

PART II

WORLD LIST OF POLAR AURORAE < 55° AND
THEIR SECULAR VARIATIONSII-1.- SUMMARY CATALOGUE OF OCCURRENCE OF AURORAE < 55°N
IN THE PERIOD 1000-1900

The our small supplement in Part I of this work and all the published and available catalogues and sets of aurorae observed in extrapolar regions were used to compile a summary catalogue to make available data for the most varied objectives. The catalogue contains 3878 northern aurorae. In a number of papers by J. A. Eddy of recent years [1] the auroral data has been drawn from the limited material of the catalogue published by H. Fritz [2], because it was the most extensive and covered the period from -503 to 1872. The abundant data given in a number of partial catalogues, published within the last thirty years, were taken into account.

Since the study of long-term changes in solar activity in the past has again become a topical scientific problem, the authors are presenting a summary of auroral data for the years 1000 to 1900 in one extensive table, giving references not of the original source in each case, but to the catalogue or summary in which a particular aurora was mentioned.

The authors of the catalogue attempted to give the data of the aurorae up to 1581 inclusive according to the old Julian calendar, and from 1582 according to the new Gregorian calendar. The aggregate difference in the dates around this change in dating amounted to 10 days. Unfortunately, the dating was not changed and adopted in all countries of the then cultural world at the same time; in fact, in some countries the old calendar dating was used in some regions for varying periods of time, depending on the influence the church had. This disunity resulted in uncertainty and confusion in dating some of the recorded natural phenomena. With regard to this dating problem, F. Link [3] wrote: "In the 17th century, the Gregorian calendar, introduced by the Catholic Church on 6/16 October, 1583, was used as well as the old Julian calendar, to which the non-Catholic countries kept until the end of the century, and England even until 1752. This necessarily causes uncertainty of dates and risk of duplicity. Any pair of observations, differing by 10 days and originating in different regions, is suspect of duplicity."

Since phenomena which may but need not have been aurorae were described in the past centuries, the authors of catalogues must have considerable experience to be able to distinguish, on the basis of the description, whether a fireball, meteoric shower, noctilucent clouds, twilight phenomena, etc., had not been

mistaken for an aurora. That is why authors of this catalogue did not adopt all the occurrences of aurorae, given by the authors of the partial catalogues or sets of their observations. This applies particularly to H. Fritz's catalogue [2], which evidently, as already discussed earlier also by other authors, contains erroneous records of phenomena other than aurorae especially in the past three centuries. This is indicated by the fact alone that, according to H. Fritz, there would be more days with aurorae than without them in some of the longer intervals of several months. This also applies to aurorae at latitudes of less than 55° . This is clearly illogical. The authors adopted the occurrences of aurorae on the basis of the following criteria: possible recurrence after roughly 27 days, roughly since 1792 (and partly also before) auroral data were adopted provided there was guarantee that they were simultaneously observed in a larger geographical region, i. e. provided they were recorded at a number of stations in Region I or II (i. e. Europe), or in Region I or II and at the same time in Region IV (i. e. America). Fritz's [2] division into regions is as follows: I – south of 46° , II between 46° and 55° , III-from 55° to the polar circle, IV – America south of 60° , V – high latitudes. If the source of an auroral observation given by H. Fritz [2] was also given by another author, the latter has been mentioned. If the authors of the partial catalogues or sets of observations recorded the occurrence of an observed phenomenon with the interpretation "aurora" according to the degree of certainty or uncertainty, the authors of this catalogue adopted the aurora with the higher degrees of certainty (this applies, e. g. to the catalogue of M. Keimatsu, [4]). Even so, in spite of all the criteria applied and all the existence, a small percentage of phenomena included as aurorae need not have in fact been aurorae and, on the contrary, a small percentage of aurorae omitted, e. g. from H. Fritz's catalogue [2] may have actually been aurorae.

The authors tried to include only those aurorae which occurred at or extended to northern latitudes of less than 55° ; this latitudinal limit was adopted from Fritz's catalogue because most of the adopted aurorae, even after critical analysis, originated with H. Fritz. This author was already aware that the occurrence of aurorae in mid and low geographic latitudes was a qualitatively different phenomenon, that the very frequent occurrence of aurorae at latitudes of over 55° would not characterize the level of activity of the actual causal source of aurorae, which were already known then, that the occurrence of aurorae at latitudes below 55° is connected with geomagnetic storms at mid-latitudes and it is quite frequently time-related to the occurrence of extensive sunspot groups on the solar disk.

In an attempt to preserve homogeneity, the aurorae observed towards the end of the whole period, including those from the southern mid-latitudes, were not taken into account; the sources of data thus originate in the same geographic region (Europe, Asia, North Africa) during roughly the whole period, only North America being an exception.

II-2. NOTES ON THE FORMAL ARRANGEMENT OF THE CATALOGUE

An aurora on one night, although it may have occurred before and after midnight (i. e. on two dates according to the new reckoning of a calendar day) is only mentioned under one date (usually the date of its beginning). The full date of every aurora is given as far as possible; if the day or month is missing, the source lacked these data. If the year, month or day is in parentheses, it is uncertain, although very probable. If two data are given, separated by a comma, in parentheses next to the month, but more frequently the day, the aurora was not observed on the two days but the date is uncertain and involves one of the two days (or months). If another month or day is given in parentheses, the more probable date is the one without the parentheses. If there is a hyphen between the month or day data, the aurora occurred in the interval between the two. If the date as a whole is in parentheses, the reality of the observation cannot be fully guaranteed.

The reference concerning a phenomenon adopted from a source (or catalogue) is given in the catalogue in the form of the abbreviation of the source or catalogue in question; references to literature according to abbreviations follow the catalogue.

II-3. WORLD LIST OF POLAR AURORAE OF < 55°N LATITUDES

Julian Calendar

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1000	3	29	L1	1098	9	25	F	1129	1		D
1001	12	14	L1	1098	9	26	F	1129	3		D
1002	8	15	K	1098	9	27	L1	1129	4		D
1002	12	19	L1	1099	2	24	L1	1130	1	6	S
1003	6	24	K	1099	10	15	K	1130	6	18	K
1003	7	14	K	1100	11	18	L1	1130	8	26	S
1004	3, (4)		K	1101	1	31	K	1130	10	1	S
1004	6	12	K	1102	1	29	L1	1130	10	8	L3
1005	3	21	K	1102	1	30	L1	1130	11		D
1005	11	5	K	1102	1	31	L1	1131	1	11	L1
1006	4	14	K	1102	9	29	D	1132	1	14	S
1007	12	18	K	1104			L1	1134	12	16	K
1008	8, (9)		K	1105	12	23	S	1137	1	31	K
1008	10	31	L1	1106			L1	1137	2	14	K
1010			D	1108			D	1137	2	20	K
1011	1	25	K	1114	12		D	1137	3	4	K
1013			S	1116			F	1137	10		D
1014	9	29	L1	1117	2	17	L1	1137	12	29	K
1032	11	7	K	1117	6	29	K	1138	2	26	D
1033	1	28	K	1117	12	16	L1	1138	5	11	S
1034	9		N	1117	12	19	F	1138	10	6	S
(1039,	4	6	N	1117	12	25	K	1138	10	7	S
1040)				1118	4	13	L1	1138	10	13	L1
1054	4	23	SH	1118	12	20	F	1138	10	14	S
1065	5	24	K	1119	5	11	K	1138	10	15	S
1066	4	20	K	1119	6	(<28]	L1	1138	10	16	S
1067	12	(6, 10)	SH	1119	7	15	K	1139	3	1	L1
1069	11, (12)		K	1119	7	29	K	1139	3	2	S
1074	1	27	L1	1119	8	21	K	1139	3	7	S
1083			L1	1120	3	28	K	1140	6	22	D
1084			F	1121			F	1141	8		D
1087	9	26	D	1121	5		D	1141	9		D
1088	8	(12, 13)	K	1122			L1	1148	8	17	K
1093	1	13	L1	1122	12	7	L1	1148	11	12	K
1093	8	1	N	1125	5	15	K	1150	8	12	M
1094			L1	1126	2	4	K	1150	10	8	M
1095	9	27	S	1126	12	21	K	1151	11	27	K
1096	2		F	1127	1	11	K	1152	7	10	M
1096	3		F	1127	2	21	K	1153			F
1097	9	27	D	1127	4	5	K	1156	4	21	L1
1097	(11, 12)		B	1127	9	(20, 22)	K	1157	4	30	K
1098	3	23	M	1128	9	(7)	L1	1157	11	13	K
1098	6	3	L1	1128	11	18	S	1158	8	28	L1
1098	9	21	L1	1128	11	19	N	1160	4	1	K

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1161	1	2	K	1203	11	14	K	1270	1	20	D
1161	12	21	K	1204	2	21	M	1277	1	1	D
1162	9	25	D	1204	2	22	M	1277	9	11	K
1165	3	4	K	1204	2	23	M	1279	1	1	L1
1165	9	12	K	1204	3	29	K	1280			F
1165	12	25	K	1204	4	1	L1	1283	5	22	K
1166	12	24	K	1204	12	6	K	1284	11	27	L1
1168	7		S	1205	1	20	M	1285			L1
1168	8		S	1205	10	18	K	1287	1	14	L1
1170	12	6	M	1206	10	10	K	1292			L1
1170	12	10	K	1209	2	12	K	1299	12	25	D
1173	2	10	L1	1209	5	14	K	1304			F
1173	2	11	D	1210	1	27	K	1307	2	26	F
1174	11	4	L1	1210	(2, 3)		K	1308			D
1175			F	1211	4		L1	1309	2	26	L1
1176	12	5	K	1213	11	23	K	1309	5	10	L1
1177	11	29	L1	1218	7	2	K	(1311)			D
1177	12	14	M	1219	8	20	K	1322	11	4	L1
1179			F	1219	12	29	K	1323			F
1182			L1	1221	7	16	K	1325	5	22	L1
1183	2	16	K	1222	11	(<30)	L1	1336			F
1183	6	13	K	1222	12	7	K	1337	1	23	K
1183	11	3	K	1226	4	13	K	1339			D
1185	2	2	M	1227	7	23	K	1347	1	25	D
1187			F	1227	9	1	M	1348	12	18	L1
1188	7	19	K	1233	6		L1	1352			S
1188	9	29	JZ	1238			L1	1353	8	11	F
1188	10	12	L1	1240	3	13	K	1354	3	1	L1
1188	12	20	L1	1240	3	15	K	1354	12	18	K
1189	4	17	K	1241	3	17	M	1355			L1
1191	5	14	L1	1242	3	4	K	1358	4	11	K
1192	1	15	L1	1242	4	5	L1	1359	2	9	D
1193	1	22	K	1242	8	10	M	1359	10	21	JZ
1193	2		L1	1244	8	9	K	1360	12	13	D
1193	11	2	L1	1245	(9)	(29)	D	1361	2	7	L1
1193	12	(5, 6)	K	1247	8	10	K	1361	2	25	L1
1194	7	2	K	1251			L1	1361	8	21	K
1194	7	9	K	1252			D	1361	9	3	K
1195	9	10	L1	1254	1	1	L1	1361	9	4	K
1197			L1	1254	9	24	K	1361	9	6	K
1198	9	17	K	(1256	1	27)	S	1361	11	13	K
1199	3	9	K	1256	1	28	S	1361	12	12	L1
1199	8	26	K	1261	2	9	K	1362	3	28	K
1200	8	11	L1	1262	8	16	K	1362	8	3	K
1200	(11, 12)		K	1262	11	7	D	1363	4	6	K
1202	2	16	V	1263	7	29	L1	1363	7	30	M
1202	12	19	M	1269			L1	1363	8	2	K
1203	4	1	L1	1269	12	6	V	1363	9	27	K

h	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
20	D		1363	11	6	K	1501	8	18	K	1545	2		F
1	D		1364	10	8	K	1504	1	17	L1	1545	3	29	L1
11	K		1366	1	12	L1	1504	6	12	S	1545	5	25	L1
1	L1		1366	10	8	D	1506	1	28	K	1546	2	10	L1
	F		1366	10	22	S	1506	1	29	K	1547	9	18	L1
22	K		1368	7	19	K	1506	4	21	K	1548	1	13	L1
27	L1		1370	10	27	M	1506	12	19	K	1548	2	9	L1
	L1		1370	11	25	M	1506	12	30	K	1548	3	1	P
14	L1		1371	10	5	D	1507	1	2	K	1548	11	6	L1
	L1		1371	(11)		M	1507	1	6	K	1549	2	25	L1
25	D		1375	5	10	D	1507	1	8	K	1550	6	20	L1
	F		1378			L1	1507	10	4	K	1550	7	19	L1
26	F		1379			F	1511	9	17	K	1551	1	28	L1
	D		1385	7	15	L1	1512	8	6	K	1551	2	(5-14)	K
26	L1		1387	10	14	L1	1517	12	25	L1	1551	9	23	L1
10	L1		1388	4		L1	1518	1	24	K	1552			L1
	D		1389			F	1420	5	15	K	1553	1	9	L1
4	L1		1399	7	22	D	1520	11	23	L1	1553	7	9	L1
	F		1401	8	14	L1	1521	2	7	K	1554	2	15	P
22	L1		1402	10	10	L1	1523	9	12	R	1554	2	24	L1
	F		1403	12	18	D				+JZ	1554	7	24	L1
23	K		1416	9	26	P	1524			F	1554	8	5	L1
	D		1426	7	25	K	1526	8	10	K	1554	10	(10)	L1
25	D		1426	12	25	K	1526	12		L1	1555	3	13	L1
18	L1		1431			L1	1527	1	9	L1	1555	8	23	L1
	S		1432	7	2	JZ	1527	(10)	11	L1	1555	12	29	S
11	F		1437	3	16	S	1527	10	24	S	1556	1	11	L1
1	L1		1437	8	15	K	1528	4	22	K	1556	1	14	R
18	K		1438	8	7	K	1528	10	24	K	1556	9	5	L1
	L1		1439	9	3	K	1529	1	2	S	1556	10	6	L1
11	K		1440	9	12	M	1529	1	9	L1	1557	3	17	L1
9	D		1444	7	29	K	1529	1	18	L1	1557	11	25	L1
21	JZ		1444	8	10	M	1529	1	25	K	1557	12	5	R
13	D		1449	11	1	K	1529	2	4	K	1558	5	15	L1
7	L1		1450	3	11	K	1529	(8)		K	1559	(5-8)		K
25	L1		1455	8	14	M	1531	7	3	S	1560	1	30	L1
21	K		1456	10	9	K	1531	9	20	L1	1560	12	27	L1
3	K		1458	11	20	K	1531	11	14	L1	1560	12	29	L1
4	K		1459	1	14	K	1532	(11-12)		K	1561	2	27	L1
6	K		1465	11	18	L1	1533	(9-10)		K	1561	4	19	K
13	K		1466	1	8	D	1533	10	24	K	1562	3	13	L1
12	L1		1485	1	17	K	1536	2	7	L1	1562	9	28	L1
28	K		1486	10	6	M	1536	12	16	L1	1563	1	13	L1
3	K		1490	1	26	DC	1538	1	(20)	L1	1563	1	25	L1
6	K		1490	4	7	K	(1538	10	2)	JB	1563	1	26	S
30	M		1490	11	8	V	1540	1	3	L1	1564	1	12	L1
2	K		1495	8	3	K	1541			L1	1564	2	(15)	L1
27	K		1500	1		M	1544	5		F	1564	2	(18)	L1

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1564	2	25	L1	1571	(12)	19	L1	1576	5	25	L1
1564	5	13	K	1572	1	12	L1	1576	11	24	L1
1564	10	7	L1	1572	1	14	P	1577	12	18	L1
1564	10	28	L1	1572	1	16	F	1578	2	22	K
1565	11	26	L1	1572	1	17	S	1579	2	8	R
1566	2	28	S	1572	1	18	S	1579	2	9	R
1567			L1	1572	2	9	L1	1580	3	5	S
1568	3	25	L1	1572	3	1	F	1580	4	6	L1
1568	4	1	L1	1572	3	2	F	1580	4	9	L1
1568	9	25	L1	1572	3	3	S	1580	7	18	L1
1568	12	25	L1	1572	3	4	F	1580	9	10	S
1569	2	(1)	L1	1572	6	12	P	1580	9	11	S
1569	3	8	L1	1572	6	15	L1	1580	9	21	L1
1569	3	10	L1	1572	12	22	L1	1580	9	29	S
1569	9	10	L1	1573	1	15	F	1580	11	10	L1
1569	9	22	L1	1573	1	22	F	1580	12	10	L1
1570	1	11	L1	1573	1	27	L1	1580	12	26	L1
1570	4	1	L1	1573	3	30	L1	1581	1	7	L1
1570	5	17	L1	1573	8	24	L1	1581	1	22	L1
1570	5	23	L1	1573	11	18	L1	1581	2	16	L1
1570	8	4	L1	1574	1	23	F	1581	4	4	L1
1570	9	27	S	1574	2	1	L1	1581	4	6	L1
1571	3	2	L1	1574	11	14	L1	1581	7	22	L1
1571	3	4	L1	1574	11	15	S	1581	8	26	L1
1571	3	30	S	1575	1	17	L1	1581	10	14	L1
1571	7	25	L1	1575	2	14	S	1581	11	8	L1
1571	8	26	S	1757	9	28	L1	1581	11	10	K
1571	9	11	L1	1575	10		L1	1581	11	14	L1
1571	9	30	L1	1576	2	17	L1				

Gregorian Calendar

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1582	3	16	L1	1583	10	12	L1	1587	12	22	S
1582	3	18	F	1583	12	25	L1	1588	1	6	L1
1582	4	10	L1	1584	2	29	L1	1588	4	28	S
1582	5	23	K	1584	3	4	L1	1588	12	16	F
1582	11	7	L1	1584	4		L1	1589	7		P
1583	1	<25	K	1584	9		L1	1589	11	17	P
1583	3	23	L1	1585	12	5	L1	1590	3	7	L1
1583	3	30	L1	1585	12	22	F	1590	4	9	K
1583	4	12	L1	1586	2	13	L1	1590	7	28	L1
1583	8	1	K	1586	4	1	S	1590	8	7	S
1583	8	19	S	1586	4	20	S	1590	12	20	L1
1583	8	20	R	1586	12	6	F	1591	9	8	P
1583	9	12	L1	1587	3	4	M	1591	10	12	P

Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
5	25	L1	1591	12	(20)	R	1604	10	29	L2	1614	2	23	R
1	24	L1	1592	3	29	L1	1604	11	8	L2	1614	7	5	L2
2	18	L1	1592	5	28	L1	1604	12	7	L2	1615	1	7	R
2	22	K	1592	12	29	R	1604	12	19	S	1615	4	20	R
2	8	R	1593	1	beg.	P	1605	2	9	R	1615	6	17	R
2	9	R	1593	1	12	R	1605	2	15	R	1615	10	26	L2
3	5	S	1593	10	24	F	1605	2	16	R	1615	11	2	R
4	6	L1	1593	10	28	R	1605	2	17	R	(1615	12	27)	L2
4	9	L1	1593	10	29	F	1605	2	18	R	1616	8	4	P
7	18	L1	1593	10	30	P	1605	2	19	R	1617	(2)		P
9	10	S	1594	3	20	K	1605	3	22	R	1617	8	30	L2
9	11	S	1595	11	5	K	1605	4	28	S	1618	11	9	M
9	21	L1	1597	10	12	K	1605	6	6	R	1618	11	(10)	M
9	29	S	1597	10	16	K	1605	9	27	L2	1619	12	beg.	L2
1	10	L1	1598	3	1	P	1605	11	16	S	1620	2	22	F
2	10	L1	1598	7	13	P	1605	11	17	S	1621	2	3	F
2	26	L1	1599	5	28	R	1605	12	17	R	1621	9	12	P
1	7	L1	1599	8	17	L1	1605	12	19	L2	1622	2	3	L2
1	22	L1	1599	10	23	S	1606	5	21	P	1622	2	15	L2
2	16	L1	1599	10	24	R	1606	9	13	L2	1622	12	18	L2
4	4	L1	1599	10	27	R	1606	9	15	L2	1623	3	30	L2
4	6	L1	1600	9	12	S	1607	1	18	R	1623	5	13	S
7	22	L1	1600	12	28	R	1607	2	23	S	1623	5	17	S
8	26	L1	1601	3	10	Sp	1607	11	27	R	1623	8	2	F
10	14	L1	1601	8	11	L2	1608	2	6	L2	1623	11	17	R
1	8	L1	1601	9	17	P	1608	2	(end)	R	1623	12	11	R
1	10	K	1601	9	24	P	1608	11	17	F	1624	3	28	L2
1	14	L1	1602	6	20	F	1609	9	8	R	1624	4	7	F
			1602	11	4	R	1609	10	7	L2	1624	5	10	L2
			1602	11	10	P	1609	10	26	L2	1624	5	12	L2
			1603	1	5	P	1610	2		R	1624	5	26	L2
			1603	1	24	Sp	1610	12	17	R	1624	6	7	L2
			1603	2	7	S	1611	8	27	R	(1624	9)	P
			1603	3	13	L2	1611	10		L2	1625	5	18	L2
			1603	8	6	L2	1612	7	10	R	1625	7		L2
			1603	8	27	Sp	1612	8	4	R	1625	8	3	L2
			1603	10	1	P	1612	8	6	L2	1625	8	14	L2
			1603	11	6	L2	1612	8	26	L2	1625	9	22	L2
			1603	12	(15)	P	1612	8	28	R	1625	10	23	L2
			(1604	1	4)	P	1613	4	5	P	1625	11	27	F
			1604	1	28	L2	1613	7	18	R	1626			F
			1604	4	27	P	1613	10	12	P	1627	2	19	L2
			1604	5	3	P	1613	11	9	R	1627	9	28	L2
			1604	7	23	P	1613	11	10	R	(1627	9	30)	L2
			1604	8	19	P	1613	11	12	R	(1627	10	10)	L2
			1604	9	29	R	1613	11	16	R	1627	12	17	F
			1604	10	23	L2	1614	1	20	L2	1627	12	21	L2
			1604	10	24	R	1614	2	20	R	1628	12	20	L2

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1628	12	26	L2	1639	10	31	L2	1656	7	(22)	M
1629	1	1	L2	1639	11	3	L2	1656	8	(19)	M
1629	3		L2	1640	1	27	L2	1657	1	13	L2
1629	6		L2	1640	3	28	L2	1657	2	2	L2
1629	9	9	L2	1640	5	24	L2	1657	4	(3)	L2
1629	9	10	L2	1640	10	28	L2	1657	8	11	Sc
1629	9	19	F	1640	12	24	JZ	1658	8	4	Sch
1629	9	21	L2	1642	1	4	R	1658	6	17	L2
1629	9	22	L2	1642	2	5	L2	1658	10	13	F
1629	10	16	L2	1643	1	20	L2	1659	12	12	JZ
1629	10	20	L2	1643	9	21	S	1660	3		Sc
1629	12	16	F	1643	11	18	L2	1660	8	3	L2
(1630	1	4)	P	1644	3		L2	1660	10	17	Sch
1630	1	29	L2	1644	5	13	L2	1660	12		Sc
1630	1	31	L2	1644	9	1	L2	1661	1	3	L2
1630	2	1	P	1645	3	3	L2	1661	1	31	L2
1630	2	2	P	1646	2	6	F	1661	3	14	Sch
1630	2	3	P	1646	2	12	L2	1661	3	21	Sch
1630	2	4	F	1646	3	2	L2	1661	3	31	S
1630	2	21	L2	1646	11		L2	1661	4	16	L2
1630	6	18	L2	1647	3		P	1662	3	13	L2
1630	6	19	L2	1648	1	11	R	1662	4	8	L2
1630	7	6	P	1648	1	15	L2	1662	12	15	L2
1630	9	9	L2	1648	1	26	L2	1663	1	17	L2
1631	5	17	M	1648	3	11	L2	1663	11	25	R
1632	7	10	L2	1648	3	22	L2	1664	1	15	L2
1632	11	12	F	1648	5		L2	1664	4	18	L2
1633	3	5	L2	1648	9		L2	1664	8	4	L2
1633	5	28	L2	1648	11	1	L2	1665	1	9	Sc
1633	6	>8	S	1649	10	10	L2	1665	2	3	F
1633	6	23	L2	1649	12	28	L2	1665	4	11	F
1633	12	3	P	1651	1		L2	1665	4	17	F
1634	2	10	S	1651	6	30	L2	1665	8	23	Sc
1634	2	11	L2	1652	1	11	L2	1666	1	31	L2
1635	1	23	L2	1652	4	13	M	1666	2	23	L2
1635	2	27	L2	1652	5	30	L2	1666	11	29	Sc
1635	5	15	L2	1652	6	30	S	1667	2	12	DC
1635	9	7	M	1652	8	22	L2	1668	3	9	M
1635	11	27	L2	1653	1	13	L2	1668	3		M
1636	5	10	L2	1653	3	2	M	1669	2	13	L2
1636	5	24	L2	1653	5		L2	1670	1		L2
1637	8	7	L2	1653	6	30	Sc	1670	4	12	L2
1637	8	19	P	1653	12		L2	1670	4	21	L2
1637	11		M	(1654	3	6)	L2	1670	8	25	L2
1637	12		M	1654	8	26	12	1671	11	29	M
1639	2	6	L2	1654	9	13	L2	1672	1		F
1639	2	9	L2	1655	7	10	F	1672	2	3	L2
1639	5	12	P	1656	2	18	Sch	1673	10	18	L2

Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
(22)	M	1675			L2	1704	8	1	R	1717	1	6	F
(19)	M	1667	6		L2	1704	11	3	F	1717	1	9	F
13	L2	1677	9	18	L2	1704	12	17	F	1717	1	10	F
2	L2	1677	11	12	Sc	1705	4	19	F	1717	1	11	F
(3)	L2	1667	11	18	Sc	1705	5	13	Sc	1717	2	2	F
11	Sc	1677	12	12	F	1707	2	4	F	1717	2	16	F
4	Sch	1678	8		L2	1707	3	1	F	1717	3	30	F
17	L2	1678	10	29	F	1707	3	6	F	1717	4	10	F
13	F	1680	5	31	F	1707	8	5	F	1717	8	10	F
12	JZ	1680	7	31	L2	1707	8	6	F	1717	8	31	F
	Sc	1680	9	30	L2	1707	10	19	F	1717	9	8	F
3	L2	(1680	12	23)	M	1707	10	20	F	1717	9	20	F
17	Sch	1681	1	21	L2	1707	10	21	F	1717	10	15	F
	Sc	1681	2	10	R	1707	10	26	F	1718	1	25	F
3	L2	1681	2	20	P	1707	10	29	F	1718	2	21	S
31	L2	1681	2	23	P	1707	11	6	F	1718	3	4	F
14	Sch	1681	3	20	L2	1707	11	24	Sc	1718	3	10	F
21	Sch	1681	4	28	L2	1707	11	27	F	1718	3	19	F
31	S	1682	1	19	F	1708	8	9	F	1718	3	22	S
16	L2	1682	5		F	1708	8	10	F	1718	5	1	F
13	L2	1682	10	28	L2	1708	8	20	F	1718	9	17	F
8	L2	1682	11	7	F	1708	9	11	F	1718	9	22	F
15	L2	1683	1		F	1708	9	15	Sc	1718	9	16	F
17	L2	1683	8	22	F	1709	3		P	1718	9	24	F
25	R	1684	10	8	R	1709	10	18	F	1718	10	22	S
15	L2	1686	1	23	L2	1710	11	26	F	1718	10	23	F
18	L2	1686	6	1	Sc	1711	3		Mo	1718	11	23	F
4	L2	1686	7	19	Sc	1713	1		R	1718	11	25	F
9	Sc	1686	11		L2	1713	3		R	1718	12	6	F
3	F	1687	7	1	F	1713	4	12	JZ	1718	12	18	F
11	F	1687	7	10	F	1715	3	17	F	1718	12	20	F
17	F	1688	11		F	1715	4	21	JZ	1718	12	30	F
23	Sc	1691	1	12	L2	1716	3	15	F	1719	2	11	F
31	L2	1691	3	8	L2	1716	3	16	F	1719	2	12	F
23	L2	1692	2	10	R	1716	3	17	R	1719	2	23	F
29	Sc	1695	3	10	Sc	1716	3	24	F	1719	3	23	F
12	DC	1695	3	23	L2	1716	4	10	F	1719	3	25	F
9	M	1695	4	4	L2	1716	4	11	F	1719	3	30	F
	M	1695	11	9	M	1716	4	12	F	1719	4	7	F
13	L2	1696	1	12	L2	1716	4	13	F	1719	4	17	F
	L2	1697	8	17	L2	1716	4	20	F	1719	9	22	F
12	L2	1702	3	1	M	1716	4	21	F	1719	9	24	F
21	L2	1702	3	2	M	1716	4	22	F	1719	9	25	F
25	L2	1702	5	29	Sc	1716	4	23	F	1719	10	16	F
29	M	1704	4	13	M	1716	4	24	F	1719	10	18	F
	F	1704	4	(14)	M	1716	11	16	F	1719	10	22	F
3	L2	1704	5	13	M	1716	12	15	F	1719	10	23	F
18	L2	1704	5	14	M	1716	12	16	F	1719	11	3	F

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1719	11	6	F	1721	10	20	F	1723	1	1	F
1719	11	8	F	1721	10	21	F	1723	1	3	F
1719	11	11	F	1721	11	12	F	1723	2	4	F
1719	11	13	F	1721	11	13	F	1723	2	27	F
1719	11	14	F	1721	11	28	F	1723	3	2	F
1719	11	20	F	1722	1	7	F	1723	3	3	F
1719	11	21	F	1722	1	8	F	1723	3	10	F
1719	12	5	F	1722	1	9	F	1723	3	25	F
1719	12	7	F	1722	1	11	F	1723	3	26	F
1719	12	18	F	1722	1	12	F	1723	4	24	F
1719	12	22	S	1722	1	14	F	1723	8	27	F
1719	12	23	R	1722	1	31	F	1723	9	1	F
1719	12	30	F	1722	2	12	F	1723	9	17	F
1720	1	2	F	1722	2	13	F	1723	10	31	F
1720	1	3	R	1722	2	16	F	1723	11	1	F
1720	2	6	F	1722	2	20	F	1723	12	2	F
1720	2	10	F	1722	3	1	F	1724	1	17	F
1720	2	11	F	1722	3	6	F	1724	1	29	F
1720	2	12	F	1722	3	7	F	1724	1	30	F
1720	2	15	F	1722	3	16	F	1724	3	24	F
1720	2	18	F	1722	3	24	F	1724	8	17	F
1720	3	9	F	1722	3	27	F	1724	12	25	R
1720	9	10	F	1722	5	12	F	1725	1	8	R
1720	9	28	F	1722	5	24	F	1725	1	9	F
1720	10	27	F	1722	9	5	F	1725	1	12	R
1720	11	29	F	1722	9	6	F	1725	1	13	F
1720	12	2	F	1722	9	7	F	1725	2	12	F
1720	12	3	F	1722	9	10	F	1725	3	16	F
1720	12	6	F	1722	9	16	F	1725	10	5	F
1720	12	20	F	1722	9	17	F	1725	10	6	F
1721	1	17	F	1722	9	18	F	1725	10	7	F
1721	1	22	F	1722	10	3	F	1725	10	8	F
1721	1	23	F	1722	10	7	F	1725	10	9	F
1721	2	17	S	1722	10	8	F	1725	12	5	F
1721	2	18	F	1722	10	9	F	1725	12	6	F
1721	2	22	F	1722	10	10	F	1725	12	7	F
1721	2	23	R	1722	10	14	F	1725	12	8	F
1721	2	26	F	1722	10	15	F	1725	12	17	R
1721	2	28	F	1722	11	3	F	1726	3	17	F
1721	3	1	S	1722	11	11	F	1726	3	24	F
1721	3	9	F	1722	11	12	F	1726	3	28	F
1721	3	18	F	1722	11	13	F	1726	9	5	F
1721	5	28	F	1722	11	22	F	1726	9	26	F
1721	8	15	F	1722	11	23	F	1726	9	27	F
1721	9	16	F	1722	12	1	F	1726	9	28	F
1721	9	22	F	1722	12	4	F	1726	10	9	F
1721	10	12	F	1722	12	7	F	1726	10	15	F
1721	10	13	F	1722	12	31	F	1726	10	19	R

h	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
	1	F	1726	10	21	F	1728	9	26	F	1730	3	9	F
	3	F	1726	11	4	F	1728	9	29	F	1730	3	11	F
	4	F	1726	11	6	F	1728	9	30	F	1730	3	13	F
27	F		1726	11	11	M	1728	10	2	F	1730	3	15	F
2	F		1726	12	1	F	1728	10	7	F	1730	3	16	F
3	F		1726	12	16	F	1728	10	12	F	1730	3	18	F
10	F		1726	12	18	F	1728	10	14	F	1730	3	21	F
25	F		1726	12	23	F	1728	10	24	F	1730	4	12	F
26	F		1727	1	15	F	1728	10	25	F	1730	4	13	F
24	F		1727	1	16	F	1728	10	26	F	1730	4	16	F
27	F		1727	1	17	F	1728	10	29	F	1730	4	22	F
1	F		1727	2	13	F	1728	10	30	F	1730	5	9	F
17	F		1727	3	11	F	1728	11	2	F	1730	6	21	R
31	F		1727	3	13	F	1728	11	8	F	1730	7	5	F
1	F		1727	3	14	R	1728	11	13	F	1730	7	6	F
2	F		1727	3	16	F	1728	11	23	F	1730	8	end	B
17	F		1727	3	17	F	1728	12	2	F	1730	9	8	F
29	F		1727	3	19	F	1728	12	3	F	1730	9	10	F
30	F		1727	4	8	F	1729	1	17	F	1730	9	11	F
24	F		1727	8	22	F	1729	1	18	F	1730	9	28	F
17	F		1727	8	27	F	1729	2	3	F	1730	9	30	F
25	R		1727	10	14	F	1729	2	11	F	1730	10	4	F
8	R		1727	10	17	F	1729	2	16	F	1730	10	5	F
9	F		1727	10	19	F	1729	2	17	F	1730	10	6	F
12	R		1727	10	20	F	1729	2	25	F	1730	10	7	R
13	F		1727	11	6	F	1729	3	2	F	1730	10	8	F
12	F		1728	2	9	F	1729	3	27	F	1730	10	9	F
16	F		1728	2	11	F	1729	3	28	F	1730	10	11	F
5	F		1728	2	13	F	1729	5	1	F	1730	10	20	F
6	F		1728	2	26	F	1729	5	29	F	1730	10	26	F
7	F		1728	2	29	F	1729	9	15	F	1730	11	2	R
8	F		1728	3	8	F	1729	10	13	F	1730	11	3	F
9	F		1728	3	20	R	1729	10	22	F	1730	11	4	F
5	F		1728	3	27	F	1729	10	24	F	1730	11	5	F
6	F		1728	3	29	F	1729	11	16	F	1730	11	6	F
7	F		1728	3	31	F	1729	11	17	F	1730	11	7	F
8	F		1728	4	2	F	1729	11	19	F	1730	11	8	F
17	R		1728	4	3	F	1730	1	8	F	1730	12	25	F
17	F		1728	4	9	F	1730	1	9	F	1730	12	30	F
24	F		1728	6	25	F	1730	1	12	R	1731	2	10	F
28	F		1728	6	29	F	1730	1	16	F	1731	3	2	F
5	F		1728	7	13	F	1730	2	9	F	1731	3	7	F
26	F		1728	7	16	F	1730	2	14	R	1731	4	3	F
27	F		1728	8	2	F	1730	2	15	R	1731	8	27	F
28	F		1728	8	29	F	1730	2	16	F	1731	8	31	F
9	F		1728	8	30	F	1730	3	3	F	1731	9	26	F
15	F		1728	8	31	F	1730	3	6	R	1731	9	30	F
19	R		1728	9	15	F	1730	3	7	F	1731	10	2	F

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1731	10	3	F	1733	4	13	F	1735	4	23	F
1731	10	4	F	1733	4	18	F	1735	7	17	F
1731	10	7	F	1733	5	16	F	1735	8	23	F
1731	10	8	F	1733	7	7	F	1735	8	31	F
1731	10	23	F	1733	7	21	F	1735	9	24	F
1731	12	30	F	1733	9	6	F	1735	10	15	F
1732	1	26	F	1733	10	3	F	1735	10	22	F
1732	1	28	F	1733	10	10	F	1735	10	23	F
1732	1	29	F	1733	10	15	F	1735	11	14	F
1732	2	2	F	1733	11	7	F	1736	1	22	F
1732	2	18	F	1733	11	12	F	1736	2	17	F
1732	2	26	F	1733	12	8	F	1736	3	15	R
1732	2	29	F	1733	12	10	F	1736	4	5	F
1732	3	2	F	1734	1	8	F	1736	4	14	F
1732	3	21	F	1734	1	25	R	1736	5	4	R
1732	3	22	F	1734	2	3	F	1736	7	7	F
1732	3	23	F	1734	2	22	F	1736	7	8	F
1732	3	24	F	1734	3	8	F	1736	8	13	F
1732	3	26	F	1734	3	22	F	1736	9	3	F
1732	3	27	F	1734	4	7	F	1736	9	4	F
1732	3	28	F	1734	4	8	F	1736	9	5	F
1732	4	3	F	1734	4	9	F	1736	9	9	F
1732	4	17	F	1734	4	10	F	1736	9	17	F
1732	4	18	F	1734	5	24	F	1736	9	25	F
1732	6	26	F	1734	5	25	F	1736	9	29	F
1732	8	22	F	1734	5	26	F	1736	9	30	F
1732	8	23	F	1734	9	19	F	1736	10	1	F
1732	9	1	F	1734	9	20	F	1736	10	4	F
1732	9	10	F	1734	9	23	F	1736	10	6	F
1732	9	19	F	1734	9	27	F	1736	10	7	F
1732	9	20	F	1734	9	29	F	1736	10	10	F
1732	9	21	F	1734	10	1	F	1736	10	20	F
1732	9	26	F	1734	10	2	F	1736	10	25	F
1732	9	27	F	1734	10	5	F	1736	10	26	F
1732	10	5	F	1734	10	14	F	1736	10	27	F
1732	10	22	F	1734	10	30	F	1736	10	28	F
1732	10	23	F	1734	12	25	F	1736	10	29	F
1732	10	25	F	1735	1	26	F	1736	10	30	F
1732	10	26	F	1735	2	21	F	1736	11	7	F
1732	11	4	F	1735	2	22	F	1736	11	8	F
1732	11	9	F	1735	3	2	F	1736	11	18	F
1732	11	12	F	1735	3	20	F	1736	11	19	F
1732	11	19	F	1735	3	22	F	1736	11	24	F
1732	11	20	F	1735	3	23	F	1736	11	25	F
1732	11	21	F	1735	3	24	F	1736	12	18	F
1732	12	13	F	1735	3	25	F	1736	12	22	F
1733	3	3	F	1735	3	26	F	1737	1	1	F
1733	4	1	F	1735	4	22	F	1737	1	4	F

nth	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
4	23	F	1737	1	19	F	1738	11	7	F	1741	7	23	F
7	17	F	1737	1	20	F	1738	12	4	F	1741	8	10	F
3	23	F	1737	1	21	F	1739	2	1	F	1741	8	13	F
3	31	F	1737	1	24	F	1739	2	27	F	1741	8	20	F
1	24	F	1737	1	29	F	1739	3	6	F	1741	8	22	F
1	15	F	1737	1	30	F	1739	3	10	F	1741	9	4	F
1	22	F	1737	1	31	F	1739	3	11	F	1741	9	19	F
	23	F	1737	2	1	R	1739	3	12	F	1741	10	1	F
	14	F	1737	2	2	F	1739	3	13	F	1741	10	2	F
	22	F	1737	2	28	F	1739	3	29	R	1741	10	3	F
	17	F	1737	3	28	F	1739	4	5	F	1741	10	4	F
	15	R	1737	3	29	F	1739	4	10	F	1741	10	5	F
	5	F	1737	4	7	F	1739	4	29	F	1741	10	8	P
	14	F	1737	6	1	F	1739	5	1	F	1741	10	9	P
	4	R	1737	6	4	F	1739	5	2	F	1741	10	10	P
	7	F	1737	6	30	F	1739	5	4	F	1741	10	13	F
	8	F	1737	8	20	F	1739	6	2	F	1741	10	14	F
13	3	F	1737	8	21	F	1739	8	10	F	1741	10	15	F
	4	F	1737	8	22	F	1739	8	12	F	1741	10	28	F
	3	F	1737	8	23	F	1739	8	28	F	1741	11	2	F
	5	F	1737	8	24	F	1739	9	8	F	1741	11	12	F
	9	F	1737	8	25	F	1739	9	23	F	1741	12	16	R
	17	F	1737	9	13	S	1739	9	24	F	1742	1	29	F
	25	F	1737	9	22	F	1739	9	26	F	1742	3	3	F
	29	F	1737	9	28	F	1739	9	28	F	1742	3	8	F
	30	F	1737	10	1	F	1739	9	30	F	1742	3	13	F
	1	F	1737	10	23	F	1739	10	3	F	1743	3	16	F
	4	F	1737	11	12	F	1739	10	31	F	1742	3	26	F
	6	F	1737	11	19	F	1739	11	16	F	1742	3	27	F
	7	F	1737	11	20	F	1739	11	23	F	1742	3	28	F
	10	F	1737	12	15	F	1740	1	30	F	1742	4	2	F
	20	F	1737	12	16	R	1740	3	23	F	1742	4	4	F
	25	F	1737	12	21	F	1740	3	24	F	1742	4	10	F
	26	F	1737	12	22	F	1740	3	25	F	1742	8	26	F
	27	F	1737	12	24	F	1740	11	3	F	1742	8	30	F
	28	F	1737	12	28	F	1741	1	13	F	1742	9	7	F
	29	F	1738	1	25	F	1741	1	20	F	1742	10	23	F
	30	F	1738	2	12	F	1741	1	22	F	1742	10	27	F
	7	F	1738	2	16	F	1741	1	23	F	1743	1	3	F
	8	F	1738	2	18	F	1741	3	6	F	1743	1	23	F
18	18	F	1738	2	19	F	1741	3	11	F	1743	3	7	F
19	19	F	1738	3	18	F	1741	3	12	F	1743	3	19	F
24	24	F	1738	3	21	F	1741	3	13	F	1743	3	20	F
25	25	F	1738	7	11	F	1741	3	16	F	1743	3	24	F
18	18	F	1738	8	13	F	1741	3	20	F	1743	3	26	F
22	22	F	1738	9	16	F	1741	4	6	F	1743	3	28	F
1	1	F	1738	10	12	F	1741	4	9	F	1743	4	12	F
4	4	F	1738	11	4	F	1741	4	16	F	1743	8	9	F

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1743	9	18	F	1747	10	19	F	1750	4	3	F
1743	9	19	F	1747	12	2	F	1750	4	5	F
1743	10	7	F	1747	12	3	F	1750	4	8	F
1743	10	8	F	1747	12	17	F	1750	4	13	F
1743	10	25	F	1747	12	18	F	1750	4	14	F
1744	2		P	1747	12	24	F	1750	4	15	F
1744	4	1	P	1747	12	26	F	1750	5	1	F
1744	4	2	F	1748	2	27	F	1750	5	2	F
1744	10	3	F	1748	3	28	F	1750	5	3	F
1744	12	25	F	1748	3	29	F	1750	7	26	F
1745	1	18	F	1748	6	3	F	1750	8	24	F
1745	1	21	F	1748	9	11	F	1750	8	26	F
1745	10	17	F	1748	9	23	F	1750	8	27	F
1746	1	12	F	1748	12	15	F	1750	9	2	F
1746	2	23	F	1748	12	16	F	1750	9	4	F
1746	2	26	F	1748	12	18	F	1750	9	7	F
1746	3	10	F	1748	12	24	F	1750	9	8	F
1746	3	19	F	1749	2	3	R	1750	9	22	F
1746	3	25	F	1749	2	9	F	1750	10	13	F
1746	10	13	F	1749	2	11	F	1750	10	22	F
1746	10	18	F	1749	2	16	F	1750	10	26	F
1746	10	19	F	1749	3	10	F	1750	11	2	F
1746	10	22	F	1749	3	11	F	1750	11	4	F
1746	10	23	F	1749	3	18	F	1750	12	14	F
1746	10	26	F	1749	3	21	F	1750	12	19	F
1746	10	28	F	1749	3	23	F	1750	12	28	F
1746	10	31	P	1749	4	2	F	1751	1	4	F
1746	12	7	F	1749	4	5	F	1751	1	24	F
1746	12	18	F	1749	4	7	F	1751	2	11	F
1746	12	24	F	1749	4	18	F	1751	2	19	F
1747	1	6	F	1749	5	10	F	1751	3	1	F
1747	1	8	F	1749	9	22	P	1751	3	2	F
1747	1	9	F	1749	10	8	F	1751	3	17	F
1747	1	10	F	1749	11	16	F	1751	3	21	F
1747	2	7	F	1750	1	1	F	1751	4	2	F
1747	3	10	F	1750	1	5	F	1751	4	26	F
1747	3	17	F	1750	1	6	F	1751	8	19	F
1747	4	2	F	1750	2	3	P	1751	10	23	F
1747	4	3	F	1750	2	4	F	1752	1	9	F
1747	8	4	F	1750	2	7	F	1752	2	28	S
1747	8	31	F	1750	2	9	F	1752	3	3	F
1747	9	5	F	1750	2	10	F	1752	3	7	F
1747	9	10	F	1750	2	26	F	1752	3	8	F
1747	9	26	P	1750	2	27	F	1752	3	18	F
1747	9	27	P	1750	3	4	F	1752	10	2	F
1747	10	1	F	1750	3	9	F	1752	10	3	F
1747	10	2	F	1750	3	11	F	1752	10	5	F
1747	10	9	F	1750	3	12	F	1752	10	12	F

h	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
3	F		1752	10	13	F	1764	3	13	P	1770	9	15	JZ
5	F		1752	10	14	F	1764	4	17	F	1770	9	17	S
8	F		1752	12	5	F	1764	9	29	F	1770	9	18	JZ
13	F		1753	1	2	F	1764	9	30	F	1770	9	19	JZ
14	F		1753	1	23	F	1765	10	12	F	1770	9	20	S
15	F		1753	1	24	F	1768	2	18	F	1770	9	25	M
1	F		1753	4	7	F	1768	5	4	F	1770	10	3	JZ
2	F		1753	4	20	F	1768	5	5	F	1770	11	26	F
3	F		1754	2	15	F	1768	7	20	T	1771	2	19	F
26	F		1754	3	18	F	1768	8	6	F	1771	3	13	F
24	F		1754	3	25	F	1768	10	28	P	1771	4	5	F
26	F		1754	10	16	F	1768	12	5	R	1771	4	15	F
27	F		1754	12	18	F	1769	1	5	F	1771	5	8	F
2	F		1754	12	19	F	1769	2	18	F	1771	5	12	F
4	F		1755	1	6	F	1769	2	26	R	1771	5	13	F
7	F		1755	1	7	F	1769	2	27	R	1771	6	2	F
8	F		1756	9	14	F	1769	3	4	F	1771	9	17	JZ
22	F		1756	9	29	F	1769	3	18	F	1771	10	6	F
13	F		1756	10	12	F	1769	3	27	F	1771	10	9	F
22	F		1756	10	25	F	1769	4	13	F	1771	10	12	M
26	F		1756	10	26	F	1769	4	20	F	1771	11	1	F
2	F		1757	9	16	F	1769	5	27	F	1771	11	12	F
4	F		1757	11	12	F	1769	8	27	JZ	1771	11	13	F
14	F		1758	1	8	F	1769	9	9	F	1771	11	14	F
19	F		1758	2	2	F	1769	9	26	S	1771	12	5	F
28	F		1758	12	7	P	1769	9	28	P	1772	2	6	F
4	F		1759	2	4	F	1769	10	24	S	1772	3	5	F
24	F		1759	2	20	F	1769	10	25	F	1772	3	6	F
11	F		1759	3	23	F	1769	10	26	F	1772	3	8	F
19	F		1759	4	5	F	1769	10	27	F	1772	3	28	F
1	F		1759	4	25	F	1769	10	29	T	1772	4	3	F
2	F		1759	9	16	F	1769	10	31	R	1772	7	30	T
17	F		1759	10	31	F	1769	11	17	F	1772	8	31	F
21	F		1759	11	26	F	1769	12	18	S	1772	9	20	F
2	F		1760	2	14	P	1770	1	17	F	1772	9	25	F
26	F		1760	7	20	F	1770	1	18	S	1772	9	27	F
19	F		1761	2	21	F	1770	1	21	F	1772	10	2	F
23	F		1761	2	28	S	1770	2	12	F	1772	10	14	F
9	F		1761	9	19	P	1770	2	25	F	1772	10	23	F
28	S		1761	11	19	R	1770	3	23	F	1772	10	27	F
3	F		1762	3	21	F	1770	3	27	F	1772	10	30	F
7	F		1762	5	21	F	1770	4	13	F	1772	11	15	F
8	F		1763	10	16	F	1770	4	19	F	1772	11	24	F
18	F		1763	10	17	F	1770	7	31	F	1772	12	18	F
2	F		1763	11		R	1770	8	30	F	1772	12	20	F
3	F		1764	3	4	F	1770	8	31	F	1773	1	16	F
5	F		1764	3	5	F	1770	9	9	F	1773	1	17	F
12	F		1764	3	7	P	1770	9	11	JZ	1773	1	18	F

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1773	1	19	F	1774	4	4	F	1776	4	8	F
1773	1	21	F	1774	4	7	F	1776	8	14	F
1773	2	1	F	1774	4	23	F	1776	9	3	F
1773	2	18	F	1774	5	1	F	1776	9	4	F
1773	2	20	F	1774	5	2	F	1776	9	5	F
1773	2	21	F	1774	4	3	F	1776	9	16	F
1773	3	12	F	1774	5	5	F	1776	9	22	F
1773	3	13	F	1774	6	13	F	1776	9	23	F
1773	3	14	F	1774	7	10	F	1776	11	16	F
1773	3	15	F	1774	7	13	F	1776	12	23	T
1773	3	16	F	1774	7	14	F	1777	1	28	F
1773	3	21	F	1774	8	21	F	1777	2	5	F
1773	3	23	F	1774	8	22	F	1777	2	6	F
1773	3	26	F	1774	8	27	F	1777	2	7	F
1773	4	20	F	1774	8	28	F	1777	2	26	F
1773	4	27	F	1774	9	25	F	1777	3	1	F
1773	5	11	F	1774	9	26	F	1777	3	5	F
1773	5	13	F	1774	9	30	F	1777	3	6	F
1773	5	24	F	1774	10	8	F	1777	3	10	F
1773	5	26	F	1774	11	3	F	1777	3	12	F
1773	6	24	F	1774	11	5	F	1777	3	22	F
1773	7	17	F	1774	11	23	M	1777	3	28	F
1773	7	25	F	1774	12	1	F	1777	3	29	F
1773	8	15	F	1774	12	4	F	1777	4	4	F
1773	8	16	F	1774	12	26	F	1777	4	5	F
1773	9	11	F	1775	1	20	F	1777	4	6	F
1773	9	24	F	1775	1	21	F	1777	4	7	F
1773	9	27	F	1775	1	23	F	1777	4	8	F
1773	10	7	F	1775	1	24	F	1777	4	9	F
1773	10	19	F	1775	1	25	F	1777	5	5	F
1773	10	20	F	1775	1	28	F	1777	6	28	F
1773	10	21	F	1775	2	19	F	1777	8	24	F
1773	10	27	F	1775	2	20	F	1777	8	26	F
1773	10	28	F	1775	2	21	F	1777	8	27	F
1773	11	17	F	1775	3	10	S	1777	9	7	F
1773	12	15	F	1775	4	13	F	1777	9	24	F
1774	1	10	F	1775	4	19	F	1777	9	26	F
1774	1	11	F	1775	6	6	M	1777	10	8	F
1774	3	2	F	1775	9	17	F	1777	10	10	F
1774	3	3	F	1775	10	16	R	1777	10	22	F
1774	3	13	F	1775	10	18	F	1777	10	24	F
1774	3	14	F	1775	10	21	F	1777	11	3	F
1774	3	15	F	1775	12	15	F	1777	11	6	F
1774	3	17	F	1775	12	26	F	1777	11	7	F
1774	3	20	F	1776	1	18	F	1777	11	21	F
1774	3	30	F	1776	1	20	F	1777	11	27	S
1774	3	31	F	1776	1	21	F	1777	11	28	S
1774	4	1	F	1776	3	28	F	1777	12	1	F

nth	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
4	8	F	1777	12	2	F	1778	12	14	F	1779	8	20	F
3	14	F	1777	12	3	S	1778	12	17	F	1779	8	23	S
)	3	F	1777	12	5	F	1779	1	7	F	1779	8	29	F
)	4	F	1777	12	6	F	1779	1	10	F	1779	9	10	F
1	5	F	1777	12	18	F	1779	1	13	S	1779	9	17	F
	16	F	1777	12	22	S	1779	1	14	F	1779	9	18	F
	22	F	1778	1	18	F	1779	1	19	F	1779	9	19	S
	23	F	1778	1	19	F	1779	2	4	F	1779	9	28	F
	16	F	1778	1	20	F	1779	2	6	F	1779	9	29	F
	23	T	1778	1	21	F	1779	2	7	F	1779	10	3	F
	28	F	1778	1	25	F	1779	2	9	S	1779	10	4	F
	5	F	1778	1	26	F	1779	2	10	S	1779	10	13	S
	6	F	1778	2	16	F	1779	2	11	R	1779	10	14	S
	7	F	1778	2	17	F	1779	2	12	F	1779	10	17	F
	26	F	1778	2	25	S	1779	2	13	S	1779	10	19	F
	1	F	1778	2	26	F	1779	2	14	F	1779	10	20	F
	5	F	1778	3	17	F	1779	2	15	S	1779	11	7	F
	6	F	1778	3	18	F	1779	3	2	F	1779	11	8	F
10	F	F	1778	3	22	F	1779	3	14	S	1779	11	9	S
12	F	F	1778	3	26	F	1779	3	15	F	1779	11	13	F
22	F	F	1778	3	27	F	1779	3	20	P	1779	11	14	S
28	F	F	1778	4	7	S	1779	3	23	S	1779	11	15	F
29	F	F	1778	4	14	F	1779	3	25	S	1779	12	5	S
4	F	F	1778	4	21	F	1779	3	30	F	1779	12	6	F
5	F	F	1778	4	23	F	1779	3	31	F	1779	12	9	F
6	F	F	1778	4	26	F	1779	4	2	F	1779	12	11	F
7	F	F	1778	5	14	F	1779	4	3	F	1780	2	11	F
8	F	F	1778	5	22	F	1779	4	7	F	1780	2	29	S
9	F	F	1778	6	28	F	1779	4	8	F	1780	3	1	F
5	F	F	1778	7	3	F	1779	4	9	F	1780	3	2	S
28	F	F	1778	7	7	F	1779	4	10	S	1780	3	30	F
24	F	F	1778	7	9	F	1779	4	11	S	1780	6	15	T
26	F	F	1778	8	20	S	1779	4	13	F	1780	7	27	F
27	F	F	1778	8	22	F	1779	4	17	F	1780	7	28	R
7	F	F	1778	8	28	F	1779	4	18	F	1780	7	29	F
24	F	F	1778	9	15	F	1779	4	20	F	1780	9	1	F
26	F	F	1778	9	17	F	1779	4	21	F	1780	9	3	F
8	F	F	1778	9	18	S	1779	4	22	F	1780	9	4	F
10	F	F	1778	9	19	F	1779	5	10	F	1780	9	17	F
22	F	F	1778	9	21	S	1779	5	11	F	1780	10	10	F
24	F	F	1778	9	22	F	1779	5	16	S	1780	10	29	P
3	F	F	1778	9	23	F	1779	5	19	S	1780	10	30	F
6	F	F	1778	9	24	S	1779	5	20	F	1780	11	21	F
7	F	F	1778	9	30	F	1779	5	24	F	1780	11	22	F
21	F	F	1778	10	14	S	1779	6	8	F	1780	11	24	R
27	S	S	1778	11	20	S	1779	7	9	F	1780	11	25	S
28	S	S	1778	12	3	F	1779	7	15	F	1780	11	26	R
1	F	F	1778	12	13	F	1779	8	3	F	1780	11	27	F

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1780	12	7	F	1782	1	5	S	1783	3	29	F
1780	12	19	F	1782	1	10	F	1783	3	30	F
1781	1	6	M	1782	2	3	F	1783	3	31	F
1781	1	18	F	1782	2	16	S	1783	4	2	F
1781	1	21	F	1782	2	18	F	1783	4	3	F
1781	1	30	R	1782	2	21	F	1783	4	7	F
1781	1	31	F	1782	2	25	S	1783	4	9	F
1781	2	15	F	1782	3	9	F	1783	4	12	S
1781	2	16	R	1782	3	10	S	1783	4	21	F
1781	3	14	F	1782	3	15	F	1783	4	25	F
1781	3	19	F	1782	3	17	F	1783	4	26	F
1781	3	20	F	1782	4	1	F	1783	4	27	S
1781	3	23	F	1782	4	4	F	1783	4	28	S
1781	3	27	S	1782	4	6	F	1783	4	29	S
1781	3	28	F	1782	4	13	F	1783	4	30	F
1781	3	29	F	1782	4	27	F	1783	5	1	F
1781	4	14	F	1782	5	5	F	1783	5	3	S
1781	4	15	F	1782	5	7	F	1783	5	5	S
1781	4	25	F	1782	5	9	F	1783	5	12	F
1781	5	11	F	1782	6	4	F	1783	5	16	F
1781	6	6	F	1782	6	5	F	1783	5	21	F
1781	6	8	F	1782	7	20	F	1783	5	22	F
1781	8	6	F	1782	7	31	F	1783	5	29	F
1781	8	9	S	1782	9	2	F	1783	6	1	F
1781	8	21	F	1782	9	6	F	1783	7	7	S
1781	8	26	F	1782	9	10	F	1783	7	28	F
1781	9	18	F	1782	9	12	F	1783	8	1	S
1781	9	19	F	1782	9	13	S	1783	8	8	S
1781	9	22	S	1782	9	15	F	1783	8	18	S
1781	9	23	F	1782	9	30	F	1783	8	19	F
1781	9	24	F	1782	10	1	F	1783	9	15	F
1781	9	25	F	1782	10	2	F	1783	9	25	S
1781	9	26	F	1782	10	3	F	1783	9	26	F
1781	10	14	S	1782	10	8	R	1783	10	22	R
1781	10	15	F	1782	10	9	F	1783	10	23	F
1781	10	16	S	1782	11	20	F	1783	10	26	F
1781	10	19	F	1783	1	13	F	1783	10	29	S
1781	10	23	F	1783	2	28	F	1783	10	31	F
1781	10	26	S	1783	3	4	F	1783	11	14	F
1781	11	13	F	1783	3	18	R	1783	11	24	S
1781	11	14	F	1783	3	20	F	1783	12	18	S
1781	11	15	F	1783	3	21	S	1784	1	4	S
1781	11	16	F	1783	3	22	S	1784	1	5	S
1781	11	19	F	1783	3	23	R	1784	1	10	S
1781	12	10	S	1783	3	24	F	1784	1	11	F
1781	12	11	R	1783	3	26	F	1784	2	16	S
1781	12	12	F	1783	3	27	F	1784	2	23	F
1782	1	4	S	1783	3	28	F	1784	2	25	S

onth Day Ref.

3 29 F
 3 30 F
 3 31 F
 4 2 F
 4 3 F
 4 7 F
 4 9 F
 4 12 S
 4 21 F
 4 25 F
 4 26 F
 4 27 S
 4 28 S
 4 29 S
 4 30 F
 1 F
 3 S
 5 S
 12 F
 16 F
 21 F
 22 F
 29 F
 1 F
 7 S
 28 F
 1 S
 8 S
 18 S
 19 F
 15 F
 25 S
 26 F
 22 R
 23 F
 26 F
 29 S
 31 F
 14 F
 24 S
 18 S
 4 S
 5 S
 10 S
 11 F
 16 S
 23 F
 25 S

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1784	3	10	S	1786	4	20	F	1786	11	14	F
1784	4	9	F	1786	4	21	F	1786	11	20	F
1784	4	21	F	1786	4	22	F	1786	12	25	F
1784	5	12	F	1786	4	23	F	1787	1	1	S
1784	5	17	F	1786	4	24	F	1787	1	7	F
1784	7	25	R	1786	4	25	F	1787	1	9	F
1784	8	4	S	1786	4	26	S	1787	1	12	F
1784	9	13	S	1786	4	27	F	1787	1	17	T
1784	9	15	S	1786	4	29	S	1787	1	21	F
1784	11	11	S	1786	4	30	F	1787	1	22	S
1784	11	15	S	1786	5	1	S	1787	1	24	F
1784	12	31	F	1786	5	2	F	1787	1	25	F
1785	3	6	F	1786	5	11	F	1787	1	27	S
1785	4	12	F	1786	5	14	F	1787	1	28	S
1785	4	29	F	1786	5	15	S	1787	2	6	F
1785	5	1	F	1786	5	18	F	1787	2	15	F
1785	5	23	F	1786	5	19	F	1787	2	16	F
1785	6	26	S	1786	5	22	F	1787	2	17	F
1785	7	3	F	1786	5	24	F	1787	2	18	F
1785	7	17	F	1786	5	30	F	1787	2	22	F
1785	7	21	S	1786	5	31	F	1787	2	24	S
1785	7	24	F	1786	6	30	F	1787	2	25	S
1785	8	3	F	1786	7	5	F	1787	2	27	S
1785	8	9	R	1786	7	13	F	1787	3	6	F
1785	10	4	F	1786	7	15	F	1787	3	16	F
1785	10	5	F	1786	7	20	F	1787	3	17	F
1785	10	6	F	1786	7	24	F	1787	3	18	R
1785	11	2	F	1786	7	29	S	1787	3	19	F
1785	11	5	F	1786	8	1	S	1787	3	20	F
1785	11	29	F	1786	8	2	F	1787	3	21	F
1785	11	30	F	1786	8	18	F	1787	3	22	F
1786	1	1	S	1786	8	21	F	1787	3	24	F
1786	1	4	S	1786	9	3	F	1787	3	26	F
1786	2	17	F	1786	9	8	F	1787	4	2	F
1786	2	27	S	1786	9	19	F	1787	4	12	F
1786	2	28	F	1786	9	20	F	1787	4	13	F
1786	3	1	M	1786	9	29	F	1787	4	18	F
1786	3	2	S	1786	10	1	S	1787	4	19	F
1786	3	19	S	1786	10	2	F	1787	4	20	F
1786	3	20	F	1786	10	13	F	1787	4	26	F
1786	3	21	F	1786	10	14	F	1787	5	12	S
1786	3	22	S	1786	10	16	F	1787	5	13	S
1786	3	23	F	1786	10	17	F	1787	5	14	S
1786	3	25	F	1786	10	18	F	1787	5	15	F
1786	3	29	F	1786	10	23	F	1787	5	16	F
1786	3	31	F	1786	10	25	S	1787	5	17	F
1786	4	2	S	1786	10	28	F	1787	5	18	F
1786	4	18	F	1786	11	12	F	1787	5	19	F

Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
1787	6	6	S	1788	1	10	F	1788	9	5	S
1787	6	7	F	1788	1	11	F	1788	9	6	F
1787	6	8	F	1788	1	14	F	1788	9	10	F
1787	6	10	F	1788	2	4	F	1788	9	24	F
1787	6	16	S	1788	2	6	F	1788	9	27	F
1787	6	20	S	1788	2	8	F	1788	9	28	S
1787	6	21	F	1788	2	11	S	1788	9	29	F
1787	7	13	R	1788	2	15	R	1788	10	1	S
1787	7	14	F	1788	2	21	S	1788	10	11	S
1787	7	16	F	1788	3	7	F	1788	10	12	F
1787	7	17	S	1788	3	8	F	1788	10	21	S
1787	7	21	S	1788	3	14	F	1788	10	22	R
1787	7	30	F	1788	3	27	F	1788	10	24	F
1787	8	2	S	1788	3	28	F	1788	10	25	F
1787	8	3	S	1788	4	1	F	1788	10	27	S
1787	8	7	S	1788	4	2	F	1788	10	28	F
1787	8	10	F	1788	4	3	F	1788	10	30	F
1787	8	19	F	1788	4	5	S	1788	10	31	F
1787	8	21	F	1788	4	6	S	1788	11	1	F
1787	9	6	S	1788	4	27	F	1788	11	2	F
1787	9	7	F	1788	4	28	F	1788	11	5	P
1787	9	23	F	1788	4	29	F	1788	11	23	F
1787	9	26	S	1788	4	30	F	1788	11	30	F
1787	9	30	F	1788	5	2	S	1788	12	21	F
1787	10	1	F	1788	5	4	F	1788	12	23	S
1787	10	4	F	1788	5	10	F	1788	12	24	F
1787	10	5	S	1788	5	24	F	1789	1	11	F
1787	10	6	S	1788	5	25	F	1789	1	29	F
1787	10	7	S	1788	5	26	F	1789	2	2	F
1787	10	10	R	1788	6	4	F	1789	2	15	F
1787	10	11	S	1788	6	25	F	1789	2	23	F
1787	10	13	S	1788	6	29	S	1789	2	26	F
1787	10	14	F	1788	7	2	F	1789	2	28	F
1787	10	16	F	1788	7	30	F	1789	3	1	S
1787	10	17	S	1788	7	31	F	1789	3	14	F
1787	10	24	R	1788	8	1	F	1789	3	16	F
1787	10	30	S	1788	8	2	F	1789	3	27	S
1787	10	31	S	1788	8	19	S	1789	3	28	F
1787	11	3	S	1788	8	20	F	1789	3	29	F
1787	11	4	F	1788	8	23	F	1789	3	30	F
1787	11	7	F	1788	8	27	F	1789	4	1	R
1787	11	8	S	1788	8	28	S	1789	4	12	F
1787	11	9	F	1788	8	29	F	1789	4	13	F
1787	11	26	S	1788	8	31	F	1789	4	17	F
1787	11	29	F	1788	9	1	F	1789	4	19	F
1787	11	30	S	1788	9	2	F	1789	4	20	F
1787	12	9	F	1788	9	3	F	1789	4	27	F
1788	1	9	F	1788	9	4	F	1789	5	17	F

Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.	Year	Month	Day	Ref.
5	S	1789	5	23	F	1790	3	10	F	1791	11	18	F
6	F	1789	5	24	F	1790	3	11	F	1791	11	19	F
10	F	1789	5	28	F	1790	3	16	F	1791	11	26	P
24	F	1789	6	12	F	1790	3	17	F	1791	12	26	F
27	F	1789	6	16	F	1790	3	18	F	1791	12	27	F
28	S	1789	6	19	F	1790	3	19	F	1792	1	18	F
29	F	1789	6	24	F	1790	3	20	F	1792	2	17	F
1	S	1789	7	28	F	1790	4	2	F	1792	4	10	F
11	S	1789	7	29	F	1790	4	3	F	1792	4	11	F
12	F	1789	8	1	S	1790	4	4	F	1792	4	16	F
21	S	1789	8	14	F	1790	4	6	F	1792	4	17	F
22	R	1789	8	15	F	1790	4	9	F	1792	9		M
24	F	1789	8	18	F	1790	4	16	F	1792	10	13	F
25	F	1789	8	19	S	1790	4	17	F	1792	10	14	F
27	S	1789	8	24	F	1790	4	30	F	1792	10	18	F
28	F	1789	8	25	F	1790	5	16	S	1792	12	12	F
30	F	1789	9	14	F	1790	5	30	S	1793	1	12	F
31	F	1789	9	20	F	1790	6	3	F	1793	1	13	F
1	F	1789	9	21	F	1790	6	16	S	1793	3	13	F
2	F	1789	9	25	F	1790	7	16	F	1793	4	16	S
5	P	1789	9	26	F	1790	9	30	F	1794	4	30	F
23	F	1789	9	27	F	1790	10	1	F	1794	12	7	F
30	F	1789	10	18	F	1790	10	4	F	1794	12	8	F
21	F	1789	10	19	F	1790	10	9	F	1795	10	17	S
23	S	1789	10	20	S	1790	10	18	F	1796	6		M
24	F	1789	10	21	F	1790	10	31	F	1799	7	30	S
11	F	1789	10	23	F	1790	11	7	F	1800	9		M
29	F	1789	10	31	F	1790	11	8	F	1801	1	7	S
2	F	1789	11	14	F	1790	11	9	F	1803	3	19	F
15	F	1789	11	15	F	1790	11	10	F	1803	9	17	F
23	F	1789	11	19	F	1790	11	12	F	1804	3	29	Mo
26	F	1789	11	21	F	1790	11	28	F	1804	4	1	F
28	F	1789	11	22	F	1790	12	26	F	1804	5	2	F
1	S	1789	11	25	F	1791	1	6	S	1804	10	22	S
14	F	1789	11	26	F	1791	1	7	F	1805	1	1	F
16	F	1789	11	27	F	1791	1	26	S	1805	9	22	F
27	S	1789	12	14	F	1791	3	5	F	1805	9	24	F
28	F	1789	12	16	F	1791	3	7	F	1805	10	21	S
29	F	1789	12	24	F	1791	3	26	F	1805	11	18	F
30	F	1790	1	14	F	1791	5	26	F	1806	11	2	F
1	R	1790	1	18	F	1791	9	5	F	1806	11	3	R
12	F	1790	1	29	S	1791	9	11	F	1806	11	4	R
13	F	1790	2	9	F	1791	9	28	F	1806	11	5	R
17	F	1790	2	12	F	1791	10	22	F	1808	3	25	F
19	F	1790	2	13	F	1791	10	23	F	1812	11	15	S
20	F	1790	2	14	F	1791	10	28	S	1814	4	7	F
27	F	1790	2	17	JZ	1791	10	29	F	1814	4	17	F
17	F	1790	3	8	F	1791	11	3	F	1814	9	10	F