | Bohemia |  | The end of annular eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 36 | 1820 IX 7 | Český Krumlov | Bohemia |  | The end of annular eclipse recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 37 | 1820 IX 7 | Zürich | Switzerland | Feer | Annular eclipse for 1m35s | Phil.Trans. 11,2, 1821; Bibliotheque universelle des sciences, 1820 |
| 38 | 1820 IX 7 | Zürich | Switzerland | Horner | Annular eclipse for 1m38s | Phil.Trans. 11,2, 1821; Bibliotheque universelle des sciences, 1820 |
|  | 1820 IX 7 | Zürich | Switzerland | Vogel | Annular eclipse for 1m38s | Memorabilia tigurina, 1841 |
| 39 | 1820 IX 7 | St. Gallen | Switzerland | de Scherer | Annular eclipse for 4m25s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 ; Bibliotheque universelle des sciences, 1820 |
| 40 | 1820 IX 7 | Weiningen | Switzerland | Hirzel | Annular eclipse for 0m49s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 41 | 1820 IX 7 | Genève | Switzerland | Gautier, Pictet | Not annular; the beginning and end of partial eclipse recorded; Venus noticed | Bibliothèque Universelle des Sciences, Belles-Lettres et Arts, 15, p.12, 1820 |
| 42 | 1820 IX 7 | Beaulieu/Rolle | Switzerland | Eynard | Not annular; the beginning and end of partial eclipse as well as several phases recorded; Venus noticed | Bibliothèque Universelle des Sciences, Belles-Lettres et Arts, 15, p.12, 1820 |
| 43 | 1820 IX 7 | Paris | France |  | The beginning and end recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 44 | 1820 IX 7 | Strasbourg | France | Herrenscheider, Schmidt | Annular eclipse for 2m04s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 45 | 1820 IX 7 | Viviers | France | Flaugergues | The beginning and end recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 46 | 1820 IX 7 | Nismes | France | Valtz | The beginning and end recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 47 | 1820 IX 7 | S.Gall | France | Valtz | The beginning and end recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 48 | 1820 IX 7 | La Chapelle-Dieppe | France | Breauté | The beginning and end recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 49 | 1820 IX 7 | Aix-la-Chapelle | France |  | Annular eclipse for 1m25s | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 50 | 1820 IX 7 | Amsterdam | The Netherlands | Greve | Annular eclipse for 0m44s | Phil.Trans. 11,2, 1821, Memoirs of the Royal Astronomical Society, 1822 |
| 51 | 1820 IX 7 | Amsterdam | The Netherlands | van Swinden | The run of annular eclipse watched | Memoirs of the Royal Astronomical Society, 1822 |
| 52 | 1820 IX 7 | Amsterdam | The Netherlands | Keyser, Buis | Annular eclipse for about 1 minute | Memoirs of the Royal Astronomical Society, 1822 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 53 | 1820 IX 7 | Leyden | The Netherlands | Ekama | Almost grazing annular, the beginning and end recorded, Venus noticed | Memoirs of the Royal Astronomical Society, 1822 |
| 54 | 1820 IX 7 | Utrecht | The Netherlands | Schröder,  van Rees | The beginning and end of partial eclipse as well as beginning of annular eclipse recorded | Memoirs of the Royal Astronomical Society, 1822 |
| 55 | 1820 IX 7 | Groningen | The Netherlands | Uilkens, Beertaa | The beginning and end of partial eclipse recorded | Memoirs of the Royal Astronomical Society, 1822 |
| 56 | 1820 IX 7 | Burgst | The Netherlands | Nahuys | The beginning and end of partial eclipse recorded; max. phase 11 1/16d;  57  Venus noticed | Memoirs of the Royal Astronomical Society, 1822 |
| 57 | 1820 IX 7 | Middelburg | The Netherlands | Bourjé,  de Kanter | Not annular; the beginning and end of partial eclipse recorded; Venus noticed | Memoirs of the Royal Astronomical Society, 1822 |
| 58 | 1820 IX 7 | Bergen | Norway | Bohr | Annular eclipse for 4m01s | Phil.Trans. 11,2, 1821, Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 59 | 1820 IX 7 | Kentish Town | England | Baily | The beginning and end as well as some phases recorded; Venus noticed | Philosophical Magazine, Tom 60, 1822, p.25 et fol., Memoirs of the Royal Astronomical Society, 1822 |
| 60 | 1820 IX 7 | Greenwich | England | Dollond, Taylor | The beginning and end of the partial eclipse recorded | Philosophical Magazine, Tom 60, 1822, p.25 et fol. |
| 61 | 1820 IX 7 | East Sheen | England | Pearson | The end and some phases recorded | Memoirs of the Royal Astronomical Society, 1822 |
| 62 | 1820 IX 7 | Bushey Heath | England | Beaufoy | The beginning and end recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 63 | 1820 IX 7 | Blackheat | England | Groombridge | The end and some phases recorded | Philosophical Magazine, Tom 60, 1822, p.25 et fol., Memoirs of the Royal Astronomical Society, 1822 |
| 64 | 1820 IX 7 | Stoke Newington | England | Allen | The beginning and end of partial eclipse recorded | Philosophical Magazine, Tom 60, 1822, p.25 et fol., Memoirs of the Royal Astronomical Society, 1822 |
| 65 | 1820 IX 7 | Norwich | England | Wiseman | The beginning and end of partial eclipse | Philosophical Magazine, Tom 60, 1822, p.25 et fol., Memoirs of the Royal Astronomical Society, 1822 |
| 66 | 1820 IX 7 | Bury | England |  | The beginning recorded | Philosophical Magazine, Tom 60, 1822, p.25 et fol., Memoirs of the Royal Astronomical Society, 1822 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 67 | 1820 IX 7 | Belfast | Ireland | Sloane | The beginning recorded | Philosophical Magazine, Tom 60, 1822, p.25 et fol., Memoirs of the Royal Astronomical Society, 1822 |
| 68 | 1820 IX 7 | Cork | Ireland | Brisbane | The beginning and end recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 69 | 1820 IX 7 | Madrid | Spain | Bauzà | The beginning and end as well as several phases recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 70 | 1820 IX 7 | S.Fernando | Spain | Ortiz-Canelas, Sanchez-Cerquero | The end and several phases recorded | Correspondance astronomique, géographique, hydrographiqueet statistique, v.Zach, 1820 |
| 71 | 1820 IX 7 | Milos | Greece | Gaultier et al. | Annular eclipse for 3m41s | Connaissance des temps, 1828, 1831, p.92 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1836 V 15 | Makerstown | Scotland | MacDougall Brisbane | Annular eclipse for 4m07s | Astr. Nachr. 14,1837 |
| 2 | 1836 V 15 | Edinburgh | Scotland | Henderson | Annular eclipse for 3m43s seen, Baily’s beads and a part of chromosphere observed, twilight effect noted, Venus and Jupiter remarked | Mem. of RAS, **X**, 1838,p.1-351. |
| 3 | 1836 V 15 | Edinburgh | Scotland | Traill | Photometric measurements | Comptes rendus hebdomadaires des seances..., 1836, p.574 |
| 4 | 1836 V 15 | Inch Bonney near Jedburgh | England | Baily | Annular eclipse, Baily’s beads remarked, Venus seen | Mem. of RAS, **X**, 1838,p.1-351. |
| 5 | 1836 V 15 | Halifax | England | Waterhouse | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 6 | 1836 V 15 | Ormskirk | England | Dawes | Partial eclipse observed | Astr. Nachr. 14,1837 |
| 7 | 1836 V 15 | Shooter’s Hill | England | Simms, Gilby | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 8 | 1836 V 15 | Tranby | England | Cooper | The beginning and end recorded, max. phase 0.931 | Astr. Nachr. 14,1837 |
| 9 | 1836 V 15 | London | England | Simms | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 10 | 1836 V 15 | London | England | Shreaman | The beginning and end recorded | Trans. of the Amer. Phil. Soc., 1839 |
| 11 | 1836 V 15 | North Shields | England | Hopkins | The beginning and end recorded | Trans. of the Amer. Phil. Soc., 1839 |
| 12 | 1836 V 15 | Greenwich | England | Airy | The end recorded | Astr. Nachr. 14,1837 |
|  |  | Bedford | England | Smyth | The beginning and end recorded;  solar crescent observed, Venus noticed | Cycle of celestial Objects, vol. I, 1844, p.140-143 |
| 13 | 1836 V 15 | Armagh | Ireland | Robinson | Annular eclipse for 22 seconds observed, Baily’s beads noticed | Astr. Nachr. 14,1837 |
| 14 | 1836 V 15 | Bremerhaven | Germany | Thulesius | Not annular, the beginning and end recorded | Astr. Nachr. 14,1837 |
| 15 | 1836 V 15 | Bremen | Germany | Clüver | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 16 | 1836 V 15 | Rostock | Germany | Karsten | Annular eclipse for 3m39s | Astr. Nachr. 14,1837 |
| 17 | 1836 V 15 | Stralsund | Germany | Steinort | Annular eclipse for 4m20s | Astr. Nachr. 14,1837 |
| 18 | 1836 V 15 | Hamburg | Germany | Peters, Rümker | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 19 | 1836 V 15 | Berlin | Germany | Encke | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 20 | 1836 V 15 | Stettin | Germany | Dancke | The beginning and end recorded; annular eclipse for about 2m | Astr. Nachr. 14,1837 |
|  | 1836 V 15 | Danzig | Germany |  | Annular eclipse seen | Populäre Vorträge über Astronomie, 1862 |
| 21 | 1836 V 15 | Gera | Germany | Engelhardt, Metz | The end recorded | Astr. Nachr. 14,1837 |
| 22 | 1836 V 15 | Hannover | Germany | Lahmeyer | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 23 | 1836 V 15 | Jena | Germany | Schroen | The end recorded | Astr. Nachr. 14,1837 |
| 24 | 1836 V 15 | Würzburg | Germany | Schoen | The beginning recorded | Astr. Nachr. 14,1837 |
| 25 | 1836 V 15 | Zeitz | Germany |  | The end recorded | Astr. Nachr. 14,1837 |
| 26 | 1836 V 15 | Altona | Germany | Schumacher | The beginning and end recorded | Astr. Nachr. 14,1837 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 27 | 1836 V 15 | Neumühlen | Germany | Zahrtmann | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 28 | 1836 V 15 | Neustrelitz | Germany | Lorenz, Becker | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 29 | 1836 V 15 | København | Denmark | Pedersen | The beginning and end of the partial eclipse as well as the beginning of the annular eclipse recorded | Astr. Nachr. 14,1837 |
| 30 | 1836 V 15 | Tondern | Denmark | Petersen | Annular eclipse for 4m21s | Astr. Nachr. 14,1837 |
| 31 | 1836 V 15 | Apenrade | Denmark | Hanssen | Annular eclipse for 4m19s | Astr. Nachr. 14,1837 |
|  | 1836 V 15 | Rowe/Rowy | Prussia/Poland | Anonymous | Annular eclipse | Chronik der Parochie Rowe im Stolper Kreise, 1832-1940 |
| 32 | 1836 V 15 | Warszawa | Poland | Baranowski | Partial eclipse, contacts recorded | Biblioteka Warszawska, 1844, III |
|  | 1836 V 15 | Vilnius | Lithuania | Sławiński | The end recorded | Astronomische Nachrichten, 20, 1842, 446 |
| 33 | 1836 V 15 | Königsberg | Prussia | Bessel, Busch | Almost annular eclipse seen, Baily’s beads remarked | Astr. Nachr. 14,1837 |
| 34 | 1836 V 15 | Barunsberg | Prussia | Feldt, Becker | Annular eclipse for 3m10s or 3m54s | Astr. Nachr. 14,1837 |
| 35 | 1836 V 15 | Pillau | Prussia | Schwink | Annular eclipse for 2m01s | Astr. Nachr. 14,1837 |
| 36 | 1836 V 15 | Bruxelles | Belgium | Quetelet | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 37 | 1836 V 15 | Leuwen | Belgium | Crahay | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 38 | 1836 V 15 | Bern | Switzerland | Trechsel | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 39 | 1836 V 15 | Genève | Switzerland | Gautier | The beginning and end recorded | Comptes rendus hebdomadaires des seances..., 1836, p.575 |
| 40 | 1836 V 15 | Strassbourg | France | Herrenscheider | The beginning and end recorded | Astr. Nachr. 14,1837 |
| 41 | 1836 V 15 | Paris | France | Arago et al. | The beginning and end recorded | Comptes rendus hebdomadaires des seances..., 1836, p.503 |
| 42 | 1836 V 15 | Wien | Austria | Littrow, Hallaschka | The end recorded | Astr. Nachr. 14,1837 |
| 43 | 1836 V 15 | S.Fernando/Cadiz | Spain | Cerquero et al. | The beginning and end recorded | Monthly Notices of RAS, 1837; Trans. of the Amer. Phil. Soc., 1839 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1842 VII 8 | Torreblanca | Spain | Donati, Bonet, Carlini | Prominences observed | Memorie astronomiche del prof. Giovanni Battista Donati estratte dagli Annali del R. Museo fiorentino (v. 1, serie seconda) |
| 2 | 1842 VII 8 | Madrid | Spain | del Campo | Structure of solar corona observed, some prominences noticed, Capella and Albebaran seen | Observatorio meteorológico de Madrid: Relacion... durante el eclipse total de sol acaecido el dia 8 Julio de 1842  Gaceta de Madrid, 13.07.1842 |
| 3 | 1842 VII 8 | Barcelona | Spain | Vieta | Almost total eclipse. Inequalities of the lunar limb noticed | Arago F : Sur l’éclipse... |
| 4 | 1842 VII 8 | West Derby/Liverpool | England | Lassel | The beginning and end recorded | Monthly Notices of RAS, 5, 31, 1843, p.286. |
| 5 | 1842 VII 8 | Perpignan | France | Arago, Laugier, Mauvais | Width of the solar corona estimated for 33’;  polarization of the corona measured | Arago F: Sur l’éclipse totale de Soleil du 8 julliet 1842.  Bureau des longitudes. Annuaire pour l'an 1846. |
| 6 | 1842 VII 8 | Estagel | France | Gonsalvo | Two meteors seen during the total eclipse | Arago F : Sur l’éclipse... |
| 7 | 1842 VII 8 | Narbonne | France | Boisgiraud  Pinaud | Solar corona with its structural inequalities observed; polarization of the corona measured | Memoires,Note sur l’eclipse totale du soleil du 8 juillet 1842 - p. 1;  Bulltetin de la Soc. Des Sci., Let. et Arts de Pau, année 1842, pp.257-270. ; Arago F : Sur l’éclipse... |
| 8 | 1842 VII 8 | Digne | France | Bouvard et al. | Polarization of the solar corona  detected; prominences observed, stars noticed | Note sur les phénomènes de coloration observés à Digne pendant l'éclipse totale du 8 juillet 1842 ; Digne, 10 juillet 1842 ; Arago F : Sur l’éclipse... |
| 9 | 1842 VII 8 | Montpellier | France | Peytal, Petit | Width of the solar corona estimated for 8’45”; structure of the corona studied;  Baily’s beads and stars noticed | Arago F : Sur l’éclipse... |
| 10 | 1842 VII 8 | Marseille | France | Valz | Total eclipse for 1m59s  Solar corona described; Baily’s beads seen | Observation de l’èclipse totale…, 1846. Arago F : Sur l’éclipse...  Astronomische Nachrichten, 20, 1842, 357. |
| 11 | 1842 VII 8 | Prades | France | Parés | The structure of solar corona described,  prominences noticed | L'institut. Section 1: Sciences mathématiques, physiques et naturelles, Tom 19, 1851, p.195 |
| 12 | 1842 VII 8 | Alais | France | L’Hombres- Firmas | Almost total eclipse; a trace of the corona noticed | Arago F : Sur l’éclipse... |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 13 | 1842 VII 8 | Toulon | France | Flaugergues, Bérard et al. | The beginning and end recorded  Total eclipse, the structure of solar corona studied; the width of internal corona of 2’ | A letter to Arago, 14 Sept. 1842;  Arago F : Sur l’éclipse... |
| 14 | 1842 VII 8 | Lyon | France | Bravais | The beginning and end recorded | De l'astronomie dans l'Académie Royale de Belgique: rapport séculaire (1772-1872), 1872, p.93. |
| 15 | 1842 VII 8 | Visan | France | Guérin | Baily’s beads observed | Arago F : Sur l’éclipse... |
| 16 | 1842 VII 8 | Near Sidelhorn | Switzerland | Agassiz, Dezor | Deep partial eclipse in the mountains observed | De l'astronomie dans l'Académie Royale de Belgique: rapport séculaire (1772-1872), 1872, p.93-94. |
| 17 | 1842 VII 8 | Lausanne | Switzerland | Wartmann | Meteorological observations | Observations à Lausanne et à Charpigny pendant l'éclipse de soleil , le 8 juillet 1842 |
| 18 | 1842 VII 8 | Genève | Switzerland | Plantamour et al. | The beginning and end recorded | Astronomische Nachrichten, 20, 1842, 357. |
| 19 | 1842 VII 8 | Charpigny | Switzerland | Taylor | Meteorological observations | Observations à Lausanne et à Charpigny pendant l'éclipse de soleil , le 8 juillet 1842 |
| 20 | 1842 VII 8 | Monte Emilius | Italy | Carrel | Almost total eclipse; meteorological observations | Bibliothèque universelle de Genève, t. 49-50, p.343-344 |
| 21 | 1842 VII 8 | Treviso | Italy | Semenzi | Total eclipse for 1m30s | Annalen der K.K. Sternwarte in Wien, 1843 |
| 22 | 1842 VII 8 | Fiume | Italy | Mikocz | The beginning and end recorded | Annalen der K.K. Sternwarte in Wien, 1843 |
| 23 | 1842 VII 8 | Trieste | Italy | Gallo | The beginning and end recorded | Annalen der K.K. Sternwarte in Wien, 1843 |
| 24 | 1842 VII 8 | Superga/Torino | Italy | Airy | Solar corona with its structural inequalities observed; the internal corona width of 4’;  Baily’s beads seen | Memoirs of the RAS, XV, 1842;  Annalen der K.K. Sternwarte in Wien, 1843;  Arago F : Sur l’éclipse... |
| 25 | 1842 VII 8 | Venezia | Italy | Wüllerstorf, Wissiak | Total eclipse for 44s | Annalen der K.K. Sternwarte in Wien, tom 2,  1843; Arago F : Sur l’éclipse... |
| 26 | 1842 VII 8 | Venezia | Italy | Zantedeschi | Strucure of the solar corona studied, stars and Baily’s beads seen | Annalen der K.K. Sternwarte in Wien, tom 2,  1843, p.40.; Arago F : Sur l’éclipse... |
| 27 | 1842 VII 8 | Torino | Italy | Plana,  Forbes | Clouds made the observation of totality impossible | Memoirs of the RAS, XV, 1842 |
| 28 | 1842 VII 8 | Pavia | Italy | Baily | Solar corona and Baily’s beads observed;  the corona width of 16’ | Memoirs of the RAS, XV, 1842;  Annalen der K.K. Sternwarte in Wien, 1843;  Arago F : Sur l’éclipse... |
| 29 | 1842 VII 8 | Milano | Italy | Majocchi | Solar corona with its structural inequalities observed  First photographs of partial phases of a solar eclipse obtained | Annalen der K.K. Sternwarte in Wien, tom 2,  1843, p.38.; |
| 30 | 1842 VII 8 | Milano | Italy | Magrini | Light intensity and spectrum of the corona studied | Annalen der K.K. Sternwarte in Wien, tom 2,  1843, p.38. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 31 | 1842 VII 8 | Milano | Italy | Carlini | Total eclipse for 2m14s | Sopra l' ecclisse solare del giorno 8 luglio 1842... con una nota di Giuseppe Belli..., 1842; Annalen der K.K. Sternwarte in Wien, tom 2,  1843 |
| 32 | 1842 VII 8 | Novara | Italy | Bayma | Total eclipse, stars seen. | Arago F : Sur l’éclipse... |
| 33 | 1842 VII 8 | Vicenza | Italy | Fusinieri | Polarization of the solar corona  detected | Arago F : Sur l’éclipse... |
| 34 | 1842 VII 8 | Vicenza | Italy | Casari, Dunkin | Strucure of the solar corona studied, prominences noticed | Annalen der K.K. Sternwarte in Wien, tom 2,  1843, p.39. |
| 35 | 1842 VII 8 | ? | Italy | A.Secchi | Protuberances observed |  |
| 36 | 1842 VII 8 | Lodi | Italy | Piola | Total eclipse; stars of 1 mag. Noticed;  A bolid noticed | Giorn. dell’ Ist. Lomb., t.IV;  Arago F : Sur l’éclipse... |
| 37 | 1842 VII 8 | Padova | Italy | Belli | Total eclipse, solar corona studied | Sopra l' ecclisse solare del giorno 8 luglio 1842... con una nota di Giuseppe Belli..., 1842; Arago F : Sur l’éclipse... |
| 38 | 1842 VII 8 | Padova | Italy | Santini et al. | Total eclipse for 1.5m  Detailed observations of solar corona;  Baily’s beads seen | Astronomische Nachrichten, 487, 1843.  Annalen der K.K. Sternwarte in Wien, tom 2,  1843 |
| 39 | 1842 VII 8 | Monte Baldo | Italy | Böhm | Total eclipse for 2m20s | Annalen der K.K. Sternwarte in Wien, tom 2,  1843, p.32 |
| 40 | 1842 VII 8 | Napoli | Italy | Nobile | Large eclipse observed | Arago F : Sur l’éclipse... |
| 41 | 1842 VII 8 | Wien | Austria | Schumacher, Littrow et al,  A.Stifter | Total eclipse for 2.1m  Great darkness, solar corona seen | R. Kippenhahn, W. Knapp, Schwarze Sonne, roter Mond, DVA, Stuttgart, 1998; Jahrbuch für 1843 von H.C. Schumacher, Stuttgart und Tübingen, 1843., Annalen der K.K. Sternwarte in Wien, 1843; Astronomische Nachrichten, 20, 1842, 357. |
| 42 | 1842 VII 8 | Pitten/W.Neustadt | Austria | Werdmüller v.Eigg | Total eclipse for 2m36s | Annalen der K.K. Sternwarte in Wien, 1843 |
| 43 | 1842 VII 8 | Halbturn | Austria | Knödl | Almost total elipse, great darkness | Archiv Herbert Brettl |
| 44 | 1842 VII 8 | Mödling | Austria | Pittel | Total eclipse for 1m57s | Annalen der K.K. Sternwarte in Wien, 1843, p.32 |
| 45 | 1842 VII 8 | Schneeberg | Austria | Reisinger, Brestel | Total eclipse for 2m27s | Annalen der K.K. Sternwarte in Wien, 1843, p.32 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 46 | 1842 VII 8 | Kremsmünster | Austria | Koller | The end recorded | Astronomische Nachrichten, 20, 1842, 357. |
| 47 | 1842 VII 8 | Ďumbier summit | Austria-Hungary/  Slovakia | Zipser, v.Kubinyi et al. | Total eclipse for 2m40s, great darkness, stars clearly seen, a large temperature drop | A report by F.v.Kubinyi |
| 48 | 1842 VII 8 | Sopron | Hungary | Bremiker | Total eclipse for 2m42s, Baily’s beads noticed,  solar corona of 10’ width observed | Annalen der K.K. Sternwarte in Wien, 3-4, 1844, p.1 |
| 49 | 1842 VII 8 | Altona | Germany | Petersen | The end recorded | Astronomische Nachrichten, 20, 1842, 357. |
| 50 | 1842 VII 8 | Hamburg | Germany | Rümker | The end recorded | Astronomische Nachrichten, 20, 1842, 357. |
| 51 | 1842 VII 8 | Lübeck | Germany | Franck | The beginning and end recorded | Astronomische Nachrichten, 20, 1842, 357. |
| 52 | 1842 VII 8 | Rostock | Germany | Karsten | The beginning and end recorded | Astronomische Nachrichten, 20, 1842, 357. |
| 53 | 1842 VII 8 | Breslau | Germany | v .Boguslawski | The beginning and end recorded | Astronomische Nachrichten, 21, 1844, 174. |
| 54 | 1842 VII 8 | Mannheim | Germany | Nicolai | The beginning and end recorded | Astronomische Nachrichten, 20, 1842, 357. |
| 55 | 1842 VII 8 | Warszawa | Poland | Baranowski | The beginning and end recorded | Biblioteka Warszawska, 1844, III |
| 56 | 1842 VII 8 | Kraków | Poland | Weisse | The beginning and end recorded; solar crescent studied, a distinct darkening of the sky | Relatio de eclipsi solis 7 Julii 1842 exposita. Rocznik Towarzystwa Naukowego Krakowskiego, 1847 |
| 57 | 1842 VII 8 | Lvov | Ukraine | Kunzek | Total eclipse in the overcast sky | Gazeta Lwowska, 1842 July 9 |
| 58 | 1842 VII 8 | Dubno | Ukraine | Sławiński | Total eclipse in the overcast sky | Astronomische Nachrichten, 20, 1843, 461, p.74 |
| 59 | 1842 VII 8 | Chernigov | Ukraine | Fedorov | Total eclipse for 3m03s  Width of the solar corona estimated for 5’ | Astronomische Nachrichten, 20, 1842, 470 |
| 60 | 1842 VII 8 | Lipetsk | Russia | O. v.Struve, Shidlovskiy | Total eclipse for 2m55s  Solar corona with its structural inequalities and prominences observed; the total corona width 25’ | Arago F : Sur l’éclipse... ;  Astronomische Nachrichten, 20, 1842, 470  Shidlovskiy A.P.: Nabludenya slonechnogo zatmenia v 1842 g. v Lipetske, 1842. |
| 61 | 1842 VII 8 | Penza | Russia | Lobachevski, Lapunov, Knorr | Total eclipse with the solar corona seen,  a great darkness | Polnoe zatmenie solntsa, Kazan, 1842. A report by N.I. Lobachevski |
| 62 | 1842 VII 8 | Kursk | Russia | Semenov, Perevoshchikov | Total eclipse, great darkness | Autobiography by F.A. Semenov, 1920. |
| 63 | 1842 VII 8 | Simbirsk | Russia |  | Total eclipse, great darkness, stars seen | Local preserved historical notes |
| 64 | 1842 VII 8 | Woronezh | Russia |  | Almost total eclipse, corona noticed |  |
| 65 | 1842 VII 8 | Orel | Russia |  | Total eclipse behind clouds; a great darkness for 2-3 minutes | Otechestvennye Zapiski, 1842 |
| 66 | 1842 VII 8 | Pulkovo | Russia | W. v.Struve | The beginning and end recorded | Astronomische Nachrichten, 20, 1842, 470 |
| 67 | 1842 VII 8 | Pulkovo | Russia | v. Wisniewsky  et al. | The beginning and end recorded | Astronomische Nachrichten, 20, 1842, 470 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 68 | 1842 VII 8 | Semipalatynsk | Kazakhstan | Kurovitski | Total eclipse for 3m45s,  Width of the solar corona estimated for 5’,  stars noticed | Astronomische Nachrichten, 20, 1842, 478 |
| 69 | 1842 VII 8 | Bayan Aul | Kazakhstan | Shtopov | Almost total, width of the solar corona estimated for 16’, three stars seen | Astronomische Nachrichten, 20, 1842, 478 |
| 70 | 1842 VII 8 | Korekov | Russia | Stubendorff | Total eclipse for 3m20s  Width of the solar corona estimated through thin clouds for 10’. Three stars noticed | Astronomische Nachrichten, 20, 1842, 467 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1847 X 9 | Brugges | Belgium | Forster | Annular eclipse and a trace of chromosphere observed | Grant R.: History of Physical Astronomy from the Earliest Ages to the Middle of theNineteenth Century, 1852, p.398. |
| 2 | 1847 X 9 | Orléans | France | Mauvais | Annular eclipse for 3m17s,  Baily’s beads observed | Comptes rendus hebdomadaires des séances, 1847, p.492 |
| 3 | 1847 X 9 | Orléans | France | Gujon | Annular eclipse for 3m23s,  Baily’s beads observed | Comptes rendus hebdomadaires des séances, 1847, p.507 |
| 4 | 1847 X 9 | Strasbourg | France | Laquiante, Aoust | Annular eclipse for 6m15s,  Baily’s beads observed | Comptes rendus hebdomadaires des séances, 1847, p.552 |
| 5 | 1847 X 9 | Colmar | France | Parès | Annular eclipse. The lunar limb noticed outside the solar limb | Annuaire de la Société météorologique de France, tom 14, p.161 |
| 6 | 1847 X 9 | Montpellier | France | Peytal | Partial eclipse, the beginning and end recorded, max.phase 0.821. | Recherches sur les offuscations du soleil..., 1868-78, p.4 |
| 7 | 1847 X 9 | Cilly | Austria | Schaub | Annular eclipse for 7m00s,  Baily’s beads observed | Comptes rendus hebdomadaires des séances, 1847, p.631 |
| 8 | 1847 X 9 | Trieste | Italy | Gallo | Annular eclipse for 5m50s,  Baily’s beads observed | Rendiconto delle adunanze e de' lavori dell' Accademia delle Scienze, 6,1847, p.437 |
| 9 | 1847 X 9 | Milano | Italy | Frisiani, Stambucci et al. | The beginning and end recorded, twilight effects | Effemeridi astronomiche di Milano per l'anno 1850, 1849. Appendice, p.104. |
| 10 | 1847 X 9 | Venezia | Italy | Carlini | The beginning recorded, a dense fog | Effemeridi astronomiche di Milano per l'anno 1850, 1849. Appendice, p.104. |
| 11 | 1847 X 9 | Modena | Italy | Bianchi | The beginning and end recorded, contacts with sunspots recorded | Raccolta di lettere ed altri scritti intorno alla fisica..., 3, 1847, p.337. |
| 12 | 1847 X 9 | Oslo | Norway | Hansteen | The beginning and end recorded | Astronomische Nachrichten, 27, 1848, p.176 |
| 13 | 1847 X 9 | Warszawa | Poland | Baranowski | The beginning recorded | Biblioteka Warszawska, 1848, p.658 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1851 VII 28 | Christiania/  Oslo | Norway | Dunkin, Snow et al. | Total eclipse for 2m35s, Baily’s beads noticed, Solar corona and prominences seen through thin clouds | Lardner D.: Handbook of Astrononomy, 299;  Mem. Roy. Astron. Soc., 1852, p.9,32. |
|  | 1851 VII 28 | Christiania/  Oslo | Norway | Young | A rose-coloured, dull solar corona seen through thin clouds | Mem. Roy. Astron. Soc., 1852, p.35. |
| 3 | 1851 VII 28 | Dröbak | Norway | Biddulph | Solar corona seen through some cirro-stratus clouds | Mem. Roy. Astron. Soc., 1852, p.35. |
| 4 | 1851 VII 28 | Fyldpaa | Norway | Jackson,  King | Ring with diamond phenomenon and some prominences noticed though clouds, | Mem. Roy. Astron. Soc., 1852, p.38. |
| 5 | 1851 VII 28 | Ringeriget | Norway | Krag | Coloured violet ring around corona, prominences noticed | Mem. Roy. Astron. Soc., 1852, p30. |
|  | 1851 VII 28 | Tune/Sarpsborg | Norway | Gray | Baily’s beads and prominences observed | Lardner D.: Handbook of Astrononomy, 302 |
| 7 | 1851 VII 28 | Island of Bue | Norway | Robertdon, Robinson  Piazzi Smyth | A graet darknees, clouded out | Lardner D.: Handbook of Astrononomy, 306 |
| 8 | 1851 VII 28 | Frederiksvärn | Norway | A.d’Abbadie | Solar corona with its structural inequalities, Baly’s beads and prominences observed | Lardner D.: Handbook of Astrononomy, 303 |
| 9 | 1851 VII 28 | Frederiksvärn | Norway | Stephenson, Andrews | Totality for 3m 30s. Irregular solar corona,  Baily’s beads and prominences observed,  Corona polarised and wide for 1.25’ in its most bright part | Lardner D.: Handbook of Astrononomy, 303;  Mem. Roy. Astron. Soc., 1852, p.42. |
| 10 | 1851 VII 28 | Frederiksvärn | Norway | Adams, Lieving,  Hjorth | Total eclipse for 3m36s, Baily’s beads and prominences observed, solar corona width of about 10’ through clouds, | Mem. Roy. Astron. Soc., 1852, p.101. |
| 11 | 1851 VII 28 | Nevlunghavn | Norway | Geelmuyden | Total eclipse for 3m26s | Astronomische Nachrichten, 815, 1852, p.373 |
| 12 | 1851 VII 28 | Urskog | Norway | Schönheyder | Total eclipse for 1m21s  Venus noticed | Astronomische Nachrichten, 815, 1852, p.374 |
| 13 | 1851 VII 28 | Eger | Norway | Vibe | Prominences observed, planets and stars seen | Astronomische Nachrichten, 815, 1852, p.374 |
| 14 | 1851 VII 28 | Østbøl | Norway | Rynning | Total eclipse for 20s | Astronomische Nachrichten, 815, 1852, p.375 |
| 15 | 1851 VII 28 | Rødenes | Norway | Rasch | Wind stopped during the total phase, prominences noticed | Astronomische Nachrichten, 815, 1852, p.375 |
| 16 | 1851 VII 28 | Florø | Norway | Irgens | Irregular solar corona with some radiance observed, planets and stars noticed | Astronomische Nachrichten, 815, 1852, p.376 |
| 17 | 1851 VII 28 | Kristianstadt | Sweden | Humphreys  Miland  Silverstolpe | Totality for 2 min. 45 sec., solar corona concentric with the Sun, of the width of 0.5 of lunars radius, prominences observed,  planets and stars seen | Lardner D.: Handbook of Astrononomy, 302;  Mem. Roy. Astron. Soc., 1852, p.17, 97. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 18 | 1851 VII 28 | Trollhättefallen | Sweden | Lassel,  Stanistreet, Williams | Total eclipse for 3m19s, prominences observed; solar corona symmetric and a little bit unequal | Lardner D.: Handbook of Astrononomy, 303;  Mem. Roy. Astron. Soc., 1852, p.44. |
| 19 | 1851 VII 28 | Göteborg | Sweden | Pettersson | Total eclipse for 3m16s,  The chromosphere noticed, prominences studied | Mem. Roy. Astron. Soc., 1852, p.69. |
| 20 | 1851 VII 28 | Göteborg | Sweden | Airy, Hasselgren | Total eclipse for 3m18s; Baily’s beads, an irregular corona of the width a little less than the lunar diameter, as well as prominences observed, Venus noticed; | Lardner D.: Handbook of Astrononomy, p.299;  Mem. Roy. Astron. Soc., 1852, p.2. |
| 21 | 1851 VII 28 | Göteborg | Sweden | Swan, Lane | Total eclipse for 3m18s; Baily’s beads noticed, a radiant corona structure described, prominences observed | Mem. Roy. Astron. Soc., 1852, p.72. |
| 22 | 1851 VII 28 | Göteborg | Sweden | Chevallier | The symmetric solar corona width of 7/6 od the lunar radius,  Venus and Mercury noticed. | Mem. Roy. Astron. Soc., 1852, p.76. |
| 23 | 1851 VII 28 | Carlstens | Sweden | Agardh | Prominences observed through clouds | Astronomische Nachrichten, 783, 1852, p.249 |
| 24 | 1851 VII 28 | Hestra | Sweden | Blomstrand | Prominences observed | Astronomische Nachrichten, 783, 1852, p.251 |
| 25 | 1851 VII 28 | Lund | Sweden | Ekelund, Berlin | A grazing total eclipse, Baily’s beads observed | Öferwigt Af Kongl. Vetenskaps-Adakemiens Förhandlingar, Tom 9**,** 1852, p.32 |
| 26 | 1851 VII 28 | Ryssby | Sweden | Tidander | Total eclipse, prominences noticed. | Öferwigt Af Kongl. Vetenskaps-Adakemiens Förhandlingar, Tom 9**,** 1852, p.37 |
| 27 | 1851 VII 28 | Helsingborg | Sweden | Blackwood, Goodenough | Total eclipse for about 30sthrough clouds, one prominence noticed, stas and planets seen | Mem. Roy. Astron. Soc., 1852, p.93.;  Astronomische Nachrichten, 777, 1852, p.151 |
| 28 | 1851 VII 28 | Lilla-Edet | Sweden | Carrington, Bond, Mygind, et al. | Baily’s beads noticed, the solar corona and prominences studied, | Mem. Roy. Astron. Soc., 1852, p.58, 97. |
| 29 | 1851 VII 28 | Rävelsberg | Sweden | Dawes, Hind | The solar corona concentric to the Sun not to the Moon; prominences and Baily’s beads observed | Lardner D.: Handbook of Astrononomy, 303; Mem. Roy. Astron. Soc., 1852, p.81.; Astronomische Nachrichten, 777, 1852, p.151 |
| 30 | 1851 VII 28 | Hestra | Sweden | Blomstrand | Total eclipse, some prominences seen | Astronomische Nachrichten, 777, 1852, p.251 |
| 31 | 1851 VII 28 | Traheryd | Sweden | von Galen | Solar corona width of 6’, Venus seen | Astronomische Nachrichten, 772, 1852, p.53 |
| 32 | 1851 VII 28 | Kalmar | Sweden | Olufsen | Total eclipse for 3m14s, Baily’s beads noticed, prominences of 3’ height observed, circular sorona seen, | Astronomische Nachrichten, 781, 1852, p.219 |
| 33 | 1851 VII 28 | Rønne, Bornholm | Denmark | anonymous | Totality for 1 minute,  decreasing of temperature by 5 degrees | Berlingske Tidende, Aug.1,1851 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 34 | 1851 VII 28 | Christiansø | Denmark | Ravn | Total eclipse for 2m27s, solar corona width of 30, some rays’ structure noticed, prominences up to 3’ height noticed | Astronomische Nachrichten, 781, 1852, p.221 |
| 35 | 1851 VII 28 | København | Denmark | Jürgensen | Not total eclipse, Baily’s beads formed, seen through clouds, a distinct darkness | Astronomische Nachrichten, 778, 1852, p.165 |
| 36 | 1851 VII 28 | Kropp | Denmark | Good | Total eclipse for 1m17s, solar corona carefully observed, the widh up to 1o25’, prominences observed | Astronomische Nachrichten, 777, 1852, p.145 |
| 37 | 1851 VII 28 | Elsingør | Denmark | anonymous | Not total eclipse | Astronomische Nachrichten, 777, 1852, p.151 |
| 38 | 1851 VII 28 | Rixhöft (Rozewie) | Prussia/Poland | Fearnley  Littrow  Ragona Scina  Steffany, Busch | Protuberances splitted into „small clouds”  Uneven colour of protuberances  Corona wide for 13’ N-S and 20-23’ E-W | Astronomische Nachrichten, 778, 1852, p.129 |
| 39 | 1851 VII 28 | Danzig/Gdańsk  Bischofsberg/ Biskupia Górka | Prussia/  Poland | Goujon  Mauvais, | Baily’s beads noticed, solar corona of 10’ width observed, prominences observed,  Venus and Mercury seen | Comptes rendus hebdomadaires des séances, 33, 1851. p.169, 178. |
| 40 | 1851 VII 28 | Danzig/Gdańsk | Prussia/  Poland | Strehlke |  | Physikalische Beobachtungen .... Jahresber. d. Naturw. Ver. Halle, 1852, p.103 |
| 41 | 1851 VII 28 | Danzig/Gdańsk,  Navigationsschule | Prussia/  Poland | Reinbrecht, Albrecht, Domke et al. | Total eclipse for 3.0m | Astronomische Nachrichten, 788, 1852, p.327 |
| 42 | 1851 VII 28 | Oxhöfft/Oksywie | Prussia/  Poland | Glaubitz  Lehmann  v. Rottenburg  Oelschläger, et al. | The solar corona of 8’ width with several brighter rays, stars and planets seen, several prominences noticed, zoological observations, | Mem. Roy. Astron. Soc., 1852, p.113;  Astronomische Nachrichten, 769, 1852, p.13 |
| 43 | 1851 VII 28 | Rutzau/Rzucewo | Prussia/  Poland | Anger | Total eclipse, pink-red prominences observed | Astronomische Nachrichten, 784, 1852, p.31 |
| 44 | 1851 VII 28 | Frauenburg/  Frombork | Prussia/  Poland | Feldt,  Galle, et al. | Total eclipse for 3m11s,  pink protuberances observed | Astronomische Nachrichten, 778, 1852, p.71,  790, p.361 |
| 45 | 1851 VII 28 | Knisgberg | Prussia | Schrter,  Wichmann,  J.Berkowski,  Schmidt, d‘Arrest | Protuberances like flames;  First daguerrotype of totality obtained  with the use of 61/812 mm objective and using the 84-second-exposition | Astronomische Nachrichten, 780, 1852, p.205, 787, p.308 |
| 46 | 1851 VII 28 | Kullick/Kulik | Prussia/  Poland | Peters,  Schumacher,  Marczynowski | Total eclipse for 3m17s through clouds, several stars noticed | Astronomische Nachrichten, 789, 1852, p.341 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 47 | 1851 VII 28 | Pillau | Prussia | Wienhold | Total eclipse for 3m08s | Astronomische Nachrichten, 790, 1852, p.364 |
|  | 1851 VII 28 | Marienburg/ Malbork | Prussia/  Poland | Talbot | Solar corona and prominencs seen in a gap in clouds, Baily’s beads noticed at the 3rd contact | Mem. Roy. Astron. Soc., 1852, p.107. |
| 48 | 1851 VII 28 | Storlus | Prussia/  Poland | v.Parpart | The chromosphere effects and solar corona obverved | Astronomische Nachrichten, 807, 1852, p.245 |
| 49 | 1851 VII 28 | Augustów | Poland | Fedorenko, Belavski |  | http://www.eclipse-2008.ru/eclipse/1851.php |
| 50 | 1851 VII 28 | Rastenburg/  Kętrzyn | Prussia/  Poland | Billerbeck  J.Schmidt  Thomann | Width of corona 7-8’  Width of corona 15’  Width of corona for the Moon’s radius  Prominences observed | Beobachtung der totalen Sonnenfinsternis vom 28ten Juli 1851 zu Rastenburg in Ostpreussen, 1852. |
| 51 | 1851 VII 28 | Lötzen/Giżycko | Prussia/  Poland | anonymous | Solar corona clearly seen with details, stars seen in the sky | E.Trincker :  Chronik der Gemeinde Lötzen, 1912 |
| 52 | 1851 VII 28 | Łomża | Poland | O.W.v.Struve  K.v.Struve  Fuss, Dehlen  Aleksandrowicz | Big darkness for 3 min. 18 sec., solar corona seen; botanical observations performed. | Gazeta Warszawska, 1851 August 5;  Bulletin de la classe phys.-math. de l’Acad. de St.Petersbourg, 1851 aoùt 8. |
| 53 | 1851 VII 28 | Ostrołęka | Poland | A crowd | Totality clearly observed, stars seen, beautiful night by day set in. | Gazeta Warszawska, 1851 August 3 |
| 54 | 1851 VII 28 | Wysokie Mazowieckie | Poland | Prażmowski  Jurkiewicz  Przystański  Mirowski | Polarisation measured. Baily’s beads hardly remarked. Width of the white solar corona from 3’ to 7’. Two protuberances (of the length of 3’ and 1’) at the southern limb seen. Contacts recorded.  Totality for 3 min. 20.5 sec.  No star seen in the sky (partly cloudy).  Decreasing of temperature for 20 degrees (!) under open sky noted. | Dodatek do Gazety Warszawskiej  Nru 211 z d.11 sierpnia 1851  (August 11,1851) |
| 55 | 1851 VII 28 | Warszawa | Poland | crowds on streets | Smoky glasses widely used, solar corona and three stars in the sky remarked,  the edge of the Moon’s shadow remarked on the horizon | Kurjer Warszawski, 1851 July 29 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 56 | 1851 VII 28 | Warszawa | Poland | Baranowski  Berkiewicz  Schorr  Bayer  Wyszyński  Hanusz | Totality for 1 min. 40 sec. Visually at the Observatory by three first persons; violet limb of the Moon remarked;  daugerotypes made by Beyer.  Observations of plants in the Botanic Garden  Decrease of the temperature by 5 degrees.  A big protuberance seen at the southern edge of the lunar disk.  Jupiter (? correctly : Venus), Arcturus and Big Dipper remarked.  some clouds during the partial phases. | Kurjer Warszawski, 1851 July 29  Dziennik Warszawski,  1851,July 29,30  Gazeta Warszawska, 1851 July 29 |
| 57 | 1851 VII 28 | Lublin | Poland | - | Sky totally overcast during totality | Kurjer Warszawski, 1851 July 30 |
| 58 | 1851 VII 28 | Bobrynets | Ukraine | Semenov, Savich | Total eclipse through the clouds after a storm. | Semenov F.A.: Avtobiografia kurskogo astronoma-lubitela, 1920. |
| 59 | 1851 VII 28 | Makhnovka | Ukraine | Shveytser | Total eclipse behind clouds; No results | http://astronomers.ru/eclipse-2008/russian/eclipse/1851.php |
| 60 | 1851 VII 28 | Kiev | Ukraine | Mertsalov,  Chekhovich, Nite | Totality for 12 seconds  The solar corona concentric to the Sun not to the Moon | Mertsalov: Otmetki po sluchayu byvshego v Kieve polnogo zatmenia Solnca 16 jula 1851 g.;  Mädler J.H.: Geschichte der Himmelskunde,Bd.2, 1873, p. 426. |
| 61 | 1851 VII 28 | Zhitomir | Ukraine | Pilipenko | Solar corona with its structural inequalities observed | Nabludenya nad zatmeniem solnca, byvshim 16/28 jula 1851 goda, Kiew, v univ.tipografii, 1852, 83. |
| 62 | 1851 VII 28 | Uman | Ukraine | Knorre, Fahlberg et al. | No observations, clouded out. | Nabludenya nad zatmeniem solnca, byvshim 16/28 jula 1851 goda, Kiew, v univ.tipografii, 1852, 83. |
| 63 | 1851 VII 28 | Bratslav | Ukraine | Polukhtovich | Total eclipse carefully observed | Nabludenya nad zatmeniem solnca, byvshim 16/28 jula 1851 goda, Kiew, v univ.tipografii, 1852, 83. |
| 64 | 1851 VII 28 | Berdyansk | Ukraine | Kowalski, Popov, Gusev, Serikov | Total eclipse for 1m49s,  width of the corona 6-7’,  corona polarisation measurements,  3-4 prominences seen, stars of 1-2 mag, Venus and Jupiter seen | Ambartsumian V.A.: Ocherki istorii otechestvennoĭ astronomii, 1992, p.424; Odeskiy Visnyk, 1851.08.11 |
| 65 | 1851 VII 28 | Brody | Ukraine | Hornstein | Total eclipse behind clouds | Astronomische Nachrichten, 776, 1852, p.135 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 66 | 1851 VII 28 | Sasov | Ukraine | Lemoch | Grazing total eclipse | Astronomische Nachrichten, 776, 1852, p.135 |
| 67 | 1851 VII 28 | Złoczów | Ukraine | Lemoch | Almost total eclipse | Astronomische Nachrichten, 776, 1852, p.135 |
| 68 | 1851 VII 28 | Tarnopol | Ukraine | Anonymous | Total eclipse for several seconds | Astronomische Nachrichten, 776, 1852, p.135 |
| 69 | 1851 VII 28 | Kazan | Russia | Liapunov, Simonov, Savelev | The beginning and end recorded. | Astronomische Nachrichten, 802, 1852, p.149 |
| 70 | 1851 VII 28 | Summit of Galawdur | Osetia | Chodźko | Solar corona and prominences observed | Furier A: Józef Chodźko, Polski badacz Kaukazu, 2001.; Compte rendu de l'Académie impériale des sciences de St.-Pétersbourg, p.49. |
| 71 | 1851 VII 28 | Cherbourg | France | Llais | The beginning and end recorded.  Max. phase 9.2d | Mem. Soc. Acad., 1852, p. 393 |
| 72 | 1851 VII 28 | Vendôme | France | Renou | The beginning and end recorded. | Comptes rendus des séances..., 1851, p.160. |
| 73 | 1851 VII 28 | Bruxelles | Belgium | Quetelet et al. | The beginning and end recorded. | Astronomische Nachrichten, 771, 1852, p.35 |
| 74 | 1851 VII 28 | Berlin | Germany | Erman | The end recorded through clouds. | Berliner Astronomisches Jahrbuch, 775, 1852, p. 119 |
| 75 | 1851 VII 28 | Marburg | Germany | Gerling et al. | The end recorded. | Berliner Astronomisches Jahrbuch, 775, 1852, p. 119 |
| 76 | 1851 VII 28 | Göttingen | Germany | Gauss et al. | The beginning and end recorded. | Berliner Astronomisches Jahrbuch, Bd. 33, p. 47 |
| 77 | 1851 VII 28 | Frankfurt a.M. | Germany | Lorey | The beginning and end recorded. | Astronomische Nachrichten, 776, 1852, p.144 |
| 78 | 1851 VII 28 | Bonn | Germany | Argelander, Wolff | The beginning and end recorded. The Moon noticed outside the solar disk | Astronomische Nachrichten, 771, 1852, p.44 |
| 79 | 1851 VII 28 | Hamburg | Germany | Rümker et al. | The beginning and end recorded. Not eclipsed part of the Sun equal to 1.8’ | Astronomische Nachrichten, 771, 1852, p.35 |
| 80 | 1851 VII 28 | Kiel | Germany | Weyer, Christensen | The beginning and several phases recorded | Astronomische Nachrichten, 770, 1852, p.27 |
| 81 | 1851 VII 28 | Rostock | Germany | Karsten | The beginning and end recorded. | Astronomische Nachrichten, 771, 1852, p.37 |
| 82 | 1851 VII 28 | Altona | Germany | Petersen et al. | The end recorded. | Astronomische Nachrichten, 771, 1852, p.37 |
| 83 | 1851 VII 28 | Breslau | Germany | Günther | The beginning and end recorded. | Astronomische Nachrichten, 773, 1852, p.77 |
| 84 | 1851 VII 28 | Stettin | Germany | Domke | The end recorded. | Astronomische Nachrichten, 790, 1852, p.364 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 85 | 1851 VII 28 | Praha | Bohemia | Jelinek et al. | The end recorded. | Astronomische Nachrichten, 780, 1852, p.203 |
| 86 | 1851 VII 28 | Kremsmünster | Austria | Reslhuber, Fellöcker, Lettenmayr | The beginning and end recorded. | Astronomische Nachrichten, 772, 1852, p.59 |
| 87 | 1851 VII 28 | Wien | Austria | Kunes, Oeltzen | The beginning and end recorded. | Astronomische Nachrichten, 775, 1852, p.127 |
| 88 | 1851 VII 28 | Bern | Switzerland | Wolf | The beginning and end recorded. | Astronomische Nachrichten, 771, 1852, p.37 |
| 89 | 1851 VII 28 | Roma | Italy | Secchi | The beginning and end recorded. | Astronomische Nachrichten, 773, 1852, p.71 |
| 90 | 1851 VII 28 | Padova | Italy | Santini et al. | The beginning and end recorded.  A distinct darkening of the sky. | Astronomische Nachrichten, 770, 1852, p.29 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1858 III 15 | Bath | England | Weston | Partial eclipse observed through clouds | Monthly Notices of RAS, 18, 1858, 181 |
| 2 | 1858 III 15 | Calne | England | Simms and Simms | The observation probably inside the annularity path but due to clouds only almost annular eclipse observed,  twilight effect noted | Monthly Notices of RAS, 18,1858, p.189 |
| 3 | 1858 III 15 | Somerton | England | Slatter | The observation probably inside the annularity path but due to clouds only  twilight effect noted | Monthly Notices of RAS, 18,1858, p.183 |
| 4 | 1858 III 15 | Haddenham | England | Dawes | Deep partial eclipse seen through clouds, a darkening of the sky remarked | Monthly Notices of RAS, 18,1858, p.188 |
| 5 | 1858 III 15 | London | England | Simms Jr. | Through clouds, dark lunar disc remarked outside the solar disc | Monthly Notices of RAS, 18,1858, p.189 |
| 6 | 1858 III 15 | London | England | Oliver | Meteorological observations | Monthly Notices of RAS, 18,1858, p.247 |
| 7 | 1858 III 15 | London-Clapham | England | Pritchard | Solar crescent seen through clouds | Monthly Notices of RAS, 18,1858, p.245 |
| 8 | 1858 III 15 | London-Leyton | England | Barclay | Deep partial eclipse in the cloudy sky | Monthly Notices of RAS, 18,1858, p.190 |
| 9 | 1858 III 15 | Dunmow | England | Cockayne | Meteorological observations | Monthly Notices of RAS, 18,1858, p.248 |
| 10 | 1858 III 15 | Hartwell | England | Smyth | Deep partial eclipse in the cloudy sky | Monthly Notices of RAS, 18,1858, p.192 |
| 11 | 1858 III 15 | Devizes | England | Caswall | The formation of the symmetric annulus clearly observed; the annular eclipse of about 5 seconds | Monthly Notices of RAS, 18,1858, p.250 |
| 12 | 1858 III 15 | Ramsgate | England | Eden, Martin, Cramp | Temperature measurement | Monthly Notices of RAS, 18,1858, p.248 |
| 13 | 1858 III 15 | Appleby | England | Cross | Probably some effects of Baily’s Beads noticed | Monthly Notices of RAS, 18,1858, p.204 |
| 14 | 1858 III 15 | Deptford | England | Breen, Wafford Eve | Deep partial eclipse in the cloudy sky, irregularities of the lunar limb noticed | Monthly Notices of RAS, 18,1858, p.190 |
| 15 | 1858 III 15 | Hardingham | England | Challis Paroissien | A thin crescent with Baily’s beads seen | Monthly Notices of RAS, 18,1858, p.248 |
| 16 | 1858 III 15 | Litlington | England | Power | Transformation of the solar cusps observed | Monthly Notices of RAS, 18,1858, p.248 |
| 17 | 1858 III 15 | Devil’s Dyke | England | Rickardo | Meteorological observations during a deep partial eclipse | Monthly Notices of RAS, 18,1858, p.248 |
| 18 | 1858 III 15 | Laycock | England | Smith | Stepwise decreasing of light prior to the greatest phase | Monthly Notices of RAS, 18,1858, p.251 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 19 | 1858 III 15 | Towcester | England | Lee, Fletcher | Cloudy sky in the central line, Baily’s beads remarked for a while | Monthly Notices of RAS, 18,1858, p.193 |
| 20 | 1858 III 15 | Cardington | England | McLaren | Contacts with sunspots registered | Monthly Notices of RAS, 18,1858, p.193 |
| 21 | 1858 III 15 | Ipswich | England | Stuart | Lunar mountains detected, the eclipse in the cloudy sky | Monthly Notices of RAS, 18,1858, p.193 |
| 22 | 1858 III 15 | Burnley | England | Wilkinson | Deep partial eclipse through thin clouds | Monthly Notices of RAS, 18,1858, p.195 |
| 23 | 1858 III 15 | Oundle | England | Glaisher | Observation probably inside the annularity path but clouds at the maximum moment, only almost annular eclipse with Baily’s beads observed | Monthly Notices of RAS, 18,1858, p.195 |
| 24 | 1858 III 15 | Peterborough | England | Sopwith  Bowerbank  Fownes  Walker  Wharton  Lefevre | Short annularity seen for some seconds probably at a central line of annularity path, through thin clouds,  no protuberances seen, daylight diminished to an evening time | Monthly Notices of RAS, 18,1858, p.200, 202, 203, 246 |
| 25 | 1858 III 15 | Werrington | England | Joule | Measurements of the light internsity during a clouded out annular eclipse; darkness for a few seconds | Philosophical Magazine, vol. XV, 1858, p. 402 |
| 26 | 1858 III 15 | Little Bridy | England | Eaton | Annularity seen for about 7-8s, Baily’s beads remarked | Monthly Notices of RAS, 18,1858, p.202 |
| 27 | 1858 III 15 | Royston | England | Wortham’s friend | Probably the chromosphere at the upper cusps noticed | Monthly Notices of RAS, 18,1858, p.203 |
| 28 | 1858 III 15 | Colchester | England | Tabor | Meteorological observations | Monthly Notices of RAS, 18,1858, p.249 |
| 29 | 1858 III 15 | Charmouth | England | Eaton | Annularity seen, Baily’s beads remarked along 30o of the circumference | Monthly Notices of RAS, 18,1858, p.203 |
| 30 | 1858 III 15 | Near Lyme Regis | England | anonymous | Almost annular or annular eclipse seen depending on the detailed location | Monthly Notices of RAS, 18,1858, p.203 |
| 31 | 1858 III 15 | Golden Cap | England | anonymous | Annular eclipse seemed to be central | Monthly Notices of RAS, 18,1858, p.203 |
| 32 | 1858 III 15 | St.Croix | England | Lang | Deep partial, flames of light observed at the solar crescent cusps | Monthly Notices of RAS, 18,1858, p.286 |
| 33 | 1858 III 15 | Lincolnshire | England | Cross | Almost annular eclipse observed, few Baily’s beads seen | Monthly Notices of RAS, 18,1858, p.204 |
| 34 | 1858 III 15 | Cambridge | England | Breen, Challis | Deep partial eclipse carefully observed  The beginning and end recorded,  Baily’s beads noticed | Monthly Notices of RAS, 18,1858, p.190, 205, 240 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 35 | 1858 III 15 | Ochtertyre | Scotland | Murray | Deep parital eclipse noticed | Monthly Notices of RAS, 18,1858, p.210 |
| 36 | 1858 III 15 | Edinburgh | Scotland | Piazzi-Smyth | Partial phase; through clouds | Monthly Notices of RAS, 18,1858, p.185 |
| 37 | 1858 III 15 | Brentwood | England | Smyth’s assistants | Almost annular eclipse seen; the illuminated part of the Sun reduced to 30”; a distinct diminishing of daylight | Monthly Notices of RAS, 18,1858, p.185 |
| 38 | 1858 III 15 | Bruxelles | Belgium | Quetelet | Clouded out | Astronomische Nachrichten, 1134, 1858, p.92 |
| 39 | 1858 III 15 | Hamburg | Germany | Rümker, Möller,  Niebour | Deep partial eclipse through clouds, the day darkened distinctly, max phase more than 11d=0.917; the beginning recorded. | Astronomische Nachrichten, 1142, 1858, p.217; 1134, p. 89 |
| 40 | 1858 III 15 | Altona | Germany | Peters et al. | Partial eclipse through clouds | Astronomische Nachrichten, 1858, 1134, p. 89 |
| 41 | 1858 III 15 | Marburg | Germany | Gerling, Melde, Auth | The end recorded | Astronomische Nachrichten, 1142, 1858, p.214 |
| 42 | 1858 III 15 | Schwerin | Germany | Paschen et al. | The end recorded | Astronomische Nachrichten, 1142, 1858, p.216 |
| 43 | 1858 III 15 | Kiel | Germany | Weyer,  Karsten | Deep partial eclipse through clouds;  The end recorded | Astronomische Nachrichten, 1134, 1858, p.93 |
| 44 | 1858 III 15 | Hannover | Germany | Haase | The beginning recorded | Astronomische Nachrichten, 1134, 1858, p.95 |
| 45 | 1858 III 15 | Berlin | Germany | Bruhns, Förster,Gussew,  Goltzsch | The end recorded | Astronomische Nachrichten, 1134, 1858, p.95, 125 |
| 46 | 1858 III 15 | Göttingen | Germany | Klinkerfüs et al. | The beginning recorded | Astronomische Nachrichten, 1148, 1858, p.317 |
| 47 | 1858 III 15 | Königsberg | Germany | Luthen et al. | The begi55ingand end recorded through clouds | Astronomische Nachrichten, 1139, 1858, p.164 |
| 48 | 1858 III 15 | Praha | Bohemia | Böhm | The beginning recorded | Astronomische Nachrichten, 1142, 1858, p.218 |
| 49 | 1858 III 15 | Olomouc | Bohemia | Schmidt | Partial eclipse through clouds observed | Astronomische Nachrichten, 1140, 1858, p.186 |
| 50 | 1858 III 15 | Wien | Austria | Littrow et al. | The end recorded | Astronomische Nachrichten, 1142, 1858, p.216 |
| 51 | 1858 III 15 | Kremsmünster | Austria | Reslhuber,  Strasser,  Lettenmayer | Deep partial, the darkening of the sky remarked,  The beginningand end recorded | Astronomische Nachrichten, 1139, 1858, p.155 |
| 52 | 1858 III 15 | Paris | France | Porro,  Quinet | The deep partial eclipse photographed | Faye: Sur les photographies de l’èclipse du 15 mars, préséntes par M.M. Porro et Quinet 1858, Paris C.R. 46. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 53 | 1858 III 15 | Lisboa | Portugal | Folque | Deep partial eclipse  The beginningand end recorded | Astronomische Nachrichten, 1142, 1858, p.216 |
| 54 | 1858 III 15 | Padova | Italy | Santini et al. | The beginningand end recorded | Osservatori astronomiche… 1858 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1860 VII 18 | Bilbao | Spain | Lewis | Solar corona studied, | Reports of the Himalaya Expedition, 1860; Memoirs of the RAS, 41, 1879, 562 |
| 2 | 1860 VII 18 | Near Santander | Spain | Buckigham, Fearnely, Hobbes, et al. | The eclipsed Sun behind a cloud; transformation of th sky observed | Monthly Notices of RAS, 41, 1879, p.142 |
| 3 | 1860 VII 18 | Burgos | Spain | Janson | Baily’s beads noticed 10s before the 2nd contact | Reports of the Himalaya Expedition, 1860; Memoirs of the RAS, 41, 1879, 562 |
| 4 | 1860 VII 18 | Pancerbo | Spain | Chevalier, Wilson | Solar corona studied | Reports of the Himalaya Expedition, 1860; Memoirs of the RAS, 41, 1879, 562 |
| 5 | 1860 VII 18 | Llodio | Spain | Murray, Stenglein | Solar corona studied, chromsphere noticed, total eclipse in a gap in clouds, planets seen | Reports of the Himalaya Expedition, 1860; Memoirs of the RAS, 41, 1879, 562 |
| 6 | 1860 VII 18 | Tudela | Spain | Thompson | Solar corona studied | Reports of the Himalaya Expedition, 1860; Memoirs of the RAS, 41, 1879, 562 |
| 7 | 1860 VII 18 | Pic du Midi | Spain | Lyte, Michelier | The deep partial eclipse photographed though clouds,  a distinct temperature drop | Comptes Rendus, 51, 1860, p.180 |
| 8 | 1860 VII 18 | Rivabellosa | Spain | de la Rue, Beck,  Beckley,  Clark,  Downes,  Reynolds | Total eclipse photographed with the use of a Ross’ telescope of 3.5 inch objective and using  a 60- second-exposure; prominences observed | Phil.Trans., 152, 1862, p.333;  de la Rue W.: On the Total Solar Eclipse of July 18th, 1860, 1862. |
| 9 | 1860 VII 18 | Desierto de las Palmas | Spain | Secchi | The solar corona and prominences studied, Venus, Jupiter and several stras seen | Secchi A.: Relazione delle osservazioni fatte in Spagna durante l’eclisse totale del 18 Luglio 1860, Roma, Tipografia delle Belle Arti, 1860; Comptes Rendus, 51, 1860, p.156; Astronomische Nachrichten, 54, 1860, p.263 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 10 | 1860 VII 18 | Desierto de las Palmas | Spain | Monserrat, Aguilar, Cepeda, Botella | Partial and total eclipse photographed | Astronomische Nachrichten, 54, 1860, p.17; Annuar d. Observ. R. de Madrid, 1860, p.171; Comptes Rendus, 51, 1860, p.156, 386; Mädler: Über Totale Sonnenfinsternissen..., Trans.of the Acad.of Jena, 1861.;  Diaz J.I.: La primera fotografía de las protuberancias solares...; Rev.R.Acad.Cienc.Exact.Fís.Nat., 2014, p.9. |
| 11 | 1860 VII 18 | Castellón de la Plana | Spain | Rümker,  Arndt,  Burat,  Feilitzsch,  Bremiker, Lamont  Lespiault,  Plantamour | Total eclipse, protuberances studied | Les Archives des Sciences de la Biblothque Universelle, Geneve, 1860, p.12. ; Astronomische Nachrichten, 54, p.81;  Arch. d.sc.phys., 8, 1860, p.311;  Comptes Rendus, 51, 1860, p.229, 268, 608; 54, p.81; Cabellé M.C.: Eclipses totalesde sol en Castelló de la Plana 1860 y 1905, 2005. |
| 12 | 1860 VII 18 | Desierto de las Palmas | Spain | Barreda,  Botella,  Cepeda,  Mayo | Spectral observations performed, magnetic field observed | Comptes Rendus, 51, 1860, p.161-162 |
| 13 | 1860 VII 18 | Briviesca | Spain | Prażmowski | Polarization of the solar corona measured, prominences up to 3’ height observed | Comptes Rendus, 51, 1860, p.195;  Gazeta Warszawska 204,205,1860. |
| 14 | 1860 VII 18 | Briviesca | Spain | d’Abbadie,  Collantes, Petit  Otaño. Burat, Lespiault | Total eclipse for 3m24s, prominences observed, Baily’s beads noticed,  irregularities of the solar corona studied | Astronomische Nachrichten, p.277;  54, p.75.  Comptes Rendus, 51, 1860, p.220, 389, 703 |
| 15 | 1860 VII 18 | Vitoria | Spain | D’Arrest,  Bianchi, Cuillier, Goldschmidt, v.Mädler, Roure,  Saar,  C.Schulz, G.Schulz,  Weyer, Zabala,  Garaganza | Protuberances and Baily’s beads and corona with its structure observed, temperature measurements,  total eclipse for 2m50s,  four planets and 8 stars remarked | Asstronomische Nachrichten, 56, 1860, p.305;  Comptes Rendus, 51, 1860, p.223, 265;  Weyer G.:Über die totale Sonnenfinsternis am 18. Juli 1860, Kiel, 1860. |
| 16 | 1860 VII 18 | Vitoria | Spain | Barthe, Thiele | Polarization of the solar corona studied, prominences observed | Nordisk.Univers.Tidskr., 11,1860 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 17 | 1860 VII 18 | Logroño | Spain | Pole, Perry, Goodwin,  Perrowne | Baily’s beads noticed, solar corona with distinct brighter rays, many prominences seen with their heights up to 2’, many stars and planets seen | Pole W.: Narrative of the Astronomical Expedition to Spain, for observing the total eclipse of the Sun, July 18, 1860, 1860. |
| 18 | 1860 VII 18 | Logroño/  La Guardia | Spain | Gray, Atwood, Galton | The solar corona with its details schetched | Reports of the Himalaya Expedition, Galton F.: A visit to north Spain at the time of the eclipse, 1860 |
| 19 | 1860 VII 18 | Anda | Spain | Pritchard, Scott et al. | The solar corona with its details schetched | Diaz J.I.: La primera fotografía de las protuberancias solares...; Rev.R.Acad.Cienc.Exact.Fís.Nat., 2014, p30.; Charles Pritchard . . . Memoirs of his Life, London ,1897. |
| 20 | 1860 VII 18 | Hereña | Spain | G.B.Airy,  W.Airy,  et al. | A quite bright total eclipse, the symmetric and regular solar corona noticed, promineneces observed, planets and stars seen | Monthly Notices of RAS, 21, 1860, p.1; Acta physico-medica academiae Caesareae Leopoldino-Carolinae naturae curiosorum, 1862. |
| 21 | 1860 VII 18 | Peñacerráda | Spain | Jacob, Grant,Taggart | Total eclipse for 3m22s, solar corona and four prominences observed, corona noticed 10s prior to the total phase and 12s after the third contact, planets and stars seen, some rays of the corona up to30’ length noticed | The Edinburgh New Philosophical Journal, 58, 1861, 1. |
| 19 | 1860 VII 18 | Cullera | Spain | Klinkerfüs | The observation at the southern limit of totality, contacts for the total eclipse recorded | Astronomische Nachrichten, 54, p.217 |
| 20 | 1860 VII 18 | Oropesa | Spain | Parés,  Blanch,  Paxtot,  Dunand, Oliver, Maymó, Presas i Puig, Aracil | Total eclipse for 3m06s, a big darkness,  three planets (Venus, Jupiter and Saturn) and one star seen, solar corona of a width equal to 0.25 of the Moon’s diameter observed , protuberances seen, flying shadows remarked, meteorological observations performed | Presas i Puig F., Maymó M., Dunand, F. : Eclipse del sol de 18 de Julio de 1860 : observado en Oropesa por una reunión de catalanes, ed. 1861 |
| 21 | 1860 VII 18 | Oropesa | Spain | Garrido, Brito Capello, de Souza, Miranda, Marquez, de Sousa Pinto, Fernandez, Manzanos | Total eclipse for 3m10s,  structure of the corona and prominences studied, | Franciso de Paula Marquez : Memoria sobre el eclipse de sol de 18 de Julio de 1860, ed. Madrid 1861. |
| 22 | 1860 VII 18 | Torreblanca | Spain | Carlini, Donati, Simonelli | Total eclipse for 3m11s, planets and stars seen, solar corona structure studied, prominences sketched, partial phases photographed. | Rivista italiana di scienze…, 1860, 187. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 23 | 1860 VII 18 | Valencia | Spain | Ibach, Haase | Thin clouds, solar corona of 10-12’ width and its rays observed, prominences up to 3’ high noticed, Baily’s beads at the 2nd and 3rd contact noticed; solar corona belongs to the Sun | Astronomische Nachrichten, 54, 1294, 1860, p.339 |
| 24 | 1860 VII 18 | Pobes | Portugal | O v.Struve, Winnecke | Promiences observed and sketched, the corona structure studied | Bull.d.St.Pet.II, p.385 |
| 25 | 1860 VII 18 | Tarazona | Spain | Foucault, Gautier, Auerbach, Bruhns | Prominences seen before the 2nd and after 3rd contact, prominences belogs to the Sun | Astronomische Nachrichten, 1865, 1871, 268; Gautier E.: Observation de l’eclipse totale de soleil de 18 julliet 1860 à Tarazona. Arch. d. Sc.Phys., IX, 1860, p.236 |
| 26 | 1860 VII 18 | Moncayo | Spain | Leverrier, Villarceau, Tissot, Ardanaz, Chacornac, Novella, | Observation of the total eclipse with not clear weather conditions, the eclipse photographed; Some prominences noticed even before the 2nd  and after the 3rd contact, prominences studied, solar corona with its rays seen, Venus, Jupiter and several stars noticed | Novella E. : Informe de lo ocurrido a la expedición que fué al Moncayo a observar el eclipse de sol de 18 de Julio último, ed.1860; Bull. d.Obs. d.Paris, 1860 |
| 27 | 1860 VII 18 | Batna | Algeria | Bour,  Salicis, Laussedat, Zickel, Girard | Total eclipse for 2m57s, partial phases photographed, polarization of the corona confirmed, | Comptes Rendus, 51, 1860, p.270, 441; Calandrelli I.: Eclisse solare del 18 luglio 1860 osservato…, 1861. |
| 28 | 1860 VII 18 | Lambessa | Algeria | Bulard | Solar corona with its rays observed, Baily’s beads noticed, prominences seen clearly | Comptes Rendus, 53, 1861, p.509 |
| 29 | 1860 VII 18 | Marragha/Dongola | Sudan | Ahmed al Soubki,  Hussain Ibrahim,  Mahmud-Bey | Total eclipse for 1m50s, Baily’s beads at the 2nd and 3rd contact noticed, a symmetric solar corona and prominences of 3-4’ high observed, stars seen | Comptes-Rendus, 51, 1860, p.680;  53, p.133. |
| 30 | 1860 VII 18 | Greenwich | England | Main, Glaisher, Fisher, Dunkin, Carpenter, Riddle | The beginning and end recorded | Monthly Notices of RAS, 21, 1860, p.17, 155 |
| 31 | 1860 VII 18 | Haddenham | England | Dawes | Deep parial eclipse seen through thin clouds, Venus close to the Sun noticed | Monthly Notices of RAS, 21,1860, p.25 |
| 32 | 1860 VII 18 | Maresfield | England | Noble | The beginning and greatest phase recorded | Monthly Notices of RAS, 21, 1860, p.20 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 33 | 1860 VII 18 | Highbury | England | Burr | The beginning and end recorded | Monthly Notices of RAS, 21, 1860, p.24 |
| 34 | 1860 VII 18 | Uckfield | England | Prince | The beginning and greatest phase recorded | Monthly Notices of RAS, 21, 1860, p.23 |
| 35 | 1860 VII 18 | Woolwich | England | Spiller, Crookes | Photos of the partial eclipse made | Philosophical Magazine no. 132, p.192 |
| 36 | 1860 VII 18 | Bruxelles | Belgium | Quetelet, v.Hoeremann | The beginning and end recorded | Bulletin de l’Acadaemie R. d.Bruxelles, ; Astronomische Nachrichten, 54, p.3. |
| 37 | 1860 VII 18 | Metz | France | Lamey | Photos of the eclipse made | Comptes Rendus, 51, 1860, p.148 |
| 38 | 1860 VII 18 | Belfort | France | Vernier | Photos of the eclipse made | Comptes Rendus, 51, 1860, p.148 |
|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 39 | 1860 VII 18 | Bordeaux | France | Baudrimont et al. | Photometric and meteorogical measurements | Comptes Rendus, 51, 1860, p.145 |
| 40 | 1860 VII 18 | Toulouse | France | Bousquet | Meteorogical measurements | Comptes Rendus, 51, 1860, p.393 |
| 41 | 1860 VII 18 | Göttingen | Germany | Adolph | The beginning and end recorded | Astronomische Nachrichten, 55, 1302, 1861, p.91. |
| 42 | 1860 VII 18 | Greifswald | Germany | Cantzler | Partial eclipse observed, meteorological measurements made | Jahn G.A. et al: Wochenschrift für Astronomie…1860, p.284, 298 |
| 43 | 1860 VII 18 | Frankfurt a.M. | Germany | Lorey | The end recorded, meteorological measurements made | Jahresber. d. Franf.Ver., 1859-60,p.53 |
| 44 | 1860 VII 18 | Danzig/Gdańsk | Germany/Poland | Kayser et al. | The beginning and end observed | Astronomische Nachrichten, 54, 1287, 1860, p.225 |
| 45 | 1860 VII 18 | Breslau/Wrocław | Germany/Poland | Galle, Günter | The beginning and end observed | Astronomische Nachrichten, 54, 1273, 1860, p.11 |
| 46 | 1860 VII 18 | Langenbielau/  Bielawa | Germany/Poland | Sadebeck | The beginning recorded | Astronomische Nachrichten, 54, 1273, 1860, p.11 |
| 47 | 1860 VII 18 | Storlus | Prussia/Poland | v.Parpart | Sunspots occultations recorded | Astronomische Nachrichten, 53, 1269, 1860, p.331 |
| 48 | 1860 VII 18 | Lund | Sweden | Dunér, Möller | The beginning and end observed | Astronomische Nachrichten, 54, 1298, 1860, p.96 |
| 49 | 1860 VII 18 | Vilnius | Lihuania | v.Sabler | The beginning and end observed | Astronomische Nachrichten, 54, 1280, 1860, p.21 |
| 50 | 1860 VII 18 | Wien | Austria | Hornestein et al. | The beginning and end observed | Astronomische Nachrichten, 54, 1281, 1860, p.135 |
| 51 | 1860 VII 18 | Kremsmünster | Austria | Reslhuber, Strasser, Lettenmayer | The beginning and end observed, meteorological measurements made | Astronomische Nachrichten, 54, 1271, 1860, p.357 |
| 52 | 1860 VII 18 | Zürich | Switzerland | Wolf, Wolfers | The beginning recorded | Astronomische Nachrichten, 54, 1270, 1860, p.337 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 53 | 1860 VII 18 | Padova | Italy | Legnazzi et al. | The beginning and end observed | Astronomische Nachrichten, 54, 1289, 1860, 263 |
| 54 | 1860 VII 18 | Trieste | Italy | Müller, Rund, Schaub | The beginning observed | Astronomische Nachrichten, 53, 1270, 1860, p.339 |
| 55 | 1860 VII 18 | Milano | Italy | Dembowski | Observations of the sunspots covering | Astronomische Nachrichten, 53, 1270, 1860, 343 |
| 56 | 1860 VII 18 | Roma | Italy |  | The beginning and end observed | Calandrelli I.: Eclisse solare del 18 luglio 1860 osservato…, 1861. |
| 57 | 1860 VII 18 | Athena | Greece | Schmidt | The beginning and end observed | Astronomische Nachrichten, 54, 1273, 1861, p.1 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
|  | 1861 XII 31 | Ouargla | Algeria | Bulard | The beginning and end recorded,  meteorological observations | Astronomische Nachrichten, volume 57, 1862, p.125 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1867 III 6 | Bougie | Algeria | Bulard | Annular eclipse for 1m33s, Venus, Jupiter and Mercury noticed, | Bulard C.: Description de l’éclipse annulaire de soleil du 6 mars 1867, Alger, 1867 ; Comptes Rendus, 64, 1867, p.1291 |
| 2 | 1867 III 6 | Brsečine near Ragusa/Dubrovnik | Dalmatia/Kroatia | Kunwald, v. Goertz, Rziha | Annular eclipse at the northern limit observed,  a large prominence 14 minutes before the 2nd contact and 15 minutes after the 3rd contacts seen, Baily’s beads noticed, traces of the solar corona noticed | Astronomische Nachrichten, 69, 1868, 1647, p.225; Monthly Notices of the Royal Astronomical Society, 28, 1868, p.91; The Student, and Intellectual Observer, 2, 1869, p. 140 |
| 3 | 1867 III 6 | Palermo | Italy | Cannizzaro et al. | Deep partial eclipse observed, the end recorded, photos taken by Tagliarini | Giornale di Scienze Natur. ed Econom., vol. III, 1867, p.25. |
| 4 | 1867 III 6 | Trani | Italy | Janssen | Annular eclipse observed; spectral measurements performed. | Janssen J.: Œuvres scientifiques, vol. I, 143–68 |
| 5 | 1867 III 6 | Athena | Greece | Schmidt | The beginning and end recorded through clouds | Astronomische Nachrichten, 69, 1867, 1639, p.109 |
| 6 | 1867 III 6 | Göttingen | Germany | Klinkerfüs et al. | The beginning and end observed | Astronomische Nachrichten, 70, 1868, 1668, p.191 |
| 7 | 1867 III 6 | Dessau | Germany | Schwabe | Partial eclipse through clouds observed | Astronomische Nachrichten, 69, 1867, p.63 |
| 8 | 1867 III 6 | Zürich | Switzerland | Weileman | The beginning and end recorded, max. phase 10.0d | Astronomische Nachrichten, 69, 1867, 1639, p.107 |
| 9 | 1867 III 6 | Madrid | Spain | Aguilar | The beginning and end recorded | Astronomische Nachrichten, 69, 1867, 1633, p.15 |
| 10 | 1867 III 6 | Upper Holloway | England | Browning, Barnes | The partial eclipse through clouds observed | Monthly Notices of RAS, 27, 5, 1867, p.188. |
| 11 | 1867 III 6 | Ray Lodge/ Maresfield | England | Lassell | The beginning recorded | Monthly Notices of RAS, 27, 5, 1867, p.186. |
| 12 | 1867 III 6 | Forest Lodge | England | Noble | The end recorded | Monthly Notices of RAS, 27, 5, 1867, p.185. |
| 13 | 1867 III 6 | Manchester | England | Brothers | The beginning and end observed,photos of partial phases taken | Monthly Notices of RAS, 27, 5, 1867, p.186. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 14 | 1867 III 6 | Wrottesley Hall | England | Wrottesley, Hough | The beginning and end recorded | Monthly Notices of RAS, 27, 5, 1867, p.188. |
| 15 | 1867 III 6 | Uckfield | England | Prince | The partial eclipse observed through clouds | Monthly Notices of RAS, 27, 5, 1867, p.184. |
| 16 | 1867 III 6 | Greenwich | England | Airy | The beginning recorded | Monthly Notices of RAS, 27, 5, 1867, p.242. |
| 17 | 1867 III 6 | Edinburgh | Scotland | Piazzi Smyth | The end recorded, a couple of photos taken | Monthly Notices of RAS, 27, 6, 1867, p.242. |
| 18 | 1867 III 6 | Helsingborg | Sweden | Möller et al. | The beginning recorded | Astronomische Nachrichten, 69, 1867, 1635, p.47 |
| 19 | 1867 III 6 | Helsingfors/ Helsinki | Finland | Krüger | The end recorded | Astronomische Nachrichten, 69, 1867, 1634, p.31 |
| 20 | 1867 III 6 | Pulkovo | Russia | O v.Struve et al. | The beginning and end recorded | Astronomische Nachrichten, 1640, 1867, p.127 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1868 VIII 18 | Aden | Jemen | Weiss, v.Oppolzer, Addison, Thyne | Total eclipse for 2m55s,Baily’s beads and chromosphere noticed, promineneces observed, solar corona with its rays studied,several eclipse photos taken, spectroscopic measurements performed | Astronomische Nachrichten, 77, 1871, 1836, p. ;Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe , Bd.62, 1870, p.878 |
| 2 | 1868 VIII 18 | Aden | Jemen | Fritsch, Vogel, Zenker, Tiele | Solar corona structure studied, several eclipse photos taken, many planets and stars noticed | Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe , Bd.62, 1870, p.899 |
| 3 | 1868 VIII 18 | Mulwar | India | Spörer, Engelmann, Tietjen, Koppe | Solar corona of 6-7’ width seen through clouds, prominences up to 4’ high observed, | Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe , Bd.62, 1870, p.914 |
| 4 | 1868 VIII 18 | Guntoor | India | Tennant, Branfill, Phillips, | Spectroscopic and polarization observations, promiences observed, total phase photographed, the Sun seen through a haze | Memoirs of the Royal Astronomical Society, 37, 1869, p.1–55.;Orchiston W.: British Observations of the 18 August 1868 Total Solar Eclipse from Guntoor, India, 2017. |
| 5 | 1868 VIII 18 | Jamkandi | India | Herschel, Campbell | Spectroscopic measuremets in a gap in clouds | Orchiston W.: British Observations of the 18 August 1868 Total Solar Eclipse from Guntoor, India, 2017.; Monthly Notices of RAS, 1869, p.149; Proc. of RAS, 17, 1868-69, p.103 |
| 6 | 1868 VIII 18 | Bijapoor | India | Tanner, Chatrey, Haig | Total eclipse for 5m10s, prominences studied, a bright and symmetric solar corona observed, spectroscopic observations performed | Orchiston W.: British Observations of the 18 August 1868 Total Solar Eclipse from Guntoor, India, 2017; Proc. of RAS, 17, 1868-69, p.74 |
| 7 | 1868 VIII 18 | Masulipatam | India | Pogson, Chary, Walker | Spectroscopic measuremets, clouds, a deep darkness, some prominences seen, Baily’s bredas noticed, spectroscopic measurements performed | Orchiston W.: British Observations of the 18 August 1868 Total Solar Eclipse from Guntoor, India, 2017; Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe, Bd.62, 1870, p.917, 936 |
| 8 | 1868 VIII 18 | Guntoor | India | Janssen, Rédier, Lefauchers | Spectroscopic measuremets, Helium in the Sun discovered | Monthly Notices of RAS, 1869, p.154;  Inst., 37, 1869, p.52; Comptes Rendus, 68, p.312. ; Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe, Bd.62, 1870, p.930 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 9 | 1868 VIII 18 | Vijayawada | India | McDonald | Solar corona structure described, a thin haze in the sky, several prominences noticed, Regulus and Sirius noticed | Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe, Bd.62, 1870, p.934 |
| 10 | 1868 VIII 18 | Between Madras and Calcutta, ship Labourdonnais | India | Rapatel | Solar corona structure described, prominences observed, three stars seen, the hazy sky | Flammarion C.: Études et lectures sur l’astronomie, 1872, 3, p.97-98 ; Comptes Rendus, 67, p.800 ; Revue contemporaine, 101, 1868, p.714. |
| 11 | 1868 VIII 18 | Wah-Koa/ Malakka | Thailand | Stéphan, Rayet, Tisserand, king Mong Kut | Prominences studied as belonging to the Sun not the Moon, spectroscopic observations, Helium confirmed after the observation | Monthly Notices of RAS, 1869, p.152;  Inst. 37, 1869, p.205. |
| 12 | 1868 VIII 18 | Suez/SS Carnatic | Egypt | Perrins | Thon solar crescent of 2’ width observed, a disctinct twigight effect | Monthly Notices of RAS, 1868, p.125 |
| 13 | 1868 VIII 18 | On the Arab Sea/ SS Rangoon | - | Rennoldson | Total eclipse for 4m08s, spectroscopic observations, Venus seen, prominences and corona sketched | Monthly Notices of RAS, 1868, p.125 |
| 14 | 1868 VIII 18 | East of the coast of India/ ship | India | King | Solar corona and prominences seen through thin clouds, | Monthly Notices of RAS, 1868, p.127 |
| 15 | 1868 VIII 18 | Gorontalo/Celebes | Indonesia | Schuylenburg | Prominenced clearly seen, various stars noticed | Proc. of RAS, 17, 1868, p. 81; Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe, Bd.62, 1870, p.964 |
| 16 | 1868 VIII 18 | West Longkoga/Celebes | Indonesia | Oudemans, Ruhle, Commijs | Solar corona and prominences exhaustively studied, Venus and several stars noticed | Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe, Bd.62, 1870, p.965 |
| 17 | 1868 VIII 18 | Mentawai/Celebes | Indonesia | Jesuits/Faura, Ricart, Nonell | Total eclipse photographed, structure of solar corona and prominences studied, Venus and some stars seen | Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe, Bd.62, 1870, p.971 |
| 18 | 1868 VIII 18 | Barram/at Borneo | Indonesia | Hennessy | Solar corona with multiple rays seen, Baily’s beads noticed, rose-colourd prominences up to 10’ high seen, Venus and nine stars noticed | Proc. of RAS, 17, 1868, p. 81; Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe, Bd.62, 1870, p.959 |
| 19 | 1868 VIII 18 | Ambona/Celebes | Indonesia | Van Heeckeren | Total eclipse for 4m46s, irregular corona seen, deep darkness | Proc. of RAS, 17, 1868, p. 81; Sitzungsberichte der Mathematisch-Naturwissenschaftliche Classe, Bd.62, 1870, p.977 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1870 XII 22 | San Fernando | Spain | Garrido, la Flor, Montoyo,Imaz,Viniegra et al. | Total eclipse for 2m11s, solar corona and prominences seen through clouds, partial phase after totality photographed | Anales del Observatorio de Marina de San Fernando, 1870, p.1. |
| 2 | 1870 XII 22 | Jerez | Spain | Young, Winlock, Pye et al. | Precise spectroscopic measuremets performed, flash spectrum of the solar chromosphere obtained, totality photographed | Annual Report of the Directory, US Coast and Geodetic Survey, 1873, p.125;  Am.Journ.Sci., I, 1871, p.156;  Nature, III, 1871, p.261;  J.G.Wolbach Library. Harvard-Smithsonian Center for Astrophysics. Appendix No. 16. Reports of Observations upon the Total Solar Eclipse of December 22, 1870 (1871) |
| 3 | 1870 XII 22 | Jerez | Spain | Pickering, Ross et al. | Polarization and photometric measurements preformed through thin clouds, solar corona studied, Baily’s brads noticed | Annual Report of the Directory, US Coast and Geodetic Survey, 1873, p.165 |
| 4 | 1870 XII 22 | Malaga | Spain | Bryan, Orueta, Sancha, Hernandez | Total eclipse recorded, prominences observed | Memoria sobre el eclipse total de sol visible en Malaga el 22 diciembre de 1870, ed. 1871 |
| 5 | 1870 XII 22 | Cadiz | Spain | Martinez, Fontecha, Escajadillo, Hombre,  de Castro, Molet, Orden, Terreros, Teran, Getrero, Tejera et al. | Totality for 2m04s, Observations of the structure of the corona and prominences, meteorological and botanical observations | Eclipse total de sol del 22 de Diciembre de 1870 : memoria de las observaciones verificadas por varios catedráticos del Instituto de Cádiz, unidos a otras personas científicas de estas capital ordenada por Vicente Rubio y Díaz, Francisco F. Fontecha y José Alcolea y Tejera, ed.1871. |
| 6 | 1870 XII 22 | Buenavista/  Gibraltar | - | Newcombs, Sprague | Total eclipse for 1m49s, Baily’s beads noticed, a quite weak corona, red prominences observed, two stars seen | J.G.Wolbach Library. Harvard-Smithsonian Center for Astrophysics. Appendix No. 16. Reports of Observations upon the Total Solar Eclipse of December 22, 1870 (1871) |
| 7 | 1870 XII 22 | Oran | Algeria | Noble | Clouded out | MS Reports of the 1870 Eclipse Expedition, II |
| 8 | 1870 XII 22 | Wahran/Oran | Algeria | Janssen | Janssen used a balloon to escape the German siege of Paris to study the eclipse  but the sky was clouded out. | Launay F.: The Astronomer Jules Janssen: A Globetrotter of Celestial Physics, 2011. |
| 9 | 1870 XII 22 | Syracuse | Sicily, Italy | Hall, Harkness, Eastman, Tupman, Griffith | Total eclipse for 1m45s, polarization of the corona measured, spectroscopic observation accomplished | J.G.Wolbach Library. Harvard-Smithsonian Center for Astrophysics. Appendix No. 16. Reports of Observations upon the Total Solar Eclipse of December 22, 1870 (1871) |
| 10 | 1870 XII 22 | Terranova | Sicily, Italy | Lorenzoni, Muller, Serra, Nobile, Legnazzi et al. | Total eclipse for 1m48s with prominences observed, meteorological observations, planets and stars noticed | A.Secchi : Le Soleil, 1877; Santini G.: Rapporti sulle osservazioni dell'ecclisse totale di sole del 22 dicembre 1870, 1872 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 11 | 1870 XII 22 | Caltagirone | Sicily, Italy | Rosso | Total eclipse observed | A.Secchi : Le Soleil. 1877 |
| 12 | 1870 XII 22 | Palermo | Sicily,Italy | Ricca | Spectroscopic measurements performed | Tacchini P.: Eclissi totali di sole del dicembre 1870, del maggio 1882 e 1883, e dell'agosto 1886 e 1887, 1888; L'eclisse totale di sole del 1870 in Sicilia. Lettere di Pietro Tacchini a Gaetano Cacciatore |
| 13 | 1870 XII 22 | Catania | Sicily,Italy | Hilgard, Peirce, Lockyer et al. | Solar corona and promineneces studied, polarization and spectroscopic measurements performed, totality sketched, meterological measuremets | Nature, III, p.222; Annual Report of the Directory, US Coast and Geodetic Survey, 1873, p.125 |
| 14 | 1870 XII 22 | Catania | Sicily,Italy | Roscoe, Thorpe | Photometric measurements | Philosophical Transactions, 1871, p.467 |
| 15 | 1870 XII 22 | Augusta | Sicily, Italy | Secchi, Donati, Denza, Cacciatore, Blaserna, de Lisa | Total eclipse for 1m52s, solar corona and prominences studied, spectroscopic observations accomplished,  photos of the partial phases and totality taken | A.Secchi : Le Soleil, 1877; Santini G.: Rapporti sulle osservazioni dell'ecclisse totale di sole del 22 dicembre 1870, 1872 |
| 16 | 1870 XII 22 | Augusta | Sicily, Italy | Clifford, Adams | Solar corona studied, measurements of polarization | Monthly Notices of the Royal Astronomical Society, 1871 |
| 17 | 1870 XII 22 | Carlentini | Sicily, Italy | Watson, Modica | Totality seen in a gap in clouds, the 2nd contact recorded, Baily’s beads seen, solar corona sketched | Annual Report of the Directory, US Coast and Geodetic Survey, 1873, p.129 |
| 18 | 1870 XII 22 | Near Capo dell’Armi | Italy | Serpieri, Marchisio, Buffa, Chiantella et al. | Total eclipse for a few secondsat 8 stations, solar corona and prominences studied, the corona seen a long time before totality | A.Secchi : Le Soleil, 1877; Rapporti sulle osservazioni dell'ecclisse totale di sole del 22 dicembre 1870, 1872 |
| 19 | 1870 XII 22 | Saline | Italy | La Chianca,  da Reggio | Total eclipse for 20s, solar corona irregular with rays extended mostly to the north, seven pink promineneces seen, one of them even 1.5 min. after the 3rd contact, Venus and Mercury noticed | Santini G.: Rapporti sulle osservazioni dell'ecclisse totale di sole del 22 dicembre 1870, 1872 |
| 20 | 1870 XII 22 | Girgenti | Italy | Maucini, Cognata et al. | Total eclipse for 1m18s, solar corona with rays and pink prominences seen, Venus, Mercury and Saturn noticed | Santini G.: Rapporti sulle osservazioni dell'ecclisse totale di sole del 22 dicembre 1870, 1872 |
| 21 | 1870 XII 22 | Capodimonte | Italy |  | Measurements of contacts,  meteorogical observations | Santini G.: Rapporti sulle osservazioni dell'ecclisse totale di sole del 22 dicembre 1870, 1872 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 22 | 1870 XII 22 | Roma | Italy | Respighi | The beginning and end recorded,  max.phase 0.92, prominences noticed by spectrometric observations | Osservazione dell’ eclisse solare del 22 Dicembre 1870, all’ Osservatorio del Campidoglio, Roma, Atti Reale Acad., XXIV, 1870-71, p.266. |
| 23 | 1870 XII 22 | Athena | Greece | Schmidt | Partial eclipse seen through clouds, meteorological observations | Astronomische Nachrichten, 77, p.92 |
| 24 | 1870 XII 22 | Altona | Germany | von Lesser, Peters | The beginning and end recorded | Astronomische Nachrichten, 77, p.91 |
| 25 | 1870 XII 22 | Hamburg | Germany | von Pechüle, Rümker | The beginning and end recorded | Astronomische Nachrichten, 77, p.247 |
| 26 | 1870 XII 22 | Leiden | The Netherlands | von Becker, Kaiser, Valentiner | The beginning and end recorded | Astronomische Nachrichten, 77, p.239 |
| 27 | 1870 XII 22 | Lübeck | Germany | von Thiel | The beginning recorded | Astronomische Nachrichten, 77, 1831, p.111 |
| 28 | 1870 XII 22 | Lund | Sweden | Anderson, Dunér | he beginning and end recorded | Astronomische Nachrichten, 77, p.93 |
| 29 | 1870 XII 22 | Milbrook | Ireland | Birmingham | Max. phase 0.811 | Astronomische Nachrichten, 77, p.205 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1882 V 17 | Sohag | Egypt | Tacchini et al. | Total eclipse for 1m15s, spectroscopic observations of the chromosphere, solar corona and four prominences, a comet discovered close to the Sun, the corona width of about 2/3 of the lunar diameter | Tacchini P.: Eclissi totali di sole del dicembre 1870, del maggio 1882 e 1883, e dell'agosto 18836 e 1887, 1888, p.3.Tacchini P.: Sull'eclisse Totale di Sole Del 17 Maggio 1882 Osservato a Sohage in Egitto, Memorie della Societa degli spettroscopisti italiani, 1883, 11, p.1. |
| 2 | 1882 V 17 | Sohag | Egypt | Schuster, Abney, Lockyer | The total eclipse photographed and sketched, a comet discovered close to the Sun, spectrographic measurements performed, flash-spectrum taken, | Proc. of the RAS, XXXV, 225, p.151; Sirius: Zeitschrift für populäre Astronomie, tom 11, 1883, p.261;  Philosophical Transactions, CLXXV, 1884, p.253. |
| 3 | 1882 V 17 | Sohag | Egypt | Thollon, Trépied et al. | The total eclipse photographed, a comet discovered close to the Sun, its brightness similar to that of the solar corona, spectrographic measurements performed | Comptes Rendus, 94, 1882, p.1630, 1636 |
| 4 | 1882 V 17 | Palermo | Italy | Riccò, Cacciatore, Agnello, de Lisa et al. | Contacts recorded, prominences measured, meteorological observations | Memorie della Societa degli spettroscopisti italiani, 1883, 11, p.13. |
| 5 | 1882 V 17 | Roma | Italy | Millosevich et al. | The beginning and end recorded | Memorie della Societa degli spettroscopisti italiani, 1883, 11, p.23. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1887 VIII 19 | Kuprijoniškés | Lithuania | anonymous | Solar corona seen with the use of a binocular in a gap in clouds | Wszechświat, 1887 |
| 2 | 1887 VIII 19 | Klin | Russia | Mendeleev | Mendeleev used a balloon to ascend solo (the baloon pilot was accidentally left on ground!) above the cloud cover to an altitude of 11.500 feet (3.5 km) to observe the eclipse | http://astronomers.ru/eclipse-2008/russian/russian\_eclipses.php |
| 3 | 1887 VIII 19 | nearVyatka/Kirov | Russia | Tacchini, Riccò, Dubiago et el. | The total eclipse in clouds | Tacchini P.: Eclissi totali di sole del dicembre 1870, del maggio 1882 e 1883, e dell'agosto 1836 e 1887, 1888, p.208. |
| 4 | 1887 VIII 19 | Orel | Russia | anonymous | Total eclipse behind clouds, great darkness | Otechestvennye Zapiski, 1842 |
| 5 | 1887 VIII 19 | Petrovsk | Russia | Glasenapp, Kononovich,  Stanoevich | Spectral measurements of corona | Der Naturforscher, 20, 1887, p.393 |
| 6 | 1887 VIII 19 | Mezhdurechensk | Russia | anonymous | Almost total eclipse, stars seen | Amtliches Kreisblatt für den Mansfelder Seekreis,Neunundfünfzigster Jahrgang Nr. 197  Donnerstag den 25. August |
| 7 | 1887 VIII 19 | Youryevts | Russia | Belopolski | Photos of solar corona made | http://astronomers.ru/eclipse-2008/russian/russian\_eclipses.php |
| 8 | 1887 VIII 19 | Youryevts | Russia | Sternberg, Niesten, Vogel | Total eclipse observed, chromosphere and prominences noticed | http://astronomers.ru/eclipse-2008/russian/russian\_eclipses.php |
| 9 | 1887 VIII 19 | Pogost | Russia | Bredikhin, Copeland, Perry | Total eclipse observed for a very short time in a gap in clouds, some spectral measuremets made | http://astronomers.ru/eclipse-2008/russian/russian\_eclipses.php;  MNRAS, vol. 48, p. 48-54. |
| 10 | 1887 VIII 19 | Mount Blagodat’/Ural | Russia | Handrikov et al. | Total eclipse observed, Baily’s beads noticed, chromosphere observed, solar corona with its rays studied, prominences observed, planets and stras seen | Tacchini P.: Eclissi totali di sole del dicembre 1870, del maggio 1882 e 1883, e dell'agosto 1836 e 1887, 1888, p.221;Archives des sciences physiques et naturelles, tom 20, 1888, p.292 |
| 11 | 1887 VIII 19 | Nizhniy Novgorod | Russia | Karelin | Ptos of the total eclipse taken | Tacchini P.: Eclissi totali di sole del dicembre 1870, del maggio 1882 e 1883, e dell'agosto 1836 e 1887, 1888, p.221;Archives des sciences physiques et naturelles, tom 20, 1888, p.292 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 12 | 1887 VIII 19 | Ekaterynburg | Russia |  | Almost total eclipse seen, temperature measurements | Sirius: Zeitschrift für populäre Astronomie, Tom 20, 1887, p.213 |
| 13 | 1887 VIII 19 | Novocherkask | Russia |  | Partial eclipse seen | Sirius: Zeitschrift für populäre Astronomie, Tom 20, 1887, p.212 |
| 14 | 1887 VIII 19 | Krasnoyarsk | Russia | Kapustin, Popov et al. | Photometric measurements, photos of solar corona made | http://astronomers.ru/eclipse-2008/russian/russian\_eclipses.php |
| 15 | 1887 VIII 19 | Krasnoyarsk | Russia | Kozłowski | Total eclipse for ,  Flash spectrum of the solar chromosphere observed | Zaćmienie słońca w Krasnojarsku. Rozprawy i Sprawozdania z Posiedzeń Wydziału Matematyczno-przyrodniczego Akademii Umiejętności, t. XVIII), 1888. |
| 16 | 1887 VIII 19 | Tomsk | Russia |  | Total eclipse and solar corona observed, stars seen | Amtliches Kreisblatt für den Mansfelder Seekreis,Neunundfünfzigster Jahrgang Nr. 197  Donnerstag den 25. August |
| 17 | 1887 VIII 19 | Irbit | Russia |  | Total eclipse for 1.5m | Sirius: Zeitschrift für populäre Astronomie, Tom 20, 1887, p.212 |
| 18 | 1887 VIII 19 | Roma | Italy | Chistoni | Prominences measured | Tacchini P.: Eclissi totali di sole del dicembre 1870, del maggio 1882 e 1883, e dell'agosto 1836 e 1887, 1888, p.223; |
| 19 | 1887 VIII 19 | Palermo | Italy | Mascari | Prominences measured | Tacchini P.: Eclissi totali di sole del dicembre 1870, del maggio 1882 e 1883, e dell'agosto 1836 e 1887, 1888, p.223; |
| 20 | 1887 VIII 19 | Bromberg/  Bydgoszcz | Prussia/  Poland | Köveslighety, Konkoly et al. | Total eclipse in clouds | Astronomische Nachrichten, t.116, 1887, 2802, p.295 |
| 21 | 1887 VIII 19 | Outskirts of Berlin | Germany | von Spiessen, Moser | Parrtly clouded out, solar crescent and stars seen in gaps in clouds during totality, lunar shadow in clouds noticed | Astronomische Nachrichten, t.116, 1887, 2802, p.295 |
| 22 | 1887 VIII 19 | Frankfurt a.O. | Germany | Lachmann | Great darkness for about 3m, clouded out | Astronomische Nachrichten, t.116, 1887, 2802, p.311 |
| 23 | 1887 VIII 19 | Posen/  Poznań | Prussia/Poland | - | Great darkness, clouded out | Orędownik, 1887.08.20 |
| 24 | 1887 VIII 19 | Kolmar/  Chodzież | Prussia/  Poland | Körber, Reimann | Great darkness for about 2.5m, clouded out | Astronomische Nachrichten, t.116, 1887, 2802, p.312 |
| 25 | 1887 VIII 19 | Mława | Poland | Głowacki (Prus) | Great darkness, clouded out | Bolesław Prus, 1847-1912: kalendarz życia i twórczości, 1969, p.370 |
| 26 | 1887 VIII 19 | Szulmierz | Poland | Żeromski | Great darkness for 45s, clouded out | Żeromski S.: Pamiętnik, 1987.08.19 |
| 27 | 1887 VIII 19 | Vilnius | Lithuania | Jędrzejewicz et al. | Total eclipse seen through clouds, one star noticed in a gap in clouds | Słowo, Gazeta Polska 1887.08.20 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1896 VIII 9 | Bodø | Norway | Lous | The eclipse seen through clouds, solar corona and prominences observed and sketched | Journ. of the BAA, 101, 3, 1991, p.162;  Geelmuyden H.: Quelques observationsde l’éclipse du soleil 1896 août 8 ; Brester A. : The Total Solar Eclipse of August 9, 1896, as observed in a Cloudless Sky at Bodö, Nature, 54, 1896, p.390. |
| 2 | 1896 VIII 9 | Brevik | Norway | Dover | Total eclipse for 1m32s, irregular solar corona and prominences observed, Venus, Jupiter, Mercury and Regulus seen | Times, 1896.08.11 |
| 3 | 1896 VIII 9 | Stottvaer | Norway | Proctor | The eclipse for 1m35s seen in the cloudless sky, drawings of the corona made, prominences seen, Venus, Jupiter and Mercury noticed | Trans. of the Astr. and Phys. Soc. of Tornto, 1896, p.54 |
| 4 | 1896 VIII 9 | Vadsø | Norway | Maunder, Crommelin, Lunt, Downing, Copeland, Ramsay, Lockyer, Common, Schröter et al. | Total eclipse for 1m40s behind the clouds | Journ. of the BAA, 101, 3, 1991, p.162;  Proc. of the Roy.Soc. of Edinburgh, 21, p.489;  Ball R.: The total eclipse of 1896, BAA. |
| 5 | 1896 VIII 9 | Siikavuopio/ Siikavaara | Finland | Kaulbars, Sykora, Rydzewski, Wójcikowski | Total eclipse for 1m40sphotographed in the cloudless sky, | Kaulbars N.: Russian Observations of the Corona of August 9, 1896, Nature, 55, 1897, p.298; Memorie della Societa Degli Spettroscopisti Italiani, vol. 25, 1896, p.217. |
| 6 | 1896 VIII 9 | An island at Novaya Zemlya | Russia | Shackelton, Stone, Clerke, Baden-Powell, Richards, et al. | Total eclipse for 1m50sseen, spectroscopic observations, flash spectrum of the reversing layer obtained, Venus, Jupiter and Mercury noticed; solar eclipse photographed | Journ. of the BAA, 101, 3, 1991, p.162;  Stone E.J.: Observations of the Solar Eclipse , 1986 August 8, at Novaya Zemlya, Memories of the RAS, 53, 1899, p.1;  Lockyer N.: Preliminary Report …, Phil.Trans. 189, 1897, p.259. |
| 7 | 1896 VIII 9 | M.Karmakuly/  Novaya Zemlya | Russia | Baklund, Golitsyn, Ganskiy, Kostinskiy | Total eclipse for 1m48s,  Solar eclipse photographed,  Venus, Jupiter, Mercury and Regulus seen, chromosphere noticed, some clouds | Baklund O.: Polnoe solnechnoe zatmenie 28-go julija (9-go avgusta) 1896 g. Nabludenija v Malykh Karmakulakh. Izw. Imp.Akad.Nauk, 1897, 1, p.1; Astronomische Nachrichten, 143, 3410, 1896, p17. |
| 8 | 1896 VIII 9 | Estuary of Yenisey river | Russia | Kapustin, Galanin | Investigating changes in atmospheric electricity caused by radiation from the sun during the eclipse | http://astronomers.ru/eclipse-2008/russian/eclipse/1896.php |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 9 | 1896 VIII 9 | Orlovskoye | Russia | Wittram, Belopolsky | Total eclipse observed through clouds, the eclipse photographed | Wittram , Th . Die totale Sonnenfinsternis am 9 . August 1896 . Beobachtungen in Orlowskoje am Amur, St .Petersburg, Acad . Impér . Sci . Bull . S .5 . T .6 . 1897. p.297 |
| 10 | 1896 VIII 9 | Oslo | Norway | - | Cloudet out | Geelmuyden H.: Quelques observationsde l’éclipse du soleil 1896 août 8. |
| 11 | 1896 VIII 9 | Athena | Greece | Eginitis | The end recorded | Annales de l'Observatoire National d'Athènes, vol. 2, 1899, p.25. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1900 V 28 | Ovar | Portugal | Gibbs, Chambers, Smith, Jost | Total eclipse admired | Maunder E.W.: The total solar eclipse, 1900: Report of the Expeditions Organized by the British Astronomical Association to Observe the Total Solar Eclipse of 1900, May 28, p.26. |
| 2 | 1900 V 28 | Ovar | Portugal | Morford, Nielsen, | Total eclipse admired | Maunder E.W.: The total solar eclipse, 1900: Report of the Expeditions Organized by the British Astronomical Association to Observe the Total Solar Eclipse of 1900, May 28, p.28. |
| 3 | 1900 V 28 | Estarreja | Portugal | Slade | A bright eclipse, solar corona with some rays observed, small prominences noticed, | Maunder E.W.: The total solar eclipse, 1900: Report of the Expeditions Organized by the British Astronomical Association to Observe the Total Solar Eclipse of 1900, May 28, p.28. |
| 4 | 1900 V 28 | Elche | Spain | Comas i Solá et al. | Total eclipse observed in details | Memòries, 4,4, 1902;  Comas Solá J.: El eclipse de Sol del 28 mayo 1900, Astronomische Nachrichten, 153, 5, 1900, p.85. |
| 5 | 1900 V 28 | Elche | Spain | Flammarion,  Johnson,Willis et al. | Total eclipse observed in details, solar corona noticed before the 2nd contact, totality photographed, Venus and Mercury seen, | The Flammarion Book of Astronomy, 1964, p.147; Flammarion C.: Astronomy for Amateurs, 1918, p.281; Maunder E.W.: The total solar eclipse, 1900: Report of the Expeditions Organized by the British Astronomical Association to Observe the Total Solar Eclipse of 1900, May 28, p.48. |
| 6 | 1900 V 28 | Santa Pola | Spain | Copeland,  McPherson et al. | Baily’s beads notices, solar corona structure studied, Venus and Mercury noticed, total phase photographed, spectrographic measurements performed, | Copeland R.: Preliminary note on observations of the total solar eclipse of 1900 May 28, made at Santa Pola, Royal Soc., 67, 1901, p.385. |
| 7 | 1900 V 28 | Santa Pola | Spain | Lockyer, Fowler, Payn et al. | Total eclipse for 1m15s,spectrographic photographs for the corona, chromosphere and prominences taken, solar corona structure studied, Venus, Mercury, Betelgeuze and Aldebaran noticed | Lockyer N.:  Total eclipse of the sun, May 28, 1900. Account of the observations made by the solar physics observatory eclipse expedition and the officers and men of H. M. S. “Theseus” at Santa Pola, Spain, Royal Soc., 67, 1901, p.375. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 8 | 1900 V 28 | Plasencia | Spain | Iniguez, Ventosa, Puente, Ascarza, Romeo, Tarazona, Jimenez | Total eclipse observed in detail | Observaciones del eclipse total del 28 de Mayo de 1900 verificadas en Plasencia por la comisión oficial, Madrid 1900.5 |
| 9 | 1900 V 28 | Plasencia | Spain | Downing, Grubb,  et al. | Totality photographed, solar corona bright and elongated, two prominences noticed, | Maunder E.W.: The total solar eclipse, 1900; Report of the expeditions organized by the British Astronomical Association to observe the total solar eclipse of 1900, May 28, 1901, p.31. |
| 10 | 1900 V 28 | Near Plasencia | Spain | Backhouse, Sharp, Weir, at al. | Total eclipse for 1m28s admired, Venus and Mercury seen, totality sketched | Maunder E.W.: The total solar eclipse, 1900; Report of the expeditions organized by the British Astronomical Association to observe the total solar eclipse of 1900, May 28, 1901, p.34. |
| 11 | 1900 V 28 | Navalmoral | Spain | Whitmell, Sanley, Stokes, Buckley | Total eclipse admired, totality sketched | Maunder E.W.: The total solar eclipse, 1900; Report of the expeditions organized by the British Astronomical Association to observe the total solar eclipse of 1900, May 28, 1901, p.37. |
| 12 | 1900 V 28 | Manzanares | Spain | Moore, Carpenter | Total eclipse for 1m00s, solar corona drawn | Maunder E.W.: The total solar eclipse, 1900; Report of the expeditions organized by the British Astronomical Association to observe the total solar eclipse of 1900, May 28, 1901, p.40. |
| 13 | 1900 V 28 | Palma-de-Mallorca | Spain | Alcantara Pena | The beginning and end recorded, max.phase 0.94-0.95, twilight effects, Venus, Regulus and Sirius noticed | Bulletin de la Societe Astronomique de France..., 14, 1900, p.408 |
| 14 | 1900 V 28 | A Coruna | Spain | Sellier | Almost total eclipse photographed | Bulletin de la Societe Astronomique de France..., 14, 1900, p.411 |
| 15 | 1900 V 28 | Algiers | Algeria | Maunder, Crommelin, Evershed, Dickinson, Pearce et al. | Total eclipse for 1m05s, solar corona and protuberances observed, eclipse photographs taken and sketched | Maunder E.W.: The total solar eclipse, 1900; Report of the expeditions organized by the British Astronomical Association to observe the total solar eclipse of 1900, May 28, 1901, p.57. |
| 16 | 1900 V 28 | Lamoriciére | Algeria | Cureyros | Almost total eclipse in thr hazy sky33 | Bulletin de la Societe Astronomique de France..., 14, 1900, p.403 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 17 | 1900 V 28 | On the Atlantic Ocean, RMS “Austral” | - | Markwick et al. | Total eclipse for 1m31s, solar corona width of the Sun’s diameter, solar corona with its rays sketched, prominences noticed, Venus, Mercury, Sirius and Aldebaran noticed | Maunder E.W.: The total solar eclipse, 1900; Report of the expeditions organized by the British Astronomical Association to observe the total solar eclipse of 1900, May 28, 1901, p.18. |
| 18 | 1900 V 28 | Lyon | France | Le Calet, Luizet, Guillaume | The beginning and end recorded | Bulletin de la Societe Astronomique de France..., 14, 1900, p.394 |
| 19 | 1900 V 28 | Toulouse | France | Montangerand, Rossard, Besson | The beginning and end recorded, photos of the partial eclipse taken, Venus noticed | Bulletin de la Societe Astronomique de France..., 14, 1900, p.395 |
| 20 | 1900 V 28 | Nice | France | Perrotin, Javelle | The beginning and end recorded | Bulletin de la Societe Astronomique de France..., 14, 1900, p.396 |
| 21 | 1900 V 28 | Bordeaux | France | Doublet, Rayet, Esclangon | The beginning and end recorded, max.phase 0.83, twilight effects noticed | Bulletin de la Societe Astronomique de France..., 14, 1900, p.396 |
| 22 | 1900 V 28 | Pic du Midi | France | Violle, Marchand, Gines | Acinometric measurements | Bulletin de la Societe Astronomique de France..., 14, 1900, p.399 |
| 23 | 1900 V 28 | Montpellier | France | Bosc | Max.phase 0.850 | Bulletin de la Societe Astronomique de France..., 14, 1900, p.403 |
| 24 | 1900 V 28 | Marseille | France | Guérin et al. | Partial eclipse photographed, twilight effects noticed | Bulletin de la Societe Astronomique de France..., 14, 1900, p.404 |
| 25 | 1900 V 28 | Frontignan | France | Ladoux | The neginning recorded | Bulletin de la Societe Astronomique de France..., 14, 1900, p.405 |
| 26 | 1900 V 28 | Munster | France | Léonhart | The end recorded | Bulletin de la Societe Astronomique de France..., 14, 1900, p.405 |
| 27 | 1900 V 28 | Ile de Ré | France | Magué et al. | The beginning and end recorded, max.phase 0.810, twilight effects noticed | Bulletin de la Societe Astronomique de France..., 14, 1900, p.405 |
| 28 | 1900 V 28 | Paris | France | Touchet, Senouque, Chrétien | Partial eclipse observed through clouds | Bulletin de la Societe Astronomique de France..., 14, 1900, p.411 |
| 29 | 1900 V 28 | Paris | France | Mailhat | Partial eclipse photographed through clouds | Bulletin de la Societe Astronomique de France..., 14, 1900, p.407 |
| 30 | 1900 V 28 | Santa Cruz/Tenerife | Spain | Valderrama | Partial eclipse observed, the end recorded | Bulletin de la Societe Astronomique de France..., 14, 1900, p.412 |
| 31 | 1900 V 28 | Praha | Bohemia | Weinek, Hlavaty, Dörr | Partial eclipse observed through thin clouds; the beginning and end recorded | Astronomische Beobachtungen: an der K. K. Sternwarte zu Prag, Tom 5, 1900-1904, 1907, p.46; Astronomische Nachrichten, 153, p.268 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 32 | 1900 V 28 | Mount  Sonnenwendstein | Austria | Kostersitz | Partial eclipse photographed | Astronomische Nachrichten, 153, 1900, p.266; Kostersitz K.: Sonnenfinsternis am 28. Mai 1900, aufgenommen am Sonnenwendstein in Niederösterreich, 1900. |
| 33 | 1900 V 28 | Lvov | Ukraine | Láska | The beginning and end recorded | Astronomische Nachrichten, 152, 1900, p.326 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1905 VIII 30 | Vinaròs | Spain | Comas i Solà | Total eclipse observed, photographs obtained, structure of the solar corona studied, spectrophotometry used | Memorias, V,24, 1906 |
| 2 | 1905 VIII 30 | Vinaròs | Spain | Cortie, Goeckel, et al. | Totality for 3m36s, partly covered by a cloud, the eclipse filmed | The Total Solar Eclipse of 1905, August 30. Report of the Stonyhurst College Expedition to Vinaroz, Spain, Trans. Roy. Irish Acad., 33,1906/07, p.1. |
| 3 | 1905 VIII 30 | Burgos | Spain | Archenhold, Johnston | Total eclipse photographed | Archenhold F.S .: Vorläufige Mitteilung über unsere Beobachtung der totalen Sonnenfinsternis am 30. August 1905 in Burgos, Weltall, 5, 1905, p.415 |
| 4 | 1905 VIII 30 | Burgos | Spain | king Alfons XIII, Íñiguez et al., Gómez et al.,Deslandres et al. | Total eclipse with solar corona observed through clouds | Note préliminaire sur l'observation de l'éclipse totale du Soleil du 30 août 1905 , à Burgos, 517, 142, 1906 ;  Comptes Rendus, 141, 1905 p.417 |
| 5 | 1905 VIII 30 | Burgos | Spain | Rayet, Courty et al. | Total eclipse photographed, asymmetric solar corona with some rays seen, some clouds around the Sun | Rayet M.G., Courty M.F.: Rapport sur les observations faites a Burgos (Espagne)... Annales du Bureau des Longitude, 1911 |
| 6 | 1905 VIII 30 | Pineda de la Sierra | Spain | Evershed, White, Slater, | The solar corona UV spectrum and flash spectrum taken, prominences observed | Evershed J.: Report of the Expedition to Pineda de la Sierra, Spain, Proc. of the Roy. Soc. of London,77, 514, 1906, p. 42. |
| 7 | 1905 VIII 30 | Alhama de Aragón | Spain | Campbell, McKinney, Perrine et al., Arrhenius et al., Hartmann et al. | The expedition from the Lick Observatory took a Jumbo telescope with it.Total eclipse seen for 3m38sthrough thin clouds, totality photographed, prominences observed, spectrographs obtained, flash spectrum taken, | Campbell W.W, Perrine C.D.: The Lick Observatory-Crocker Eclipse Expedition to Spain, Astr. Soc. of Pacific, 18, 106, 1906, p.13. |
| 8 | 1905 VIII 30 | Almazán | Spain | Flammarion, Gama, Sarlat, Miller et al. | Total eclipse photographed through clouds | The Astrophysical Journal, 23-24, 106, p.93. |
| 9 | 1905 VIII 30 | Carrión de los Condes | Spain | Jesuits | Total eclipse for 3m35s, solar corona and prominences photographed, spectroscopic observations performed,  some stars seen through clouds | Guevara L.:Eclipse total de sol del 30 de agosto de 1905. Observaciones hechas en Carrión de los Condes (Palencia), 1905. |
| 10 | 1905 VIII 30 | Cistierna | Spain | Baillaud, Lebeuf, Chofardet, Puiseux, Baillaud, Gautier, et al. | Astrometric observations, photos of the eclipse taken | L’éclipse totale de soleildu 29-30 aout 1905 a Cistierna, province de Léon (Espagne), Rapport A.Lebeufet P.Chofardet. Annales du Bureau des Longitude, 1911. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 11 | 1905 VIII 30 | Daroca | Spain | Bigelow, et al | Solar corona structure studied, polarimetric and spectrometric measuremenrs performed, chromosphere studied,  shadow bands observed, | Total eclipse of August 30, 1905, Report of the station at Daroca, Publications of the United States Naval Observatory, 1926, p. B17. |
| 12 | 1905 VIII 30 | Porta Coeli | Spain | Scrivener, Strause,  Chester, Hayden, Litelli, Peters et al. | Total eclipse for 1m45s,  totality photographed, solar corona structure and prominences studied, spectrographs taken, solar corona seen shortly before and after the totality | Total eclipse of August 30, 1905, Report of the station at Porta Coeli,Spain, Publications of the United States Naval Observatory, 1926, p. B117. |
| 13 | 1905 VIII 30 | Capricorp | Spain | Miller et al. | Total eclipse for 3m38s, total eclipse sketched, shadow bands observed, venus and Arcturus noticed | Report on the obsevations off Caprocorp, Spain on the U.S.S. Minneapolis, Publications of the United States Naval Observatory, 1926, p. B176. |
| 14 | 1905 VIII 30 | Soria | Spain | de Azcárate, Churruca,  Guino | A sketch of the eclipse | Anales. Publicados de orden de la Superioridad por el director Tomás de Azcárate. Sección 1: Eclipse total de sol del 30 de agosto de 1905 |
| 15 | 1905 VIII 30 | Caspe | Spain | Müller | Totality for 2 minutes, protuberances observed | Memorias, V,24, 1906 |
| 16 | 1905 VIII 30 | Castellón de la Plana | Spain | Fowler, Rayner, Callendar et.al. | Total eclipse for 3m26s, prominences observed |  |
| 17 | 1905 VIII 30 | Roquetas/  Tortosa | Spain | Cirera, Fanra, Balasch, Bigelow, André, Guillaume, Le Cadet, de Chomóna | Total eclipse, contacs recorded,  The eclipse filmed (no copies preserved) | Report on the total solar eclipse of August 30, 1905, US Naval Observatory, 1926.  André, C. L. F. : Rapport sur les observations faites à Roquetas (Espagne), à l'occasion de l'éclipse totale de Soleil du 30 août 1905 Annales du Bureau des Longitudes, 8, 1911, p.I1. |
| 18 | 1905 VIII 30 | Torreblanca | Spain | Mengarini, Costa,re et al. | Total eclipse photographed in three colours | The British Journal of Photography, tom 53, 1906, p.505. |
| 19 | 1905 VIII 30 | Alcalà de Xivert | Spain | de la Baume  Pluvinel, Perrotin, Janssen, et al., Riccò et al., Donich et al. | Total eclipse for 3m42s, photograhed, prominences studied, Baily’s beads noticed, spectrographs taken | Davoust F.: The solar eclipse of August 30, 1905 at Alcala de Chisvert, 2020.;  Riccò, A.: Eclisse Solare del 30 Agosto 1905. N. 6. Osservazioni fatte ad Alcalà de Chivert, Memorie della Societa Degli Spettroscopisti Italiani, vol. 35,1906, p.107. |
| 20 | 1905 VIII 30 | Sagunt/Valencia | Spain | Llagaria, Garcés et al. | Grazing total eclipse observed, solar corona noticed,  Venus and Sirius seen, | Caballé M.C.: Eclipses totales de Sol en Castelló de la Plana 1860 y 1905, 2005. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 21 | 1905 VIII 30 | Alcossebre | Spain | Janssen, Ganskiy, Stefanik et al. | Total eclipse for 3m42s ,photographed , spectral measurements performed including photographs of the inverse layer of the corona, polarization of the corona studied, Venus, Mercury and stars noticed, prominences studied | <https://descubrealcossebre.wordpress.com/2015/05/19/eclipse-de-sol-en-alcossebre-1905/>;  Caballé M.C.: Eclipses totales de Sol en Castelló de la Plana 1860 y 1905, 2005 |
| 22 | 1905 VIII 30 | Tarragona | Spain | Sastre | Big partial eclipse, darkness, Venus seen | Memorias, V,24, 1906 |
| 23 | 1905 VIII 30 | Palma de Mallorca | Spain | Lockyer, et al. | Total eclipse, solar corona with prominences photographed, spectrocopic measuremets performed | Report of the Solar Eclipse Expedition to Palma, Majorca, August 30, 1905, H.M. Stationery Office, 1907; Lockyer W.: The Solar Physics Observatory Eclipse Expedition, Nature, 72, 1905, p.508 |
| 24 | 1905 VIII 30 | Flix | Spain |  | Almost total eclipse seen | Memorias, V,24, 1906 |
| 25 | 1905 VIII 30 | Barcelona | Spain | de Castro, J.Fatjer, Sans, Domingo | Big partial eclipse, Venus and two stars visible | Memorias, V,24, 1906 |
| 26 | 1905 VIII 30 | Barcelona-Fabra | Spain | Jardi, Polit, Roy | Deep partial eclipse observed and photographed, meteorological observations performed | Memorias, V,24, 1906 |
| 27 | 1905 VIII 30 | Esparraguera | Spain | Almirall | Deep partial eclipse, Venus seen, solar corona invisible | Memorias, V,24, 1906 |
| 28 | 1905 VIII 30 | Madrid | Spain | Many people | Almost total eclipse seen, solar corona studied, Venus noticed for 20m‑ | Caballé M.C.: Eclipses totales de Sol en Castelló de la Plana 1860 y 1905, 2005. |
| 29 | 1905 VIII 30 | Alger | Algeria | Renaux, Trépied, Sy, et al. | Partial and total eclipse photographed,  four planets and stars seen | Renaux J. : Observations de l'éclipse de Soleil du 30 août 1905. Rapport de la Mission d'Alger. Annales du Bureau des Longitude, 1911. |
| 30 | 1905 VIII 30 | Emdjez Edchich (Robertville) | Algeria | Salet | Total eclipse, spectrometric and polarization observations performed | Salet M.P. : Observation de l’éclipse totale du 30 août 1905 faite a Robertville (Algérie). Annales du Bureau des Longitude, 1911. |
| 31 | 1905 VIII 30 | Skikda (Philippeville) | Algeria | Nordmann,  Porter, Cofox, Piltchikov | Geophysical measurements | Porter T.C., Colfox W.P.: Report of private expedition to Philippeville, Algeria, to view the total eclipse of the sun, August 30, 1905, 1907. |
| 32 | 1905 VIII 30 | Souk Ahras | Algeria | Schorr, Knopf, Schwassman, Beyermann | Total eclipse for 3m33s, Baily’s beads remarked, chromosphere, protuberances and corona observed, photographs made | Vortr. Des Ver. z. Verbr. Nat. Kenntn., Wien, XLVI, 14, 1906 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 33 | 1905 VIII 30 | Guelma | Algeria | Norris et al.  Wolfer, Stephan | Total eclipse for 3m32s photographed, protuberances observed, spectroscopic and polarographic observations performed, solar corona structure studied | Report on the total solar eclipse of August 30, 1905, US Naval Observatory, 1926.  Stephan C.E.: Rapportsur l’observation l’éclipse totale de soleil du 30 aout 1905 a Guelma (Algérie), Annales du Bureau des Longitudes, 8,1911, p.L1.  Montangerand M.L. : Observation de l’éclipse totale de soleil du 30 aout 1905 a Guelma (Algerie), Annales du Bureau des Longitudes, 8, 1911, p.P1. |
| 34 | 1905 VIII 30 | Bona | Algeria | Doddridge et al. | Total eclipse for 2m55s, shadow bands observed,  Venus and three stars seen | Report on the total solar eclipse of August 30, 1905, US Naval Observatory, 1926 |
| 35 | 1905 VIII 30 | El-Harrouch | Algeria | Andoyer | Solar corona of a regular shape and prominences observed, the totality photographed | Comptes Rendus, 41, 1905, p.519 |
| 36 | 1905 VIII 30 | Sfax | Tunisia | Bigourdan, Moreux, Eysséric | Total eclipse for 3m25s, Baily’s beads noticed, prominences and solar corona observed, flying shadows noticed, spcerophotography and photometry performed | Bigourdan, G.: Rapport sur les Observations faites à Sfax (Tunisie) à l'occasion de l'éclipse totale du Soleil du 29-30 août 1905, Annales du Bureau des Longitudes, 8,1911, p.A1. |
| 37 | 1905 VIII 30 | Assuan | Egypt | Meyer, et al.,  Hussey, et al., Okulich et al. | Total eclipse observed, prominences notices, Venus and some stars seen, totality photographed | Meyer M.W.: Ägyptische Finsternis, 1906.;  Hussey E.F.: The Recent Eclipse in Egypt, Popular Astronomy, 14, 1906, p.129. |
| 38 | 1905 VIII 30 | Bordeaux | France | Esclangon et al. | Polarymetric and meterological observations performed from a ballon  during a deep parial eclipse | Esclangon E.: Observations faites a Bordeaux et en ballon ...  Annales du Bureau des Longitude, 1911. |
| 39 | 1905 VIII 30 | Aosta | Italy | Jehl | The beginning and end recorded, prominences with the use of a spectrograph studied | Comptes Rendus, 1905, p.648 |
| 40 | 1905 VIII 30 | Paris | France | Bouquet et al. | The beginning and end recorded, partial eclipse photographed, diminishing of light noticed | Comptes Rendus, 1905, p.446 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 41 | 1905 VIII 30 | Praha | Bohemia | Dörr | Partial eclipse observed through clouds; the beginning recorded | Astronomische Beobachtungen an der K.K. Sternwarte zu Prag im Jahre 1900-1905, 1907, p.50. |
| 42 | 1905 VIII 30 | Kraków | Hungary-Austria/  Poland | Grabowski | The end recorded | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), [170, 14](https://onlinelibrary.wiley.com/toc/15213994/1905/170/14), 1905,  p. 219. |
| 43 | 1905 VIII 30 | Athena | Greece | Eginitis, Terzakis | The beginning and end recorded,  a dimishing of light noticed | Comptes Rendus, 41, 1905, p.520 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1912 IV 17 | near Ovar | Portugal | Butler | Total eclipse during less than 1 second noticed | The Observatory, 1912, p.193 |
| 2 | 1912 IV 17 | near Ovar | Portugal | Worthington | One photo of very short total eclipse,  a trace of solar corona seen | The Observatory, 1912, p.193 |
| 3 | 1912 IV 17 | near Ovar | Portugal | Salet | Almost central eclipse seen | The Observatory, 1912, p.195;Comptes Rendus, 1912 Apr.22 |
| 4 | 1912 IV 17 | near Ovar | Portugal | Costa Lobo | The central eclipse filmed and analysed | Journal of Astronomical History and Heritage, 13,2,2010, p.159. |
| 5 | 1912 IV 17 | Barco de Valdeorras | Spain | Comas-i-Solá | The central eclipse filmed | Journal of Astronomical History and Heritage, 13,2,2010, p.162. |
| 6 | 1912 IV 17 | Cacabelos | Spain | Viès, Carvallo | Almost central eclipse filmed | Journal of Astronomical History and Heritage, 13,2,2010, p.162. |
| 7 | 1912 IV 17 | St.Germain-en-Laye | France | Willis, Nash | Almost central eclipse phptographed, Baily’s beads, chromosphere and prominences noticed, a trace of solar corona observed | The Observatory, 1912, p.234 |
| 8 | 1912 IV 17 | St.Germain-en-Laye | France | de la Baume-Pluvinel | The central eclipse filmed | Journal of Astronomical History and Heritage, 13,2,2010, p.162; Comptes Rendus, CLIV, p.1140. |
| 9 | 1912 IV 17 | Grand-Croix | France | Gaumont | The central eclipse filmed | Journal of Astronomical History and Heritage, 13,2,2010, p.162. |
| 10 | 1912 IV 17 | Near St.Germain-en-Laye | France | Many people | The annular eclipse mostly seen, Baily’s beads noticed, Venus and Mercury seen, some spectrographic observations performed | The Observatory, 1912, p.193;Popular Astronomy, 20, 1912, p. 372. |
| 11 | 1912 IV 17 | Meudon | France | Deslandres, Perrot, et al. | Spectrographic and physical observations performed | The Observatory, 1912, p.194 |
| 12 | 1912 IV 17 | Grignon | France | Baillaud | Annular eclipse observed at its northern limit | The Observatory, 1912, p.194;Comptes Rendus, 1912 Apr.22 |
| 13 | 1912 IV 17 | Cormeilles-en-Parisis | France | Bigourdan, Eysséric, Fabry | Central annular eclipse for 4s estimated | The Observatory, 1912, p.194;Comptes Rendus, CLIV, 1912, p.1028 et al. Annales de l'Observatoire de Paris. Memoires ; t. 30, 1914, p. C16. |
| 14 | 1912 IV 17 | Near Chartres | France | Hepburn | A photo of the annular eclipse close to its limit | The Observatory, 1912, p.194;Comptes Rendus, 1912 Apr.22 |
| 15 | 1912 IV 17 | Between Trappes and Neauphle | France | A group of 400 pupils | Deep partial or annular eclipse seen depending on locations | The Observatory, 1912, p.194;Comptes Rendus, 1912 Apr.22 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 16 | 1912 IV 17 | Château of Talmont | France | Esclangon, Stéphan | A perfect central eclipse with Baily’s beads around the Moon noticed, | The Observatory, 1912, p.195;Comptes Rendus, 1912 Apr.22; Annales de l'Observatoire de Paris. Memoires ; t. 30, 1914, p. C12. |
| 17 | 1912 IV 17 | Saint-Nom-la-Bretêche | France | Danjon | Central eclipse photographed | L’Astronomie, 5, 1912. |
| 18 | 1912 IV 17 | Grignon | France | Lancelin | Annular eclipse for 7s,  the beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C14;Comptes Rendus, CLIV, p.1034. |
| 19 | 1912 IV 17 | Seugy | France | de Vannsay | Annular eclipse for 17s, | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C17;Comptes Rendus, CLIV, 1912, p.1201. |
| 20 | 1912 IV 17 | Luzarches | France | Cot, Boutan | Annular eclipse seen,  the beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C17;Comptes Rendus, CLIV, p.1201. |
| 21 | 1912 IV 17 | Lassy | France | Courtier, Ricard | Annular eclipse for 5s,  the beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C18;Comptes Rendus, CLIV, 1912, p.1201. |
| 22 | 1912 IV 17 | Verberie | France | Durand | Annular eclipse for 6s, Baily’s beads noticed,  the beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C18;Comptes Rendus, CLIV, 1912, p.1334. |
| 23 | 1912 IV 17 | Saintines | France | Levesque | Annular eclipse for 8s,  the beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C18;Comptes Rendus, CLIV, 1912, p.1334. |
| 24 | 1912 IV 17 | Montbliard | France | Lecointe | Annular eclipse for 8s, Baily’s beads noticed  the beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C19 |
| 25 | 1912 IV 17 | Rance | France | Stroobant et al. | Baily’s beads noticed | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C19-20 |
| 26 | 1912 IV 17 | Malonne | France | Somville | Annular eclipse, the beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C20 |
| 27 | 1912 IV 17 | Solve-Sain-Géry | France | Casteels, Delporte | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C20 |
| 28 | 1912 IV 17 | Béthisy-Saint-Pierre | France | Viviez | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C19;Comptes Rendus, CLIV, 1912, p.1334. |
| 29 | 1912 IV 17 | Lille | France | Jonckheere | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires, t. 30, 1914, p. C19; |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 30 | 1912 IV 17 | Lyon | France | Perrigot | Deep partial eclipse filmed from a screen | Journal of Astronomical History and Heritage, 13,2,2010, p.162. |
| 31 | 1912 IV 17 | Lyon | France | Guillaume et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C21; Comptes Rendus, CLIV, 1912, p.1056. |
| 32 | 1912 IV 17 | Marseille | France | Bourget et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C22;Comptes Rendus, CLIV, 1912, p.1072. |
| 33 | 1912 IV 17 | Besançon | France | Brück-Perrot et al. | The beginning recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C22;Comptes Rendus, CLIV, 1912, p.1069. |
| 34 | 1912 IV 17 | Juvisy-sur-Orge | France | Flammarion, Quénisset | Almost annular eclipse photographed | Annuarie Astronomique et Météteorologique pour 1913, 49, p.247. |
| 35 | 1912 IV 17 | Paris | France | Hatt | Almost annular eclipse seen  The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C16. |
| 36 | 1912 IV 17 | Paris | France | Giacobini et al. | Almost annular eclipse seen  The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C17;Comptes Rendus, CLIV, 1912, p.1034 |
| 37 | 1912 IV 17 | Paris/  Maison Lafitte | France | Davies | At the northern limit of the annular eclipse,  The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C16;Monthly Notices of RAS, LXXII, 7, 1912, p.542. |
| 38 | 1912 IV 17 | Mouillage | France | Pirot | The end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C12. |
| 39 | 1912 IV 17 | Bordeaux | France | Picart, Courty | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C13;Comptes Rendus, CLIV, p.1204. |
| 40 | 1912 IV 17 | Toulouse | France | Saint-Blancat et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C14;Comptes Rendus, CLIV, 1912, p.1204. |
| 41 | 1912 IV 17 | Les Clayes | France | Boquet | Annular eclipse seen  The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C14;Comptes Rendus, CLIV, 1912, p.1034. |
| 42 | 1912 IV 17 | Val Joyeux | France | Lambert | Annular eclipse seen  The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C15;Comptes Rendus, CLIV, 1912, p.1034. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 43 | 1912 IV 17 | Ecancourt | France | Simonin | The end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C15;Comptes Rendus, CLIV, 1912, p.1034. |
| 44 | 1912 IV 17 | Nice | France | Javelle | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C25;Comptes Rendus, CLIV, 1912, p.1019. |
| 45 | 1912 IV 17 | Strasbourg | France | Wirtz | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C25;Astronomische Nachrichten, CXCIII, 1912, p.98 |
| 46 | 1912 IV 17 | Barr | France | Dietz | Actinometric measurements | Astronomische Nachrichten, 201, 1915, p.463 |
| 47 | 1912 IV 17 | Uccle/Bruxells | Belgium | Philippot et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C21; Astronomische Nachrichten, |
| 48 | 1912 IV 17 | Silenrieux | Belgium | Dupont | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C21;Astronomische Nachrichten, CXCI, 1912, p.200. |
| 49 | 1912 IV 17 | Leyden | The Netherlands | Voûte | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C20;Astronomische Nachrichten, CXCI, 1912, p.200. |
| 50 | 1912 IV 17 | Near Maastricht | The Netherlands | Julius | Solar radiation during the eclipse measured; the eclipse was annular in its maximum | The Astrophysical Journal, XXXVII, 4, 1913, p.225 |
| 51 | 1912 IV 17 | Namur | Belgium | Willaert | The central eclipse filmed | Journal of Astronomical History and Heritage, 13,2,2010, p.162. |
| 52 | 1912 IV 17 | Genève | Switzerland | Gautier et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C22-23;Astronomische Nachrichten, CXCI, 1912, p.198. |
| 53 | 1912 IV 17 | Lisboa | Portugal | Oom et al. | The beginning and end recorded,  Deep partial eclipse photographed | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C1;*Brasil Portugal* Magazine, no.319, 1912.05.01 |
| 54 | 1912 IV 17 | Valencia | Spain | Tarazona, Marti | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C13. |
| 55 | 1912 IV 17 | Barcelona | Spain | Polit | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C15. |
| 56 | 1912 IV 17 | Armagh | Ireland | Dreyer | The end recorded | Monthly Notices of RAS, LXXII, 7, p.542. |
| 57 | 1912 IV 17 | Greenwich | England | Maunder, Smith | Deep partial eclipse photographed | The Observatory, 1912, p.195; Monthly Notices of RAS, 73, 1912, p.41 |
| 58 | 1912 IV 17 | Cambridge | England |  | Spectroscopic observations | The Observatory, 1912, p.195; |
| 59 | 1912 IV 17 | Oxford | England | Robinson, Barrett | The beginning and end recorded | Monthly Notices of RAS, LXXII, 7, p.542. |
| 60 | 1912 IV 17 | Stonyhurst | England | Sidgreaves, Cortie | The end recorded | Monthly Notices of RAS, LXXII, 7, p.542. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 61 | 1912 IV 17 | South Kensington | England | Fowler | Spectroscopic observations  The beginning and end recorded | Monthly Notices of RAS, LXXII, 7, p.542. |
| 62 | 1912 IV 17 | Hagenow | Germany | Graff, Lippert, et al. | Annular eclipse for 3-5s, several promiences noticed,  The central eclipse photographed and filmed | Journal of Astronomical History and Heritage, 13,2,2010, p.162.; Astronomische Nachrichten, 192, 3, 1912, p.43; 191, 24, 1912,p.434;Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C30-31; |
| 63 | 1912 IV 17 | Wolfenbüttel | Germany | Elster, Geitel | Photometric measurements | Astronomischer Jahresbericht, 13-14, 1912, p.221. |
| 64 | 1912 IV 17 | Grabow | Germany | Heinsius | Almost annular eclipse seen | http://www.heinsius.de/stephan/sonnenfinsternis1912.html |
| 65 | 1912 IV 17 | Becklingen | Germany | Schorr, et al. | Central or almost central annular eclipse seen depending on locations, Baily’s beads noticed, the 5.5 km width of the annular path estimated, the central eclipse photographed, Venus seen | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C28-30;Astronomische Nachrichten, 191, 24, 1912, p.429. |
| 66 | 1912 IV 17 | Recklinghausen | Germany | Many people | Annular eclipse for few seconds seen | Recklinghäuser Zeitung from 19.04.1912; http://www.strickling.net/1912sofi.htm |
| 67 | 1912 IV 17 | Sinsen | Germany | Many people | Annular eclipse for few seconds seen, Baily’s beads noticed, Venus seen | http://www.strickling.net/1912sofi.htm |
| 68 | 1912 IV 17 | Bergdorf | Germany | Schwassmann, Messow | Very deep partial eclipse photographed, Baily’s beads and prominences observed, The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C230;Astronomische Nachrichten, 191, 24, 1912, p.436. |
| 69 | 1912 IV 17 | Güstrow | Germany | Bühring | Annular eclipse photographed | Astronomische Nachrichten, 191, 24, 1912,p.437. |
| 70 | 1912 IV 17 | Near Lüneburg | Germany | Schlee and a group of schoolboys | The eclipse ptotographed and sketched; a correction to the predicted path of the central eclipse found | Astronomische Nachrichten, 191, 24, 1912,p.437. |
| 71 | 1912 IV 17 | Warendorf | Germany | Stephani, Plassman, Kolbow | The eclipse close to annularity photographed, the beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C26;Astronomische Nachrichten, 191, 1912, p.149. |
| 72 | 1912 IV 17 | Krefeld | Germany | Holzapfel et al. | Annular eclipse for 3-13s seen, | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C26;Astronomische Nachrichten, 192, 1912, p.208. |
| 73 | 1912 IV 17 | Ruhrort/  Duisburg | Germany | Köhn | Annular eclipse but no contacts recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C23 |
| 74 | 1912 IV 17 | Duisburg | Germany | Michaelis, Asher, Kotte | Annular eclipse for 7-8s seen, | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C24-25 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 75 | 1912 IV 17 | Dollahner Höhe | Germany | Gyllenberg | Annular eclipse at its northern limit seen | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C34 ;Astronomische Nachrichten, 192, 1912, p.214. |
| 76 | 1912 IV 17 | Binz | Germany | Akesson, Henie | The beginning and end recordedclose to the limit of annularity | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C35; |
| 77 | 1912 IV 17 | Weißig | Germany | Niedner | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C35;Astronomische Nachrichten, 192, 1912, p.218 |
| 78 | 1912 IV 17 | Dissen | Germany | Battermann | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C23;Astronomische Nachrichten, 193, 1912, p.128. |
| 79 | 1912 IV 17 | Eisfleth | Germany | Möller, Immler | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C27;Astronomische Nachrichten, 191, 1912, p.261. |
| 80 | 1912 IV 17 | Bremen | Germany | Völkel | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C27;Astronomische Nachrichten, 191, 1912, p.199. |
| 81 | 1912 IV 17 | Göttingen | Germany | Hartmann et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C27;Astronomische Nachrichten, 191, 1912, p.258. |
| 82 | 1912 IV 17 | Kiel | Germany | Harzer et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C28;Astronomische Nachrichten, 191, 1912, p.199. |
| 83 | 1912 IV 17 | Düsseldorf | Germany | Luther, Henker | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C24 |
| 84 | 1912 IV 17 | Bonn | Germany | Küstner et al. |  | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C25 |
| 85 | 1912 IV 17 | München | Germany | Seeliger et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C32;Astronomische Nachrichten, 192, 1912, p.215. |
| 86 | 1912 IV 17 | Jena | Germany | Villiger | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C31;Astronomische Nachrichten, 191, 1912, p.263. |
| 87 | 1912 IV 17 | Zingst | Germany | Wurmb | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C33;Astronomische Nachrichten, 191, 1912, p.264. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 88 | 1912 IV 17 | Potsdam | Germany | Kempf | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C33;Astronomische Nachrichten, 191, 1912, p.189. |
| 89 | 1912 IV 17 | Zehlendorf/  Berlin | Germany | Fuchs | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C33;Astronomische Nachrichten, 191, 1912, p.263. |
| 90 | 1912 IV 17 | Berlin | Germany | Seegert, Struve et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C34;Astronomische Nachrichten, 191, 1912, p. 189, 264. |
| 91 | 1912 IV 17 | Leipzig | Germany | Deutschland, Hayn, Naumann | Positional observations, photos taken | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 194,20, 1913, p.337 |
| 92 | 1912 IV 17 | Bielefeld | Germany | Pollmann | Deep partial eclipse observed, Venus noticed | Pollmann K.: Beobachtungen während der Sonnenfinsternis am 17. April 1912, Ber.Natwiss.Ver. für Bielefeld, 4, 1922, p.142. |
| 93 | 1912 IV 17 | Köningsberg | Prussia | Jost et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C36; Astronomische Nachrichten, 192, 1912, p.207. |
| 94 | 1912 IV 17 | København | Denmark | Strömgren et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C32; Astronomische Nachrichten, 191, 1912, p.215. |
| 95 | 1912 IV 17 | Lund | Sweden | Engström, Linders | The end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C33; Astronomische Nachrichten, 192, 1912, p.260. |
| 96 | 1912 IV 17 | Kremsmünster | Austria | Schwarz | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C35; Astronomische Nachrichten, 191, 1912, p. 194. |
| 97 | 1912 IV 17 | Praha | Bohemia | Kavan, Nechvile, Ulrich | The beginning and end recorded, partial phases measured | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 194,20, 1913, p.349 |
| 98 | 1912 IV 17 | Praha | Bohemia | Weinek et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C36; Astronomische Nachrichten, 191, 1912, p.195. |
| 99 | 1912 IV 17 | Kraków | Austria-Hungary/  Poland | Dziewulski, Ludwiński | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C37;Astronomische Nachrichten, 192, 1912, p.215. |
| 100 | 1912 IV 17 | Warszawa | Russian Empire/  Poland | Cherny et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C37;Astronomische Nachrichten, 191, 1912, p.262. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 101 | 1912 IV 17 | Warszawa | Russian Empire/  Poland | Kalinowski | Magnetograhps during the eclipse obtained | Journ. of Geophys. Res, 1912, 153. |
| 102 | 1912 IV 17 | Przegaliny | Russian Empire/  Poland | Krassowski, Szaniawski et al. | Partial eclipse photographed through filters | Wektor, 10, 1912, p.579; Wszechświat, 16, 1912, p.303 |
| 103 | 1912 IV 17 | Jędrzejów | Russian Empire/  Poland | Przypkowski | Partial eclipse photographed | Wszechświat, 16,1912, p.303 |
| 104 | 1912 IV 17 | Lvov | Austria-Hungary/  Ukraine | Grabowski, Haponowicz | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C37;Astronomische Nachrichten, 191, 1912, p.193. |
| 105 | 1912 IV 17 | Padova | Italy | Antoniazzi, Silva, Padova | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C32; Astronomische Nachrichten, 191, 1912, p.263. |
| 106 | 1912 IV 17 | Napoli | Italy | Lazzarino, Contarino | The end recorded, clouds | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C35;Astronomische Nachrichten, 191, 1912, p.194. |
| 107 | 1912 IV 17 | Helsingfors/ Helsinki | Finland | Donner et al. | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C38;Astronomische Nachrichten, 192, 1912, p.213. |
| 108 | 1912 IV 17 | Serebryanka | Russian Empire/  Estonia | Wittram et al. | Annular eclipse for 12-18s seen | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C38; Mitt. der Sternw. zu Pulkowo, V, 5. |
| 109 | 1912 IV 17 | Pulkovo | Russia | Backlund et al. | Chromosphere and prominences photographed at the deep partial eclipse, the beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C39; Mitt. der Sternw. zu Pulkowo, V, 5. |
| 110 | 1912 IV 17 | Spasskaya Polist‘ | Russia | A group of students | Annular eclipse for 15-30s seen | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C40; Astronomische Nachrichten, 192, 1912, p.210. |
| 111 | 1912 IV 17 | Mostki | Russia | Kunitzky et al. | Annular eclipse for 19-23s seen | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C40; |
| 112 | 1912 IV 17 | Tregubovo | Russia | Boyanovsky et al. | Annular eclipse for few seconds seen | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C40; |
| 113 | 1912 IV 17 | Mission of Kazan‘/ near Belozersk | Russia | Mikhaylovsky, Yavokin, Gratehoe, Banachiewicz | Annular eclipse for 17-22s seen, Baily’s beads noticed | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C41;Astronomische Nachrichten 194, 1913, p.84 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 114 | 1912 IV 17 | Könen/Keeni | Russian Empire/ Estonia | Pokrovski et al. | Annular eclipse for about 15s seen | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C43;Astronomische Nachrichten 194, 1913, p.47 |
| 115 | 1912 IV 17 | Kazan | Russia | Dubiago et al., Baranov | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C42, C43; |
| 116 | 1912 IV 17 | Athena | Greece | Eginitis | The beginning and end recorded | Annales de l'Observatoire de Paris. Memoires,t. 30, 1914, p. C37;Comptes Rendus, CLIV, 192, p.1067 |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 1 | 1914 VIII 21 | Sandnessjøen | Norway | Miethe, Størmer, Schroeter | Total eclipse for 2m, photographed, Baily’s beads noticed, prominences observed | Miethe A.: Die totale Sonnenfinsternis vom 21. August 1914 beobachtet in Sandnessjöen auf Alsten (Norwegen), 1916.https://www.nrk.no/nordland/trosset-krigen-for-solformorkelse-1.11886679 |
| 2 | 1914 VIII 21 | Fellingfors  and other places | Norway | Geelmuydenet al. | Many observers at various locations,  with totality of various duration or at the limit of totality | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 199, 15,1914, p. 241. |
| 3 | 1914 VIII 21 | Österforse | Sweden | Bergstand, Strömgren, et al. | The beginning and end recorded | Publikationer og mindre Meddeler fra Kobenhavns Observatorium, vol. 20, 1915, p.3. |
| 4 | 1914 VIII 21 | Strömsund | Sweden | Bosler, Block, Slater | Total eclipse observed, spectrographs taken, solar corona photographed | Ascarza V.F.: Eclipse de Sol de 21 de Agosto de 1914, p.256. |
| 5 | 1914 VIII 21 | Härnösand | Sweden | Cortie et al. | Total eclipse photographed | Ascarza V.F.: Eclipse de Sol de 21 de Agosto de 1914, p.256. |
| 6 | 1914 VIII 21 | Sollefteå | Sweden | Nordenmark, Hasselberg, Bohlin | Total eclipse for 2m07s,  the eclipse filmed,  spectrographs taken, solar corona photographed | Ascarza V.F.: Eclipse de Sol de 21 de Agosto de 1914, p.256.; Bohlin K.: Die totale Sonnenfinsternis am 21. Aug. 1914, Stockholms Observatoriums Annaler, vol. 10, 1916, p.3. |
| 7 | 1914 VIII 21 | Riga | Russia/ Latvia | Backlund, Kostinskiy, Wittram et al. | Total eclipse photographed and sketched, a bright solar corona noticed | http://astronomers.ru/eclipse-2008/russian/eclipse/1914.php |
| 8 | 1914 VIII 21 | Üxküll | Russia/ Latvia | Wilip | Photometric and polarization measurements performed | Wilip J. :Über Lichtstrahlung während der Sonnenfinsternis am 21. August 1914 in Üxküll, 1936. |
| 9 | 1914 VIII 21 | Minsk | Belarus | Jones, Davidson et al. | Total eclipse seen through clouds, totality photographed, Venus, Mercury and Regulus noticed | Ascarza V.F.: Eclipse de Sol de 21 de Agosto de 1914, p.256,272. |
| 10 | 1914 VIII 21 | Stavidly | Ukraine | Tikhov et al., Todd et al. | Total eclipse seen through clouds | http://astronomers.ru/eclipse-2008/russian/eclipse/1914.php |
| 11 | 1914 VIII 21 | Brovary | Ukraine | Campbell, Curtis | Total eclipse behind clouds | Ascarza V.F.: Eclipse de Sol de 21 de Agosto de 1914, p.256,272. |
| 12 | 1914 VIII 21 | Smila | Ukraine | Todd | Total eclipse seen through cluds, some photos of solar corona | Todd D.: On the accurate adjustment of stationary coronagraphs with despatch, Popular Astronomy, 35, 1927, p.268.https://www.space.com/37305-august-21-eclipses.html |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | Source |
| 13 | 1914 VIII 21 | Genichesk | Ukraine | Struve, Evdokimov, Gerassimowich, Fessenkov, et al. | Total eclipse for 2m04s, phtographed through filters, solar corona studied | Evdokimov N.N.: The total solar eclipse of August 21, 1914 :Popular Astronomy, 32, 1924, p.513.; Astronomische Nachrichten, 220, 1924, p.187. |
| 14 | 1914 VIII 21 | Feodosia (Theodosia) | Ukraine | Belyavskiy, Neuymin, et al.,  Riccò et al.,  Mengarini et al.,  de la BaumePluvinel, et al.,  Newall et.al.,  Perrine et al.,  Zurhellen, Schorr et al., Ascarza et al., Okulich et al.,  Donich et al., | Total eclipse for 2m05s seen in gaps in clouds, spectroscopic observations of the chromosphere, prominences and corona performed, shadow bands photographed | [http://astronomers.ru/eclipse 2008/russian/eclipse/1914.php](http://astronomers.ru/eclipse%202008/russian/eclipse/1914.php); Ricco, A.: L'Eclisse Totale Di Sole Del 21 Agosto 1914 Osservata Dalla Missione Italiana in Teodosia (Crimea), Memorie della Società Degli Spettroscopisti Italiani, serie 2, vol.4, 1915, p. 67, vol. 6, 1917, p.17.;  Ascarza V.F.: Eclipse de Sol de 21 de Agosto de 1914, p.256.;  Newall H.F.: Report on an expedition from the solar Physics Observatory, Cambridge, to Theodosia, Crimea, Monthly Notices of RAS, 75, 1915, p.134. |
| 15 | 1914 VIII 21 | Trabzon | Turkey | Tzampertidès, Crawford | Total eclipse for 1.5m seen through clouds, Baily’s beads and shadow bands noticed, the orange solar corona seen | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. ; Etker S. : 21 AĞUSTOS 1914’TE TRABZON’DA (GÖZLENEMEYEN) TAM GÜNEŞ TUTULMASI, Osmanlı Bilimi Araştırmaları, XVI/1, 2014, p.100 |
| 16 | 1914 VIII 21 | København | Denmark | Braae, Boesen | The beginning and end recorded |  |
| 17 | 1914 VIII 21 | Strassbourg | France | Wirtz | The beginning recorded | Astronomische Nachrichten, volume 201, 1915, p.413 |
| 18 | 1914 VIII 21 | Königsberg | Prussia | Battermann et al. | The beginning and end recorded | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 202, 2,1915, p. 23. |
| 19 | 1914 VIII 21 | Leipzig | Germany | Naumann, Kuschel | Heliometric measurements | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 201, 11,1915, p. 217. |
| 20 | 1914 VIII 21 | Leipzig | Germany | Hayn | Lunar limb profile studied | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 197, 1,1914, p. 321. |
| 21 | 1914 VIII 21 | Göttingen | Germany | Hartmann et al. | The beginning and end recorded | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 199, 7,1914, p. 91. |
| 22 | 1914 VIII 21 | Bamberg | Germany | Hartwig | The beginning and end recorded, partial phases photographed | Astronomische Nachrichten, 200, 9, 1915, p.145 |
| 23 | 1914 VIII 21 | Elsfleth | Germany | Immler, Kaltenbach | The beginning recorded | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 199, 15,1914, p. 246. |
| 24 | 1914 VIII 21 | Königstuhl/  Heidelberg | Germany | Wolf, Ernst, Schwall | The beginning recorded | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 199, 15,1914, p. 243. |
| 25 | 1914 VIII 21 | Breslau/ Wrocław | Germany/Poland | Rechenberg et al. | The end recorded | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 199, 15,1914, p. 244. |
| 26 | 1914 VIII 21 | Kraków | Austria-Hungary/  Poland | Dziewulski, Ryzner | The beginning and end recorded,a diminishing of light noticed | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 199, 15,1914, p. 244. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 27 | 1914 VIII 21 | Warszawa | Russian Empire/  Poland | Cherny et al. | The beginning and end recorded, chromosphere and prominences at the solar cusps noticed, Venus seen | Monthly Notices of RAS, 75, 1914, p.22 |
| 28 | 1914 VIII 21 | Genève | Switzerland | Gautier et al. | The beginning and end recorded | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), 199, 15,1914, p. 245. |
| 29 | 1914 VIII 21 | Bozen/  Bolzano | Austria-Hungary/  Italy | Valier | Lunar limb profile studied | Astronomische Nachrichten, 201, 13, 1915, p.249 |
| 30 | 1914 VIII 21 | Catania | Italy | Favaro | The beginning and end recorded, partial phases measured. | Favaro A.: Le Osservazioni Dell'Eclisse Solare Del 21 Agosto 1914, Memorie della Società Degli Spettroscopisti Italiani, serie 2, vol. 3, 1914, p.155. |
| 31 | 1914 VIII 21 | Palermo | Italy | Angelitti et al. | The beginning and end recorded | Memorie della Società Degli Spettroscopisti Italiani, serie 2, vol. 3, 1914, p.159. |
| 32 | 1914 VIII 21 | Capodimonte/  Napoli | Italy | Zappa, Contarino | The beginning recorded | Memorie della Società Degli Spettroscopisti Italiani, serie 2, vol. 3, 1914, p.159. |
| 33 | 1914 VIII 21 | Bergamo | Italy | Troubetzkoy | The beginning and end recorded | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 34 | 1914 VIII 21 | Venezia | Italy | Balbi | The beginning recorded | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 35 | 1914 VIII 21 | Wien | Austria | Hnatek, Klumak | The beginning and end recorded | [Astronomische Nachrichten](https://onlinelibrary.wiley.com/journal/15213994), [199, 25](https://onlinelibrary.wiley.com/toc/15213994/1914/199/25), 1914,  p. 361. |
| 36 | 1914 VIII 21 | Severin | Romania | Constantinesco | The beginning and end recorded, max.phase found as 0.845 | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 37 | 1914 VIII 21 | Paris | France | Bigourdan et al. | The partial eclipse seen in a hazy sky; The beginning and end recorded, partial eclipse photographed | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 38 | 1914 VIII 21 | Lyon | France | Luizet, Guillaume | The beginning and end recorded | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 39 | 1914 VIII 21 | Auxerre | France | David | The beginning and end recorded,  max. phase found as 0.563 | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 40 | 1914 VIII 21 | Antibes | France | Raymont | Irregularities on the lunar limb observed | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 41 | 1914 VIII 21 | Marseille | France | Bourget, Coggia | The beginning and end recorded | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 42 | 1914 VIII 21 | Toulouse | France | Saint-Blancat, Montangerand | The beginning and end recorded | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 43 | 1914 VIII 21 | South Kensington | England | Fowler | The chromospheric spectrum obtained during a partial eclipse at the solar cusps (the greatest phase about 0.65) | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914 ; Monthly Notices of RAS, 75, 1914, p.24. |
| 44 | 1914 VIII 21 | Manchester | England | Porthouse | Irregularities on the lunar limb observed | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |

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|  | **Date** | **Place** | **Country** | **Observer** | **Description** | **Source** |
| 45 | 1914 VIII 21 | Tortosa | Spain | Landerer | The beginning and end recorded | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 46 | 1914 VIII 21 | Valencia | Spain | Tarazona, Marti | The beginning and end recorded | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 47 | 1914 VIII 21 | Alger | Algeria | Baillaud, Gonnessiat | The beginning and end recorded, partial eclipse photographed | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 48 | 1914 VIII 21 | Athena | Greece | Éginitis et al. | Partial eclipse observed, Venus noticed at the greatest phase (about 0.82), a dictinct diminishing of light | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |
| 49 | 1914 VIII 21 | Ksara | Lebanon | Berloty | The end recorded | Baillaud B.: L’èclipse totale de soleil du 21 aout 1914, Soc. Astr. de France, 1914. |