

I A G A Bulletin No. 12 v2

INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS

ASSOCIATION OF GEOMAGNETISM AND AERONOMY

GEOMAGNETIC DATA 1967
RAPID VARIATIONS

by

A. ROMANA and D. VAN SABBEN

Published for the International Council of Scientific Unions with the
financial assistance of Unesco

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GEOMAGNETIC DATA 1967

RAPID VARIATIONS

Introduction

List of observatories. The list of observatories has been taken from Bulletin 12 v1 (Geomagnetic Data 1967, Indices K and C), with some little changes.

The first three pages of the list of observatories give the name of the observatory and its two-letter symbol, the name of the collaborator and the geographic and geomagnetic coordinates. Beginning with the issue 12 t2 of 1965 new station-symbols are used consisting of two capital letters. The committee decided to make this change in order to facilitate the use of the symbols in procedures of mechanical typing, whereby no small (lower case) letter type is available. The new symbols were established during the IAGA-assembly at ST. Gallen (1967) by the Working Group on Magnetic Observatories. The old letter combinations were maintained as much as possible. For this reason and because no three-letter symbols are used, there are some differences with the symbols used by G. Faselau in IAGA-Bulletin No. 20 (List of Observatories). However this will not cause any confusion, except for the symbol SC, which has been used for Santa Cruz, Tenerife, in the former Bulletin in this series (No. 12s), while in Bulletin 20 this symbol stands for Santa Cruz, Bolivia. Therefore, in the present Bulletin and the forthcoming Bulletin's No. 12, the symbol for Santa Cruz, Tenerife, will be SZ. The users are advised to change SC into SZ in the list of observatories on page 2 of the Bulletins 12 s1 and 12 s2. A survey of the old and the new symbols is given in the list of observatories.

The fourth to the sixth pages give the scale values of the instruments, used for scaling K or (and) C, the lower limit for K = 0, and the range of disturbance on a day with character-figure C = 1.

The seventh to the ninth pages give information on the instruments used for recording magnetograms and on the method used by some observatories for checking the solar-flare effects found in the magnetograms. The column "Ionospheric Stations or Radio Services" indicates the ionospheric or solar observatories or the radio services whose reports on Dellinger effects, eruptions on the sun, and black-outs in the radio communication enable the magnetic observatory to distinguish between a solar-flare effect and a bay-disturbance caused by particle radiation from the sun.

Table 1a is a list of sudden commencements followed by a magnetic storm or by an increase in activity lasting at least one hour (ssc), checked by 50 observatories. The times in the column at the left are mean values; but the extreme values attributed by some observatories to the beginning of the phenomenon are added in brackets. On printing grounds only the minutes are given. These minutes generally belong to the hour of the phenomenon; but if they are underlined, they belong to the preceding hour. Observatories which checked the sudden commencements and agreed with the term ssc are classified in six groups under the letters A, B, C, D, E, X, as follows:

A...when the phenomenon in their magnetograms is a very remarkable ssc

B...when it is a fair, ordinary, but unmistakable ssc

C...when it is a very poor or doubtful ssc

D...when it was decidedly not recorded in the magnetograms, although the records were satisfactory

E...when the phenomenon cannot be discerned because of heavy disturbance

X...when the record is missing

In some cases one or more observatories preferred another qualification (si, b, bp, etc.); these observatories are also indicated. The checking observatories were: TR SO CO DO NU LE MG SIKN MO ES WI SW IR NI VL GT HA KV MA DB NE FU HB OD AG LG AQ TK EB TL FR AK SM SF KS SS TU QU HO TE AL SJ MB GU PA TG TN GN HR.

Table 1b is a list of sudden commencements (ssc) originally given by an insufficient number of observatories to be included in the checking-lists and consequently not checked by other observatories; reports that arrived after the sending of the checking-lists have been included. The remarks are the same as for the Table 1a.

Table 2a is a list of commencements of bays or pulsational disturbances associated with bays. In accordance with the circular-letter of the 7th January 1964 these disturbances were not checked and therefore the list is based upon the monthly data only. The times at the left-hand side of the table are mean times. The extreme values attributed by some observatories to the beginning of the phenomenon are added in brackets. On printing grounds only the minutes are given. These minutes generally belong to the hour of the phenomenon, but if they are underlined they belong to the preceding hour. The observatories are mentioned in groups, according to the qualification (b, bs, bp, etc.) which they have attributed to the phenomenon in accordance with the definitions given by the Copenhagen- and Berkeley meetings. The classification symbols A, B, C, D, E, X, are the same as in Table 1a. The meaning of the symbols b, bs, etc. is:

b...clear and isolated bay appearing during a calm period without pulsations or sharp beginning

bs...bay with sharp beginning without pulsations

bp...bay with pulsations without sharp beginning

bps...bay with pulsations and sharp beginning

pi2...train of pulsations of irregular shape and beginning mostly impulsive, with period 40 - 150 sec., consisting of several series of oscillations, each series lasting about 10 minutes (pi2 corresponds with the former pt)

pg...giant pulsations, viz., exceptional pulsations of very great period and regularity, with sufficient relative amplitude

If pulsations precede or follow the beginning of the bay with a time lag of not more than about ten minutes, then symbols bp and bps are used. If the interval is greater, both phenomena are reported separately.

This list cannot be considered as complete, as it may be that a bay has been selected by the observatories out of a great many similar disturbances all occurring on the same day. Therefore it seems better not to use this table for statistical purposes without caution. This holds also for the Tables 2b, 2c, 2d, 2e, 3a, and 3b.

Table 2b gives a summary of pulsational disturbances of type pi-2 (the former pt) not associated with bays. These phenomena were not checked and the list is based upon the monthly data only. *) (see Note). The mean times and extreme times of the beginning of the phenomenon are given in table 2a.

Table 2c After the circular letter of January 7, 1964, continuous pulsations of the types pc-4 (period 45 - 150 sec.) and pc-5 (period 150 - 600 sec.) can also be given in forms for Ordinary Magnetograms and Tellurigrams. Table 2c gives a summary of these pulsational disturbances of the type pc-4. The mean times and extreme times of the beginning of the phenomenon are given in table 2a. *) (see Note).

Table 2d is a list of pulsational disturbances of type pc-5. (see table 2c).

Table 2e is a list of giant pulsations checked by 37 observatories. the same as for the ssc's, except MG SW IR NI HB AG LG TL AK AL MB GN HR. The mean times and extreme times of the beginning of the phenomenon are given in table 2a.

Table 3a gives a summary of sudden magnetic changes or impulses (si) which could not be classified as ssc, b, bp, etc.: They have been checked by 50 observatories, the same as for the ssc's. The mean times and extreme times of the beginning of the phenomenon are given as in table 2a.

Table 3b gives a summary of si's that were not checked, for the same reason as for the ssc's of table 1b. The mean times and extreme times of the beginning of the phenomenon are given as in table 2a.

Table 4 is a list of minor disturbances reported by one station only.

Table 5a gives a summary of solar-flare effects (sfe) reported by the observatories. The times tabulated in the column at the left are mean values of the times given for the beginning of a phenomenon. A check for the solar-flare effects was made by 58 observatories, the same as for the ssc's, except TR SW MO; on the other hand MT IK KA KY BA AP TO AM KG DU SB have checked only sfe's. Stations in the daylight hemisphere have been written behind the indicated times and grouped in the same way as in table 1a. Observatories near the subsolar point are underlined. Stations lying in the twilight-zone of the dark hemisphere, which reported a clear disturbance are indicated by dotted brackets. Stations under the same circumstances in the full dark have been given in parentheses. Stations on the night-side of the earth, which give a negative or doubtful answer, have been omitted. In cases where one or more stations reported a simultaneous disturbance from an ionospheric or solar observatory or from a radio service which gave support to the geomagnetic solar-flare effect, the indicated time has been underlined.

Note: More detailed information on pulsations, as reported by stations with rapid-run magnetograms, is collected by Dr. A. Romaña, S.J., Observatorio del Ebro, Roquetas, Spain, and published in the "Three-monthly Bulletin" of the "International Service of geomagnetic Indices", De Bilt, Netherlands and in the yearly supplement of this Bulletin.

Table 5b summarizes all doubtful solar-flare effects. In general, the following cases have been considered as doubtful: those where well-located stations (with respect to the subsolar point) did not report such an effect, (although several other stations have reported it), and those where some stations in full dark mentioned a disturbance which, considering the hour and their geographic position, would probably not be a night-side bay coexisting with a sfe at the day-side of the earth. Further, some cases were considered doubtful because the interpretation of the totality of data was hindered by simultaneous world wide perturbation. Nevertheless, it is very probable that several cases reported in this table are real solar-flare effects.

Table 5c summarizes times of presumed solar-flare effects, which are probably not real solar-flare effects, as several stations in full dark reported a sudden commencement, a sudden impulse or a bay-disturbance at the indicated time, whereas stations in full daylight found a doubtful effect or a disturbance that did not agree with an increase of the normal daily variation.

IAGA - Commission IV on Magnetic Variations and Disturbances

J. A. Jacobs, Chairman

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International Service of Geomagnetic Indices

A. Romaña

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Roquetas, Tarragona, Spain

D. van Sabben

Kon. Nederl. Meteorol. Instituut

De Bilt, Netherlands

AMENDMENTS TO THE LIST OF OBSERVATORIESMAGADAN

Collaborator T. A. Vnychcova.

Geomagnetic Latitude $+50.6^{\circ}$.

Scale Values in γ/mm D 2.5; H 2.3; Z 2.1 up to October 28, thereafter: D 2.9;
H 2.5; Z 3.2.

Ionospheric Station or Radio Service: Magadan Ionospheric Station.

ODESSA

Range for C = 1 120 - 250 γ

BANGUI

Scale Values in γ/mm D 5.6; H 2.2; Z 2.2.

Range for C = 1 350 γ

TANANARIVE

Collaborator Ph. Ah Hee.

Ionospheric Station or Radio Service: Tananarive V. L. F. Radio Station.

LIST OF OBSERVATORIES

Arranged according to geographic latitude

Symbols		Observatory	Collaborator	Geographic		Geomagnetic	
new	old			Lat.	Long.	Lat.	Long.
NP13	NP13	North Pole 13		+--° --'	--° --'	+--° --'	--° --'
BT	BT	Baya Tikhaya (O. Cheisa)	Koptev	+80 20	52 48	+71.5	153.3
CC	CC	Cape Chelyuskin	Solokov	+77 43	104 17	+65.9	176.5
TH	Th	Thule	K. Lassen	+77 29	290 50	+89.0	358.0
RB	RB	Resolute Bay	R. G. Madill	+74 41	265 10	+83.0	289.6
B4	B4	Bear Island	Steinar Berger	+74 31	19 01	+71.1	124.0
DI	Di	Dikson	Blagoechin	+73 33	80 34	+63.0	161.6
MS	MS	Matosnkin Shar	N. D. Medvedev	+73 16	56 24	+64.8	146.5
TI	Ti	Tiksy	Dolgich	+71 35	129 00	+60.4	191.4
PB	PB	Point Barrow	Terrence L. Hardiman	+71 18	203 15	+68.5	241.1
TR	Tr	Tromsø	Steinar Berger	+69 40	18 57	+67.2	116.8
GO	Go	Godhavn	K. Lassen	+69 14	306 29	+79.9	32.5
MM	Mm	Murmansk	M. I. Pudovkin	+68 15	33 05	+63.5	126.2
KI	Ki	Kiruna	N. Ambolt	+67 50	20 25	+65.3	115.8
SO	So	Sodankylä	E. Kataja	+67 22	26 38	+63.8	120.0
WE	We	Welen	Razin	+66 10	190 10	+61.8	237.1
CO	Co	College	John B. Townshend	+64 52	212 10	+64.6	256.5
BL	Bl	Baker Lake	R. G. Madill	+64 20	263 58	+73.8	315.2
RY	Li	Leirvogur		+64 11	338 18	+70.2	289.0
SR	Sr	Srednikan	N. W. Savangeewa	+62 26	152 19	+53.2	210.6
YK	YK	Yellowknife		+62 24	245 36	+69.0	293.3
DO	Do	Dombås	G. Gjellestad	+62 04	9 07	+62.3	100.1
YA	Ya	Yakutsk	A. A. Danilov	+62 01	129 40	+51.0	193.8
NU	Nu	Nurmijärvi	M. Kivinen	+60 30	24 39	+57.8	112.6
LE	Le	Lerwick	B. R. Leaton	+60 08	358 49	+62.5	88.6
MG	MG	Magadan	N. P. Poddelsky	+60 07	151 01	+50.5	210.1
LN	Ln	Leningrad		+59 57	30 42	+56.2	117.4
LO	Lo	Lovö	F. Eleman	+59 21	17 50	+58.1	105.8
SI	Si	Sitka	Robert J. Main, Jr.	+57 04	224 40	+60.0	275.4
SV	Sv	Sverdlovsk	T. N. Panov	+56 44	61 04	+48.5	140.7
TM	Tm	Tomsk	O. K. Gordeew	+56 28	84 56	+45.9	159.6
RS	RS	Rude Skov	A. Lundbak	+55 51	12 27	+55.8	98.5
KN	Kn	Kazan	M. F. Monachova	+55 50	48 51	+49.3	130.4
MO	Mo	Moskva	W. N. Bodrov	+55 28	37 19	+50.8	120.5
ES	Es	Eskdalmuir	B. R. Leaton	+55 19	356 48	+58.5	82.9
ME	Me	Meanook	Anne B. Cook	+54 37	246 34	+61.8	301.0
HL	Hl	Helu	W. Czystek	+54 36	18 48	+53.5	103.7
MN	Mn	Minsk	M. S. Babuchnikov	+54 04	27 08	+50.6	113.8
ST	St	Stonyhurst	J. E. Worthy S. J.	+53 51	357 32	+56.9	82.7
WN	Wn	Wingst	O. Meyer	+53 44	9 04	+54.5	94.0
WI	Wi	Witteveen	D. van Sabben	+52 49	6 40	+54.2	91.0
IR	Ir	Irkutsk	W. S. Pirozjkov	+52 10	104 27	+41.0	176.9
SW	Sw	Swider	Z. Kalinowska	+52 07	21 15	+50.6	104.6
NI	Ni	Niemegk	A. Grafe	+52 04	12 40	+52.2	96.3
VL	Vl	Valentia	S. Mc Williams	+51 56	349 15	+56.6	73.4
BE	Be	Belsk	J. Marianiuk	+51 50	20 48	+50.4	104.0
GT	Gt	Göttingen	M. Siebert	+51 33	9 58	+52.3	93.7
CM	Cm	Collmberg	B. Tittel	+51 19	13 00	+51.5	96.5
HA	Ha	Hartland	H. F. Finch	+51 00	355 31	+54.6	79.0
KV	Kv	Kiev	A. S. Jaworskij	+50 43	30 18	+47.3	112.2
MA	Ma	Manhay	L. Koenigsfeld	+50 18	5 41	+52.0	88.8
DB	Db	Dourbes	A. de Vuyst	+50 06	4 36	+51.7	88.7
RA	Ra	Racibórz	W. Krański	+50 05	18 11		-
PR	Pr	Pruhonic	V. Bucha	+49 59	14 32	+49.9	97.3
LV	Lw	Lvov	W. M. Litinskij	+49 54	23 45	+48.0	105.8

LIST OF OBSERVATORIES - continued
Arranged according to geographic latitude

Symbols		Observatory	Collaborator	Geographic		Geomagnetic	
new	old			Lat.	Long.	Lat.	Long.
KD	KD	Karaganda		+49° 49'	73° 05'	+40.0	148.4°
BV	Bu	Budkov	J. Bouška	+49 04	14 01	+49.1	96.2
VI	Vi	Victoria	B. Caner	+48 31	236 35	+54.3	292.7
FU	Fü	Fürstenfeldbruck	K. Wienert	+48 10	11 17	+48.8	93.3
CF	CF	Chambon-la-Forêt	J. P. le Mouel	+48 01	2 16	+50.4	83.9
HB	Hb	Hurbanovo	S. Pintér	+47 54	18 12	+47.1	99.8
UB	UB	Ulan Bator		+47 51	103 03	+36.4	173.4
NA	Na	Nantes	O. Noblanc	+47 15	358 27	+50.5	80.1
SA	Sa	Yushno-Sakhalinsk	I. N. Petrov	+46 57	142 43	+36.9	206.7
TY	Ty	Tihany		+46 54	17 53	+46.4	99.1
OD	Od	Odessa	A. I. Storosjinskij	+46 47	30 53	+43.8	111.1
KK	KK	Novo Kazalinsk		+45 46	62 07	+39.9	138.6
SU	Su	Surlari		+44 41	26 15	+42.5	106.0
GC	Gc	Grocka	M. Stojković	+44 38	20 46	+43.6	100.9
RT	RT	Roburent	M. Giorgi	+44 18	7 53	+45.8	88.5
MT	Mb	Memambetsu	T. Yoshimatsu	+43 55	144 12	+34.0	208.4
AG	Ag	Agincourt	A. A. Onhauser	+43 47	280 44	+55.0	347.0
VK	Wl	Vladivostok	S. A. Negaev	+43 41	132 10	+33.0	198.0
AT	At	Alma Ata		+43 16	77 23	+33.4	152.0
LG	Lg	Logroño	T. Miguel Lafuente	+42 27	357 30	+46.1	77.0
AQ	Aq	Aquila	F. Molina	+42 23	13 19	+42.9	92.9
TF	Tf	Tbilisi (Tiflis)	N. A. Katziachwili	+42 05	44 42	+36.7	122.1
TK	Tk	Tashkent	M. G. Antzilevitch	+41 25	69 12	+32.4	143.7
MD	Md	Maddalena	M. Giorgi	+41 13	9 24	+42.7	88.5
IK	IK	Istanbul-Kandilli	O. N. Sipahioğlu	+41 04	29 04	+38.5	107.5
EB	Eb	Ebro	J. O. Cardus	+40 49	0 30	+43.9	79.7
CI	Ci	Coimbra	V. Seica	+40 13	351 35	+44.8	71.3
TL	Tl	Toledo	L. de Miguel	+39 53	355 57	+43.6	75.7
ON	On	Onagawa		+38 36	141 28	+28.4	206.7
FR	Fr	Fredericksburg	R. Kuberry	+38 12	282 38	+49.6	349.8
PE	Pe	Pendeli	A. Stavrou	+38 03	23 52	+36.2	102.0
GI	Gi	Gibilmanna	M. Georgi	+37 59	14 01	+38.5	92.2
AK	Ak	Ashkabad	W. G. Dubrovskij	+37 57	58 06	+30.5	133.4
SM	SM	San Miguel	H. Amorim Ferreira	+37 46	334 21	+45.6	50.9
AE	Ae	Almeria		+36 51	357 32	+40.4	76.6
SF	SF	San Fernando		+36 28	353 48	+41.0	71.3
KA	Ka	Kakioka	T. Yoshimatsu	+36 14	140 11	+26.0	206.0
TP	TI	Teheran Iran (Persia)	H. K. Afshar	+35 44	51 23	+29.3	126.4
KS	Ks	Ksara	J. Delpeut S. J.	+33 50	35 54	+30.4	112.0
SS	Ss	Simosato		+33 34	135 56	+23.0	202.4
DS	DS	Dallas	Lavon Posey	+32 59	96 45	+43.0	327.7
AS	As	Aso	Y. Tamura	+32 53	131 01	+22.1	198.1
TU	Tu	Tuscon	Clyde J. Beers	+32 15	249 10	+40.4	312.2
KY	Ky	Kanoya	T. Yoshimatsu	+31 25	130 53	+20.5	198.1
QU	Qu	Quetta	S. A. A. Kazmi	+30 11	66 57	+21.6	139.7
HE	He	Helwan	M. Fahim	+29 52	31 20	+27.2	106.2
ML	Ml	Misallat	M. Fahim	+29 45	30 54	+26.7	105.8
SZ	SZ	Santa Cruz, Tenerife		+28 29	343 45	+35.0	58.6
LP	LP	Lunping	T. V. Miao	+25 00	121 10	+13.8	189.5
TA	Ta	Tamanrasset	B. Lepretre a. o.	+22 48	5 31	+25.4	80.6
HO	Ho	Honolulu	R. C. Munson	+21 19	202 00	+21.1	266.5
TE	Te	Teoloyucan	C. Cañón Amaro	+19 45	260 49	+29.6	327.1
AL	Al	Alibag		+18 38	72 52	+ 9.5	143.6
SJ	SJ	San Juan	M. Vazquez	+18 23	293 53	+29.9	3.2
MB	MB	M'Bour	Hans G. Barszczus	+14 24	343 03	+21.3	55.0

LIST OF OBSERVATORIES - continued
Arranged according to geographic latitude

Symbols		Observatory	Collaborator	Geographic		Geomagnetic	
new	old			Lat.	Long.	Lat.	Long.
MU	Mu	Muntinlupa	Cayetano Palma	+14 ⁰ 22'	121 ⁰ 01'	+ 3. 0 ⁰	189. 7 ⁰
GU	Gu	Guam	Kendrick Cravens	+13 35	144 52	+ 4. 0	212. 9
AA	AA	Adis Ababa	E. Cambron	+09 02	38 46	+ 5. 3	109. 2
KR	Kr	Koror	K. Gravens	+07 20	134 30	- 3. 2	203. 4
PA	Pa	Paramaribo	D. van Sabben	+05 49	304 47	+17. 0	14. 5
FQ	Fq	Fdquene	J. del C. Quintero	+05 28	286 16	+16. 9	355. 1
BA	Ba	Bangui	Leroy	+04 26	18 34	+ 4. 6	88. 5
MC	Mc	Moca	A. G. Cogollor	+03 21	8 40	+ 5. 7	78. 6
BN	Bn	Bunia	P. Herrinck	+01 32	30 11	- 0. 4	99. 3
TT	Tt	Tatuoca	J. A. Ferreira	-01 12	311 29	+ 9. 6	20. 8
LR	Lr	Lwiro	G. Bonnet	-02 15	28 48	- 4. 0	98. 2
HN	Hn	Hollandia	D. van Sabben	-02 34	140 31	-12. 6	210. 3
BI	Bi	Binza	(P. Herrinck	-04 23	15 16	- 3. 4	83. 2
KU	Ku	Kuyper	(G. Lesambo	-06 02	106 44	-17. 5	175. 5
TG	TG	Tangerang	A. Fatah	-06 10	106 38	-17. 6	175. 4
LU	Lu	Luanda	R. Susanto	-08 55	13 10	- 7. 2	80. 5
PM	PM	Port Moresbey	V. S. Moreira	-09 24	147 09	-18. 7	218. 0
KC	El	Karavia (Congo)	J. A. Brooks	-11 39	27 28	-12. 7	94. 1
HU	Hu	Huancayo	(P. Herrinck	-12 02	284 41	- 0. 6	353. 8
DA	Da	Darwin	(G. Lesambo	-12 20	131 00	-22. 0	201. 3
AP	Ap	Apia	A. A. Giesecke M.	-13 48	188 14	-16. 0	260. 2
PP	Pp	Papeete (Tahiti)	L. S. Prior	-17 34	210 35	-15. 3	282. 8
TN	Tn	Tananarive	A. L. Cullington	-18 55	47 33	-23. 1	112. 1
MR	Mr	Mauritius	M. Burgaud S. J.	-20 06	57 33	-26. 6	122. 4
LQ	LQ	La Quiaca	B. M. Padya	-22 06	294 24	-10. 6	3. 2
VA	Va	Vassouras	R. P. J. Hernández	-22 24	316 21	-11. 9	23. 9
LM	LM	Lourenço Marques	L. I. Gama	-25 55	32 35	-27. 7	95. 8
BR	Br	Brisbane	R. F. Thyer	-27 32	152 55	-35. 8	226. 9
WA	Wa	Watheroo	P. M. Mc Gregor	-30 19	115 53	-41. 8	185. 6
PI	Pi	Pilar	R. P. J. Hernández	-31 40	296 07	-20. 2	4. 0
GN	Gn	Gnangara	P. M. Mc Gregor	-31 47	115 57	-43. 2	185. 8
HR	Hr	Hermanus	A. M. van Wijk	-34 25	19 14	-33. 7	81. 7
AC	Ac	Las Acacias	H. A. Hartmann	-35 00	302 19	-24. 0	10. 3
TO	To	Toolangi	W. D. Parkinson	-37 32	145 28	-46. 7	220. 8
AM	Am	Amberley	A. L. Cullington	-43 09	172 43	-47. 7	252. 5
TW	Tw	Trelew	O. A. Pelliccioli	-43 15	294 41	-31. 7	3. 2
KG	Kg	Kerguelen	R. Schlich	-49 21	70 12	-56. 5	127. 8
MI	MI	Maquarie Island	W. D. Parkinson	-54 30	158 57	-60. 7	243. 0
AR	Ar	Argentine Island	C. N. Horton	-65 15	295 44	-53. 8	3. 3
OA	Oa	Oasis		-66 06	92 09	-77. 2	160. 8
WK	Wk	Wilkes	W. D. Parkinson	-66 15	110 35	-77. 2	179. 2
MY	Mi	Mirny	Kuperov	-66 33	93 00	-77. 0	145. 6
DU	DU	Dumont d'Urville	R. Schlich	-66 40	140 01	-75. 6	230. 9
MW	Mw	Mawson	W. D. Parkinson	-67 36	62 53	-73. 2	103. 1
CT	Ct	Charcot		-69 23	139 01	-78. 3	234. 5
PO	Po	Pionerskaya		-69 44	95 30	-80. 3	146. 5
NL	La	Novolazarevskaya	Berechagin	-70 46	11 49		
BB	BB	Base Baudouin		-70 26	24 19	-69.	63.
HT	Ht	Hallett		-72 19	170 13	-74. 7	278. 2
HY	HB	Halley Bay	J. C. Farman	-75 31	333 24	-65. 8	24. 3
SB	SB	Scott Base	A. L. Cullington	-77 51	166 47	-79. 0	294. 4
LA	LA	Little America	J. J. Gniewek	-78 11	197 50	-74. 0	312. 0
VO	Vo	Vostok	Baranov	-78 27	106 52	-89. 2	92. 6
BY	By	Byrd Island		-80 01	240 29	-70. 6	336. 3
SP	SP	South Pole		-90		-78. 5	0. 0

LIST OF OBSERVATORIES - continued

Symbols new old		Scale Values			Lower Limit K = 9 γ	Range for C = 1
		D γ /mm	H γ /mm	Z γ /mm		
NP13	NP13					
BT	BT				2000	
CC	CC	5.7	10.0	10.0	2500	
TH	Th	4.5	8.0	12.5	1000	(Equinox: D 82-245, H 110-330, Z 85-225 (Summer: x 1.55, Winter: x 0.50(roughly)
RB	RB				1500	
B4	B4	12.2	17.0	23.0	2000	
DI	Di	8.0	12.7	9.7	1500	
MS	MS				2500	
TI	Ti	4.4	4.6	8.8	1000	
PB	PB	16.1	29.7		2500	K = 3 - 7 and sum K = 30 - 40
TR	Tr	4.8	5.3	7.2	2000	
GO	Go	9.9	9.5	14.1	1800	D 72-215, H 100-300, Z 120-360
MM	MM	3.3	6.7	6.7	2500	
KI	Ki	11.5	11.4	11.9		
SO	So	3.0	8.7	9.8	1500	45 - 200 γ
WE	We	1.2	6.7	9.1	1250	
CO	Co	3.7	7.8	7.4	2500	
BL	BL	2.5	5.7	8.1	2500	
RY	Li					
SR	Sr	4.2	3.8	8.3	550	
YK	YK					
DO	Do	9.6	8.8	6.4	750	
YA	Ya	3.0	5.8	4.4	550	
NU	Nu	3.8	7.8	7.4	750	One or more K's = 3 or 4
LE	Le	4.0	3.5	4.4	1000	No fixed range
MG	MG	2.5	2.1	1.2	550	
LN	Ln	3.8	2.7	3.3	600	
LO	Lo	4.4	3.9	5.0	600	14 - 42 γ
SI	Si	4.7	7.0	8.0	1000	Generally: sum K = 26 - 45
SV	Sv	4.6	5.3	8.7	550	
TM	Tm	4.0	4.4	5.2	350	
RS	RS	4.9	10.0	10.0	600	D: 4' - 12'; H: 14 - 42 γ ; Z: 9 - 27 γ
KN	Kn	3.9	5.3	6.6	550	
MO	Mo	1.9	2.1	1.7	550	
ES	Es	4.6	4.0	5.8	750	No fixed range
ME	Me	3.6	7.8	10.8	1500	
HL	Hl	4.7	4.5	5.7	650	
MN	Mn	4.9	4.1	4.4	550	
ST	St	4.7	6.1	6.9	600	
WN	Wn	4.3	6.1	5.5	500	Sum K: 20 - 30; C _k : 0, 7-1, 3; C _s : 0, 8-1.4
WI	Wi	9.7	9.5	5.5	500	D: 4' - 12'; H: 15 - 45 γ ; Z: 7 - 21 γ
IR	Ir	5.7	5.5	3.5	350	
SW	Sw	3.7	3.8	3.5	500	
NI	Ni	2.0	2.0	2.0	500	
VL	Vl	4.7	3.8	5.9	500	No fixed range
BE	Be	1.5	1.3	2.0	500	
GT	Gt	3.2	3.2	1.6	500	
CM	Cm	1.6	1.4	2.0	500	Based on K-indices
HA	Ha	5.5	4.2	4.6	500	Upper limit 150 γ
KV	Kv	2.0	2.0	2.1	350	
MA	Ma	5.2	1.5	3.9	500	D: 4' - 12'; H: 15 - 45 γ ; Z: 7 - 21 γ
DB	Db	5.5	4.0	3.0	500	D: 4' - 12'; H: 15 - 45 γ ; Z: 7 - 21 γ
RA	Ra					
PR	Pr	2.9	4.5	5.0	500	Sum K = 20 - 30
LV	Lw	5.8	2.7	3.8	550	

LIST OF OBSERVATORIES - continued

Symbols new old		Scale Values			Lower Limit $K = 9$ γ	Range for $C = 1$
		D γ/mm	H γ/mm	Z γ/mm		
KD	KD	1.6	2.2	2.1	350	
BV	Bu		1.2			
VI	Vi	2.7	2.5	3.3	500	
FU	Fu	2.9	2.8	2.7	500	
CF	CF	5.7	6.1	2.6	500	No fixed range
HB	Hb	7.5	4.4	4.3	350	
UB	UB	0.9	0.9	0.9	300	
NA	Na	9.5	6.0	6.0	500	
SA	Sa	4.2	3.3	3.8	350	
TY	Ty	5.8	3.6	2.7		
OD	Od	1.3	1.5	1.1	350	100 - 250Y
KK	KK	1.0	1.0	1.0	350	
SU	Su	2.5	1.7	2.4	350	
GC	Gc	3.5	2.7	3.9	350	No fixed range
RT	RT					
MT	Mb	2.6	2.3	2.5	350	About sum K = 15 - 24
AG	Ag	4.0	5.1	6.1	600	24 - 144Y
VK	Wl	4.3	3.9	2.8	300	
AT	At					
LG	Lg	6.0	3.7	5.6	350	Sum K: 15 - 30
AQ	Aq	7.2	4.9	4.4	350	Based on K-indices
TF	Tf	1.0	1.0	0.6	350	
TK	Tk	2.9	2.5	1.3	300	
MD	Md	3.6	3.2	3.1	350	
IK	IK	7.0	4.0	3.0	300	Sum K: 16 - 31 or ≤ 16 and $4 \leq K < 6$
EB	Eb	7.0	3.3	7.0	350	D: 2' - 8'; H: 10 - 60Y; Z: 10 - 50Y
CI	Ci	7.8	3.8	7.7	350	C from Cs
TL	Tl	3.0	4.7	2.5	350	10 - 30Y
ON	On					
FR	Fr	2.8	2.5	2.9	500	Sum K: 23 - 35. Sum a_k : 15 - 50
PE	Pe	7.9	3.9	11.0	300	
GI	Gi	7.4	1.6	1.2	350	
AK	Ak	3.3	1.5	0.6	300	
SM	SM	9.8	4.0	4.5	350	No fixed range
AE	Ae					
SF	SF	5.3	2.7	-	350	About 15 - 85Y
KA	Ka	2.6	2.6	2.7	300	No fixed range, (about sum K: 15 - 24)
TP	Ti	4.1	2.2	3.2	300	21 - 30Y
KS	Ks	8.8	6.0	5.0	300	15 - 45Y
SS	Ss	6.4	2.4	6.4	300	
DS	DS					
AS	As	4.0	2.6	4.7	300	
TU	Tu	3.8	2.9	3.5	350	Sum K about 20 - 40
KY	Ky	2.5	2.5	2.5	300	Sum K about 15 - 24
QU	Qu	5.0	3.0	3.6	300	No fixed range
HE	He	3.7	2.6	3.0	300	10 - 30Y
ML	Ml	3.9	2.4	2.2	300	
SZ	SZ					
LP	LP	2.5	2.4	1.9	300	
TA	Ta	9.0	4.4	2.8	300	20 - 60Y
HO	Ho	4.1	2.8	2.4	300	Sum a_k : 80 - 400
TE	Te	8.7	3.0	4.0	300	Sum K = 17 - 27
AL	Al	-	4.4	-	300	
SJ	SJ	4.0	2.1	5.1	300	Sum K: 14 - 30
MB	MB	8.1	6.6	6.3	350	

LIST OF OBSERVATORIES - continued

Scale Values					Lower Limit K = 9 Y	Range for C = 1
Symbols new old	D Y/mm	H Y/mm	Z Y/mm			
MU	Mu	11.3	4.1	3.6	300	
GU	Gu	5.2	2.6	2.8	300	About sum K = 25 - 40
AA	AA				300	
KR	Kr					
PA	Pa	8.3	6.6	3.8		
FQ	Fq	8.7	3.7	4.5	300	
BA	Ba	8.1	10.0	13.3	300	
MC	Mc	8.0	3.8	1.2	300	19 - 43Y roughly
BN	Bn	7.7	2.0	2.6		
TT	Tt	8.4	3.1	3.7		
LR	Lr	7.6	4.9	1.1	350	20 - 75Y
HN	Hn	5.2	5.0	4.0	300	
BI	Bi	7.8	4.2	2.6		
KU	Ku	10.8	4.0	4.0	300	For comp. H: 15 - 34Y
TG	TG	10.6	4.1	3.4	300	15 - 34Y
LU	Lu	3.6	3.1	6. -	350	No fixed range
PM	PM	4.7	2.8	3.3	300	
KC	El	3.9	4.9	2.0		H: 20 - 100Y
HU	Hu	8.1	3.3	3.6	600	
DA	Da					
AP	Ap	9.3	3.9	3.8	300	
PP	P	5. -	1.7	0.8	350	
TN	Tn	2.9	1.0	2.4	300	About sum K = 16 - 31
MR	Mr	7.6	3.2	8.0	500	No fixed range
LQ	LQ	3.8	3.3	3.0	350	
VA	Va	6.9	4.0	3.0	600	
LM	LM	2.2	3.3	3.1	300	
BR	Br				500	
WA	Wa	7.5	2.7	4.6	350	20 - 35Y
PI	Pi	3.3	3.0	2.9	300	
GN	Gn	7.4	2.6	5.3	350	Sum K: 16 or 18 - 32
HR	Hr	2.0	2.3	4.2	300	Sum a _k : 100 - 300Y, with some additional provisions
AC	Ac	6.0	2.4		350	12 - 50Y
TO	To	7.6	4.5	4.4	500	Sum K: 19 - 33
AM	Am	7.2	4.6	3. -	500	No fixed range
TW	Tw	6.0	3.4	4.2	350	No fixed range
KG	Kg	7.8	6.0	2.3	750	
MI	MI	9.0	25. -	21. -	1500	Sum K: 19 - 33
AR	Ar					
OA	Oa	10.6	8.3	18.3	2000	
WK	Wk	27. -	25. -	21. -	2500	Sum K: 19 - 33
MY	Mi	4.5	6.2	10.8	2000	
DU	DU	7.5	8.3	8.1	1800	
MW	Mw	4.6	9.5	10. -	1500	Sum K: 19 - 33
CT	Ct	- . -	- . -	14.3	1500	
PO	Po	10.6	12.1	14.9	2000	
NL	La	7.0	8.2	8.9	1500	
BB	BB					
HT	Ht	19.3	31.4	32.9	2500	
HY	HB	5.4	7.2	6.8	2000	
SB	SB	26.0(Y)	22.0(X)	28.5	2000	No fixed range
LA	LA	- . -	- . -	- . -	2500	
VO	Vo	12.9	9.6	11.4	2000	
BY	By	27.0	24.4	23.2	2500	
SP	SP	31.1	29.3	- . -	2000	

LIST OF OBSERVATORIES - continued

Symbols new old		Instruments	Ionospheric Station or Radio Service
NP13	NP13		
BT	BT		
CC	CC		
TH	Th	Normal, low sens. + quick run	
RB	RB		
B4	B4		
DI	Di		
MS	MS		
TI	Ti		
PB	PB	Low sens. + quick run	
TR	Tr	Normal sens. + quick run	
GO	Go	Normal, low sens. + quick run	
MM	Mm		
KI	Ki		
SO	So	Normal sens.	Sodankylä
WE	We		
CO	Co	Normal, low sens. + quick run	North Pacific Radio Warning Service
BL	BL	Normal sens.	(Anchorage)
RY	Li		
SR	Sr		
YK	YK		
DO	Do	Normal sens.	
YA	Ya		
NU	Nu	Normal sens. + quick run	Nurmajärvi Ionospheric Station
LE	Le	Normal, low sens. + quick run	Royal Greenwich Obs., Hailsham
MG	MG	Normal sens.	
LN	Ln		
LO	Lo	Normal, low sens. + quick run	
SI	Si	Normal, low sens. + quick run	North Pacific Radio Warning Service
SV	Sv		(Anchorage)
TM	Tm		
RS	RS	Normal, low sens. + quick run	
KN	Kn		
MO	Mo		
ES	Es	Normal, low sens. + quick run	Royal Greenwich Obs., Hailsham
ME	Me	Normal and low sens.	
HL	Hl		
MN	Mn		
ST	St	Normal sens.	
WN	Wn	Normal, dX/dt , dY/dt , dZ/dt , quick run	Max Planck Inst. für Aeronomie, Lindau, Harz Sol. Obs.: Fraunhofer Inst., Freiburg Nederhorst Den Berg Radio (Nera)
WI	Wi	Normal sens. + quick run	
IR	Ir		
SW	Sw	Normal sens.	(Institut, Neustrelitz)
NI	Ni	Normal sens.	Ionosphären.Obs. Kühlungsborn; Heinrich-Hertz
VL	Vi	Normal sens. + quick run	Dunsink Astronomical Observatory, Dublin
BE	Be		
GT	Gt	Normal sens., str. var. + puls. recorder	
CM	Cm	Normal sens.	Geophys. Obs. Collm
HA	Ha	Normal, low sens. + quick run	Royal Greenwich Obs., Hailsham
KV	Kv	Normal sens. + quick run	
MA	Ma	Normal sens. + quick run + fluxm. for H	
DB	Db	Normal sens. + quick run	Ion. Station Dourbes
RA	Ra		
PR	Pr	Normal sens.	Ion. Station Panská Ves
LV	Lw		

LIST OF OBSERVATORIES - continued

Symbols new old		Instruments	Ionospheric Station or Radio Service
KD	KD		
BV	Bu	Quick run for H	
VI	Vi	Normal sens.	
FU	Fu	Normal sens. + high sens.	Inst. für Ion.-forschung, Lindau
CF	CF	Normal sens. + quick run	Obs. Solaire et d'Astrophysique de Meudon
HB	Hb	Normal sens.	Ion. Station Panská Ves; Astr. Obs. Ondřejov
UB	UB		
NA	Na	Normal sens.	
SA	Sa		
TY	Ty		
OD	Od		
KK	KK		
SU	Su	Normal sens.	
GC	Gc		Ion. Obs., Inst. Mihajlo Pupin, Beograd
RT	RT	Normal record, 20 mm/h.	Ion. St. S. Alessio, Roma
MT	Mb	Normal sens. + high sens.	Radio Res. Lab. Kokubunji
AG	Ag	Normal sens.	
VK	Wl		
AT	At		
LG	Lg		Transradio Española, Alcobendas (Madrid)
AQ	Aq		Ion. St. S. Alessio, Roma
TF	Tf		
TK	Tk		
MD	Md		
IK	IK		None
EB	Eb	Normal sens. + quick run	Obs del Ebro; Transradio Española, Alcobendas (Madrid)
CI	Ci	Normal sens.	
TL	Tl	Normal sens. + quick run	
ON	On		
FR	Fr	Normal, low sens.	
PE	Pe	Normal sens.	Ion. St. of Athens University, Pendeli
GI	Gi	Normal sens.	Ion. St. S. Alessio, Roma; Osserv. Astrof. di Arcetri (Firenze)
AK	Ak	Normal sens. + quick run	
SM	SM	Normal sens. + quick run	
AE	Ae		
SF	SF	Normal sens.	
KA	Ka	Normal sens.	Radio Res. Lab. (Kokubunji)
TP	TI		Ion. St. Teheran
KS	Ks	Normal sens.	
SS	Ss		
DS	DS		
AS	As		Kanoya Ion. Station
TU	Tu	Normal sens.	
KY	Ky	Normal sens. + quick run	Radio Res. Lab. (Kokubunji)
QU	Qu	Normal sens. + quick run	Ionospheric Station Quetta
HE	He	Normal sens.	
ML	Ml	Normal sens.	
SZ	SZ		
LP	LP	Normal sens., 20 mm/h.	Radio Wave Research Laboratory
TA	Ta	Normal sens. + dH/dt, dD/dt, quick run	
HO	Ho	Normal sens.	
TE	Te	Normal sens.	Boulder observatory, Colorado
AL	Al	Normal sens. + quick run	
SJ	SJ	Normal sens.	
MB	MB	Normal sens. + quick run	Station Ionosphérique Dakar-Camberene

LIST OF OBSERVATORIES - continued

Symbols new old		Instruments	Ionospheric Station or Radio Service
MU	Mu		Manila Observatory
GU	Gu	Normal sens. + quick run	None
AA	AA	Normal sens. + quick run + fluxm. for D, H	
KR	Kr	Normal sens. + quick run	
PA	Pa	Normal sens.	Ion. and Solar Radio Obs. LTT, Paramaribo
FQ	Fq	Normal sens.	
BA	Ba	Normal sens. + quick run	None
MC	Mc	Normal sens. + quick run	
BN	Bn	Normal sens.	
TT	Tt	Normal sens.	
LR	Lr	Normal sens.	Ion. Station Lwiro, Radio astr. St. Lwiro
HN	Hn		
BI	Bi	Normal sens.	None
KU	Ku		
TG	TG	Ruska normal magnetographs	None
LU	Lu	Normal sens.	
PM	PM	Normal sens. + quick run	Port Moresby Geoph. Obs., Ion. Station
KC	El	Normal sens.	
HU	Hu	Normal sens. + quick run	Inst. Geofisico del Peru
DA	Da		
AP	Ap	Normal sens.	Apia Radio
PP	PP	Normal sens. + fluxmeter for H	
TN	Tn	Normal sens.	
MR	Mr		
LQ	LQ		
VA	Va	Normal sens.	
LM	LM	Normal sens.	
BR	Br		
WA	Wa	normal sens.	
PI	Pi	Normal sens.	
GN	Gn		Ionospheric Station, Mundaring Geoph. Obs.
HR	Hr	Normal sens. + quick run	Hermanus Observatory (riometer, SEA) NITR, Johannesburg (telecommunication) Royal Observatory, Cape Town (heliograph)
AC	Ac	Normal sens. + quick run	
TO	To	Normal sens.	Mundaring Geophysical Observatory
AM	Am	Normal sens.	Godley Head Ionosphere Station
TW	Tw	Normal sens.	Trelew
KG	Kg		
MI	MI	Normal sens.	None
AR	Ar		
OA	Oa		
WK	Wk	Low sens. + quick run	Wilkes Ionospheric Station
MY	Mi	Normal, low sens.	
DU	DU		
MW	Mw		Mawson Ionospheric Station
CT	Ct		
PO	Po		
NL	La		
BB	BB		
HT	Ht		
HY	HB	Low sens. + quick run	
SB	SB	low sens. + quick run	Ion. Station Scott Base
LA	LA		
VO	Vo		
BY	By	Low sens. + quick run	None
SP	SP	Low sens. + quick run	None

TABLE 1a STORM SUDDEN COMMENCEMENTS (S.S.C.'S) 1967

Sudden commencements followed by a magnetic storm or period of storminess. (checked by 50 observatories).

JANUARY

- 06d 07h 14m A: SO DO SF - B: CO LE MG SI ES IR MA NE FU AG AQ TK FR AK
(14-16) SM SS TU QU HO AL GU TN GN HR - C: DO NU KN WI SW NI VL GT
HA KV DB HB EB TL SJ MB PA - X: LG TG - (si: A: TE; B: TR MO) -
D: 1.
- 07d 08h 00m A: SO NU MO IR MA FU HB OD TK AK SF KS - B: DO LE MG ES SW
(59-60) NI VL GT HA KV NE AG LG AQ FR SM SS TU QU HO TE AL SJ GU
PA TN GN - C: SI KN WI DB EB TL MB HR - X: TG - (si: B: TR) - D: 1.
- 13d 12h 03m A: TR NU MO ES IR SW VL HA MA DB NE FU OD AG LG AQ TK EB
(03) TL FR AK SF KS SS TU QU HO TE SJ MB GU PA TN HR - B: SO DO
LE MG SI KN WI NI GT KV HB SM AL GN - E: CO - X: TG.
- 13d 20h 18m A: TR NU MO SW MA? HB - B: LE ES WI GT HA KV AG LG TK QU -
(18-20) C: CO SI DB NE FR TU HO - E: SO DO - X: TG - (si: A: KN FU OD TN;
B: AL - bs: A: VL - bps: A: AQ HR; B: EB) - D: 15.
- 25d 00h 01m A: SF - B: NE AG TK AK QU TN - C: SO CO NU LE SI WI VL GT HA
(01) KV MA DB HB LG TL FR SM TU HO SJ MB PA GN HR - X: ES GU TG
- (si: B: MG FU OD TE AL; C: KN MO AQ EB SS - cr: C: SW) - D: 5.

FEBRUARY

- 07d 16h 36m A: SO CO NU MO IR SW MA FU HB OD AG LG TK SF QU TE AL MB
(36-37) - B: LE SI ES WI NI VL GT HA KV DB NE AQ EB TL FR AK SM TU
HO SJ GU PA TN GN HR - C: DO MG TG - E: KS - (si: B: KN) - D: 2.
- 15d 23h 48m A: SO CO DO NU MG SI KN MO ES WI IR SW VL MA DB NE FU HB
(48) OD AG LG AQ TK EB TL FR SM SF KS SS TU QU HO TE SJ MB GU
PA TN HR - B: LE NI GT HA KV AK AL - C: GN - X: TG - D: 1.
- 16d 08h 35m A: IR SW MA LG TK SF TG TN - B: SO KN ES WI VL GT HB AG EB
(35-36) FR QU HO SJ GU PA - C: TR LE MO HA KV NE TU GN - E: CO DO NU SI
SM KS - X: MG DB - (si: A: FU OD SS TE MB?; B: AQ AL HR) - D: 3.
- 19d 11h 44m A: SO KS TG - B: IR FU OD AG AK SM QU GU TN - C: NU LE MG SI
(43-45) KN WI HA KV MA DB NE HB LG AQ TK TL FR SF TU TE SJ MB PA
GN HR - E: CO ES - (si: B: VL GT SS AL; C: EB) - D: 6.

MARCH

- 03d 08h 06m B: IR OD AG KS TG TN - C: SO CO NU LE MG SI MO ES WI SW VL
(05-06) GT KV NE FU HB TK FR TU QU HO SJ MB GU PA GN HR - X: DB -
(si: B: SS; C: TE AL) - D: 13.
- 30d 01h 40m A: SO MA - B: TR CO SI MO IR SW GT KV DB FU HB OD AG FR QU
(39-40) GU - C: DO NU LE KN ES WI VL HA NE LG AQ EB TL SM SF TU
HO SJ MB? PA TN GN HR - X: KS TG - (si: B: SS; C: MG TE AL) - D:
12.

APRIL

- 01d 08h 07m A: TR SO CO NU MG KN MO IR SW MA NE FU OD LG TK SM SF KS
(07-10) SS TU QU TE AL TG HR - B: DO LE SI ES WI NI VL GT HA KV DB
HB AG AQ EB FR HO SJ MB GU PA TN - C: TL AK GN.
- 04d 03h 04m A: SO CO NU MG SI MO IR SW MA DB NE FU OD AG LG TK TL AK
(03-06) SM SF KS SS TU TE SJ GU TG HR - B: TR DO LE KN ES WI NI VL
GT HA KV HB AQ EB FR QU HO MB PA TN - C: AL GN.
- 23d 14h 25m A: SO OD - B: TR CO DO NU LE MO WI IR SW HA MA DB NE FU? HB
(25-28) AG FR - C: SI ES VL GT KV LG AQ TU AL MB GU TN GN - (si: C:
TE) - D: 17.

MAY

- 01d 19h 07m A: CO DO NU LE MG SI KN MO ES WI IR SW VL HA KV MA DB FU
(06-09) OD AG LG AQ TK EB TL FR AK SM SF KS SS QU HO TE SJ MB GU

TABLE 1a STORM SUDDEN COMMENCEMENTS (S.S.C. 'S) 1967 - continued

(MAY)

TG GN HR - B: TR NI GT NE HB TU PA TN - C: AL - D: 1.

07d 01h 05m A: SO MA NE FU OD LG SF KS TG - B: CO NU MG SI KN MO ES WI
(05-07) IR SW NI VL GT HA KV DB AG AQ EB TL FR AK SM TU QU HO SJ
MB GU PA TN HR - C: DO LE HB TK AL GN - (si: A: TE; B: SS) - D: 1.

24d 17h 26m A: SO NU KN MO IR FU OD AG LG TK SF KS SS TE TG - B: TR CO
(25-26) LE SI ES WI SW NI VL GT HA KV MA DB NE AQ FR AK SM TU QU
SJ PA TN - C: MG TL EB HO MB GN HR - X: GU - (si: A: AL; B: HB;
C: DO).

25d 10h 20m A: SO MO IR FU OD TK SF TE TG TN - B: LE MG SI WI SW NI VL
(18-26) KV MA NE HB AG LG FR TU QU HO SJ GU PA - C: TR CO DO KN
ES HA AQ SM GN HR - E: NU EB MB - (si: A: SS AL; C: GT KS) - D: 3.

25d 12h 35m A: SO CO LE MG SI KN MO ES WI IR SW NI VL GT KV MA DB NE
(34-36) HB AG LG AQ TK EB TL FR SM SF KS SS TU QU HO TE AL SJ MB GU
PA TG TN GN HR - B: HA - E: DO NU - (si: A: FU OD) - D: 2.

28d 13h 03m A: IR SW FU SF - B: LE MO ES VL GT MA DB HB AG AQ TK QU HO
(03-04) AL GU TG TN - C: WI HA KV NE LG EB TL FR AK KS TU SJ MB PA
- E: SO CO SI SM GN - (si: A: OD SS; C: KN TE) - D: 6.

30d 14h 26m A: SO KN MO WI IR SW MA DB FU HB OD FR SF KS QU AL MB TG
(24-28) - B: CO DO NU LE MG SI ES NI VL GT HA KV AG LG AQ TK EB TL
SM SS TU HO TE SJ GU PA TN HR - C: TR NE AK GN.

JUNE

04d 11h 21m A: OD KS - B: SO MO IR SW HA MA FU SF QU TG TN - C: CO NU LE
(21-22) SI ES WI NI VL GT KV NE LG AQ TK FR SM TU HO SJ MB GU HR -
E: HB - X: PA - (si: B: SS AL; C: EB TE) - D: 9.

05d 19h 14m A: SO CO NU SI KN MO WI IR SW NI KV MA DB FU HB LG AQ TK
(14-17) EB TL AK SM SF KS SS TU QU HO TE SJ MB GU PA TG - B: TR DO
LE MG ES VL GT HA NE AG FR AL TN GN HR - (si: A: OD).

25d 02h 22m A: SO NU KN MO FU OD SF KS TG - B: CO DO LE MG SI ES WI IR
(21-24) SW NI VL GT HA MA DB NE HB AG LG AQ TK EB TL FR AK SM SS
TU QU HO AL SJ MB GU PA TN HR - C: KV GN - X: TR - (si: A: TE);

25d 09h 29m A: IR - B: MG ES SF QU TG - C: SO CO NU LE SI KN SW VL GT MA
(28-29) NE AG TK FR SM KS TU HO SJ MB GU TN GN - E: HB - X: TR - (si:
B: FU OD SS; C: KV LG EB TE AL HR) - D: 10.

25d 15h 21m A: SO IR TG - B: CO MO ES SW LG TK QU - C: NU LE SI KN WI VL
(18-21) GT KV MA NE AG FR SF KS TU HO SJ MB GU PA TN - E: DB HB -
X: TR MG - (si: A: FU OD; B: SS TE AL; C: HR) - D: 9.

26d 14h 59m A: SO CO NU KN MO TR MA FU OD TK AK SF KS GU TG - B: DO LE
(57-58) MG SI ES WI SW NI VL GT HA KV DB AG LG AQ EB TL TU QU HO
SJ MB PA - C: TR NE FR - E: SM - (si: A: HB SS TE AL; B: TN? HR)
- D: 1.

JULY

15d 12h 28m B: SO SI IR HA MA FU OD LG AK TN - C: CO NU LE MO ES WI SW
(26-28) VL GT KV DB NE HB AG AQ TK SM SF TU QU HO MB GU - X: TG -
(si: B: AL; C: KS) - D: 14.

AUGUST

04d 07h 02m A: SO SF TG - B: NU ES IR HA MA HB OD AG TK SM TU QU GU TN
(00-02) - C: CO DO LE SI KN MO WI SW NI VL KV DB NE AQ EB FR HO AL
SJ MB PA GN HR - X: FU LG KS - (si: B: GT SS; C: MG - b: C: TE) -
D: 3.

11d 05h 55m A: SO CO NU MO IR MA NE FU HB AG LG TA SM SF TU HO TE AL
(54-58) SJ MB GU TG - B: LE MG SI KN ES WI SW NI VL GT HA KV DB OD
AQ EB TL FR AK SS QU PA TN HR - C: GN - X: DO - (si: B: TR) - D: 1.

29d 17h 38m A: SO NU IR SF - B: LE MO ES NI GT HA KV MA DB FU OD AG AQ
(36-40)

TABLE 1a STORM SUDDEN COMMENCEMENTS (S.S.C.'S) 1967 - continued

(AUGUST)

AK SM KS TG TN - C: SI WI SW NE LG TK FR TU QU HO SJ MB GU
PA GN - (si: B: CO MG KN VL HB SS AL HR; C: DO EB TL TE) - D: 1.

SEPTEMBER

13d 03h 45m A: SO NU OD SF TE - B: CO DO LE MG SI KN ES IR SW NI VL GTHA
(42-46) KV MA DB NE FU HB AG LG AQ TK TL FR SM KS SS TU QU HO AL
SJ MB GU TN GN HR - C: TR WI EB KA PA - X: TG - D: 1.

19d 19h 59m A: CO MO FU HB AG SF KS TE - B: NU MG SI KN ES WI IR SW NI VL
(58-60) HA KV MA DB NE LG AQ TK TL EB FR AK SM SS TU QU HO SJ MB
GU TN GN HR - C: SO LE AL PA - X: TG - (si: A: OD; B: GT) - D: 2.

OCTOBER

28d 16h 37m A: NU MG KN IR MA FU AG LG TL SF KS SS MB TG - B: LE MO WI
(36-38) SW NI VL GT HA KV DB AQ TK EB FR SM TU QU HO AL SJ GU PA
TN - C: SO AK - (si: A: CO ES HB OD; B: SI NE? HR; C: DO) - D: 4.

NOVEMBER

03d 09h 14m A: SO KS - B: TR LE IR VL FU OD AG SM AL TN GN - C: NU SI KN
(12-15) MO ES WI NI GT HA KV MA DB NE HB LG AQ TK EB FR TU QU HO
SJ MB GU PA HR - E: CO - X: SF TG - (si: B: SS) - D: 6.

29d 05h 12m A: SO NU FU SF TG - B: CO DO LE MG SI MO ES IR NI VL GT HA
(12-13) MA DB NE AG AQ TK FR AK SM KS TU QU AL SJ MB GU C: WI KV
TL HO PA TN GN HR - X: LG - (si: A: HB TE; B: TR KN OD EB SS -
cr: B: SW).

DECEMBER

15d 02h 15m B: SO CO IR FU QU GN TG - C: LE SI ES GT KV NE AG LG TK FR
(12-15) SM SF TU HO AL SJ MB PA TN GN HR - (si: A: TE; B: SS; C: MG KN)
- D: 18.

18d 05h 38m A: SO NU KN MO IR MA FU HB OD LG TK SM SF KS TU TE AL MB
(35-39) GU HR - B: TR CO DO LE MG SI ES WI SW NI VL GT HA KV DB NE
AG AQ EB TL FR AK SS QU HO SJ PA TN GN - X: TG.

21d 00h 45m B: SO ES IR FU QU GU - C: DO LE SI MO WI SW GT KV MA DB NE
(44-45) AG TK FR SM SF TU HO SJ MB PA - E: GN - X: LG TG - (si: A: CO DO
TE; B: MG HB; C: KN AL HR) - D: 12.

29d 22h 27m A: SO SF MB - B: IR AG FR SM KS TU GU TN HR - C: CO SI KN ES
(27-28) WI GT HA KV MA NE FU HB OD LG TK TL HO SJ PA GN - X: QU
TG - (si: C: MG AQ EB TE AL) - D: 11.

TABLE 1b NOT CHECKED STORM SUDDEN COMMENCEMENTS (S.S.C.'S) 1967

JANUARY

11d 05h 05m (02-07) B: TN; C: QU - (si: A: SO).
 24d 23h 59m (58-59) B: QU; C: TF.
 27d 10h 13m (12-14) B: PE; C: TF.

FEBRUARY

07d 14h 16m (14-18) B: IR QU BA BI; C: MT PE KA KY TN.
 21d 08h 41m (40-42) B: KS; C: BA.

MARCH

18d 07h 44m (44) B: TF; C: BA.
 27d 08h 21m (10-30) A: TA; B: HL; C: TC BA.

APRIL

04d 12h 07m (01-12) A: BA; B: TF GU - (si: A: TE; B: TN - sfe: BI?).
 16d 04h 53m (48-48) B: LM; C: PP.
 18d 20h 33m (24-40) B: HB? TF; C: MA PP.
 21d 21h 24m (22-27) B: BA; C: TP.
 23d 07h 03m (00-06) B: LU; C: QU.

MAY

01d 00h 36m (35-36) B: HL VL; C: WN.
 02d 08h 53m (51-54) B: TF TA; C: MA - (si: A: TE; C: PP).
 31d 15h 48m (45-51) B: MA; C: TF PE - (si: A: BA; B: WN).

JUNE

04d 09h 53m (52-54) C: SU BA MC - (sfe: TN).
 05d 07h 00m (00-01) B: QU; C: TF.
 08d 18h 20m (13-24) B: SO TA BA.
 26d 20h 27m (27-28) A: SO; B: TR.

JULY

04d 16h 03m (00-05) B: SU; C: LG - (si: C: MB - sfe: HU).
 10d 23h 13m (12-14) A: BA; B: OD SM SJ?; C: SU LG QU MC - (b: HL BE).
 10d 23h 40m (36-44) B: IR TN.
 23d 13h 55m (55-56) B: SF; C: MA LG.
 23d 14h 10m (09-12) B: SU; C: PE QU - (si: C: KS - sfe: TL).

AUGUST

07d 18h 20m (20) B: BA; C: LG.
 15d 08h 32m (24-36) A: BA; B: HB?; C: MC - (si: HL).
 24d 03h 01m (00-02) B: GU; C: LM - (si: B: AE).

SEPTEMBER

05d 07h 20m (19-21) C: SU TF - (si: B: SM - sfe: OD).
 08d 11h 17m (15-21) A: SU; C: TF - (si: A: OD).
 18d 09h 22m (19-27) B: MA AE; C: WN - (si: B: OD).
 20d 14h 02m (00, 04) B: SO; C: TF.

TABLE 1b NOT CHECKED STORM SUDDEN COMMENCEMENTS (S.S.C.'S) 1967
(SEPTEMBER)

20d 15h 05m (05-06) B: TC; C: VI.
 28d 05h 35m (29-37) B: LE IR HB GU; C: KN - (bps: B: VL).
 28d 05h 54m (48-63) A: AG; B: PB; C: VI - (si: A: CO - bps: A: TE).
 28d 10h 47m (46-48) B: TC; C: TF.
 29d 20h 18m (17-21) B: CI TC TA - (bp: B: MA CF).

OCTOBER

07d 07h 09m (07-11) C: SU QU GU TN - (si: C: LM - bp: C: AP).
 08d 06h 09m (06-12) A: AC; B: AK QU MC GN; C: EB GU PP TN.
 08d 10h 13m (12-15) B: HL HB?
 08d 11h 40m (40) B: BE TF; C: TA.
 09d 15h 03m (03-04) B: CI; C: TL.
 09d 16h 19m (18-20) A: TF; B: BA.
 14d 11h 48m (45-50) C: MA TF - (si: C: LM).
 22d 10h 30m (28-34) B: HL DB SU; C: QU - (sfe: OD).

NOVEMBER

08d 10h 38m (37-39) C: HB? LG.
 08d 13h 18m (15-21) B: SU TF BA? - (si: B: HL VL).
 21d 14h 19m (13-25) C: LG QU BA - (pi2: B: BI).
 27d 07h 31m (30-31) B: QU GU PM - (si: B: MC).

DECEMBER

01d 12h 51m (50-52) A: SJ; C: BI.
 05d 06h 26m (25-28) B: GN; C: QU.
 15d 19h 58m (54-60) A: SF; B: QU MC; C: TF IK TL BI HR - (si: B: AC; C: TK - pc4: B: SI).
 30d 10h 06m (00-09) B: SU QU MC - (si: B: BI - pc4: B: TW).

TABLE 2a BAYS AND PULSATIONS 1967

Commencements of bays or pulsational disturbances associated with bays. Stations where other kinds of disturbances appeared are included in parentheses.

Note. It is not quite certain that the list of bays and pulsational disturbances is complete, as it may be that a bay or train of pulsations has been selected by the observatories out of a great many similar disturbances which all occurred on the same day. Caution should therefore be observed if the list is used for statistical purposes.

JANUARY

01d 00h 02m	(00-04) bp: B: VL - pi2: A: LM.
01d 14h 54m	(47-56) bp: A: IR; B: MT KA KY - pi2: C: LM - (ssc: B: SO).
01d 15h 18m	(00-30) b: A: CF SU IK SF; B: HL SW FR; C: AE - bs: A: NI PR; B: WN BE - bp: A: TC TO; B: VL MA DB HB; C: LG TL - bps: A: MO - pi2: B: ME.
02d 04h 20m	(15-23) b: C: HU - bp: B: VL SM - bps: B: AG.
02d 14h 37m	(35-38) bp: C: PM - pi2: B: KA; C: MT KY.
02d 18h 08m	(00-15) b: A: SU CI; B: HL SW PR; C: WN - bp: A: KN TF TK; B: DB HB OD EB QU; C: KV? HD PM - bps: B: IR - pi2: B: LM; C: TA.
03d 12h 15m	(15) bp: C: MT KA KY.
03d 12h 58m	(57-59) b: B: SW - bp: B: PM - bps: B: IR.
03d 15h 10m	(09-12) bp: B: IR; C: MT KA KY.
03d 15h 31m	(28-34) b: B: SW - bp: C: HB QU.
04d 12h 23m	(23-24) bps: B: CO - pi2: B: AC.
04d 23h 32m	(30-33) bp: B: MA CF; C: EB - pi2: A: AC; B: NI AQ PE MB TW; C: TA LU - pc4: B: QU; C: LM.
06d 08h 22m	(20-24) bps: B: ME - pi2: C: TU HU PP - pc4: A: TE.
07d 12h 22m	(21-24) bp: A: IR; C: MT.
07d 18h 35m	(30-43) bs: A: KN - bp: B: IR CF; C: MT QU - bps: B: HB?
07d 22h 42m	(35-54) bp: A: ES TC AE; B: MA CF LG EB; C: TL - bps: B: VL - (si: A: OD TE; B: LU).
08d 16h 39m	(39) bp: C: MT KA KY.
10d 17h 26m	(23-30) bp: C: KN - pi2: A: LM.
11d 12h 48m	(45-52) bp: B: IR MT KA KY PM - bps: A: AP; B: TO - pi2: A: HO AC - pc4: B: SI.
11d 17h 25m	(22-30) b: B: SW NI - bs: B: BE IK KS - bp: A: AK; B: QU HD; C: MT TF bps: A: KN MO IR PR; B: WN FU HB - (si: A: OD; B: TK).
11d 21h 06m	(05-07) bp: B: MA; C: EB - pi2: A: NI AC; B: MB; C: LM.
11d 21h 55m	(45-60) b: A: CI; B: PE AE HD LU; C: MB? - bs: A: SO KS; B: BE - bp: B: WN PR HB TF EB TL AK QU MC; C: KV? HR - bps: A: AM.
12d 02h 41m	(40-42) bs: B: KS - bp: B: SM.
12d 18h 57m	(54-60) b: B: SW - pi2: B: TR.
12d 19h 47m	(42-50) bp: C: KN - bps: B: SO - pi2: A: TK AC; B: OD AQ TF QU - (si: B: TR).
13d 02h 40m	(40) b: B: HU; C: MB - bp: B: CI MC.
13d 11h 44m	(43-45) bps: B: AM - pi2: A: AC.
13d 23h 13m	(12-14) bs: B: ES - bp: B: IR.
14d 09h 08m	(06-11) b: A: UB - bp: B: EB.
15d 10h 30m	(30) b: A: UB - bp: C: KV?
15d 10h 46m	(44-48) bp: A: AP; C: PP.
15d 12h 58m	(56-60) bp: B: TR; C: TL.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(JANUARY)

15d 13h 51m	(48-54) b: B: IR - bp: B: UB.
16d 05h 34m	(34-35) bp: B: HU - pi2: B: LM.
16d 10h 58m	(58) bp: C: MT KA KY.
16d 19h 27m	(24-28) b: B: BE - bp: A: TF; B: OD QU; C: WN HB SU EB - pi2: A: LM; B: TK.
17d 15h 32m	(30-35) bp: C: TF - (si: HL).
17d 17h 15m	(12-17) bp: B: QU; C: HB - bps: B: SO - pi2: A: TK AC; B: LM; C: MT KA KY.
18d 19h 02m	(54-17) b: B: SW - bs: B: SO IR - bp: HB OD TK IK QU; C: EB - pi2: B: TF LM; C: MT KA KY TA - pc4 + pi2: A: AC.
18d 19h 49m	(47-52) bp: B: MA CF; C: EB - pi2: B: NI.
19d 20h 09m	(08-10) b: C: HR - bp: B: TF.
20d 03h 12m	(10-15) bp: B: CF SM; C: EB - pi2: B: LM; C: HU.
20d 15h 47m	(46-50) b: B: SW - bp: B: TF - pi2: A: ME - (sfe: HB).
21d 01h 13m	(12-14) bp: B: CF; C: EB - pi2: A: LM; B: LG MB AC; C: TA.
21d 05h 28m	(26-30) bp: C: PP - pi2: A: HO.
21d 15h 18m	(07-35) b: B: SW; C: HD - bp: B: OD; C: WN TF - bps: B: IR - pi2: B: PE; C: MT KA KY LM.
22d 00h 20m	(15-27) bp: B: VL CF; C: TF EB - pi2: A: AC; B: NI MA PE MB LU LM - pc4: B: CI.
23d 00h 48m	(41-53) bp: C: EB - pi2: B: PE; C: LM.
23d 18h 50m	(40-57) b: B: HL SW - bs: B: IR - bp: A: SO NU IK; B: BE CF UB HB OD TK AK QU; C: ES WN KV? EB - pi2: A: AC; B: NI MA; C: LU.
23d 21h 14m	(09-16) b: B: SW - bs: B: HL TF - bp: A: NU; B: WN BE MA PR CF OD AQ TF IK QU; C: KV? EB PE - bps: A: SO; C: HB - pi2: A: AC; B: NI LM - (cr: C: LG).
24d 20h 49m	(45-51) bp: A: NU; B: CF; C: KV? TF EB - pi2: A: LM; B: NI OD LG AQ PE QU; C: LU HU AC - (ssc: B: SO).
24d 22h 35m	(35-36) b: A: LM - (si: C: PP).
25d 14h 46m	(43-48) bp: B: UB - pi2: A: AC; B: TK.
26d 13h 28m	(25-31) bp: C: PM - pi2: B: GN - (sfe: HR).
28d 18h 23m	(20-25) bp: B: KN - pi2: A: TK; B: QU.
28d 18h 51m	(48-54) b: B: SW - bp: B: KN MA CF OD; C: QU.
28d 19h 24m	(21-27) bs: B: IR - bp: A: AK; B: WN VL PR HB TF EB QU; C: ES - bps: B: TK - pc4: A: TE.
29d 02h 39m	(36-42) b: B: KN; C: AE - bs: A: CI; B: QU; C: LU HU - bp: B: OD PE; C: TF - (ssc: C: TK - si: A: AK; C: SU PM LM; cr: C: TL).
29d 17h 50m	(48-52) bp: B: KN - pi2: A: TF TK LM AC; B: NI OD EB QU PP TW; C: LU.
29d 19h 32m	(24-35) bp: C: HD - pi2: A: AC; B: NI AQ TF TK PE.
29d 19h 52m	(49-55) bp: B: CF; - pi2: A: TK QU TW; B: NI; C: HO HU - (si: A: SO; B: HB).

FEBRUARY

02d 18h 48m	(40-58) bp: B: KN OD - pi2: B: TK QU; C: BA.
03d 19h 56m	(54-62) b: B: IR - pi2: C: BA - (ssc: PP? - si: C: LM).
03d 22h 10m	(00-18) bp: B: ES VL MA CF; C: KN EB - bps: B: LE - pi2: A: NI TF TK BI LM; B: AQ PE SM QU TA BA LU TN; C: MB HU - pc5: A: TE.
04d 05h 00m	(54-69) bp: A: TE - pi2: A: AC; B: HU TW; C: TU.
04d 21h 06m	(05-06) bp: C: BI - pi2: A: BA; B: LM.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(FEBRUARY)

04d 21h 34m	(32-35) bp: B: CF - pi2: A: LG; B: AQ TF EB PE BL.
04d 21h 58m	(51-64) b: B: SW - bp: A: PR; B: ES WN VL HB LG EB; C: KV? TF-bps: B: TL - (ssc: B: SO).
05d 01h 37m	(30-48) b: A: SF HR; B: ES SW - bs: A: BA; B: MB - bp: A: PR TC MC; B: CF LG EB TL SM AE TA BI; C: WN TF - bps: B: HB.
05d 12h 03m	(00-06) bp: B: LU - (sfe: BA?).
05d 15h 49m	(45-54) bp: B: IR - pc4: B: SI.
06d 22h 34m	(30-36) bp: A: NU; B: SO WN VL PR CF OD LG IK EB; C: HB PE-bps: B: FU; C: LE - pi2: A: BA LM; B: NI TF TK BI.
08d 10h 17m	(17) bp: C: MT KA KY.
08d 14h 02m	(01-03) bp: C: MT - bps: C: KA KY - (ssc: B: TF).
11d 05h 25m	(20-35) b: A: PR; B: NU WN SW AE - bp: B: ES VL BE MA FU CF LG EB SM; C: MC - bps: A: CI AC; B: TR AG HU TW; C: TL MB.
11d 20h 13m	(07-15) bp: B: KN FU - pi2: B: LG PE BA BI; C: TF - (si: B: TR).
11d 20h 34m	(32-36) bs: B: SO - bp: B: VL MA CF IK; C: WN HB SU EB - bps: B: HL - pi2: B: NI TK.
11d 21h 35m	(22-42) bs: C: MB - bp: B: MC; C: KV? SU EB-bps; B: BI - pi2: B: PE BA; C: TF TK.
12d 21h 33m	(28-36) bp: B: MA CF; C: KN ES EB - pi2: A: TF BA LM; B: NI LG AQ TK PE. LU.
15d 20h 48m	(44-52) bp: A: NU; B: OD - pi2: A: TF BA; B: TK QU LM - (ssc: B: TR SO).
16d 17h 39m	(33-45) b: B: NI - bp: B: QU - bps: A: MO.
17d 02h 10m	(08-12) bp: B: TC - pi2: B: BI.
17d 03h 05m	(02-12) bp: A: TE; B: HU - pi2: A: TW; B: BI.
17d 10h 38m	(38) bp: C: MT KA KY.
17d 10h 57m	(56-57) b: B: IR; C: GU - bp: B: PM.
17d 20h 53m	(40-66) bp: B: OD MC BI; C: LZ.
19d 12h 56m	(54-58) bp: B: IR PM TO; C: MT KA KY.
19d 18h 52m	(50-56) b: C: HR - bp: B: SO OD BI; C: WN - bps: B: HL.
19d 22h 57m	(51-60) b: A: CI AK; C: HR - bs: A: KS; B: HL - bp: A: IK; B: SO ES MA CF HB OD SU EB MC BI LM; C: KN WN TF PE QU - bps: B: LE BE LG BA; C: TL - (si: A: TR).
20d 17h 20m	(16-26) bp: A: TF; B: KN OD LM - pi2: A: AC; C: TK - pc4: B: BI TW - (sfe: HB).
20d 20h 25m	(14-28) bs: B: SO - bp: B: LE VL MA; C: KN EB - pi2: A: RA; B: TF BI; C: LM - (si: B: TR).
21d 14h 36m	(35-37) b: C: TC - bp: B: VL.
22d 13h 33m	(30-39) bp: A: AM; B: PM - pi2: A: AC - pc4: C: HO.
23d 01h 10m	(06-13) b: C: AE HR? - bp: B: CF SM TC MC; C: EB LU - pi2: B: TA.
23d 20h 37m	(37-39) bp: B: CF; C: EB - pi2: A: LG AC; B: MA.
24d 18h 33m	(30-36) bp: B: SO NU IR CF OD TK AK QU - bps: B: KN - pi2: A: BA LM AC; B: MA.
24d 19h 25m	(25-26) b: A: SO - bp: C: KV? - pi2: B: BA.
25d 04h 04m	(00.09) b: B: SW - pi2: B: LM.
25d 04h 39m	(30-50) b: A: PR; B: WN AG; C: AE; bp: B: LE VL FR; C: LG TL - pi2: C: HU.
25d 05h 09m	(00-15) b: A: SJ; B: ES - bp: A: SO SU; C: HU - (si: B: TR).
25d 16h 58m	(52-73) b: A: NU - bp: B: HL MT EB AK KA KY GU PM GN - bps: A: KN TK TO; B: MG MO IR - pi2: A: LM AC TW - pc4: A: SI?

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(FEBRUARY)

25d 23h 02m	(00-05) bp: B: CF - pi2: B: BA.
26d 11h 22m	(15-30) bp: B: AP; C: MG PM.
26d 15h 28m	(28) bp: B: KN TK.
26d 15h 42m	(40-43) b: B: HL - bp: B: IR OD PM; C: SU MT KA KY - bps: B: ES.
26d 16h 00m	(00) bp: B: KV? - bps: B: MG.
27d 13h 40m	(39-42) bp: B: SU - pi2: C: LM.
27d 17h 28m	(24-42) b: A: NU MO IK; B: HL SW PE - bs: A: SO KS; B: BE - bp: A: WN PR TF TK QU; B: LE ES IR NI VL DB FU HB OD AK; C: MT EB HD - bps: A: KN - pi2: B: BI; C: LM.
28d 21h 10m	(59-15) bp: A: TF; B: KN ES WN VL MA PR CF OD IK; C: KV? HB EB PE - bps: A: SO NU; B: DO LE FU QU - pi2: A: HO BA AC TW; B: NI AQ TA MB BI LU HU LM; C: PP - (si: B: TR).

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01d 02h 14m	(09-24) bp: B: VL CF CI SM; C: EB - pi2: A: LM; B: NI BI TW; C: LU HU - pc4: B: TR.
01d 13h 41m	(33-44) bp: B: MT KA PM GN; C: KY - bps: A: MG; B: TK; C: BI - (ssc: A: UB).
01d 14h 04m	(58-06) bp: B: KN TO - pi2: A: AC; C: GU - (si: B: MO OD).
02d 04h 11m	(11-12) bp: B: SM - pi2: C: HU.
02d 21h 25m	(11-29) bp: A: NU; B: LE KN ES WN VL PR FU HB OD LG IK PE; C: KV? TF EB - bps: A: KS; B: SO BI - pi2: A: BA; B: NI AC; C: LM - (si: B: TR).
02d 22h 12m	(08-14) bp: A: IK; B: NU LE KN VL MA PR CF HB OD EB PE BI; C: WN KV? - bps: B: SO HL FU - pi2: B: NI AQ AC; C: TF MB LM - (si: B: TR).
03d 23h 16m	(10-25) bp: B: SO ES VL MA CF OD; C: EB PE - pi2: A: BA; B: MC AQ TA; C: MB LM.
04d 00h 53m	(52-53) bp: C: EB - pi2: A: BA; B: PE AC; C: MB LM.
04d 23h 11m	(00-14) b: B: SW - bs: A: SF - bp: A: KN SU IK PE TP TC MC; B: MO KV? MA PR CF TK EB SM AE QU TA BI HR; C: LZ WN HB TN - bps: A: NU LE ES OD LG KS; B: DO HL WI VL BE FU HB AQ TF CI TL MB BA - pi2: A: NI LM AC; B: HO PP TW; C: HU - (ssc: B: SO - si: B: TR).
05d 00h 00m	(00) bp: B: AK; C: KV?
05d 01h 11m	(08-14) bp: C: EB HU - pi2: A: AC; B: LM TW; C: MB.
05d 13h 55m	(50-60) b: A: MG - bp: C: MT KA KY PM - bps: B: TR - pi2: B: GN TO.
05d 21h 41m	(24-46) b: B: SW - bp: A: PR OD; B: KN ES HL WN WI NI VL BE MA DB CF HB TK IK EB PE TP QU; C: SU TF HR - bps: A: DO NU; B: LE IR FU TL - pi2: A: BA AC; B: BI; C: LU - (ssc: B: SO).
05d 22h 06m	(06) bp: B: KV? PE.
06d 00h 18m	(08-25) bp: B: SM - pi2: A: BA; B: BI; C: EB LM - pc5+pi2: B: AC.
06d 05h 43m	(40-45) bp: A: SJ; C: HU - pi2: A: HO AC TW; C: TU.
06d 13h 13m	(12-16) bp: B: IR; C: AP - pi2: B: MG? TO; C: MT KA KY - pc4+pi2: A: AC.
06d 17h 12m	(00-24) bp: A: KN; B: SO OD QU - pi2: A: KS AC; B: TF BA; C: MT KY.
06d 20h 51m	(50-52) bp: A: NU; B: CF OD; C: KV? TF.
07d 12h 07m	(00-24) bp: A: MG; B: HR - bps: C: AP - pi2: A: AC; B: BI TO TW; C: MT KA KY GU - pc4: B: SI?; C: PP.
07d 20h 52m	(46-57) bp: B: SO; C: KV? - pi2: A: KN KS BA; B: NI TK EB PE BI AC; C: HU - pc4: B: PP.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(MARCH)

07d 21h 41m	(39-44) bp: B: SO LE KN ES VL BE MA CF OD LG AQ TF IK TA BI; C: WN HB SU EB PE TC BA MC - bps: A: KS; C: MB - pi2: A: NI; B: AC - pc4: B: WI.
09d 23h 39m	(30-50) b: A: NU; B: SW - bs: B: HL - bp: A: ES PR LG MC HR; B: WN WI VL MA CF HB EB TL PE SM AE; C: KV? TA - bps: A: BA; B: MO FU MB BI.
10d 15h 28m	(20-30) b: A: TR TC - bp: C: MC - bps: B: BI - (si: B: TL - sfe: OD HU).
10d 18h 06m	(53-10) b: A: MO; B: SW BE - bs: B: KN UB - bp: B: NU OD; C: LE-bps: A: SO - pi2: B: TF QU; C: TK.
13d 06h 41m	(40-42) bps: A: AC - pi2: B: TA PP; C: TU LM.
13d 11h 28m	(27-30) b: B: OD - bp: B: TR.
13d 22h 28m	(21-31) bp: B: QU BI - pi2: B: LM AC.
13d 22h 49m	(44-56) bp: A: OD; B: SO KN HL MA HB IK EB TP BA; C: KV? PE - pc4: B: CI.
14d 00h 14m	(05-18) bp: A: OD IK; B: SO NU KN ES VL MA DB CF HB OD LGAQ EB CI SM BA MC BI HR; C: WN TL PE AE TA - pi2: B: NI - pc4: C: TF.
14d 17h 29m	(20-35) bp: B: KN OD - pi2: A: MG TK LM GN AC TW; B: QU BI PP.
14d 17h 53m	(52-54) bp: C: KV? - bps: B: SO - pi2: B: MA TF EB.
14d 20h 16m	(12-18) b: B: HL SW - bs: A: KS; B: SO - bp: A: NU OD IK; B: WI VL MA PR HB SU LG AQ EB PE TP QU BA MC BI HR AC; WN KV? TF - bps: A: KN; B: BE FU TK - pi2: A: NI LM; C: MB HU - (si: B: TR).
15d 17h 08m	(08-10) bp: C: KN KV? - pi2: B: TK; C: TF LM.
15d 22h 38m	(32-40) bp: B: SO - pi2: A: LG HO BA LM AC; B: WI MA AQ EB PE BI HU PP TN ; C: MB - pg: B: KN - pc4: B: TR.
16d 16h 12m	(10-15) bp: C: KN - pi2: A: AC TW; B: MG TF TK; C: MT KA KY BILM.
16d 17h 32m	(30-39) b: A: TR - bp: A: TP; B: SO OD AK; C: EB - bps: A: TK; B: KN UB - pi2: B: BI LM - (ssc: C: TF).
16d 18h 51m	(44-60) bp: B: TR SO; C: KN KV? - pi2: A: AC; B: TK; C: LM.
16d 20h 30m	(27-35) b: B: SW - bs: A: SO - bp: A: NU; B: LE KN ES WN VL BE MA PR CF OD IK EB BI TN; C: PE LM - bps: B: HL FU - pi2: A: TK AC; C: PP - (ssc: C: BA - si: B: LG).
16d 21h 23m	(21-24) bp: B: BI; C: EB PE - pi2: B: LM.
16d 21h 45m	(45-46) bp: B: CF - pi2: A: BA.
16d 22h 12m	(10-13) b: C: TC - bs: B: AC - bp: B: BI; C: PP.
17d 23h 07m	(03-10) bp: B: SO VL MA CF EB; C: KV? BI - bps: B: ES LG - pi2: A: BA AC; B: WI AQ TK LM - (ssc: B: HB?).
18d 03h 26m	(15-31) b: C: AE - bp: A: CI SJ; B: WN BE MA PR CF EB SM; C: FR BI HU - bps: B: VL FU AG; C: TL - pi2: A: TE; B: LM.
18d 15h 07m	(06-08) b: B: IR - bps: A: UB.
18d 17h 41m	(30-45) b: A: PR; B: WN IR - bs: B: BE - bp: A: MO; B: NI TF TP HD; C: QU - pi2: B: LM.
19d 01h 56m	(42-65) bp: A: PR; B: ES WN MA CF EB PE TC BA MC BI - pi2: A: AC B: LM.
19d 02h 41m	(38-45) bps: A: AC; B: HU - pi2: C: TU LM.
19d 03h 04m	(03-06) bp: B: ES EB.
19d 03h 29m	(26-33) bp: A: TE - pi2: A: AC.
19d 13h 00m	(00) bps: A: AP - pi2: B: SJ - (ssc: B: IR).
19d 17h 16m	(59-27) b: A: SU; bs: A: NU KS - bp: B: WI KV? MA EB TL AE MC BIHR; C: QU - bps: A: MO NI PR HB TP; B: WN IR VL - (ssc: B: TF TA).
19d 21h 40m	(35-47) bp: A: TC; B: EB TL AE HR - bps: B: CF MC BI - pi2: A: AC; B:

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(MARCH)

	MA BA - (si: A: OD).
20d 12h 02m	(55-06) bp: B: PM TO - bps: C: MO - pi2: B: SI HO.
20d 21h 40m	(35-51) b: A: SI SF MC; B: OD SU PE AE HR - bs: A: NU KS; B: BE; C: TF - bp: B: WN MA DB PR CF HB EB TL SM BI LM; C: KV? TP QU - bps: A: BA; B: FU - (ssc: B: SO).
21d 01h 51m	(38-66) b: A: NU KN ES SU SF SJ HR; B: SW NI DB LG PE AE; C: HU - bs: B: VL BE - bp: A: WN PR OD CI TC MC AC TW; B: LE MO MA CF HB EB TL SM; C: VI MT KA KY - bps: A: BA; B: MB BI LM - (sfe: MG).
21d 11h 03m	(00-07) bp: C: PP - pi2: C: HO.
21d 12h 59m	(48-70) bs: B: UB - bp: B: AP TO; C: MG MT KA KY.
21d 19h 04m	(00-06) bp: B: MA CF; C: KV? BI - bps: A: NU - pi2: A: NI LM AC TW; B: WI AQ EB QU; C: TF - (ssc: A: SO; B: TR).
21d 20h 31m	(31-32) bps: C: BI - pi2: B: BA.
21d 21h 52m	(51-52) bp: B: MA BI - pi2: A: AC.
21d 22h 15m	(10-31) b: A: NU SF; B: PE MB HR; C: AE - bs: A: OD KS TC; B: VL TW - bp: A: SO PR MC; B: ES HL WN WI HB EB TL SM - bps: A: BA; B: DB FU CF LM.
22d 05h 06m	(03-10) bp: A: VI - bps: C: HU.
25d 08h 16m	(14-18) bp: B: VI AP; C: PP - pc4: C: HO.
25d 19h 49m	(41-52) bp: B: SO KN; C: KV? EB BI - pi2: A: BA LM AC; B: AQ TF HO HU.
25d 20h 56m	(52-60) bp: B: SO; C: KN WN KV? EB - pi2: A: BA; B: MA AQ TK BI LM AC; C: HU.
25d 22h 08m	(05-09) bp: B: PE; C: KN EB BI - pi2: A: BA.
25d 23h 37m	(35-38) bp: C: BI - pi2: A: AC; B: PE.
26d 00h 01m	(00-04) bp: B: EB - pi2: B: MA AQ LM - pc4: B: CI - pc5: B: WI.
26d 11h 47m	(47-48) bp: C: MG - pi2: C: MT KA KY.
26d 13h 00m	(56-04) bp: B: TO; C: PM - (ssc: C: VL - si: C: TL).
27d 00h 19m	(00-33) bp: A: CI; B: LZ LE MA CF LG AQ EB PE SM BI; C: HR - bps: A: VL - pi2: A: NI LM AC; C: MB - (ssc: B: SO KS; C: SU TN - si: B: OD).
27d 12h 28m	(26-30) bp: B: PM; C: MT KA KY - bps: A: MG AP AM.
27d 16h 14m	(10-16) bp: A: KN IR; B: QU; C: MT KY.
27d 16h 34m	(30-39) bp: A: MG OD; B: MO PM.
27d 20h 45m	(30-50) b: A: CI SF; B: SW PE AE - bs: C: KS - bp: A: PR; B: LE ES NI VL KV? MA CF HB OD EB; C: LZ SU TL - bps: B: DO WN BE - pi2; B: BA - (ssc: B: SO).
28d 08h 19m	(18-20) bp: A: MG AP; C: MT.
28d 11h 27m	(24-28) b: A: MG; C: PP - bp: C: PM - bps: A: AP; B: AM.
28d 14h 28m	(20-30) bp: B: IR PM; C: MT KA KY
29d 04h 10m	(05-15) bp: C: HU - pi2: C: TU.
29d 16h 42m	(33-51) b: A: HR; B: ES HL IR SW NI - bs: B: BE - bp: A: KN PR TK; B: MG VL WN HB OD MT LG KY PM; C: SU TF KA GU.
30d 02h 12m	(04-19) bp: B: SM - pi2: A: AC; B: LM; C: TA HU.
30d 17h 25m	(18-30) b: B: NI SW - bp: B: MG - pi2: C: LM.
30d 17h 48m	(45-49) bp: B: SO WN PR HB OD; C: TF HD.
30d 22h 14m	(06-18) b: A: SF HR; B: SW NI DB MB; C: AE - bp: A: TC MC; B: LE ES WN VL PR CF EB CI TL SM BA BI AC.
30d 22h 38m	(30-47) bp: B: TW - pi2: C: MB LM.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(MARCH)

31d 23h 51m (46-56) b: B: HL - bs: B: KS - bp: B: VL KV? MA CF AQ IK EB; C: KN
SU LG BI - bps: B: SO LE - pi2: A: BA.

APRIL

02d 11h 33m (27-39) bp: A: TE; B: IR TO AM; C: VI MT KA KY - bps: A: PM AP; B:
MG AG PP; C: GU - pc4: B: HO - (sfe: HB).

02d 20h 13m (08-16) bp: B: SW EB; C: KV? - bps: B: IR HB OD BI; C: WN TF-pi2: B:
LM; C: BA - (ssc: B: SO - si: B: BE).

03d 01h 15m (10-20) b: C: HU - bp: B: SM; C: BI.

04d 13h 43m (40-45) bp: A: AM; B: TO - bps: B: MG - pi2: C: MT KA KY - pc4: A: AC;
B: PP.

04d 23h 39m (33-40) bp: B: CF; C: ES EB BI - pi2: B: PE.

05d 09h 17m (15-20) bp: C: SU - bps: C: AP.

05d 15h 03m (00-06) bp: B: OD - (si: C: LM).

05d 15h 21m (18-24) bp: A: IR; B: MG.

05d 23h 19m (19-20) bp: B: ES; C: BI.

06d 16h 26m (26) bp: B: OD; C: KN.

06d 22h 59m (59-60) bp: B: EB; C: BI.

07d 02h 05m (02-10) b: C: HU HR - pi2: A: BA.

07d 05h 28m (28) bp: B: TE; C: PP.

07d 18h 52m (42-63) bp: A: TF; B: LE KN ES VL FU CF HB OD SU TP HD BI; C: WN
EB TL - pi2: A: LG AC TW; B: MG NI MA TK BA LM; C: MT KY-(ssc:
B: SO).

07d 19h 28m (18-32) b: B: IR PE; C: HR - bs: B: HL - bp: B: EB; C: AK MC - bps: B:
UB TK.

08d 01h 21m (16-23) bp: B: EB SM - pi2: A: AC LM; B: NI PF BI - pc4: A: CI; B: TR
BA; C: MB.

08d 23h 46m (43-48) bp: B: LE; C: EB BA - bps: C: BI - pi2: B: PE LM.

09d 00h 12m (05-19) b: C: MB - bp: B: WN VL HA MA PR CF HB IK CI SM TC MC
LM; C: DB PE LU HR - bps: B: ES OD LG EB TL AE BA BI; C: TL -
pi2: B: NI.

09d 01h 55m (40-60) b: A: SF; C: MB - bs: B: VL - bp: B: LE WN PR CF HB EB CI SM
AE TC MC BI HU; C: HA KV? DB IK TL LM - bps: A: TW; B: ES - pi2: B:
BA; C: HU - pc4: C: PP

09d 20h 46m (43-50) bp: B: SO NU KN TF; C: LZ - pi2: A: TK IK LM; B: AQ EB LU BI
HU TN; C: MT - pc4: A: AC - (si: A: BA).

09d 21h 41m (39-45) b: B: HL SW - bs: A: KS - bp: A: NU IK MC; B: KN ES WI NI HA
MA CF AQ EB CI PE SM TP TC BI TN LM; C: SU AE - bps: A: SO; B:
LE WN VL BE PR FU HB LG TK TL MB BA LU - pi2: A: AC; B: HO
HU - pc4: A: TE.

10d 02h 51m (46-55) bp: B: VL DB CF MC; C: EB BI - pi2: A: BA; C: MB LM.

10d 19h 20m (17-23) b: B: SW - bs: B: SO - bp: A: OD LM; B: LZ WN IR VL BE MA PR
CF AQ TF IK EB TP HD TN GN; C: HR - bps: A: KN UB; B: ES TK-pi2:
B: HO LU.

11d 13h 57m (54-61) bp: C: PM - pi2: A: AC; B: MG LM; C: MT KA KY BI.

12d 02h 57m (52-62) b: A: SF - bp: A: SJ HU TW; B: ES VL CF EB FR SM AE TC MC
BI LM; C: WN HA TL HR - bps: B: AG; C: CI BA - pi2: B: MB.

12d 22h 20m (18-21) bps: B: TR - pi2: A: BA; B: CF AQ IK LU LM; C: MB.

13d 22h 22m (20-24) bp: B: BI - pi2: A: AC; B: KN NI AQ EB - pc4: B: TE.

13d 22h 46m (45-47) bp: B: IK - pi2: A: LM; B: SM.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(APRIL)

13d 23h 02m	(00-05) bp: B: SO ES HA FU CF HB OD EB MC; C: KV? PE BA - bps: B: LE LG KS - pi2: B: SM TN - pc4: B: CI; C: TA.
15d 06h 40m	(40) bp: C: ME - pi2: C: HU.
15d 22h 04m	(00-06) bp: B: BI - pi2: A: BA; B: PE; C: LM.
16d 02h 59m	(56-60) bp: C: BI HR - pi2: A: AC; C: MB.
16d 18h 31m	(24-33) b: B: SW - bp: C: WN - pi2: B: AQ IK EB BA BI LU LM - pg: B: DB - (ssc: B: SO).
16d 20h 04m	(59-19) bp: B: WN IR VL HA MA PR CF AQ TK IK EB AE TC HD PM TN GN AC; C: KV? MT PE KA KY - bps: A: UB; B: MG TL; C: LM - pi2: A: BA; B: MB BA BI - pg: A: KN - (ssc: B: SO).
17d 23h 06m	(00-10) bp: B: VL MA CF EB MC; C: HA - pi2: A: BA; B: PE LU; C: MB LM.
18d 23h 40m	(40-41) b: B: ES - bp: C: TL.
19d 02h 29m	(20-32) b: A: TC SJ; B: MB HU; C: HR - bp: B: CI; C: TL - bps: A: AC - pi2: C: BA.
19d 19h 38m	(32-51) b: B: SW AE - bs: A: UB TK - bp: A: IK; B: KN WN IR DB PR HB OD SU EB HD TN; C: KV? TL TP MC - bps: B: TF - (ssc: B: SO).
20d 02h 38m	(30-41) bp: B: CF SM; C: EB MC HR.
20d 13h 12m	(05-18) bp: B: MG KN GU PM TO; C: MT KA KY - bps: B: IR.
20d 18h 46m	(30-56) b: B: HL IR SW NI TN - bp: A: NU WN SU IK KS; B: MO WI VL BE KV? FU HB OD EB CI AK LM; C: HA TP HD - bps: A: KN; B: TF TK TL - (ssc: B: SO).
21d 16h 00m	(59-01) bp: B: MA TK GN; C: MT KA KY HB PM - bps: A: KN UB; B: IR OD.
22d 00h 42m	(42) bp: C: KV? - pi2: A: MG.
22d 01h 26m	(25-28) b: B: MB; C: AE.
22d 08h 16m	(12-18) bp: A: AM; B: MG; C: AP.
22d 19h 16m	(16) bp: B: KN; C: KV?
23d 01h 28m	(24-30) b: A: SF - bs: B: SO HL - bp: A: NU IK CI; B: KN WN WI SW VL HA MA PR CF AQ EB TA MC LU HR; C: LM - bps: A: ES OD KS; B: LE VL BE FU TL AE BA - (ssc: C: SU - si: B: TN?).
23d 18h 12m	(12) bp: B: IR; C: KV?
23d 19h 59m	(58-61) BP: B: MO KV? CF - bps: A: PR HB; B: WN - (si: A: SO OD; B: LE).
24d 11h 29m	(25-32) bp: B: IR - pi2: B: HO GU - pc4: B: SI?; C: TU - (si: C: MG).
24d 21h 04m	(00-06) b: B: MB HR - bp: C: EB - bps: B: BA - pi2: B: CF; C: LM.
26d 18h 41m	(40-43) bp: C: TF - (ssc: C: MB).
29d 01h 30m	(22-32) bp: B: VL SM MC; C: EB - pi2: B: KN HA PE LU AC; LM - pc4: B: CI.
29d 20h 50m	(48-56) b: B: HL; C: TC MC - bp: B: VL - (ssc: B: GU - si: A: TE).

MAY

01d 02h 08m	(08-09) bp: B: VL CI; C: EB MC.
01d 22h 38m	(34-41) bp: A: MC; B: ES CF EB TL TC HR - bps: A: MA; B: WI HB LG - pi2: A: NI BA LM AC; B: HO MB - (si: B: LE).
02d 17h 05m	(00-10) b: B: IR - bp: B: MO.
02d 22h 25m	(22-32) bp: A: MC; B: IR MA CF - pi2: A: BA LM; B: MB.
03d 17h 08m	(00-13) bs: A: HB - bp: A: MO - bps: A: IR - pi2: A: LM - (si: A: OD; B: LE).
04d 02h 38m	(37-40) bp: B: ES EB; C: HR.
04d 08h 46m	(44-48) bp: B: MG AM.
04d 12h 57m	(42-66) b: A: MG; B: SW GN - bp: A: TO; B: IR PM AM; C: MT KA KY.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(MAY)

04d 21h 38m	(28-41) b: A: SF; B: HL SW DB PE; C: AE MB - bs; B: SO - bp; B: ES MA CF LG IK EB TC MC; C: WN HB - bps; B: FU OD TL - pi2; C: BA - (ssc: C: LM - si: A: KS).
04d 23h 50m	(48-58) b: C: MB - bs; B: SO - bp; B: VL CF MC; C: WN EB.
05d 00h 57m	(55-60) b: C: MB - bp; C: HR.
05d 08h 40m	(39-41) b: B: HD - bp; A: TE; C: MT KA KY.
05d 08h 56m	(54-58) b: B: MG - bp; B: TO.
05d 17h 09m	(04-14) b: B: SW; C: SU HD HR - bs; B: SO; C: EB - bp; A: KN; B: MG WN IR VL MA PR HB OD TF IK PM; C: KV? MT TK KA KY LM - bps; A: UB; B: GN.
05d 22h 26m	(26-27) bp; B: MA CF - pi2; B: EB; C: BA.
05d 22h 50m	(48-52) bp; B: WN VL PR; C: EB - (ssc: B: SO).
06d 02h 49m	(49-50) bp; A: AC - pi2; A: TW.
06d 03h 50m	(50) b: A: SJ - bp; B: HU.
06d 12h 34m	(32-36) bp; B: PM TO; C: AP - bps; B: AM - pi2; A: HO; B: TK.
07d 04h 09m	(09) bp; B: MC - bps; B: ES.
08d 11h 57m	(52-62) bp; B: PM AP TO - bps; B: AM - pi2; C: MT - (ssc: A: PB).
08d 19h 48m	(40-60) b: B: SW - bp; B: KN HB OD TF; C: KV? - pi2; C: TF.
10d 14h 54m	(53-60) bp; B: KN; C: KV? - pi2; A: UB; B: TL; C: MT TF KA KY.
10d 20h 24m	(19-29) bp; B: VL - pi2; B: EB.
11d 00h 08m	(00-17) b: A: OD SF MB; B: SW DB - bp; A: CI MC HR; B: ES VL MA CF TF EB PE SM AE TC TA BA - bps; B: LE WN PR LG IK TL KS LM - (si: B: KN).
11d 05h 02m	(02-03) bp; A: AC - pi2; C: LM.
11d 21h 28m	(26-30) bp; B: LZ - pi2; A: BA.
11d 21h 47m	(45-49) bps; B: VL - (ssc: B: SO).
12d 02h 19m	(15-26) b: B: SW - bp; B: ES WN VL MA CF LG EB TL SM TC MC HR; C: IK - pi2; A: AC; B: AQ MB TW - pc4; B: LM.
12d 02h 41m	(40-44) bp; A: CI - pi2; A: AC; B: MB.
12d 18h 26m	(18-40) b: A: PR; B: WN SW; C: HD - bp; B: KN IR; C: TF - pi2; C: MT.
12d 21h 18m	(10-30) bp; A: WN PR; B: VL HB IK EB TL SM; C: KN TF MC - bps; B: BE FU - pi2; A: BA; B: TK LM - (ssc: B: SO).
13d 02h 28m	(20-30) b: C: AE - bp; A: CI MC; B: VL MA CF LG EB TL SM HR; C: WN - pi2; A: BA; B: IK MB LM AC; C: HU.
13d 13h 12m	(03-15) bp; B: PM - bps; B: TO - pi2; A: MC TK KY HO AC AM; B: MT KA GU LM; C: PP - pg; B: KN - (si: B: UB).
13d 21h 10m	(07-12) bp; B: CF; C: MC - pi2; B: EB BA.
13d 22h 26m	(16-33) bp; B: VL; C: MC - pi2; A: BA; B: IK EB LM.
14d 00h 34m	(32-37) b: C: AE MB - bp; A: MC HR; B: ES CF OD LG EB SM; C: MA TA - bps; B: BA; C: TL - pi2; C: LM.
14d 14h 08m	(06-09) bp; B: IR - pi2; A: TK; B: MT.
14d 14h 28m	(26-30) b: A: PR SF; B: ES WN SW; C: PP - bp; VL PM TO; C: KN - pi2; B: MG KA KY - (ssc: B: QU; C: SU TF - si: A: OD - sfc: LG? TL).
14d 19h 19m	(12-24) bp; A: KN; B: MO VL CF AQ TK IK EB PM - pi2; A: BA LM AC; B: WI NI - (ssc: A: SO).
15d 21h 51m	(50-52) bp; B: MA; C: KV? - bps; B: SO - pi2; A: BA; B: CF OD EB LM.
15d 23h 05m	(02-10) bp; B: EB - pi2; A: BA; B: MA; C: LM - (ssc: B: SO).
16d 00h 23m	(20-26) bp; B: MA - pi2; B: MG.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(MAY)

16d 05h 00m	(52-08)	bs: B: ME - bp: B: HU - pi2: A: AC TW; C: TU TA PP LM.
16d 11h 23m	(22-25)	b: A: TR - (si: B: HB?).
16d 19h 36m	(35-38)	bp: B: CF; C: KN - pi2: A: TF TK IK BA AC; B: MG NI OD AQ EB HU TN LM; C: MT PP - (ssc: B: SO).
16d 21h 06m	(04-07)	bp: C: KV? EB - pi2: A: AQ TK - (ssc: B: SO).
17d 00h 31m	(15-40)	b: A: SF; B: TN - bs: B: HL - bp: A: SU IK EB CI TA MC HR; B: KN ES WN WI SW WL BE DB PR FU CF HB AQ SM AE TC; C: TF - bps: A: OD KS BA; B: LE MO LG TL MB; C: LM - pi2: B: NI PE - (ssc: B: SO).
17d 18h 30m	(30)	bp: C: KV? TF.
17d 21h 33m	(30-35)	b: B: SW - bp: B: WN VL PR HB OD; C: KV? TF EB - pi2: A: BA; C: LM - (ssc: B: SO).
17d 04h 52m	(52-53)	bp: B: HU - pc4: C: LM.
18d 02h 59m	(55-63)	b: C: MB - bp: B: VL EB SM HR; C: MC.
18d 05h 02m	(00-05)	b: B: HU - bp: A: TE; C: PP - pi2: B: LM; C: TU.
19d 00h 57m	(52-60)	bp: B: MA - pi2: A: BA AC; B: LM; C: MB.
19d 01h 19m	(14-22)	b: C: AE - bp: B: ES WN VL PR CF OD IK EB HR; C: HB MC - bps: B: LE LG - pi2: B: NI.
19d 06h 14m	(12-15)	b: B: HU; C: PP - bps: A: TE.
20d 20h 41m	(34-43)	bp: B: VL; C: WN EB - pi2: A: BA; B: CF AQ; C: TN.
21d 18h 25m	(25)	bp: C: KV? - pi2: B: OD.
21d 22h 32m	(30-40)	bp: B: CF BA MC - pi2: A: MA TF EB LM; B: KN LG TK IK TN - pc4: A: AC; B: CI - (ssc: C: SU).
23d 20h 00m	(00)	bp: C: LZ KV?
23d 20h 14m	(12-14)	bp: B: MA CF - pi2: A: NI BA; B: AQ TK EB LM.
23d 21h 13m	(12-14)	bs: B: FU - pi2: A: BA; B: LM.
24d 13h 09m	(09-10)	bp: A: AM - bps: A: AP.
26d 06h 56m	(53-60)	bp: A: IR - (si: A: TE).
26d 23h 39m	(39-40)	bs: A: AC; B: BA?
27d 18h 37m	(36-38)	bp: B: TC - bps: C: TL - pi2: A: BA - (ssc: B: SO).
27d 19h 43m	(42-45)	b: B: MB - bp: C: KV? - (ssc: B: TF).
29d 20h 00m	(00)	bp: B: KV? - pi2: C: MG.
31d 01h 55m	(52-58)	b: A: SF; B: ES HR - bp: B: CF - (si: B: GU).

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02d 09h 36m	(35-40)	bp: C: VI PP? - pi2: A: AC; C: TU - pc4: TE MB.
02d 10h 18m	(18)	bp: B: OD; C: KV?
03d 00h 55m	(54-55)	bp: B: HU; C: EB - bps: A: AC; C: MB - pi2: A: BA; B: IK PE PP LM; C: TU.
03d 03h 57m	(55-59)	bp: A: TE - bs: A: AC; C: HU - pi2: B: TW.
03d 17h 24m	(22-26)	bp: A: KN; B: OD TK LM; C: HR - bps: B: UB - pi2: C: LM - (ssc: C: QU BA - si: BE).
03d 23h 46m	(44-48)	b: A: KN - bp: C: TF - (si: A: BA - cr: SW).
04d 12h 49m	(32-58)	b: B: IK MB - bs: A: NU - bp: B: IR - bps: B: MO - pi2; B: BA TO; C: MG MT KA KY PP LM - (si: A: OD; B: WN).
04d 21h 14m	(11-23)	bp: B: MC - pi2: B: MA CF IK EB; C: BA LM.
04d 22h 24m	(21-27)	bp: B: CF TP; C: EB - bps: B: BA.
05d 11h 00m	(00)	bp: A: MG - (ssc: B: OD).

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(JUNE)

05d 11h 55m	(55-56) b: C: AE - bp: B: KV? - bps: B: IR.
06d 01h 11m	(10-12) bp: A: HR - bps: A: IR
07d 00h 56m	(40-77) b: A: SJ; B: ES HU - bp: A: TC MC HR; B: HA CF EB TL BI; C: TF - bps: A: BA; B: AE - (si: A: TE).
08d 10h 25m	(24-26) bp: B: TO - bps: A: AM - (si: B: KN).
08d 14h 15m	(15-17) bp: B: GN - bps: A: IR - pi2: B: MT; C: KA KY.
08d 20h 03m	(57-23) b: A: MB; B: HL SW NI PE HD; C: TN? - bs: A: KS - bp: A: TP MC HR; B: WN WI VL HA MA PR CF SU LG AQ TF IK EB TC LU; C: LM - bps: A: BA; B: FU TL - (ssc: A: SO).
09d 10h 43m	(30-58) b: A: IR UB - bp: A: MG AP AM; B: TO; C: LZ MT KA KY - pi2: C: LM.
09d 22h 33m	(23-51) b: B: SW PE HD; C: TN? - bs: A: KS; B: ES HL - bp: A: NU KN MA HB LG AQ IK EB TC MB LU MC AC; B: MO WN WI VL HA DB PR CF TK CI AK SM AE QU HR - bps: A: OD SU TF TL TP BA LM; B: NI BE FU - (ssc: A: SO).
10d 07h 36m	(28-42) bp: A: AP AM; B: MG VI OD - bps: B: ME; C: PP - pg: A: KN.
11d 14h 47m	(42-50) bp: B: TO - pi2: A: MG NI AQ IK EB KY QU BA? AC; B: ES WI MA MT PE KA GU HU GN; C: TF TA - pg: B: KN - pc4: B: MB - (si: A: UB).
11d 18h 26m	(21-29) bp: A: NU; B: KN IR VL OD TF; C: LZ WN HB IK EB - pi2: B: CF BI; C: MT KY - (ssc: A: SO).
12d 23h 29m	(28-30) b: B: BI - pi2: B: TE.
13d 00h 31m	(28-34) bp: C: TF - pi2: C: BI.
13d 01h 32m	(15-35) bp: B: CF; C: EB - pi2: A: BA AC; B: MA IK MB LU HU LM TW; C: TU - pc4: A: CI.
13d 02h 21m	(12-32) bp: C: MC - pi2: A: BA; B: HU PP TW - pc5: B: TE.
14d 01h 29m	(26-32) b: B: BI - pi2: A: BA.
14d 02h 32m	(20-38) bp: A: CI MC; B: WN VL CF HB IK EB SM TC HU HR - bps: B: AE - pi2: A: KS AC; B: WI MA AQ MB LM; C: TA.
14d 06h 28m	(26-20) bp: C: PP? - pi2: C: TU.
14d 12h 53m	(50-60) bp: A: AP; B: PM TO - bps: A: MG; C: MT KY - pi2+pc4: C: FR.
14d 13h 28m	(27-30) bp: B: HB TF.
14d 21h 52m	(45-55) bp: B: VL EB MC BI; C: HR.
15d 00h 26m	(12-28) b: C: AE - bs: B: AQ; C: PE - bp: A: MB MC; B: MA EB HR - bps: A: BA; B: ES HA LG TL BI LU; C: TC - (ssc: A: SO).
15d 03h 47m	(41-50) b: C: HU - pi2: B: BI - pc4: B: AC? TW.
15d 22h 22m	(08-28) bp: B: CF - pi2: A: UB BA AC; B: KN AQ IK EB PE MB BI LM; C: FR - pc4: B: CI.
23d 20h 16m	(00-36) bp: B: VL BA MC BI; C: EB - pi2: B: KN AQ QU TN LM - pg: A: KS.
23d 21h 03m	(00-06) bp: B: TN; C: KV? - pi2: B: TF TK LU.
24d 18h 35m	(30-40) bp: C: EB - pi2: A: KS; B: AQ; C: HU.
25d 23h 57m	(54-60) bs: B: BI - bp: A: MC HR; B: EB - bps: B: CF; C: TL.
26d 01h 32m	(30-33) bp: B: CF HR - pi2: A: AC; B: BA.
27d 00h 07m	(00-15) bp: A: SJ; B: CF; C: EB - pi2: A: AC TW; B: PE BA LM; C: TU - pc4: A: SI? TE.
27d 00h 46m	(45-47) bp: B: EB SM.
27d 10h 35m	(32-38) bp: B: LE - bps: B: HL.
27d 19h 44m	(43-48) bs: B: SO - bp: B: KN WN PR; C: LZ TF QU.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(JUNE)

28d 10h 45m (44-47) bp: B: AM - pi2: C: MT - pc4: B: HO.
 28d 13h 26m (23-30) bp: B: OD EB TL BI.
 28d 18h 21m (17-25) bp: B: EB; C: BI.
 28d 19h 04m (54-11) b: A: BA LM; B: SW SU - bs: B: SO - bp: B: KV HR; C: WN QU.
 28d 19h 26m (23-30) bp: B: OD EB TL BI.
 29d 17h 08m (08) b: B: OD - bp: C: TF.
 30d 00h 00m (58-05) bs: B: SO - bp: B: VL; C: EB - bps: C: TL - pi2: A: BA; B: MB - (sfe: MG).
 30d 00h 19m (16-20) bp: B: MC HR - bps: B: BA.
 30d 22h 36m (25-40) bp: B: ES VL MA CF EB; C: BI - bps: B: BA - pi2: B: MB LM.

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01d 04h 09m (07-12) bp: B: BA - pc4: A: LM - pi2+pc4: B: TW.
 01d 07h 37m (35-42) bp: A: MG AP - (si: A: ME).
 01d 09h 32m (24-41) b: A: MG SF - bp: A: AP.
 01d 17h 27m (10-41) b: B: MG IR SW? IK PE HD; C: MC - bs: B: HL - bp: B: MO KV?
 SU QU LM - (si: B: LG).
 02d 01h 39m (30-40) b: B: ES AE - bp: B: EB SM MC; C: PE HR - bps: A: LG; B: BA;
 C: TL.
 03d 00h 39m (37-41) bp: B: VL - pi2: A: CI; B: MB TW - pc4: B: LM.
 03d 19h 10m (08-12) bp: A: NU; B: OD; C: KN KV? PR QU BA? - bps: B: TR SO KS -
 pi2: B: TK IK; C: LM.
 03d 20h 46m (45-48) bps: B: SM - pi2: B: AC; C: PP.
 04d 04h 30m (30) bp: C: HU - pi2: B: MB.
 04d 16h 57m (55-60) b: B: HL - (si: C: MB).
 04d 18h 52m (47-54) b: B: HL - bs: A: NU - bp: B: KV?; C: KN LM - bps: B: SO MA -
 pi2: A: TK IK LM AC; B: WI CF EB PE HO BI PP; C: MT KA KY-pc4:
 B: TE.
 04d 23h 23m (12-30) b: B: SW - bp: A: BA; B: VL KV? MA CF TF EB CI PE MC BI
 TN; C: SU - pi2: A: LG IK; B: KN AQ MB.
 05d 01h 48m (45-51) b: A: MC - bp: B: TF.
 05d 02h 09m (07-10) b: B: HD - bp: B: SW - (si: HL).
 05d 07h 59m (58-60) b: A: SJ - bp: VI HU - bps: A: AG TE TW; B: PP - (ssc: B: ME -
 si: B: OD).
 05d 12h 40m (38-45) bs: A: UB - bp: A: IR AP; B: TO - bps: A: AM; B: VI PM PP-pi2:
 C: MT KA KY.
 05d 21h 47m (42-52) b: A: NU; B: HL SW IK - bp: B: WN VL BE HB OD TF.
 06d 14h 31m (30-33) b: B: SW - bp: B: BE OD.
 06d 19h 48m (47-50) b: A: MC; C: MB.
 06d 22h 11m (10-15) b: B: MB - bp: B: VL HA MA CF SM MC BI LM HR; C: EB.
 07d 00h 47m (36-53) b: A: BI; B: SW; C: BA - bp: B: BE - (si: B: LG).
 07d 01h 50m (49-52) bp: B: HU - pi2: B: AC - pi2+pc4: B: TW.
 07d 02h 15m (14-15) bp: B: CF - bps: A: TE - pi2: C: TU.
 08d 04h 08m (07-09) bp: B: SM TW - pi2: C: LM.
 09d 19h 53m (48-57) bp: B: SO - pi2: A: BA; B: CF OD TF TK EB LM.
 11d 00h 17m (00-23) bp: B: LZ KV? MA - bps: B: BI - pi2: A: BA LM AC; B: EB MB;
 C: TA - pc4: B: TE; C: TW.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(JULY)

11d 00h 37m	(34-40) b: A: SF - bp: A: HR; B: WI HA DB CF LG IK EB CI TL TC MC LM; C: AE - bps: A: BA?; B: LE - pi2: B: AQ - (ssc: B: KS - si: A: SO).
11d 12h 52m	(52) bs: A: SO - (si: A: OD).
11d 13h 48m	(48) bs: A: SO - pc4: C: PP?
11d 20h 16m	(11-19) bp: B: EB BI LM; C: WN HR - bps: A: SO PR.
12d 02h 50m	(50) b: B: HU - pc4: B: PP?
12d 07h 07m	(06-08) bp: C: MG - (sfe: BA?).
12d 08h 14m	(10-20) bp: C: PP - pc4: A: TE - (si: BE).
12d 17h 34m	(30-42) b: B: IR BE - bp: B: VL OD TF - (ssc: C: VI).
12d 20h 47m	(44-49) bp: B: BI - pi2: A: BA; B: EB PE; C: LM.
12d 21h 11m	(10-12) bp: B: CF; C: MC.
13d 01h 03m	(57-12) bp: B: EB AC TW; C: BA MC HR.
13d 19h 37m	(21-43) b: B: SW - bp: A: NU; B: ES BE HA MA DB PR CF OD AQ TK IK CI TC LM; C: KN HB EB PE - bps: A: SO AC; B: DO LE WN VL FU UB LG TL - pi2: A: NI TF BA; B: WI HO BI - pc4+pc5: C: PP.
13d 22h 35m	(22-50) bp: B: VL BE MA OD BI; C: WN MC - pi2: B: PE LM.
14d 08h 35m	(28-42) b: C: MG - bp: B: AP; C: PP.
14d 21h 06m	(05-08) bp: B: SO CF BA MC BI; C: EB LU - pi2: B: MA AQ IK PE; C: LM.
15d 20h 06m	(57-09) bp: B: ES VL MA CF EB TA MC; C: PE - bps: A: AC; B: DO LG AE MB BA BI HR; C: TL - pi2: B: LM - (ssc: B: TC).
16d 03h 23m	(20-25) bp: C: HU - bps: B: AG - pi2: A: TE AC; C: TU.
16d 03h 47m	(45-51) b: B: HR - bp: B: SM; C: BI.
18d 09h 08m	(05-13) bp: A: TW; C: PP? - pi2: C: TU - pc4: A: TE; C: HO - (ssc: C: ME).
19d 00h 50m	(46-53) bp: B: ES VL CF AQ CI SM HU; C: EB MC - pi2: A: LG HO LM AC; B: MA IK PE MB BI; C: TU LU PP TW.
19d 23h 36m	(36-37) bp: C: BI - pi2: C: LM.
20d 00h 10m	(08-10) bp: B: CF SM; C: EB BA MC - pi2: A: AC.
20d 20h 41m	(37-45) bp: C: EB - pi2: B: BI LU.
21d 01h 14m	(12-16) bp: C: MC - pi2: B: EB BI; C: KN LM.
22d 02h 42m	(40-43) bp: B: HU TW - bps: A: AC - pi2: B: BI PP; C: TU LM - pc5: A: TE.
22d 18h 31m	(30-33) bp: B: ME - pi2: B: UB FR; C: HU.
24d 18h 38m	(34-43) b: B: HL SW - bs: A: NU KS - bp: A: MO LM; B: WI HA DB CF SU AQ IK EB AK HD MC; C: LU - bps: A: DO WN IR MA PR TF; B: LE VL BE FU HB LG TK TL? PE AE QU BI GN; C: TC - pi2: A: LM AC - (ssc: A: SO - si: A: KN UB; B: TN; C: HR - sfe: MG).
25d 06h 31m	(29-32) bp: C: PP? - pi2: A: AC; B: TW.
25d 18h 14m	(12-16) bp: B: WN PR IK; C: KV? HB EB - pi2: A: BA; B: CF MT KA KY LM - (ssc: B: SO).
26d 02h 19m	(16-22) bp: A: BA - pi2: C: TW.
27d 23h 40m	(32-50) bp: B: VL OD BI; C: SU TA HR - pi2: A: LM AC; B: KN AQ IK EB MB - pc4: A: CI.
28d 00h 02m	(00-04) bp: B: FU CF MC; C: EB - pi2: A: AC; B: PE - pc4: A: CI - (si: A: OD).
28d 17h 57m	(48-69) b: C: AE - bp: A: KN; B: MG MO; C: TF - (si: B: QU).
29d 15h 26m	(24-30) bp: B: OD - pi2: A: UB; C: MG MT KA KY.
30d 02h 00m	(56-02) b: B: PE - bs: A: KS; B: VL - bp: A: SU IK TA; B: MA-CF bps: A: HR AC; B: WN HB LG TL AE MC BI LU - (si: A: BA?; B: TC; C: LM).

TABLE 2a BAYS AND PULSATIONS 1967 - continued

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20d 20h 52m	(51-54) b: B: OD; C: BI.
04d 16h 14m	(11-24) b: B: ES - pi2: B: MG; C: MT KA KY.
05d 00h 04m	(00-06) bp: B: BI - pi2: B: EB MB LM.
05d 00h 25m	(25-27) b: A: KS - bp: A: LE; B: CI; C: PE.
05d 00h 43m	(43-44) bs: A: BA - bp: B: MC.
06d 04h 58m	(50-61) bp: B: ME - pi2: A: LM; B: BI HU TW; C: TU - pc4: A: TE AC; C: FR.
06d 09h 00m	(44-06) bp: B: MG - pi2: B: UB HO BI LM TW; C: MT KA TU KY PP - pc4: B: SI AC - (si: HL).
06d 19h 07m	(05-10) bp: B: SO KV? - pi2: A: UB TK; B: NI OD SU AQ TF IK LM; C: EB BI - pg: B: KN.
06d 23h 46m	(33-56) bp: B: CF - pi2: A: LM; B: WI MA OD AQ IK EB PE MB BI TN AC; C: TF.
07d 00h 48m	(45-50) bp: B: SM MC - (sfe: MG).
07d 01h 03m	(02-04) bs: B: KS - (si: HL).
07d 07h 40m	(38-45) bp: C: VI EB HU - bps: B: AG PP - pi2: B: HO BI; C: TU-pc4: A: TE AC - pi2+pc4: A: TW - (si: C: ME).
07d 19h 56m	(56-57) bs: B: SO - pi2: B: BI - (ssc: B: TR).
07d 23h 04m	(00-08) bp: A: SO OD; B: KV? MA CF TL TC MC BI; C: EB PE LM - bps: B: HL - (si: A: KS).
08d 01h 35m	(25-47) bp: A: AC; C: TW - pi2: B: PE BI; C: EB.
08d 06h 45m	(44-45) bps: C: PP - pi2: B: HO - (ssc: C: TF).
08d 17h 20m	(17-26) bp: B: KN HB IK - pi2: C: BI - (sfe: MG).
08d 22h 36m	(32-38) bp: A: PE MC; B: ES PR CF OD LG IK SM TC LU HR; C: LM-bps: A: SO MA BI; B: DO VL FU TL; C: WN EB - pi2: A: NI HO MB AC TW; B: WI CI GU; C: TU KA KY - pg: B: KN AQ - (si: A: NU LE BA?; B: BE AE TN; C: KS).
09d 00h 25m	(24-27) b: B: HL - pg: B: BI.
09d 14h 46m	(45-48) b: B: OD - (si: B: MB).
09d 16h 18m	(10-20) b: A: PR; B: PE; C: WN - bp: B: HL KV? MA OD; C: TL - (ssc: C: TF - si: A: BA?; B: TC HD; C: MT KA KY QU).
10d 04h 05m	(05) bp: C: EB - pi2: C: TU PP.
10d 04h 58m	(49-60) bp: A: SJ TW; B: MC - bps: B: MB - pi2: C: HU.
10d 11h 00m	(00-01) b: A: CO; C: ME - bp: A: MG UB - pi2: C: MT.
10d 14h 55m	(54-56) bps: C: GN - pi2: B: BI; C: MT KA KY.
10d 19h 42m	(31-50) b: B: OD PE HD - bp: B: BI - (ssc: C: SU - si: B: LG; C: ME).
10d 21h 23m	(10-33) b: B: IR - bs: A: NU; C: PE - bp: B: KN VL KV? CF OD TK IK AK; C: LZ WN TF - bps: A: MA - pi2: A: NI LM; B: ES WI AQ EB BI; C: HU - (ssc: A: SO; B: TR).
11d 11h 59m	(58-60) bp: C: HR - pc4: C: FR - (si: A: OD).
11d 19h 06m	(00-13) b: B: IR PE - bs: A: NU - bp: B: NI VL KV? EB AK QU HD; C: HR - bps: A: WN PR; B: MO BE HB IK TL - pi2: C: LM - (ssc: A: SO).
11d 23h 12m	(11-13) bp: B: HR - (si: FU).
12d 02h 08m	(06-10) bp: B: SM - pi2: C: LM.
12d 20h 10m	(09-12) bp: C: MC - pi2: B: ES MA AQ IK EB PE.
12d 20h 28m	(28) bp: B: CF - pi2: B: WI.
12d 20h 58m	(55-70) bs: B: SO - bp: B: IK EB MC; C: PE-bps: B: LG BI - pi2: B: ME WI AQ.
13d 15h 22m	(18-27) b: B: SW - bp: B: KN BE KV? OD PM - bps: B: TO - pi2: B: MT

TABLE 2a BAYS AND PULSATIONS 1967 - continued

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TK KA KY - (sfe: MG).

13d 23h 32m	(18-46) bp: B: VL MA CF SM TC MC; C: ES EB TL BI HR - pi2: B: MB; C: LM.
14d 04h 19m	(19-20) b: C: HU - pi2: B: TW.
14d 04h 39m	(39-40) bp: A: TE; C: PP.
14d 06h 57m	(55-60) bp: A: AP; B: MG.
14d 09h 44m	(40-48) bp: A: TE; B: AP; C: PP.
14d 10h 00m	(00) b: B: UB; C: MG.
14d 20h 16m	(10-25) b: B: TN; C: SU - bp: A: TF; B: HL WN VL PR HB OD IK AK; C: EB PE QU HR - pi2: B: AQ LM - (ssc: B: TR).
14d 23h 28m	(08-43) b: A: SF - bp: B: VL TL TC MC HR; C: EB LU - bps: B: LG CI MB - pi2: A: TW; B: OD AQ IK PE BI LM.
15d 03h 04m	(00-06) bp: A: TW; C: HU - bps: A: AC; B: MB.
15d 22h 34m	(30-38) bp: B: BI - pi2: B: KN.
15d 23h 07m	(57-12) b: A: CI SF; B: SW TN? - bs: A: SO BA - bp: A: OD IK; B: BE KV? FU LG AQ EB TL PE MC LM; C: WN HA TF HR.
16d 22h 17m	(10-25) bp: B: BI; C: EB HR - pi2: B: LM - pc4: B: SI? - (ssc: A: SO-si: B: LG LU).
17d 11h 01m	(00-03) b: B: IR - bp: C: LZ - pi2: B: TW.
17d 23h 47m	(40-56) b: B: ES - bp: B: MA CF EB BI; C: LZ - pi2: B: AQ.
18d 00h 11m	(11-12) bp: B: SM - pc4: B: SI? - (sfe: MG).
18d 06h 38m	(36-40) b: B: HU; C: PP - bp: A: TE - pi2: C: TW.
18d 11h 50m	(50-51) bp: B: AP TO.
18d 19h 30m	(28-33) b: B: IR - (si: B: TR).
19d 05h 17m	(16-18) bp: A: TE TW.
19d 20h 00m	(00-02) bp: C: LZ - bps: A: SO - pi2: A: BA; C: LM.
20d 10h 38m	(38-39) bp: B: MG - bps: A: AP.
22d 05h 48m	(45-50) bp: C: ME HU - pi2: B: SI TU PP; C: BI.
22d 11h 32m	(30-35) b: A: SO; C: MB.
23d 02h 52m	(44-60) bp: B: VL CI SM; C: EB MC BI - pi2: A: BA LM; B: AQ TW; C: HU - pc4: A: AC.
23d 09h 56m	(50-63) bp: C: ME - pc4: A: TE; B: HO PP.
23d 10h 19m	(18-20) bp: B: UB - pi2: C: LM.
23d 18h 34m	(30-36) bp: B: SO; C: KN - pi2: A: BA; B: TF TK BI LM.
24d 00h 07m	(05-08) bp: C: EB MC BI.
24d 10h 44m	(36-49) bp: B: AP TO - pi2: B: AC TW; C: HU.
24d 20h 08m	(08) b: B: HL - (ssc: C: TF).
25d 15h 17m	(16-18) bp: B: TO; C: BI.
25d 16h 08m	(07-09) bp: B: KN IR.
25d 23h 14m	(00-19) b: A: TN; B: SW - bs: A: SF KS; B: HL DB - bp: A: SU TA; B: KV? TK SM QU HD - bps: A: NU KN WN HA MA PR HB OD LG TF IK CI TL PE TC MB BA MC BI LU LM HR; B: DO LE WI NI BE FU CF OD AQ EB AE - pi2: A: AC; B: GU - (ssc: B: SO VL; C: ES).
26d 19h 12m	(06-22) b: B: IR SW? - bs: A: KS - bp: A: OD; B: KN WN KV? MA PR CF SU IK AK HD MC TN; C: LZ EB BI - bps: B: FU BA - pi2: B: LM - (ssc: B: SO).
26d 22h 00m	(55-04) b: C: TN - bp: B: MC BI - pi2: A: BA; C: LM.
27d 22h 01m	(00-04) bs: A: SO - bp: A: CI TL; B: BE KV? SU TF IK EB PE AK TN; C:

TABLE 2a BAYS AND PULSATIONS 1967 - continued

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LZ KN WN - bps: A: MA OD; B: DO LE VL FU CF HB LG AQ BA MC
 BI LU LM; C: HR - pi2: A: NI HO AC; C: HU - pi2+pc4: C: TW - (ssc: C:
 TW - (ssc: C: ES - si: B: TR WI).

28d 16h 33m (23-36) bp: B: SO OD - bp: A: TK TW; B: MG KN TF IK QU LM GN; C:
 MT KA KY).

28d 23h 00m (58-08) bp: B: SO VL MA; C: MC - pi2: A: BA LM; B: CF OD AQ EB PE
 - pc5: A: BI - pi2+pc4: A: TW; B: IK - (si: B: TR).

29d 00h 13m (05-18) b: B: PE TN - bs: A: SF - bp: A: OD MC; B: SO LE ES BE KV?
 MA CF HB SU IK EB CI SM TA; C: WN HA TL TC - bps: A: MB BA; B:
 LG AE BI LU HR - pi2: C: LM.

29d 02h 29m (27-32) bp: C: BI - pi2: C: LM.

29d 07h 17m (15-20) bp: C: ME - pi2: C: TU BI - pc4: B: TE; C: PP.

29d 21h 25m (20-30) bp: B: MC - pi2: B: ME AQ PE; C: EB.

30d 19h 02m (00-05) bp: B: WN KV? PR OD; C: EB BI.

30d 21h 25m (25) bp: C: WN - (si: A: SO).

31d 02h 21m (19-23) bp: B: SM; C: EB - pi2: C: BI.

31d 22h 08m (56-14) bp: B: VL OD EB; C: LE - pi2: B: BI LM.

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01d 06h 23m (18-30) b: C: MG - bp: B: AP; C: VI - (si: A: TE).

01d 13h 16m (08-20) bp: A: MG AP; B: IR - bps: A: UB; B: MO - pi2: B: MT KA KY GU
 BI TO.

01d 21h 51m (50-53) bp: B: VL MA CF - bps: C: WN - pi2: C: LM.

01d 23h 26m (00-42) b: A: SF TC; B: ES HL NI PE AE TA; C: HR - bp: B: CF EB TL
 MC BI - bps: B: HB - pi2: C: LM.

02d 02h 44m (43-45) bp: B: EB - pi2: B: TW; C: BI LM.

02d 06h 34m (34-35) bp: A: AP; C: VI - bps: B: PP.

02d 09h 35m (33-36) bp: A: AP TO; B: MT KA KY PM - bps: B: AM.

02d 11h 25m (21-30) b: B: IR - bp: B: MT KA; C: LZ KY.

02d 16h 15m (12-16) b: A: LM; B: SW PM - bp: B: MG KN IR OD; C: WN MT KA KY
 - bps: B: MO.

03d 10h 31m (28-36) b: C: PP - bp: A: AP; B: MG PM.

03d 21h 53m (44-72) b: B: SW; C: KN - bp: B: WN VL HB OD SU AQ IK SM LU; C: EB
 TL - pi2: C: BI LM - pc4: B: SI.

04d 01h 29m (28-30) bp: C: EB - pi2: A: AC TW; B: MB; C: BI - pc4: B: LM.

04d 04h 06m (05-07) bp: B: VL EB CI; C: WN - bps: A: AC; B: HU TW - pi2: B: MB - pc4:
 A: TE - (ssc: B: TF).

04d 07h 06m (05-07) bp: A: AP - pi2: C: TU - pc4: A: TE.

04d 17h 36m (36) bp: C: KN - (ssc: C: TF).

06d 00h 44m (40-45) bp: B: VL SM; C: EB - pi2: B: NI AQ IK MB LU LM - pc4: B: CI.

06d 02h 01m (00-04) bp: B: VL CI SM; C: EB - pi2: A: TW; B: ES NI OD MB BI; C: HU
 - pc4: A: LM AC.

06d 03h 38m (35-40) bp: C: EB - pi2: A: AC TW; B: NI MB BI.

07d 07h 20m (18-22) b: B: MG IR OD AK TW - (ssc: C: TF - sfe: BI?).

07d 15h 05m (00-10) bp: B: MG TO - pi2: B: SI.

08d 12h 47m (42-56) bp: A: MG; B: IR TO - bps: A: UB.

08d 18h 16m (10-20) bp: B: KV? OD - pi2: A: LM AC.

08d 18h 36m (35-38) bp: B: WN PR; C: EB - pi2: B: BI.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

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08d 19h 22m	(19-30) bp: B: WN PR MC; C: EB.
09d 00h 08m	(06-15) b: C: MB HR - bp: B: ES SM MC BI; C: EB.
09d 02h 37m	(20-45) b: C: MB HR - bp: A: CI TC; B: ES KV? EB SM MC BI TW; C: TL - pc4: B: LM AC.
09d 20h 03m	(54-23) b: A: SF - bp: A: IK; B: KN ES HL WN IR VL MA DB PR FU CF UB OD AQ EB CI BI LM HR; C: SU QU - bps: C: TL - pi2: A: TK; B: WI NI - (ssc: B: TR SO).
10d 14h 14m	(12-17) b: A: AK - (si: A: KS).
13d 00h 26m	(17-32) bp: B: BI; C: KV? - pi2: B: OD AQ IK LU LM; C: EB - (ssc: C: TK QU - si: C: MC).
13d 10h 00m	(00) bp: B: KV? - bps: B: MO.
13d 22h 27m	(26-28) bp: B: BI - pi2: C: LM.
14d 06h 11m	(09-15) bp: A: TE; B: HU - pi2: A: SI AC TW; B: TU PP - (si: B: ME).
14d 15h 14m	(10-18) bp: B: IR; C: KV? - pi2: C: LM.
14d 20h 03m	(00-06) bp: B: EB; C: LZ TL - pi2: C: LM.
14d 20h 30m	(20-45) b: A: SF; C: MB - bp: A: MC HR; B: ES LG BI LU.
15d 05h 42m	(39-48) bp: A: MG - pi2: C: HU - pc4: A: TE.
15d 19h 10m	(01-20) b: B: SW - bp: B: TK - (ssc: B: TR).
15d 19h 41m	(38-47) bp: B: KN MA UB TF AK; C: LZ WN HB PE LM - pi2: A: NI AC; B: AQ IK EB BI LU - (ssc: B: SO).
15d 20h 30m	(25-37) b: A: SF; B: HL AE - bp: A: NU CI; B: WN WI HA KV? DB PR CF IK EB PE SM MC BI LU; C: TL - bps: A: OD; B: DO LE ES VL FU HB LG AQ - pi2: A: AC; C: MB - (si: B: TR).
15d 23h 49m	(48-50) bp: B: EB PE MC BI.
16d 02h 17m	(12-24) bp: B: SM MC - bps: B: TC BI; C: MC - (sfe: MG).
16d 11h 49m	(48-54) bp: B: MG AP; C: TO - (ssc: A: PB).
16d 16h 04m	(00-06) b: B: SW - bp: B: IR OD TK - bps: B: MG UB.
17d 07h 51m	(51-52) bp: C: ME - pi2: B: PP.
17d 16h 21m	(18-25) b: C: HR - bp: B: OD - pi2: B: MG - (ssc: C: TF).
18d 18h 59m	(44-77) bp: A: MC; B: WN MA PR CF EB PE BI; C: TL - pi2: A: LM - (ssc: SO).
19d 00h 42m	(40-44) b: C: HR - bp: B: BI - pi2: C: LM.
19d 01h 04m	(58-12) b: A: SJ - bp: A: PR HU; B: WN FR MC LM; C: EB - bps: B: TW pi2: C: TU.
19d 05h 23m	(19-27) bp: A: AC; B: TW.
19d 12h 37m	(34-40) bp: B: PM GN; C: TO - bps: B: AM - pi2: A: MG SI HO; B: PP; C: LM - (ssc: A: PB).
19d 13h 08m	(06-10) bs: A: UB - bp: B: PM; C: KV? - bps: A: IR - pi2: B: HO; C: BI.
20d 11h 10m	(10) bp: B: MT KA KY.
20d 23h 53m	(53) bp: B: MA CF; C: KV?
21d 02h 28m	(25-33) bp: B: CF - pi2: C: TW - (si: A: TE).
21d 14h 09m	(05-12) bs: A: KS - bps: A: MO - (si: A: KN).
21d 16h 19m	(07-26) bs: A: MO KS - bp: A: EB - bps: A: WN PR HB TL; B: VL BI - (ssc: A: TC - si: A: KN OD LG BI; B: LR CF).
21d 19h 13m	(10-16) b: A: HD MC - bp: A: PR; B: WN KV? QU - bps: A: MO.
21d 22h 05m	(03-07) bs: A: KS; B: EB - bp: A: MC; B: CF QU; C: KV? TL - bps: B: WN VL MA PR - (ssc: HL - si: A: LE OD; B: LG).
22d 03h 44m	(37-54) b: B: HU PP AC - pi2: B: LM.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

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22d 17h 13m	(06-18) bp: B: KN OD GN; C: KV? UB - bps: B: MG - pi2: B: TK; C: TF LM.
22d 18h 20m	(20) b: B: KN OD.
24d 15h 44m	(42-45) bp: C: MT KA KY - pi2+pc4: C: FR.
24d 16h 09m	(00-20) b: A: PR; B: WN IR SW NI IK HD - bp: A: KN OD; B: SO MG MO HB TK.
24d 20h 26m	(22-30) bp: B: BI; C: LZ - pi2: B: LM.
24d 20h 52m	(50-53) bp: B: VL HA MA CF AQ IK EB PE MC; C: LU - bps: C: LG - pi2: B: WI.
24d 23h 48m	(47-50) b: A: HR; B: IK CI; C: MB - bp: B: ES MA EB TA MC; C: WN TL LM - bps: B: OD BA.
25d 01h 05m	(00-10) bp: B: SM; C: EB MC - pi2: A: TW.
25d 19h 23m	(22-24) bp: B: OD; C: WN KV?
25d 22h 25m	(22-33) b: B: SO KN SW AE HR - bs: A: SF KS; B: HL BE HB PE-bp:A: SU IK TA; B: WN WI MA PR FU CF AQ EB AK SM - bps: A: DO LE OD CI BA MC BI LM; B: ES VL HA DB LG TL TC MB LU; C: TF - pi2: B: AC.
26d 07h 45m	(40-50) bp: C: PP - pi2: B: BI AC; C: TU - pc4: A: TE; B: TW.
26d 19h 27m	(23-34) b: B: SW - bp: A: KN TF TK; B: LE VL BE SU AK LM GN; C: LZ WN EB QU - bps: A: UB; B: MO HL - pi2: A: AC; B: MG WI NI LG AQ IK PE BI LU TN TW; C: MT KA KY - (ssc: B: TR SO).
26d 20h 09m	(06-11) b: A: SF; B: TN - bs: A: KS - bp: B: KN WN WI HA KV? MA PR FU CF PE TA; C: TL QU - bps: A: OD BA LM; B: DO VL LG AQ IK EB MC BI LU - pi2: B: NI TK.
27d 16h 29m	(28-30) bp: B: OD; C: KN - pi2: C: LM.
28d 19h 54m	(54) bp: B: KV? - bps: B: MO.
28d 20h 16m	(15-20) bp: B: CF - pi2: B: WI TW - (si: B: LE).
28d 23h 54m	(52-57) bps: B: LU; C: AE.
29d 00h 01m	(00-04) b: B: HR - bp: A: TA MC; B: MA EB - bps: A: BI; B: CF LG LM - pi2: A: AC TW - (ssc: A: KS - si: A: OD).
29d 07h 14m	(13-16) bs: B: IR - bp: B: PM - bps: B: HO - (si: C: AP).
29d 17h 15m	(15) bp: C: KV? - bps: B: MO.
30d 11h 40m	(40) bp: B: MT KA KY.
30d 15h 50m	(47-60) b: A: WN PR; B: IR - bp: A: SU; B: VL KV? IK TL; C: QU-bps: A: MO; C: TF - pi2: C: LM.
30d 23h 16m	(10-24) b: B: SO SW MB; C: AE - bp: A: SU; B: ES KV? MA CF HB AQ TF EB CI MC BI LU - bps: B: VL LG TL - pi2: A: TW; B: NI; C: TA - pc4: B: AC.

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01d 02h 00m	(55-05) bps: B: TE; C: HU.
01d 08h 55m	(49-62) bp: A: AP; B: PM - pi2: C: LM.
01d 19h 05m	(03-10) bp: B: SO OD; C: KV? HB EB - bps: B: SU.
02d 01h 53m	(46-57) bp: B: VL CI SM; C: EB MC - pi2: A: MB BI TW; C: HU - pc4: B: LM.
02d 18h 05m	(00-10) bp: B: LZ - bps: A: IR.
02d 19h 12m	(00-26) b: A: NU SU SF BA; B: SW HD - bs: A: KS; B: BE - bp: A: PR OD TK IK MC; B: KN MO ES WN WI HA DB FU HB TF EB CI TL AK QU TC BI LM - bps: B: LG.
02d 19h 32m	(29-39) B: B: HL PE AE - bp: A: NU; B: SM LU - (si: A: SO).

TABLE 2a BAYS AND PULSATIONS 1967 - continued

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03d 12h 07m	(07-08) bp: C: PP - pi2: B: SI.
03d 12h 56m	(50-60) bp: B: PM AM - pi2: A: AC TW; B: HO BI LM GN; C: MT KA KY HU - pc4: B: MB.
03d 19h 19m	(18-20) b: B: MB - bps: C: SU.
03d 19h 33m	(31-34) bp: B: SO - pi2: A: TK LM AC; B: QU BI.
03d 20h 16m	(07-20) b: A: NU PR; B: SW HR - bp: A: OD; B: LE ES WN VL BE MA FU; C: EB - pi2: B: BI - (si: A: SO).
04d 21h 41m	(36-44) bp: A: SO NU; B: ES WN VL BE KV? PR CF OD EB BI; C: HB QU - bps: B: SU - pi2: A: MA BI LM AC; B: WI LG AQ TF TK IK PE HU TW; C: PP - pg: B: KN - pc4: B: TE.
05d 03h 41m	(39-45) bp: B: CI MC BI; C: EB MB HU - bps: A: AC - pi2: B: LM; C: TW - pc4: A: TE.
05d 08h 03m	(01-05) b: B: OD - bp: C: PP.
05d 12h 00m	(00-01) b: A: SO; B: TR.
06d 00h 26m	(18-40) bp: B: SM MC - pi2: A: LM; B: OD EB MB BI LU - pc4: B: CI AC.
06d 03h 23m	(10-36) bp: A: TE - pi2: A: LM AC TW; B: TU; C: HU.
06d 11h 16m	(12-20) bp: C: ME - pi2: A: MG; B: BI; C: MT TU - pc4: A: TE AM; B: HO MB AC - pi2+pc4: B: PP? TW.
06d 12h 25m	(22-33) bs: A: LM - pi2: A: BI GN; B: QU; C: KN MT KA KY - pc4: B: MB AC.
06d 23h 25m	(17-31) b: C: MB - bp: B: MC BI; C: EB - pi2: A: LM; B: NI MA OD AQ IK TW; C: PP - pc4: B: CI - pi2+pc4: A: AC.
06d 23h 52m	(51-55) bp: B: CF - pi2: B: PE LU - pc4: B: CI.
07d 08h 53m	(50-55) bp: B: AC - bps: C: VI PP - pi2: B: BI; C: TU - (ssc: B: ME).
07d 13h 40m	(40-41) bps: B: MB - (ssc: C: TL).
07d 20h 26m	(20-30) bs: A: SO - bp: B: MA CF - pi2: A: NI TK HO LM AC; B: AQ EB QU BI - (si: A: NU MO; B: TR KN).
08d 19h 06m	(05-08) bp: C: WN - pi2: A: LM - (ssc: B: SO).
08d 19h 20m	(20) bp: B: IR KV?
08d 21h 09m	(08-10) bp: B: BI - pi2: B: LM.
09d 01h 50m	(47-54) bp: B: VL; C: EB - pi2: B: MB LM AC; C: BI.
09d 20h 12m	(06-16) bp: A: PR IK TL AE MC; B: WN HA DB EB BI LM - bps: B: VL CF LG.
09d 20h 31m	(28-35) bp: A: TC MC; B: TA MB.
09d 22h 44m	(39-50) b: A: HR; B: MB - bp: B: CF BI; C: EB - (ssc: B: GU).
09d 23h 08m	(03-12) bp: B: CF EB - bps: A: MO.
10d 14h 03m	(00-04)bs: B: WN - bp: B: IR - bps: B: VL - pc4: A: TE - (ssc: TL-si: B: CF).
10d 20h 39m	(39-40) bp: B: CF MB MC - bps: B: BI.
11d 01h 01m	(00-02) b: A: SJ - bps: C: TC.
11d 14h 34m	(20-53) b: A: NU PM; B: SW PE; C: DB - bs: A: WN IR - bp; A: KN PR OD MT TK KA KY; B: NI BE KV? HB TF TL QU TO; C: LZ - bps: A: MO; B: HL VL SU.
12d 01h 03m	(58-17) b: A: HR; B: SW; C: DB - bs: A: SF BA? - bp: A: PR OD SM TA AC; B: WN HA MA CF HB IK EB PE TW - bps: A: CI MB MC; B: LE ES VL TL AE BI - pi2: A: TW; C: HU.
12d 08h 30m	(21-36) bp: A: OD; B: MG KN TF.
12d 16h 08m	(00-12) b: B: SW - bp: A: OD; B: KN BI PM TO; C: MT TF KA KY - pi2: B: LM.
12d 23h 40m	(20-65) b: A: NU; B: HR - bs: A: KS; B: HL - bp: A: LM TW; B: WI KV?

TABLE 2a BAYS AND PULSATIONS 1967 - continued

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CF OD TF QU HD MB BI; C: EB - bps: A: MC; B: LE ES WN VL BE FU
LG TL; C: TC - pi2: B: TW - (ssc: A: SO).

13d 00h 55m	(25)	bp: C: MT KA KY.
13d 16h 33m	(25-40)	bp: B: OD - pi2: B: BI - pc4: C: PP.
13d 20h 39m	(38-40)	bp: C: BI - pi2: B: MA.
13d 22h 16m	(16)	bp: B: CF OD BI.
13d 22h 35m	(35-36)	b: B: MB - bp: B: MC.
14d 06h 51m	(50-52)	bps: C: VI - pi2: C: TU.
14d 16h 54m	(51-60)	b: B: HL SW - bp: A: OD; B: WN MA SU IK EB; C: KV? - pi2: A: AC; C: MT.
14d 20h 16m	(01-24)	b: A: SF; B: SW; C: KN HR - bs: A: KS - bp: A: MO PR CI LM; B: ES WI NI MA DB CF SU AQ EB PE AK QU TC LU - bps: A: OD IK; B: LE HN WN IR VL HA FU HB LG TL; C: AE - pi2: C: AC - (ssc: A: SO).
15d 00h 47m	(40-55)	b: B: SW HR - bp: B: LE ES VL HA MA CF OD EB SM MC LM; C: WN - bps: B: TL MB BI.
16d 17h 56m	(53-61)	bp: B: SO; C: MC.
16d 19h 30m	(27-33)	b: A: NU - pc4: A: TE.
16d 20h 08m	(05-20)	bs: A: SO - bp: B: VL KV? FU CF OD TC MC; C: WN EB - bps: C: HL TL - pi2: A: BI; B: AQ QU; C: TF TK - (si: A: KS; B: TR LG).
16d 21h 32m	(25-35)	bp: B: MA CF OD AQ IK EB MC; C: WN PE - bps: A: SO; B: LG.
17d 02h 59m	(59)	bp: C: EB - pi2: A: AC.
17d 06h 09m	(07-11)	bp: C: VI - pi2: C: PP.
17d 12h 02m	(01-03)	bp: C: MA - (ssc: C: DB - si: C: AE).
17d 20h 56m	(54-62)	bp: B: MA MC; B: KV? BI - bps: B: OD.
17d 22h 07m	(02-18)	bs: A: SO; B: ES - bp: A: MO; B: WN VL HA CF IK EB TL TC MC BI - bps: A: OD LG; B: FU - pi2: C: TA.
18d 09h 10m	(08-12)	b: B: IR - bp: B: MG.
18d 11h 15m	(12-18)	bp: B: MG IR.
18d 21h 40m	(36-45)	b: B: NU - bp: B: NI BE MA PR - bps: B: SO DO BI - pi2: B: LG AQ EB LU.
18d 22h 07m	(00-20)	b: A: SF; B: HL MB BA - bs: A: SO - bp: A: AC; B: LE WN WI VL HA DB CF OD AQ TF IK EB CI PE TC MC; C: QU LM - bps: B: FU LG TL.
19d 03h 56m	(52-60)	bp: C: MC - pi2: B: BI.
19d 14h 42m	(40-45)	bp: B: MG - pi2: C: LM.
19d 20h 20m	(20)	bp: A: NU; B: WN OD; C: KV? - bps: A: SO.
20d 20h 31m	(23-35)	b: B: ES BA HR; C: MB - bs: B: SO - bp: B: MA CF OD LG EB CI SM MC BI; C: IK - bps: B: TC; C: TL.
22d 18h 06m	(05-07)	bp: B: SO - pi2: A: TK; B: AQ BI LU PP.
23d 01h 30m	(24-40)	b: A: SF; B: SW - bp: A: ES PR IK PE MB MC; B: SO LE WN VL HA MA DB FU CF HB OD LG AQ EB CI SM BI LU HR; C: TL TC - bps: C: AE - pi2: A: NI LM AC; C: TA - pc4: C: TW.
23d 11h 47m	(40-62)	b: B: GU - bp: B: PM; C: MT KA KY AP - bps: A: MG.
23d 18h 53m	(45-58)	b: B: SW - bp: B: OD - pi2: B: BI; C: TK.
24d 22h 44m	(42-45)	bp: B: CF; C: EB - bps: A: TR - pi2: B: WI AQ BI.
25d 00h 40m	(38-44)	bp: B: BI; C: EB MC - pi2: B: PE.
25d 17h 18m	(18-19)	bp: B: SO - pi2: C: TK.
25d 20h 34m	(33-35)	bps: B: SO - pi2: B: BI.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(OCTOBER)

26d 17h 23m	(20-26) bp: B: SO; C: KN - pi2: A: TK GN AC; B: AQ QU BI PP LM; C: MT KA KY - pc4: B: MG.
27d 16h 16m	(09-25) b: B: IK - bp: A: OD; B: MG IR TK - bps: B: SU.
28d 00h 30m	(28-31) bp: B: MA - pi2: B: AQ EB PE AC.
28d 09h 37m	(30-42) bp: C: HO - bps: B: TE - (ssc: B: PP?; C: TF - si: BE).
28d 20h 46m	(42-50) b: A: LM; B: ES - bs: A: NU - bp: A: KV?; B: KN HA MA CF EB - bps: A: MO NI PR; B: WN VL BE TL - (ssc: C: TF - si: A: TE; C: KS).
30d 07h 25m	(20-30) bp: B: MG - pc4: C: PP.
30d 16h 11m	(10-12) bp: B: KN IR MA? OD IK; C: KV?
31d 14h 01m	(00-01) bp: A: SJ; B: OD - pi2: B: FR - (ssc: B: BA - si: B: TN - sfe: HL BI?).
31d 20h 22m	(15-25) b: A: GU; B: NU HL PE - bs: A: OD - bp: B: CF MB - bps: B: BI - (si: A: TE; B: WI MC).

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01d 17h 54m	(50-56) b: B: MB - bp: B: OD BI - pi2: B: TK LM - pc4: C: TW.
01d 19h 51m	(51) bp: B: OD; C: KV?
02d 19h 27m	(24-30) b: B: AE - bps: B: LG.
02d 19h 53m	(46-59) b: A: TA; B: TE - bs: A: BA - bp: A: OD SU AQ IK EB TP TC MB MC LU LM HR; B: MO WN WI NI VL HA MA DB PR CF EB TL QU BI - bps: B: FU - (si: B: LE ES).
02d 20h 18m	(10-22) b: A: CI - bs: B: HL - bp: B: HB SM - pi2: A: LM.
02d 20h 42m	(42) bp: B: IR KV.
03d 17h 41m	(30-48) b: A: EB; B: AE - bs: A: MO WN VL PR HB; B: TL - bp: A: MB MC; B: KV? CF - bps: B: DB BI - (ssc: C: VI - si: B: PM PP).
03d 20h 21m	(20-24) bp: B: IR KV? DB CF EB TP BI; C: QU - bps: A: PR; B: WN NI VL MA HB TL MC - (si: A: OD; C: KN).
04d 01h 10m	(10-11) bp: A: OD - pi2: C: BI.
04d 12h 51m	(48-55) bp: C: TF - pi2: C: BI.
04d 09h 13m	(13) bp: B: AP - pi2: C: PP.
05d 06h 01m	(53-06) bp: A: TE; B: TW - pi2: B: PP; C: TU.
05d 18h 32m	(27-36) bp: B: CF - pi2: B: MA IK EB BI - pc5: B: MG - (ssc: B: SO - si: C: LG).
05d 19h 14m	(00-30) b: A: MB LM; B: HL SW LG HR - bs: A: NU HB AE; B: ES - bp: A: KN SU IK CI AK MC LU; B: MO WI NI HA CF AQ TK EB PE SM TP TA BI - bps: A: WN MA PR OD TL TC; B: LE VL BE FU TF.
06d 08h 09m	(08-10) bp: C: PP - pi2: A: SI; C: TU - pc4: B: BI.
08d 00h 19m	(18-20) bp: B: IK; C: TF.
08d 01h 18m	(00-30) b: B: SW - bs: A: FR KS; B: HL - bp: A: OD MC; B: KN ES BE CF AQ CI PE SM AE MB; C: LZ HA - bps: A: TL TC; B: LE VL AG LG TL - pi2: A: TW; B: NI; C: TA - (ssc: B: SO).
08d 15h 36m	(33-40) bps: B: IR - pi2: C: BI.
08d 18h 45m	(45) b: B: SW HR.
08d 20h 59m	(56-60) bp: B: CF - bps: B: BI - (si: B: LE).
09d 12h 48m	(48) bp: C: MT KA KY.
09d 17h 58m	(56-60) b: B: MG IR - bp: B: BI; C: KV? TL TP - (ssc: B: SO).
11d 19h 35m	(30-40) bp: B: LZ - pg: B: ME.
11d 19h 56m	(53-59) b: B: SW - (ssc: B: SO).

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(NOVEMBER)

11d 20h 46m	(39-55) bs: A: NU KS; B: HL - bp: A: IR EB MC LU; B: KV? CI SM; C: LM HR? - bps: A: ES WN NI VL HA MA DB PR HB SU LG AQ IK TL AE; B: MO WI BE FU CF PE TA BI; C: TF - (ssc: A: SO - si: OD SF; B: TR LE).
12d 05h 28m	(24-38) b: B: MG FR - bp: A: AG - bp: A: TE; C: VI - pi2: C: TU PP - pc4: B: BI AC.
12d 05h 48m	(47-50) bp: B: PP - pi2: A: AC.
12d 16h 06m	(00-10) bs: C: WN - bp: B: BI - (ssc: B: TA).
12d 18h 54m	(50-65) bs: A: TC - bp: B: MA PR CF EB TL - bps: B: WN VL - (ssc: A: SO).
12d 19h 29m	(21-40) b: A: LM HR - bs: B: BA - bp: A: MC; B: CF AQ IK EB TL SM AE MB - bps: B: BI - (si: B: LE).
12d 20h 00m	(00) bp: B: MO; C: KV?
13d 11h 23m	(20-26) b: B: IR - pc4: B: BI.
13d 17h 28m	(26-30) bp: B: IR TF; C: KV? - (si: C: PP).
13d 18h 19m	(11-24) bp: B: TF; C: KV? BI - bps: B: IR.
13d 21h 59m	(53-70) b: B: LU; C: AE - bs: A: BA - bp: A: OD IK TA MB MC LM HR; B: ES BE MA CF HB AQ TF EB TL PE SM TP BI; C: LZ TC - bps: B: HL - pi2: B: NI - (ssc: B: SO).
14d 05h 39m	(37-42) bp: A: TE; C: VI.
14d 06h 04m	(59-09) bs: A: LM - (si: B: ES).
14d 16h 33m	(30-48) b: B: SW - bp: B: SO WN VL BE MA PR CF OD SU AQ IK EB; C: HB TF TL QU.
15d 16h 54m	(50-59) b: B: SW LM - bp: C: TL - pi2: A: AC; C: MT.
15d 22h 40m	(33-47) b: B: SW HR - bp: A: NU MC LM; B: HA MA PR CF AQ IK EB BI; C: PE - bps: B: DO LE WN VL OD LG TL - (ssc: B: SO; C: TF KS).
15d 23h 02m	(00-04) bp: C: EB AE - bps: A: MB; B: ES CI TC.
16d 03h 30m	(30) b: C: HU - bps: B: AG - pc4: C: PP.
16d 15h 52m	(50-54) bs: B: KN - bp: B: IR; C: IK - bps: C: QU - pi2: B: TK.
18d 17h 03m	(58-08) bp: C: KN - pi2: B: AQ BI.
19d 00h 04m	(00-14) bp: B: CF; C: MA EB - pi2: B: AQ PE BI.
19d 16h 12m	(00-22) bp: B: KN OD - pi2: B: TK BI LM; C: EB - pc4: B: QU AC; C: PP.
20d 00h 50m	(45-53) bp: B: CF - pi2: A: BA; B: MA AQ IK EB PE MB BI.
21d 21h 08m	(00-15) bp: B: LZ LE ES WI NI VL MA CF OD TF IK CI TL; C: HA - bps: B: FU LG BI - pi2: A: BA LM; B: AQ EB LU AC TW.
21d 21h 55m	(45-59) b: B: SW - bp: A: LU; B: AQ EB TC - bps: A: MC - ssc: A: BA; B: GU; C: LM - si: A: CO).
22d 06h 53m	(51-55) bp: A: TE - pi2: C: HU.
23d 13h 25m	(21-30) bp: B: IR - pi2: B: BI - pc4: A: TE.
23d 17h 55m	(54-56) bp: B: SO - pi2: C: TK.
23d 22h 52m	(51-55) bp: C: EB - pi2: B: AQ BI.
23d 23h 11m	(06-15) b: B: SW - bp: B: CF - pi2: B: PE.
24d 01h 01m	(58-07) bp: B: CF; C: HU - pi2: A: AC; B: PE BI; C: TW.
24d 05h 24m	(22-27) bp: A: TE; B: HU.
25d 00h 10m	(10) bp: B: HU TW.
26d 00h 11m	(09-13) b: A: BA; B: LG.
26d 00h 35m	(30-37) b: A: SF; B: KN SW SU PE MB - bp: A: OD AC; B: ES MA CF HB AQ IK EB CI SM TC MC BI LU; C: WN - bps: B: FU; C: TL - pi2: B: TW.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(NOVEMBER)

26d 13h 43m	(34-48) b: A: IK; B: KN IR - bp: A: OD; B: MT KA KY PM TO - bps: A: AM; B: AP.
27d 20h 12m	(12) b: B: OD; C: KV?
28d 17h 20m	(03-38) b: A: AQ; B: SW NI PE HR - bs: B: HL EB - bp: A: OD; B: WI VL HA FU CF IK CI TA MC LM; C: KV? HB - bps: B: WN PR TL BI - (ssc: SO; C: BA? - si: A: KS; B: MA TN; C: ES).
28d 23h 09m	(00-14) b: B: NI HR; C: MB - bp: A: AQ MC; B: IK PE BI LM; C: TF EB.
28d 23h 34m	(26-40) b: A: SF KS; B: SW - bs: B: HL - bp: A: ES OD TP; B: LE WI BW HA MA CF EB CI TP; C: WN - bps: B: VL FU; C: TL - (si: B: TN).
29d 08h 52m	(45-54) b: B: FR - bs: A: AG - bp: A: TE - pi2: B: BI.
30d 18h 32m	(27-37) b: B: SW - bp: A: ES - pi2: A: LM; C: TF.
30d 19h 31m	(27-40) b: A: SF; B: HL HR - bp: A: SU AQ EB AK HD LM; B: LE WI HA MA DB CF LG CI PE - bps: A: MO NU WN IR PR HB IK; B: VL BE FU AE TP QU; C: TF TL - pi2: B: BI - (ssc: A: SO; B: TR).
30d 20h 00m	(00) b: A: MG - bp: B: KV?
30d 22h 49m	(47-52) bp: B: MA CF BI - pi2: A: AC.

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01d 10h 30m	(24-37) b: A: IR - bs: A: KS; B: PM - bp: A: AP; B: TP; C: MT KA KY - bps: C: PP - (ssc: C: HB?).
01d 10h 57m	(50-66) b: A: TE - bs: A: SF - bp: C: BI - (ssc: C: TC - si: A: OD).
01d 18h 23m	(21-31) b: A: IR - bp: B: MA CF; C: KV? EB - pi2: B: AQ IK - (ssc: B: LE - si: A: OD).
01d 22h 55m	(50-60) bp: B: KV? CF - bps: A: MO.
02d 00h 55m	(50-60) b: B: HU - bp: B: SM - pc5: B: SI?
02d 14h 46m	(45-48) bs: C: KN - bp: B: TK - bps: B: IR GN.
02d 18h 51m	(51) bp: C: KV? - pi2: C: TK LM.
02d 22h 18m	(15-21) bp: B: QU; C: EB.
03d 07h 56m	(55-56) bp: C: VI - bps: C: PP - pi2: A: HO; C: BI HU.
03d 13h 51m	(45-53) b: A: MG; B: PM - bp: B: OD; C: MT KA KY.
03d 22h 04m	(02-05) bp: A: MA CF - pi2: B: IK BI; C: KN LM - (ssc: B: TR SO).
03d 22h 23m	(17-26) b: A: TF SF; B: SW IK; C: HD - bs: A: KS - bp: A: KN OD; B: ES HB EB TL AK SM; C: WN.
04d 21h 21m	(10-27) bp: B: MA; C: LZ - pi2: A: OD; B: KN NI IK EB BI LM.
04d 22h 09m	(58-12) b: C: AE HR - bp: B: VL HA MA CF LG AQ PE MC; C: EB TL TC - bps: A: SO.
04d 22h 35m	(34-35) bp: B: AQ PE - pi2: B: NI.
05d 16h 49m	(48-50) b: C: IK - (ssc: C: TF).
05d 17h 29m	(29) b: B: SW - bp: B: IR OD.
05d 20h 21m	(18-24) b: B: WI SW - (ssc: B: SO).
05d 20h 51m	(43-60) b: A: MG VL EB SF; B: PE HR; C: AE - bs: A: WN PR KS; B: IK - bp: B: LE ES HA KV? MA TP HD LM; C: TF - bps: A: OD; B: HL BE HB TL.
06d 12h 37m	(35-40) bs: B: VL - (ssc: C: TC).
06d 16h 56m	(45-63) bp: A: PR; B: WN VL KV? EB - bps: B: MO.
06d 21h 13m	(10-18) bp: B: CF; C: WN - (si: B: TE).
06d 22h 40m	(40-41) b: A: HD - bp: B: VL EB.
07d 15h 05m	(51-20) b: B: SW HD - bp: A: IR - bps: B: MO HL - (si: A: OD; B: KS).

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(DECEMBER)

07d 18h 31m	(30-33) b: B: HD - bp: C: TL.
08d 16h 37m	(30-50) b: A: NU WN PR SF HD; B: ES SW NI - bs: B: B: HL - bp: A: OD; B: VL CI TL LM; C: KV? TF - bps: A: MO.
08d 19h 35m	(21-58) b: A: ES SF TC SJ TN HR; B: MG SW HD; C: TF - bs: A: NU KN PE MB BA?; B: HL AC - bp: A: IR SU AQ EB AK MC BI LU LM; B: WI MA CI SM PM; C: KV? - bps: A: MO WN NI HA PR HB IK TL AE TP TA; B: VL BE DB CF LG QU - (ssc: A: SO - si: A: OD KS).
09d 16h 50m	(48-51) b: B: SW - bp: A: OD; B: KN ES IK.
09d 17h 04m	(03-06) bp: C: TF TL.
10d 23h 45m	(45-46) bp: A: AC TW; B: LE VL MA CF EB; C: TL MB BI - pc4:B:LM.
11d 00h 06m	(00-10) b: A: SJ; C: ME HU - bp: B: TC.
12d 20h 34m	(31-36) bs: B: SO; C: QU - bp: B: OD - pi2: B: TK; C: LM.
12d 23h 39m	(39-40) b: A: SO - pi2: C: LM.
13d 18h 11m	(10-12) bp: B: OD; C: MG KV?
14d 00h 19m	(18-20) bp: B: VL - pi2: B: AQ.
14d 14h 34m	(34) bp: C: MT KA KY.
14d 15h 04m	(45-21) b: A: SO; B: SW IK - bp: A: OD; B: KN IR; C: HB TF QU - pc4: B: PP LM AC.
14d 21h 02m	(00-04) bp: B: SO VL MA CF - pi2: B: NI AQ BI LM; C: EB HU.
15d 01h 14m	(13-16) bp: B: WN VL PR PE - pc4: B: BI.
16d 21h 38m	(38-39) b: B: SW - bp: B: OD.
17d 22h 58m	(54-60) bp: B: VL CF - pi2: B: KN ES NI AQ IK EB QU BI - (ssc: B: SO).
18d 18h 24m	(24) bp: A: IR; C: KV?
19d 19h 04m	(01-08) b: A: HD; B: HR - bp: B: WN KV? MA PR - bps: A: MO IR IK; C: QU - (ssc: A: SO; C: AK - si: A: OD).
19d 19h 26m	(20-34) b: B: AE - bp: A: MC; B: BI.
20d 11h 33m	(33-34) bs: B: IR - pc4: B: LM.
20d 18h 04m	(00-10) b: B: AE - bp: B: CF TL; C: KV? - bps: A: MO - (ssc: A: SO - si: A: OD; B: LG).
20d 18h 28m	(28) bp: B: TL AE.
20d 18h 42m	(40-44) bp: B: CF - bps: A: MO.
21d 15h 48m	(42-55) b: B: SW - bp: A: KV?; B: NI PR - bps: A: MO - pi2: B: BI.
21d 16h 16m	(10-20) b: B: HL - bs: A: WN - bp: B: KV? MA CF TL - bps: B: DB HB - (si: B: OD).
22d 22h 24m	(24-25) bp: B: MA CF.
22d 22h 38m	(38) b: C: HR - bp: B: SM.
23d 01h 13m	(12-14) bs: A: SJ; B: HU - pi2: A: AC.
23d 16h 32m	(26-38) b: C: HD MB - bs: B: PE - bp: B: IR MA LM GN; C: HB TF QU - (si: A: OD).
23d 18h 26m	(18-47) b: A: NU SF TN; B: HL SW TA HD HR?; C: MB - bs: A: HB KS; B: BE IK - bp: A: WN PE MC LU LM; B: LE ES WI VL HA MA CF SU AQ TF TK EB CI SM AE BI - bps: A: MO PR OD LG BA; B: NI DB TL TP QU - pc5:A: SI?
23d 23h 52m	(50-54) b: B: LG - bp: B: CI - pc4: B: AC - (si: B: VL).
24d 18h 15m	(15) bp: A: SO; C: TL.
24d 18h 33m	(30-40) b: B: WN - bp: A: OD; B: VL QU; C: HB TP.
26d 01h 05m	(00-08) bp: A: AC; B: LE VL CF EB CI SM; C: WN TC MC - pi2: B: LM - pc4: C: MB - pi2+pc4: C: TW.

TABLE 2a BAYS AND PULSATIONS 1967 - continued

(DECEMBER)

27d 00h 11m	(00-19) b: A; SO; B: SW IK AK - bs: B: KS BA - bp: A: OD; B: LE WN VL MA PR CF HB LG AQ TF EB CI TL PE QU TC MC BI; C: KN KV ? bps: A: HL - pi2: A: AC; B: LM.
27d 07h 54m	(52-57) bs: B: AG - bp: A: TE.
27d 13h 57m	(50-72) b: B: MG SW - bp: B: LE KN IR MT KA KY PM.
27d 23h 29m	(22-32) bp: B: SO MA EB - pi2: B: KN NI OD AQ IK PE BI LU.
28d 18h 56m	(53-60) b: B: MG SW - bp: B: KN AK; C: WN KV? MT KA KY QU - bps: B: GN - pc4: B: SI? - (ssc: B: TR SO).
28d 23h 30m	(30-31) bp: C: BI - pi2: B: EB; C: LM.
29d 00h 02m	(00-03) bs: B: KS - bp: B: MA CF OD; C: BI - bps: B: VL - pi2: B: TW.
29d 00h 29m	(24-31) b: B: BA? - bp: B: EB SM MC BI; C: WN - bps: A: CI; B: LG - pi2: A: AC.
31d 09h 05m	(00-10) bps: A: AP AM.
31d 12h 19m	(19-20) bps: A: MO - (si: A: OD).
31d 13h 59m	(58-61) bps: A: MO - (si: A: KN).
31d 16h 23m	(16-40) b: A: SF; B: AE - bs: B: KN - bp: A: IR EB HD MC; B: MA CF BI - bps: A: MO; B: QU - (si: A: OD).
31d 18h 10m	(00-27) b: B: AE - bp: A: EB HD MC; B: KV? CF BI - bps: A: MO; B: QU - (si: A: OD; B: ES).
31d 21h 54m	(52-56) bp: B: CF BI - pi2: C: LM.

TABLE 2b BAYS AND PULSATIONS 1967

Commencements of pulsational disturbances (pi2) not associated with bays.
(See remarks at the head of Table 2a)

JANUARY

01d 03h 44m (42-47) b: HU TW - (pc4: B: LM - pc5: A: TE).
 03d 09h 48m (42-50) A: AM; B: HO LM; C: TU - (ssc: A: CO; C: VI - pc4:A: TE).
 03d 17h 58m (54-63) B: QU; C: TF.
 04d 10h 17m (16-18) A: CO; C: PP.
 04d 22h 16m (15-17) B: NI - (ssc: B: SO).
 04d 23h 46m (46) b: NI; C: MB.
 05d 13h 35m (35) B: GU TO.
 05d 20h 26m (20-30) B: KN TF LM; C: OD - (pc5: A: QU).
 05d 20h 46m (45-48) B: AQ - (pc4: B: TR).
 08d 06h 10m (05-16) A: TU HO - (si: A: TE; B: GU).
 11d 00h 39m (39-40) B: LM AC.
 13d 06h 02m (00-03) A: AC; B: PP; C: TU.
 16d 04h 26m (26) A: AC; C: PP.
 18d 14h 26m (25-31) B: UB KY TO; C: MT KA.
 18d 17h 53m (48-58) C: PP - (si: C: LM).
 18d 23h 45m (45) B: OD AQ.
 19d 05h 46m (45-46) A: AC; C: TU HU.
 19d 17h 58m (58-60) A: TK LM AC; B: OD; C: MT KA KY.
 20d 08h 53m (48-58) C: LM - (ssc: HL).
 21d 05h 13m (10-16) B: TU PP - (pc5: A: TE).
 22d 07h 11m (10-12) A: CO SI; C: TU PP.
 22d 14h 42m (41-44) A: AC; C: KY.
 23d 15h 42m (41-44) A: LM - (pc4: C: FR).
 23d 17h 52m (48-56) A: UB AC; B: TK QU; C: MT KA KY.
 24d 01h 40m (35-45) b: LM; C: HU - (pc4: C: PP).
 24d 03h 26m (22-30) B: SM; C: HU LM.
 24d 12h 04m (03-05) A: CO AC; B: GN TO; C: MT KA KY HU - (pc4: B: HO).
 25d 14h 17m (17) A: AC; C: MT KA KY.
 26d 00h 05m (03-07) B: PE; C: EB LU - (pc5: B: TR).
 27d 18h 22m (15-26) B: TK QU LM; C: TF - (pc5: A: AC).
 27d 19h 26m (25-27) A: TK AC; B: TR QU.
 27d 21h 06m (03-08) A: TK; B: KN AQ TF PE QU LM; C: LU - (pc4: B: TR).
 28d 01h 45m (42-47) A: LM AC; B: HU PP - (pg: A: TE).
 29d 01h 03m (00-07) A: LM; B: SM.
 29d 02h 59m (59-60) A: AC; B: PP.
 29d 07h 30m (20-38) A: AC; TU HU - (pc5: A: TE - (pc4+pc5: B: PP).
 29d 19h 11m (10-12) B: NI ES - (pg: B: KN).
 30d 05h 12m (10-15) A: SI TU TE AC; C: FR HU - (pc4+pc5: B: PP).
 30d 17h 35m (34-36) A: QU; B: TK.
 31d 07h 34m (33-36) B: PP - (pc5: B: TE).
 31d 19h 16m (10-20) A: KN AC; B: AQ EB QU LM; C: TA LU - (pg: B: LG - pc4+pc5: PP).

TABLE 2b BAYS AND PULSATIONS 1967 - continued

FEBRUARY

01d 14h 08m (08-10) A: AC; C: MT KA KY.
 01d 23h 09m (06-11) A: LG BA; B: ES OD AQ EB BI LU; C: LM - (pc5: B: TR).
 02d 07h 27m (25-28) A: CO; B: TU PP.
 02d 13h 25m (21-27) A: TK AC AM; B: MT TF KA KY QU HO GU BI; C: LU PP-(pc4: B: GN).
 03d 14h 02m (02) A: AC; B: BI.
 03d 21h 54m (50-58) A: AC - (pc4+pc5: B: PP).
 04d 12h 54m (50-55) B: HO; C: MT.
 05d 01h 13m (13) A: AC - pc4: B: LM).
 05d 20h 15m (12-17) B: OD TF BI.
 05d 21h 02m (00-05) B: BA BI.
 11d 18h 23m (13-34) B: TF LM TW - (pc4: A: AC).
 12d 06h 40m (37-44) A: CO - (pc4: B: TE).
 12d 13h 49m (48-50) A: AC; B: TO; C: MT KA KY - (sfe: MG).
 12d 16h 47m (45-49) B: LM - (pc4: B: FR).
 12d 19h 12m (00-24) B: OD SU TK QU TW; C: HU - (pc4: B: CO - pc4+pi2: B: AC).
 12d 20h 12m (11-14) B: TF TK EB - (pc4: A: TW).
 12d 22h 43m (38-47) A: BA; B: TF PE.
 13d 04h 50m (43-57) A: AC; B: BA LM - (pc5: A: TE).
 13d 16h 16m (15-17) B: TK; C: LM.
 14d 05h 15m (14-16) B: AC; B: PP LM.
 14d 14h 45m (40-50) B: QU - (pc4: B: CO).
 14d 19h 35m (32-40) B: QU BA; C: TF.
 15d 16h 49m (48-51) B: TF TL QU LM; C: MT.
 17d 13h 18m (17-19) B: MT KA KY.
 18d 03h 15m (10-20) A: AC TW.
 18d 17h 22m (20-25) C: FR HU - (pc4: C: PP).
 19d 17h 10m (08-16) B: MT KA KY AC - (si: C: PP).
 21d 09h 21m (20-23) B: SI - (pc4: C: PP).
 21d 09h 51m (50-55) A: AC; B: HO HU; C: LM.
 23d 08h 36m (30-40) A: TE; C: TU - (ssc: B: BA; C: TK - pc5: C: ES).
 24d 06h 33m (32-35) A: TE; C: TU - (pc4+pc5: C: PP).
 24d 18h 04m (03-05) B: TF; C: MT.
 27d 13h 04m (58-15) A: AC TW; C: MT KA KY - (pc4: C: FT).
 28d 02h 11m (10-12) A: AC; B: EB LM.
 28d 02h 39m (37-40) B: SM MB - (pc4: B: CI).
 28d 04h 02m (02) A: AC TW.
 28d 22h 58m (58-59) A: BA AC.

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01d 01h 55m (55) B: AC - (pc4: B: TE).
 02d 02h 30m (30) C: BI HU.
 02d 04h 37m (35-38) A: LM AC; B: HU PP; C: TU HO - (pc4: A: TE).
 02d 20h 15m (15-16) B: QU; C: BA.

TABLE 2b BAYS AND PULSATIONS 1967 - continued

(MARCH)

02d 20h 55m (53-56) A: AC; B: BA BI; C: TK.
 03d 04h 12m (10-13) A: AC; C: TU HU.
 03d 22h 24m (22-26) B: PE BA.
 04d 02h 00m (00) B: MG - (pc4: B: PP).
 04d 03h 02m (00-03) A: AC TW; B: GU; C: TU MB HU.
 04d 14h 41m (37-42) A: MG GN; B: UB TK GU BI TO; C: MT KA KY.
 05d 14h 32m (29-36) A: AC; B: MG GU - (ssc: C: TF).
 06d 19h 23m (13-32) A: TK BA LM AC; B: NI MA CF AQ EB PE QU QU BI TW C:
 LU - (ssc: B: SO).
 07d 22h 44m (37-50) A: AC; B: KN PE BI; C: LM - (pc4: B: TR).
 08d 23h 02m (00-05) A: KS; B: MA EB PE BA LM; C: MB - (pc4: B: TR).
 09d 05h 46m (44-48) A: AC; B: PP; C: TU - (pc5: A: TE).
 11d 21h 44m (40-46) B: KN OD BA; C: BI.
 11d 22h 14m (10-19) B: PE - (pc4: B: TR).
 13d 04h 16m (15-17) A: AC - (pc4: B: PP).
 13d 05h 37m (36-38) A: AC - (pc4: A: TE).
 13d 22h 10m (06-13) A: BA; B: AQ TF.
 14d 03h 25m (25) C: BI LM.
 14d 09h 00m (00) A: AC; B: PP; C: TU.
 15d 21h 12m (10-15) A: BA; B: OD; C: BI LM - (pc4: B: TR).
 16d 09h 01m (00-03) B: BI; C: TU PP LM.
 16d 12h 33m (32-34) A: AC; C: MT KA KY.
 17d 20h 24m (20-30) B: OD TK; C: MG TF LM - (pc4: A: AC).
 18d 14h 34m (34-35) C: MT KY.
 19d 07h 25m (24-27) A: AC; B: SI; C: TU - (pc4: A: TE).
 22d 04h 33m (30-34) A: AC; B: LM; C: TU - (pc4: A: TE - pi2+pc4: B: TW).
 22d 21h 25m (24-26) B: OD BA.
 23d 19h 55m (54-56) A: AC; B: OD LM - (ssc: B: SO - pg: B: KN).
 24d 15h 15m (08-20) B: TU PP; C: BI - (si: C: KN EB).
 25d 04h 35m (30-40) A: AC; C: TU GU HU - (pc4: A: TE; B: PP).
 26d 16h 44m (39-46) A: TK AC; B: MG MA MT TF KA KY LM; C: EB BI.
 27d 03h 58m (58) A: AC; B: LM.
 28d 04h 27m (25-30) A: LM; C: TU HU - (pc4: A: TE; C: PP - pc4+pi2: A: AC).
 28d 20h 31m (22-40) B: KN OD; C: BA.
 28d 21h 59m (58-60) B: PE BA.
 29d 03h 01m (00-03) A: AC; B: BA TW; C: HU - (pc4: A: TE; B: CI PP).
 29d 07h 59m (55-62) A: UB; B: LM - (pc4: B: NI).
 29d 09h 45m (35-48) A: HO; C: TU HU LM - (pc4: A: AC - pi2+pc4: C: TW - sfc: OD).
 30d 13h 38m (37-39) C: MT - (pc4: C: FR).

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01d 00h 17m (16-19) B: PE; C: LM.
 03d 00h 37m (32-40) B: EB PE BA; C: MB BI LM - (si: A: TE - pc4: B: CI).
 03d 21h 03m (02-04) B: OD TF.
 03d 21h 17m (16-18) B: KN BI; C: LM.

TABLE 2b BAYS AND PULSATIONS 1967 - continued

(APRIL)

05d 20h 47m (46-49) A: BA; B: ES OD IK; C: EB.
 05d 21h 04m (03-05) B: BI; C: TF.
 06d 01h 53m (51-55) A: AC - (pc4: B: LM).
 06d 02h 25m (25) B: TW; C: MB.
 06d 03h 10m (10) C: TU MB.
 06d 20h 02m (00-05) C: BA - (pg: B: SM).
 07d 04h 58m (52-61) C: TU PP - (pc4: B: TW).
 07d 16h 39m (35-41) B: TF TK TW; C: MT KA KY BI - (pc4: A: AC).
 08d 01h 18m (16-21) A: AC; B: BI.
 08d 18h 21m (02-22) C: TK LM
 09d 08h 55m (54-58) A: AC; B: PP; C: TU BI LM - (pc4: A: SI - pc5: A: TE).
 10d 18h 46m (45-47) A: AC; B: MG TK EB TN LM; C: MT.
 12d 10h 55m (55) B: SI; C: HU.
 12d 20h 29m (27-30) A: BA; B: OD TF BI.
 12d 21h 20m (18-24) A: KN; B: HA EB PE.
 13d 00h 21m (20-22) A: AC; B: BA; C: TU MB.
 13d 12h 34m (25-37) A: CO AC; B: PP TO; C: MT MB BI - (pc4: B: SI).
 13d 19h 06m (00-13) A: UB TK BA AC; B: NI OD SU AQ IK BI LU PP TN LM; C: TF
 EB HU - (pg: B: KN).
 13d 20h 32m (27-41) A: BA; B: NI AQ TF IK BI LU HU TN LM - (pg: B: KN).
 13d 22h 44m (42-47) B: TF LU.
 14d 12h 55m (55-56) A: AC; C: BI PP.
 14d 23h 17m (15-18) A: BA AC; B: KN MA EB PE BI; C: LM.
 15d 14h 39m (36-42) A: MG GU; B: TK SM BI PP; C: TF - (pc5: B: AC).
 15d 19h 44m (36-48) A: KT HO BI LM AC; B: EB BA TN; C: TF - (pg: A: KN).
 17d 02h 33m (20-46) A: AC; B: CF TW; C: LM.
 18d 18h 17m (12-21) B: TF; C: KN LM - (pc4: A: AC).
 20d 02h 13m (09-15) A: AC TW; C: MB - (pc4: A: TE).
 20d 23h 42m (40-44) B: EB; C: MB.
 22d 12h 03m (00-06) B: MG; C: KY.
 24d 23h 55m (51-60) C: LM - (pc4+pc5: C: PP).
 25d 03h 08m (05-12) B: MG - (pc4: C: LM).
 25d 21h 39m (38-39) B: TF BA; C: LM.
 27d 02h 00m (00) B: AC - (pc4: C: TF).
 27d 19h 18m (12-20) A: KS; B: OD TF BA; C: KN TK.
 28d 03h 10m (09-12) A: AC - (pc4: B: TE).
 28d 19h 03m (00-06) A: BA; B: OD.
 28d 20h 17m (16-18) A: KN KS; B: AQ TK BI; C: EB LM.
 30d 02h 02m (00-04) A: AC; C: LM.
 30d 18h 52m (48-55) A: TK IK HO BA AC; B: OD AQ BI PP TN - (pg: B: KN - pc5: B: ES).

MAY

01d 01h 39m (34-43) A: BA LM; B: EB HU AC - (pc4: B: CI - pc5: B: TE).
 02d 19h 07m (07-08) A: SI; B: PP.

TABLE 2b BAYS AND PULSATIONS 1967 - continued

(MAY)

05d 16h 49m (48-50) B: TK; C: LM.
 06d 18h 54m (54-55) C: TK LM.
 07d 21h 10m (10-11) B: KN OD BA; C: LM.
 08d 08h 07m (05-09) A: CO SI HO; C: LM - (pc4: B: TE).
 09d 01h 04m (01-09) A: BA AC; C: MB LM.
 09d 04h 48m (48-49) A: AC; B: TW - (pc4: B: TE).
 10d 01h 59m (59-60) B: BA AC.
 10d 19h 52m (48-54) A: BA, B: OD AQ.
 10d 20h 15m (10-18) B: TF LM; C: KN.
 11d 03h 21m (20-23) A: AC; C: TU HU LM.
 11d 15h 46m (39-54) A: TF; B: KN TK; C: BA.
 11d 18h 01m (00-04) B: KN TK; C: BA.
 12d 07h 00m (00) A: UB; C: MG.
 12d 17h 28m (25-30) A: KN; B: TK; C: MG BA LM.
 13d 04h 43m (40-46) A: AC; C: TU.
 14d 04h 14m (10-18) B: PP TW.
 16d 08h 40m (40) C: TU PP.
 17d 04h 31m (30-33) A: AC; C: TU TW.
 17d 20h 34m (34) B: BA - (ssc: B: SO).
 19d 17h 33m (30-36) B: KN TF TK; C: LM.
 20d 00h 07m (06-10) A: BA; C: EB - (pc4: C: LM).
 20d 19h 39m (33-49) A: BA; B: KN TF TK IK; C: MT.
 21d 00h 33m (32-34) A: BA; B: EB.
 21d 01h 13m (10-19) B: IK SM - (pc4: B: CI).
 22d 03h 13m (13-14) A: BA; B: MG.
 22d 05h 01m (00-03) B: MG LM.
 22d 20h 25m (20-28) B: OD TK; C: BA.
 22d 21h 02m (01-02) A: BA; B: AQ TF EB.
 23d 05h 30m (21-38) A: LM; B: TW - (pc4: C: PP).
 23d 11h 01m (00-04) B: KY; C: MT KA PP.
 23d 17h 11m (06-16) B: TF BA.
 24d 07h 46m (45-48) A: SI TU; B: PP; C: HU - (pc5: A: TE).
 24d 12h 48m (47-48) B: MG SI; C: MT KA KY.
 24d 19h 45m (40-50) B: BA LM.
 25d 00h 27m (25-29) A: BA; C: EB.
 30d 03h 22m (22-23) A: AC; B: TW.
 03d 03h 57m (57-58) A: AC; B: TW.

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01d 22h 42m (41-43) C: BA BI.
 02d 00h 29m (25-33) B: MB; C: LM.
 02d 18h 19m (15-21) B: KN; C: TF BI LM.
 02d 23h 30m (29-30) A: BA; B: PE; C: MB.
 02d 23h 55m (55-56) C: MB LM.

TABLE 2b BAYS AND PULSATIONS 1967 - continued

(JUNE)

03d 01h 49m (48-50) B: MG LM.
 03d 02h 21m (20-23) B: BA; C: MB.
 04d 00h 29m (20-37) B: IK EB MB LM.
 04d 05h 16m (15-17) B: MG - (pc4: C: LM).
 04d 23h 04m (04-05) A: AC - (pc5: A: TE).
 05d 10h 02m (58-06) B: SI - (pg: B: BI).
 09d 00h 35m (34-35) A: AC; B: TW; C: TU.
 09d 07h 29m (29-30) A: HO; C: TU.
 09d 18h 25m (22-29) B: OD; C: BA.
 09d 19h 51m (50-52) A: BA - (ssc: B: SO).
 10d 05h 34m (30-38) A: UB; B: LM.
 10d 20h 40m (40-41) B: OD BA.
 11d 02h 05m (04-06) A: BA AC; B: EB MB; C: LM.
 11d 02h 22m (20-24) A: TW; B: PE; C: HU.
 11d 03h 21m (20-22) A: BA; B: PE MB HU.
 11d 18h 11m (04-16) A: MA TK BA AC; B: MG ES NI QU.
 12d 11h 54m (53-55) A: CO; B: SI TO.
 12d 12h 16m (15-17) C: MT KA KY - (pc4: B: MB).
 13d 17h 47m (42-52) B: TF BA.
 13d 18h 50m (45-52) A: TK BA; B: MA OD AQ IK EB FR LM AC - (ssc: B: SO-pg:A: KN).
 13d 20h 24m (23-25) A: BA; B: ES MA AQ EB - (ssc: B: SO).
 14d 17h 37m (36-40) A: BA LM; B: MA CF AQ EB AC - (ssc: B: SO - pc4: C: BI).
 15d 11h 40m (40-41) A: BA - (si: C: KN).
 15d 20h 41m (36-43) A: OD; B: EB BA.
 15d 21h 01m (00-02) B: MA IK BI - (si: A: SO).
 16d 08h 09m (07-11) A: TE AC; B: HO TW; C: TU PP - (pc5: A: TE).
 16d 11h 52m (52-53) B: MG; C: MT.
 16d 21h 10m (05-13) A: BA; B: KN MA EB; C: BI LM.
 17d 00h 30m (29-31) A: AC; B: MB BA; C: LM.
 17d 01h 17m (12-18) A: BA; B: IK EB PE SM LM; C: LU - (pc4: B: CI).
 17d 09h 21m (20-22) A: AC; B: PP - (ssc: C: HB - pc4: B: TW).
 17d 14h 57m (56-57) C: MT KA KY.
 18d 03h 08m (04-13) B: UB - (pc4: B: LM).
 18d 17h 33m (30-36) B: KN TK QU.
 18d 21h 13m (03-16) A: BA; B: KN MA OD AQ IK EB QU LM; C: TF.
 19d 11h 47m (46-50) B: MG; C: MT KY HU.
 19d 12h 05m (04-05) B: TO; C: KA PP.
 19d 15h 26m (24-30) B: MG; C: MT KA KY - (si: B: AE; C: MB).
 20d 15h 41m (40-42) A: TF; B: KN.
 20d 16h 51m (50-53) B: AQ TK QU.
 20d 17h 06m (04-08) B: BA; C: LM.
 21d 03h 19m (15-20) B: SM MB; C: HU PP - (pc4+pi2: A: AC).
 21d 04h 33m (33-34) B: MB; C: HU.

TABLE 2b BAYS AND PULSATIONS 1967 - continued

(JUNE)

21d 16h 14m (12-16) B: TK; C: KN MT KA KY.
 22d 03h 16m (13-18) B: BA; C: LM.
 22d 05h 59m (54-67) B: SM; C: TU HU PP - (pc5: A: TE).
 22d 20h 10m (10) B: OD BA.
 23d 02h 32m (25-36) B: SM MB BA PP; C: TU HU - (pc5: A: TE).
 23d 03h 42m (40-44) B: BA - (pc4: B: AC).
 23d 05h 30m (30-31) B: SI LM.
 23d 17h 06m (04-10) A: KN TF; B: TK; C: MT BI - (pc4: C: PP - pc5: B: QU).
 23d 21h 59m (58-60) B: BA; C: BI.
 24d 01h 14m (13-15) B: EB PE MB BI; C: HU LM - (pc4: A: AC).
 24d 05h 37m (35-44) B: MB LM; C: TU HU TW - (pc4: A: AC; B: PP - pc5: A: TE).
 24d 18h 09m (08-11) B: QU BI; C: TF TK.
 24d 22h 29m (20-45) A: KS LM; B: MA AQ TF EB PE MB BI LU TN-(pg:KN-pc5:B:QU).
 25d 18h 15m (15) B: FR - (ssc: B: SO).
 26d 02h 51m (50-53) A: AC; B: TU.
 26d 12h 03m (00-06) B: LM - (pi2+pc4: C: FR).
 27d 23h 58m (56-60) C: MB BA.
 28d 09h 58m (54-60) A: SI; C: TU - (pc4: B: BI).
 29d 06h 01m (59-04) B: TW; C: HU.
 29d 22h 35m (35-36) B: OD BA.
 30d 06h 46m (45-47) A: AC; B: TW; C: TU.

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01d 15h 55m (54-57) B: LM; C: TF.
 03d 00h 05m (04-07) A: BA AC; B: ES IK EB PE MB LM.
 03d 01h 41m (40-42) B: MB BA.
 03d 03h 21m (15-23) A: AC TW; B: ES MB BA; C: TU HU PP.
 03d 21h 19m (15-20) A: CI; B: WI NI CF IK EB PE MB BA AC; C: LM - (si: A: SO).
 04d 04h 04m (56-10) A: BA AC; B: PP LM TW; C: TU - (pc4: A: TE).
 04d 17h 25m (23-38) A: OD BA; B: TF TK.
 04d 19h 17m (16-19) A: BA; B: TK.
 06d 21h 12m (09-14) A: AC; C: LM - (ssc: B: TR SO).
 07d 03h 09m (09-10) A: AC TW.
 07d 18h 07m (04-10) B: TF EB.
 07d 18h 33m (32-35) A: BA; B: LM.
 07d 22h 03m (02-04) B: EB PE BA; C: LM.
 08d 00h 53m (53-54) B: LM; C: BA.
 09d 06h 40m (34-48) B: HO PP TW; C: TU HU - (pc4: B: TE).
 09d 12h 50m (45-55) B: OD TO.
 10d 10h 28m (26-30) A: CO SI.
 10d 11h 30m (29-30) A: OD BA; B: MG PP; C: LM.
 10d 11h 46m (44-48) A: UB; B: AQ IK EB BI HU TO; C: MT KA KY.
 10d 13h 14m (10-17) A: CO MG KY; B: MA MT AQ TK IK EB KA GU BA BI; C: LM.
 10d 20h 51m (51-52) C: FR BA.

TABLE 2b BAYS AND PULSATIONS 1967 - continued

(JULY)

10d 21h 53m	(50-57) A: LG; B: MA CF AQ TK IK EB PE BA LM - (ssc: B: SO PR? - pg: B: KN - pc4: B: TF BI - pc5: B: TE).
11d 05h 47m	(46-48) A: AC TW; B: PP.
13d 05h 10m	(05-15) B: LM - (pc4: B: TW).
14d 03h 29m	(28-31) A: BA AC TW; C: TU PP - (pc4: A: TE; C: LM).
14d 07h 35m	(35-36) B: SI BA; C: PP.
14d 07h 56m	(55-56) A: HO TW; C: TU.
14d 18h 37m	(34-40) B: TF BA.
16d 02h 41m	(40-42) B: TW; C: EB.
16d 19h 02m	(00-04) B: OD; C: KN.
16d 19h 17m	(14-20) B: TF BA.
16d 21h 15m	(12-20) A: NI MA LG IK LM AC; B: ES WI CF AQ TF TK PE QU HO BI HU TN - (pg: A: KN).
16d 22h 14m	(10-18) A: NI MA LG IK BA LM AC; B: WI CF AQ TF EB PE HO BI PP TN; C: HU - (pg: A: KN).
16d 22h 47m	(45-50) A: NI MA LG LM; B: WI CF AQ PE HO BI TN.
17d 00h 31m	(24-39) B: BA TW; C: LM - (pc4: B: TE).
17d 16h 30m	(29-33) B: TK QU; C: KN.
17d 17h 32m	(23-38) B: MA TF LM; C: MG.
17d 20h 59m	(54-66) A: BA; B: MA PE BI LU LM.
18d 05h 09m	(06-11) B: BA LM AC; C: TU HU PP - (pc4: A: TE).
20d 12h 18m	(15-20) B: MG ME HO PP TO; C: MT KA KY HU - (pc4: A: TE).
20d 13h 52m	(50-56) C: MT KA KY BA BI.
20d 20h 17m	(17) A: BA; C: LM.
21d 19h 33m	(30-37) B: SU TF QU BI; C: TK LM.
21d 23h 02m	(00-08) B: AQ PE BI; C: EB LU LM.
22d 00h 24m	(23-25) B: AQ BI.
22d 00h 37m	(36-38) B: PE SM.
22d 20h 35m	(35) B: BA BI.
23d 02h 12m	(11-13) B: SM; C: BA.
23d 03h 36m	(33-40) A: AC; C: BI - (pc4: A: TE).
23d 06h 10m	(09-10) B: PP TW; C: TU - (pc4: A: TE).
23d 20h 10m	(08-12) A: BA; B: BI LM.
24d 00h 11m	(11-12) B: CF EB.
24d 05h 49m	(45-51) A: LM AC; C: TU TW.
25d 00h 02m	(00-04) C: BA - (pc4: C: PP).
25d 00h 53m	(52-54) A: BA; B: BI; C: LM.
25d 05h 44m	(38-46) A: AC; B: TW; C: TU PP - (pc4: A: TE).
25d 21h 01m	(00-02) A: BA - (si: A: SO).
25d 23h 08m	(06-10) A: BA; B: EB; C: LM.
26d 11h 29m	(29) A: CO; B: PP - (pc4: B: SI?).
26d 16h 00m	(00) C: MT KA KY.
27d 20h 06m	(06-07) B: AQ TF TK BI.
28d 04h 43m	(40-48) A: AC; B: PP; C: TU BI HU LM.
29d 16h 07m	(07-08) A: AC; B: AQ TK; C: MT KA KY - (pg: C: KN).

TABLE 2b BAYS AND PULSATIONS 1967 - continued

(JULY)

29d 18h 33m (30-36) B: LM; C: BI - (ssc: A: TR).

29d 19h 59m (58-60) B: BI; C: LM.

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03d 13h 18m (17-20) A: CO; B: MG UB; C: BI PP - (pc5: A: SI; B: HO TO).

03d 16h 40m (40) B: UB - (pg: B: KN).

04d 06h 45m (43-46) A: TE; C: HU - (pc5: B: PP).

05d 05h 37m (30-41) A: AC; B: TW; C: TU HU - (pc4: A: TE; C: FR).

05d 18h 42m (40-45) B: OD TK; C: BI LM.

06d 20h 42m (42) B: TK; C: BI.

07d 00h 27m (25-30) A: MA PE; C: HU.

08d 05h 43m (43) A: AC - (pi2+pc4: B: TW).

09d 03h 07m (07-08) A: AC; B: BI LM TW.

09d 06h 05m (00-18) A: LM; C: TU BI - (pc4: A: AC; B: PP - pc5: A: TE - pi2+pc4: B: TW).

09d 09h 35m (34-36) B: TU BI PP; C: MT KA KY LM - (pc4: A: TE).

09d 10h 35m (35-36) B: BI; C: LM.

09d 22h 06m (04-08) A: MA; B: KN ES NI CF OD AQ TF IK EB PE BI TN - (ssc: B: TR SO - pc4: A: AC; B: LM).

09d 23h 10m (08-13) B: MA AQ IK PE.

10d 00h 12m (12-13) B: EB PE - (pc4: A: AC).

10d 03h 38m (31-42) A: AC TW; B: EB BI; C: LM.

11d 01h 52m (46-56) B: BI LM - (pi2 - pc4: B: TW).

11d 16h 09m (08-10) B: MG MT KA KY GU.

12d 19h 53m (52-55) B: OD BI LM.

13d 20h 12m (08-16) B: OD BI.

15d 02h 46m (44-49) B: TW; C: LM.

16d 10h 53m (53-54) B: AM; C: MT.

16d 16h 49m (48-50) C: TF LM.

16d 19h 05m (02-08) C: BI LM.

17d 01h 13m (10-17) A: AC - (pc4: C: BI).

17d 15h 41m (35-50) C: TF PP - (ssc: C: BI - pc4: B: LM).

20d 03h 30m (26-34) A: TW - (pc4+pi2: A: AC).

20d 16h 11m (06-16) B: LM; C: TF.

21d 00h 50m (48-53) A: BA - (pc4: B: LM - pi2+pc4: B: TW).

21d 12h 10m (00-20) A: AM; B: UB; C: HU - (pc4: B: FR).

21d 16h 49m (46-52) C: BI LM.

21d 23h 15m (13-17) A: BA; B: EB; C: LM.

22d 05h 32m (32) A: TW - (pc4: A: TE).

22d 12h 29m (25-31) B: BI TO - (pc4: C: PP).

22d 22h 32m (30-34) B: BI; C: KN.

24d 07h 20m (19-20) A: AC; C: HU - (pi2+pc4: B: TW).

24d 22h 41m (39-44) A: BA; B: AQ; C: BI LM.

25d 19h 16m (16-17) A: BA; B: LM.

26d 07h 05m (04-06) A: SI BA AC TW; B: TU PP; C: HU - (pc4: A: TE).

TABLE 2b BAYS AND PULSATIONS 1967 - continued

(AUGUST)

26d 17h 40m (38-41) A: BA; B: TK; C: LM.
 27d 02h 27m (24-28) A: AC; B: TW; C: BI HU.
 28d 03h 51m (50-51) A: TW; C: BI LM.
 28d 11h 46m (45-47) A: CO; B: UB.
 29d 01h 04m (00-07) A: BA; B: AQ EB PE LM TW; C: LU HU.
 30d 04h 04m (00-10) A: SJ BA; B: BI AC; C: TU HU - (pc4: A:TE; B: PP LM - pi2 + pc4: B: TW).
 31d 06h 00m (00) B: TW; C: PP - (pc4: A: TE).
 31d 21h 49m (48-50) A: BA; C: EB.

SEPTEMBER

01d 00h 36m (32-42) A: BA; C: LM - (pi2 + pc4: B: TW).
 01d 01h 34m (32-36) A: BA; B: BI.
 03d 01h 52m (51-53) A: BA; B: EB BI - (pc4: B: LM).
 04d 02h 11m (08-16) A: BA; B: EB MB BI.
 04d 02h 49m (49-50) B: MB; C: EB.
 05d 10h 25m (25-26) A: CO; B: BI.
 05d 16h 46m (44-47) A: UB; B: TK : C: LM.
 06d 00h 02m (00-05) A: AC; B: ES BI.
 06d 11h 21m (20-22) B: BI PP.
 06d 16h 39m (39-40) B: OD TK.
 07d 10h 13m (12-14) A: CO - (si: BE).
 07d 14h 53m (52-53) B: MG - C: MT KA KY.
 08d 12h 12m (10-13) B: MG BI - (pc4: PP).
 12d 03h 55m (45-65) B: MG; C: BI - (pc5: B: SI LM).
 12d 05h 55m (55-56) C: TU PP.
 12d 09h 37m (36-38) A: CO; B: BI PP LM.
 12d 10h 11m (10-12) B: BI; C: HU.
 12d 11h 11m (10-13) B: BI; C: HU.
 12d 19h 58m (58-60) B: OD BI LM; C: EB.
 12d 20h 15m (15) B: AQ LU.
 13d 18h 35m (35-36) A: LM; C: BI.
 14d 09h 03m (00-08) B: HO; C: MT KA KY - (pc4: A: AC).
 14d 11h 25m (25-26) C: MT FR KA KY.
 14d 13h 49m (48-50) A: LG; B: BI - (pg: B: KN).
 15d 04h 59m (59-60) A: SI AC TW; B: TU.
 15d 23h 33m (33-34) B: EB - (pc4: C: LM).
 16d 00h 30m (25-33) A: AC TW; C: MB HU.
 17d 02h 47m (41-51) A: LM; B: AC TW; C: MB.
 19d 03h 08m (08) B: MT KA KY.
 20d 05h 46m (45-48) A: MG - (si: A: TE).
 23d 07h 02m (02-03) B: SI PP.
 23d 12h 22m (22) B: KN BI.
 23d 18h 55m (54-56) C: TK LM.
 24d 03h 49m (49) A: AC TW.

TABLE 2b BAYS AND PULSATIONS 1967 - continued

(SEPTEMBER)

24d 08h 43m (40-45) B: BI PP; C: TU LM - (pc4: A: TE; B: AC).
 25d 18h 45m (42-48) A: UB LM; C: TK.
 27d 13h 14m (13-15) B: MG AC; C: MT BI PP - (ssc: B: PB).
 28d 01h 00m (00-01) B: BI LM.
 28d 02h 14m (13-15) B: TW; C: HU - (pc4: A: AC).

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01d 13h 00m (00-03) A: MG; B: GN; C: MT KA KY LM.
 01d 18h 18m (18-19) B: LM; C: BI.
 01d 23h 30m (30) B: ES OD.
 02d 13h 11m (07-13) B: MG GN; C: MT KA KY BI.
 03d 04h 26m (24-29) B: TW; C: BI.
 03d 07h 02m (58-06) A: AC; C: PP.
 04d 18h 42m (40-44) B: QU BI; C: TK LM.
 07d 00h 59m (58-60) A: AC; B: BI PP; C: EB TU HU.
 09d 13h 10m (05-15) B: BI - (si: C: TL - pc4: B: FR?).
 10d 02h 33m (32-36) C: HU TW - (si: A: AG).
 11d 15h 58m (57-59) B: BI; C: LM.
 12d 02h 02m (00-05) A: AC TW; C: TU HU.
 14d 06h 31m (29-33) B: AC - (pi2+pc4: B: TW).
 15d 00h 23m (18-28) A: AC TW; B: MB LM - (sfe: MG).
 16d 16h 16m (00-30) A: BI; B: KN AQ TK SM HU TW; C: ME TF - (pc4: A: SI?LM; B: QU MB PP; C: TU - pc4+pi2: A: AC).
 17d 00h 00m (00) B: BI - (pc4: B: PP).
 18d 02h 28m (28) A: MG - (pc4: A: LM).
 18d 06h 00m (00) B: PP; C: TU.
 19d 14h 26m (24-28) A: GN; B: OD TK BI; C: MT KA KY.
 19d 20h 04m (01-07) C: BI LM.
 20d 13h 21m (20-23) A: AC; C: TW.
 21d 19h 56m (50-62) B: OD AQ BI - (pc5: B: ES).
 23d 09h 50m (50-51) B: BI; C: LM.
 23d 18h 15m (14-16) A: QU; B: LM.
 24d 06h 28m (25-30) C: TU BI - (pc4: A: TE).
 25d 07h 23m (20-30) A: SI; C: ME TU HU.
 25d 09h 31m (29-34) A: HO AC; B: BI PP; C: MT KA KY HU - (pi2+pc4: A: AW).
 25d 15h 41m (39-43) A: TK; B: BI.
 25d 22h 39m (38-40) B: AQ BI.
 26d 02h 17m (15-20) A: AC; B: BI LM - (pc4: B: TE; C: PP - Pi2+pc5: B: TW).
 26d 03h 06m (05-07) A: AC; C: HU.
 26d 03h 50m (50-51) A: AC; C: SI.
 26d 12h 32m (29-35) A: AC; B: BI.
 26d 23h 02m (01-04) A: BI; B: AQ; C: EB LM.
 28d 03h 35m (33-37) B: AC - (ssc: C: QU - si: C: KN - pc4: B: LM - pi2+pc4: B: TW).

TABLE 2b BAYS AND PULSATIONS 1967 - continued

NOVEMBER

02d 16h 23m (20-27) C: LM - (pc4: C: PP).
 04d 00h 53m (51-56) B: AC TW; C: LM.
 04d 22h 21m (21-22) B: CF BI.
 05d 01h 18m (17-20) B: AC; C: LM.
 05d 06h 50m (49-51) B: HO AM.
 05d 14h 39m (37-42) A: MG; B: GN; C: MT TK KA KU.
 06d 12h 02m (00-03) B: LM; C: TF HU - (pc4: B: TE AC?).
 06d 18h 27m (20-30) B: EB PP; C: HU - (pc4: A: AM).
 06d 19h 10m (00-18) B: KN CF; C: ME TK - (pc4: A: SI).
 07d 03h 25m (25-26) A: AC - (pc4: C: PP).
 07d 03h 58m (57-60) A: TW; C: BI HU.
 07d 11h 42m (40-44) C: BI TO.
 07d 15h 22m (19-25) A: AC; C: BI LM - (pc5: B: CO).
 08d 00h 39m (39-40) A: LM - (pc4: B: PP).
 08d 16h 36m (35-37) A: AC; B: BI - (pc4: A: LM).
 09d 03h 29m (29) B: AC TW.
 09d 16h 08m (05-12) B: MG LM GN.
 11d 17h 49m (49) A: TE - (pc4: A: SI?).
 11d 20h 17m (17) C: CF - (ssc: B: SO).
 12d 04h 53m (53) B: AC TW.
 14d 14h 13m (13) B: MG; C: MT KA KY.
 14d 18h 57m (55-60) A: SI; B: SM.
 15d 05h 06m (05-09) A: AC; B: PP; C: TU - (pc4: A: TE - pi2+pc4: C: TW).
 16d 11h 47m (47-48) A: SI; B: TO - (pc4: B: FR).
 16d 12h 39m (39-40) B: AC; C: MT KA KY - (pc4: B: HO - pc5: A: MG).
 16d 15h 20m (20) C: MT KA KY.
 17d 20h 39m (36-44) A: BA; B: OD QU BI; C: KN LM.
 18d 00h 20m (20-21) B: PE BI.
 18d 11h 24m (20-26) A: BA; B: PP AC; C: TO - (ssc: A: PB - pc4: B: HO).
 18d 16h 45m (42-48) A: LM AC; B: OD TK QU.
 18d 23h 29m (26-37) A: OD BA; B: PE BI - (pc4: B: LM).
 19d 04h 13m (13-14) A: AC; B: LM.
 20d 04h 07m (05-09) B: BI LM.
 20d 16h 06m (05-07) B: OD QU BI; C: LM - (pc4: C: PE).
 21d 07h 25m (25) B: PP; C: TU - (pc5: B: SI?).
 21d 18h 20m (20-25) A: TK BA BI LM AC; B: AQ LU; C: TF - (ssc: B: SO - pg: B: KN
 PP - pi2+pc4: C: TW).
 22d 06h 39m (39-40) A: HO; B: PP; C: TU.
 23d 00h 49m (48-50) B: EB SM - (pc5: B: SI?).
 26d 08h 10m (10) A: CO SI; B: PP.
 29d 20h 05m (05) B: OD; C: LM.
 30d 20h 17m (15-20) EB PE BI.

TABLE 2b BAYS AND PULSATIONS 1967 - continued

DECEMBER

03d 06h 40m (40) A: SI TU.
 06d 07h 20m (19-22) A: HO PP; B: GN AM - (pc4: A: TE; B: BI).
 03d 23h 19m (19-20) B: MB BI - (pc4: B: TW).
 05d 03h 34m (31-37) A: TW; C: HU.
 10d 01h 58m (55-61) A: AC TW.
 10d 20h 47m (47-48) B: OD AQ BI.
 13d 23h 52m (49-54) A: LG IK MB TW; B: WI CF OD AQ EB PE QU BI LM.
 17d 22h 19m (11-25) A: OD; B: TK PE; C: LM - (ssc: B: TR).
 17d 23h 18m (15-20) B: NI AQ PE; C: TF - (ssc: B: SO).
 19d 01h 55m (54-56) A: AC; B: TW.
 20d 04h 16m (15-18) A: SI; B: HO PP; C: TU - (sfe: B: ME).
 22d 07h 20m (15-27) C: TU HU PP - (pc4: B: HO).
 22d 14h 48m (46-50) C: LM - (pg: B: ES).
 25d 23h 30m (30) B: OD AQ.
 29d 19h 48m (42-54) A: OD; B: TK; C: LM.
 29d 20h 57m (57) C: BI - (ssc: B: SO).

TABLE 2c BAYS AND PULSATIONS 1967

Commencements of pulsational disturbances (pc4) not associated with bays.
(See remarks at the head of Table 2a)

JANUARY

01d 10h 23m (18-26) A: HO TE - (pi2: C: PP).
04d 04h 29m (27-32) A: TE - (ssc: C: PP).
13d 07h 42m (39-45) A: TE - (pi2: B: PP).
16d 04h 50m (46-53) A: TE; B: SI - (pi2+pc4: A: AC - pc4+pi2: C: TW).
20d 07h 48m (45-50) A: SI; B: PP - (pi2: C: TU - pc5: A: TE).
28d 07h 28m (27-30) A: TE; B: AC.
28d 13h 12m (12-13) A: TE - (pi2: B: TF).
28d 16h 31m (30-33) A: TE - (pi2: +pc4: C: FR).
29d 16h 24m (23-25) B: GN - (pi2: C: TK - pc5: B: QU).
30d 13h 46m (42-50) A: TE; B: PP.

FEBRUARY

11d 18h 35m (30-40) A: SI - (pi2: C: HU).
20d 09h 06m (05-08) C: PP - (pc4+pc5: A: TE).
24d 13h 04m (00-08) B: CO - (pc4+pc5: B: FR).
25d 22h 15m (15) A: AM; C: HO.
27d 06h 00m (00) B: TE PP.

MARCH

02d 03h 11m (10-12) B: TE - (pi2: C: HU).
02d 08h 53m (50-55) A: TE; C: PP - (pi2: B: BI).
04d 06h 29m (28-31) A: TE; B: AC.
09d 01h 14m (14) A: AC - (pc4+pc5: PP).
14d 03h 04m (04) A: AC; C: PP?
15d 14h 01m (00-09) A: AC; B: CO BI; C: FR - (pi2: B: MG; C: MT KY HU).
25d 02h 49m (49-50) B: LM - (pi2: C: HU).
26d 08h 18m (16-20) A: TE; B: PP - (ssc: A: BA?).
26d 10h 13m (12-14) B: LM AC - (pi2: C: HU).

APRIL

02d 04h 25m (25-26) B: AC - (pi2: C: BI).
08d 15h 16m (12-20) A: AC; B: BI.
11d 09h 52m (50-54) B: SI HO; C: PP - (sfe: BA?).
13d 11h 52m (50-54) B: FR; C: HU.
14d 08h 33m (32-35) B: SI - (pi2: C: BI - pc5: B: TE).
15d 06h 12m (12-13) A: AC - (pi2: C: PP).
19d 07h 51m (51-52) A: TE; B: AC.
25d 06h 52m (47-55) A: NI; B: WI LM - (pi2: A: UB; B: MG).
25d 18h 30m (30) A: CO SI?
26d 02h 57m (48-66) A: LM; B: CO TE - (pi2: A: MG; B: PE).
29d 07h 41m (39-45) A: TE; B: HO; C: PP - (pi2: C: TU).

TABLE 2c BAYS AND PULSATIONS 1967 - continued

MAY

15d 11h 20m (20) C: PP - (ssc; A: PB).

JUNE

09d 01h 07m (06-08) B: TE - (pi2: C: HU).

12d 07h 04m (04) A: AC; B: TE.

17d 08h 27m (24-30) B: TW - (pi2: C: TU - pc5: B: TE).

20d 06h 09m (06-11) A: TE; B: FR PP AC? - (pi2: A: LM; C: TU).

22d 03h 38m (35-41) B: AC - (pi2: C: MB).

29d 05h 15m (09-20) A: TE LM - (pi2: B: HU).

JULY

11d 07h 15m (15-16) B: TE - (pi2: C: TU).

19d 12h 57m (57) A: TE; C: PP?

21d 05h 19m (19) A: TE AC?; B: PP?

22d 20h 00m (00) B: AM; C: MT? KA? TU KY? - (pi2: C: LM).

24d 05h 35m (35-36) A: TE - (pi2: C: PP).

24d 10h 53m (50-60) B: BI LM; C: PP? - (si: B: UB).

24d 11h 25m (20-30) B: TW - (pi2: C: HU).

28d 08h 01m (58-08) A: TE; B: TW - (pi2: PP).

AUGUST

11d 15h 38m (30-48) A: AC; B: SI - (pi2: B: BI TW).

12d 01h 05m (01-10) B: AC - (pi2: C: TW).

16d 03h 34m (30-37) B: BI LM AC.

20d 09h 24m (22-26) B: AC; C: PP.

22d 12h 04m (00-09) B: SI? FR - (pc4: C: LM).

23d 05h 38m (36-41) A: TE AC.

SEPTEMBER

03d 05h 15m (12-21) A: TE; C: PP - (pi2+pc4: A: TW).

05d 12h 00m (00) B: AC?; C: FR.

06d 05h 05m (02-11) B: BI TW; C: TF - (pi2: C: TA).

06d 17h 08m (07-10) B: PP - (pi2: C: TF).

13d 15h 12m (10-15) B: FR; C: LM.

16d 13h 00m (00) B: AC?; C: FR.

17d 13h 32m (30-35) A: TE; B: CO PP? - (pi2: B: KN LU).

23d 07h 45m (45) B: LE BI AC?

24d 01h 48m (47-49) A: AC; B: CI; C: LM - (pi2: B: BI TW).

25d 07h 06m (06) B: TE TW.

OCTOBER

01d 06h 41m (40-42) A: SI - (pi2: C: TU).

02d 08h 12m (10-15) B: TE - (pi2: C: PP).

16d 22h ..m (..) B: MT KA KY

23d 04h 40m (40) B: PP AC.

23d 06h 10m (10) A: TE - (pi2: C: TU).

TABLE 2c BAYS AND PULSATIONS 1967 - continued

(OCTOBER)

25d 16h 00m (00-01) B: LM; C: PP - (pi2: A: KN).
 31d 17h 10m (10) B: SI? - (pc5: B: ES).

NOVEMBER

06d 13h 30m (30) A: CO? - (pi2: B: SM).
 06d 17h 09m (00-18) A: TE LM; C: TU.
 06d 17h 43m (40-47) B: AC - (pi2: B: BI).
 08d 18h 15m (15) A: SI - (ssc: C: VI).
 10d 14h 11m (06-14) B: FR; C: LM - (pi2: B: BI).
 11d 16h 39m (35-41) A: LM; C: TU - (pi2: B: BI - pc4+pc5: C: PP).
 13d 09h 06m (05-08) B: FR?; C: LM - (pi2: B: BI).
 13d 14h 17m (14-21) B: BI - (pi2+pc4: B: AC).
 15d 11h 15m (14-16) B: TW - (pi2: C: BI).
 29d 14h 19m (17-22) B: BI; C: LM.

DECEMBER

07d 16h 29m (24-34) A: LM - (ssc: A: SO).
 08d 11h 53m (50-56) B: LM - (si: C: KN).
 14d 16h 17m (15-20) A: CO; B: FR.
 20d 08h 32m (30-34) B: BI - (si: B: ES).

TABLE 2d BAYS AND PULSATIONS 1967

Commencements of pulsational disturbances (pc5) not associated with bays.
(See remarks at the head of Table 2a)

JANUARY

24d 01h 07m (07-08) B: TE - (pc4+pc5: B: AC)
26d 05h 45m (44-47) A: TE - (pi2+pc4+pc5: B: PP).

FEBRUARY

07d 20h 02m (00-05) A: SI - (si: A: TE).
14d 05h 37m (36-38) A: TE - (pi2: C: TU).
25d 04h 21m (21-22) A: TE - (pc4: B: AC).

MARCH

02d 01h 46m (42-50) A: AC - (pi2: C: LM).
17d 14h 45m (45) A: SI? - (pc4: C: FR).

APRIL

13d 10h 06m (00-16) B: TE; C: PP - (pi2: B: ME; C: HU - pc4: A: SI).
24d 03h 05m (00-10) B: ES - (si: B: KN).

MAY

none

JUNE

21d 05h 04m (00-08) B: ES - (pi2: C: LM).

JULY

none

AUGUST

10d 00h 37m (35-40) A: TE - (pi2: C: HU).
17d 09h 07m (06-09) C: ES - (ssc: C: TF).

SEPTEMBER

none

OCTOBER

15d 12h 04m (04-05) A: SI - (si: HL).
27d 07h 46m (45-48) B: TE - (pi2: C: TU).

NOVEMBER

15d 03h 19m (18-20) A: MG - (pc4: B: LM).

DECEMBER

none

TABLE 2e GIANT PULSATIONS 1967

Exceptional pulsations of very great period and regularity with
a sufficient relative amplitude. (checked by 36 observatories).

JANUARY

08d 03h 00m A: OD - B: CO SI KN TK - C: NE SF TU HO SJ GU - E: SO DO NU FU
QU - X: TG - D: 18.

14d 01h 00m A: OD TK - B: CO SI NE - C: LE KN ES SM SF TU HO SJ GU - E: SO
NU MO FU AQ QU - X: TG - D: 15.

FEBRUARY

none

MARCH

none

APRIL

none

MAY

25d 21h 00m A: NE OD - B: CO SI KV TK TU (21 00 - 24 00) HO - C: SF SJ GU PA -
E: SO DO NU LE KN MO ES VL GT DB FU AQ FR SM QU TG TN -
D: 8.

JUNE

23d 04h 52m A: SO OD KS - B: NU LE KN (04 52 - 05 12) WI KV DB AQ (04 07 - 05 12)
TK - C: DO ES (04 52 - 05 15) MA GT NE FU SF TU HO QU SJ HR - X:
CO - D: 10.

JULY

none

AUGUST

none

SEPTEMBER

none

OCTOBER

09d 21h 25m A: SI; B: CO KV (21 23 - 21 51) OD - C: NU (21 35 - 21 38) GT NE TK FR
SF TU HO SJ TG - E: SO DO MO FU - X: DB - (pi2: B: EB - pc5: TE) -
D: 14.

NOVEMBER

none

DECEMBER

none

TABLE 3a SUDDEN IMPULSES (S.I.) 1967

This list cannot be considered as complete and can therefore not be used for statistical purposes without caution. (See cautionary note at the head of Table 2a). (checked by 50 observatories).

JANUARY

- 06d 18h 42m (42-45) A: OD SF KS TE - B: SO CO SI KN MO IR NE FU HB TK SS QU HO AL GU HR - C: DO NU ES WI SW GT KV MA DB AG LG FR SM TU SJ MB PA TN GN - X: TG - (sfe: C: MG) - D: 9.
- 07d 18h 17m (17-19) A: CO KN MO IR FU HB OD LG TK SF - B: LE MG SI ES GT HA KV MA DB NE AG AQ EB FR TU QU HO AL SJ MB GU TN HR - C: TL TE PA GN - E: SO DO NU SM - X: TG - (ssc: B: WI VL KS - b: C: SW).
- 09d 13h 26m (26-28) A: MA SF TE MB - B: CO ES VL GT NE HB OD AG LG AQ TK FR SM SS TU QU HO GU - C: SO DO NU LE SI KN MO WI SW HA KV FU AL SJ MB PA GN HR E: KS TN - X: TG - D: 7.
- 13d 13h 05m (05-08) A: NE OD AG AQ TK EB SF SS TU HO AL SJ MB GU HR - B: LE WI IR KV OD LG FR QU HO PA - C: MG SW GT GN - E: SO CO DO NU SI KN MO ES HA MA DB FU HB SM KS TE TN - X: TG - D: 3.
- 23d 00h 26m (25-27) A: SO SF KS SS TE - B: CO NU MG SI KN MO IR VL GT DB NE FU AG LG TK EB FR AK TU HO AL SJ GU TN HR - C: TR DO WI SW KV AQ MB PA GN - X: TG - (ssc: C: HB QU - b: C: HA - bs: B: ES OD - bp: B: MA SM - bps: C: LE TL) - D: 1.

FEBRUARY

- 04d 11h 33m (31-35) A: KS - B: IR FU OD AG LG SM SS QU - C: SO DO NU LE MG SI ES WI SW VL GT KV DB NE HB AQ TK (EB) FR AK SF TU HO TE AL SJ MB GU PA TN HR - E: CO - X: TG - (ssc: C: KN) - D: 6.
- 06d 21h 13m (12-17) A: SO CO IR HB TK AK SF KS TE AL - B: DO SI KN ES WI GT HA KV MA DB NE FU AG AQ FR SS TU QU HO SJ MB GU TN HR - C: TR TL PA GN - E: NU - X: TG - (b: B: SM; C: LE - bs: A: OD; B: MO? VL - cr: A: LG; B: SW - sfe: B: MG) - D: 2.
- 09d 07h 33m (32-35) B: DO WI IR VL GT FU HB SF QU - C: CO NU LE SI KN MO ES HA KV MA DB NE AG AQ TL FR TU HO TE MB GU - (bps: A: OD - cr: B: SW LG - sfe: B: MG) - D: 16.
- 16d 09h 09m (08-10) A: CO NE FU OD AG TK FR SS TU HO SJ MB GU PA TG - B: ES WI IR MA DB AQ (EB) QU GN HR - C: LE SW GT AL - E: SO DO NU SI KN MO VL HB SM KS TN - X: MG LG SF - (ssc: TE) - D: 4.
- 16d 11h 09m (07-09) A: CO MA DB NE FU HB OD AG AQ TK EB SF SS TU HO TE MB GU TG HR - B: ES WI IR VL GT HA QU AL SJ GN - LE SW - E: SO DO NU SI KN MO KV FR SM KS TN - X: MG LG PA - D: 4.

MARCH

- 09d 11h 32m (32-38) A: SO MO KS - B: CO IR GT MA? FU OD QU TE TG HR - C: DO NU LE SI KN ES WI AQ TL FR SM SF HO AL SJ MB PA TN GN - (cr: B: SW LG GU - sfe: A: HB; B: MG KV NE AG? TK TU; C: HA - D: 7.
- 09d 15h 26m (24-30) A: SO NU MO IR FU OD SF KS TG - B: CO DO LE ES VL GT KV MA DB AG LG AQ TK FR QU AL MB GU HR - C: SI KN WI SW HA NE TL? SM SS TU HO TE SJ PA GN - (ssc: B: HB - sfe: B: MG TN; C: EB) - D: 3.
- 13d 08h 35m (35-41) A: KS - B: SO MG ES IR VL FU OD SM TG TN - C: TR NU LE SI KN MO WI SW GT HA KV MA DB NE HB OD AG LG AQ TK EB TL SF SS TU QU HO AL SJ MB GU GN HR - (ssc: B: CO) - D: 4.
- 24d 13h 20m (18-22) A: SO OD - B: CO DO NU LE MO ES IR VL GT KV MA? NE FU AG LG AQ FR SF SS QU TG TN - C: SI WI HA DB TK TL KS TU HO TE AL SJ MB GU PA GN - (b: C: HR - bp: SM - cr: B: SW - sfe: A: HB; B: MG) - D: 5.
- 30d 08h 56m (56) A: LG - B: KV MA FU OD TK SS TU AL TN - C: SO LE MO WI VL GT HA FR SM SF TE GU PA GN - E: TL MB - X: AQ EB HO TG -

TABLE 3a SUDDEN IMPULSES (S.I'S) 1967 - continued

(MARCH)

(ssc: C: KS - sfe: B: ES HB QU HR; C: MG SI IR NE AG? SJ) - D: 9.

APRIL

04d 12h 47m (45-50) A: SO CO KN MO ES WI IR KV MA FU HB OD LG AQ TK EB
TL SF KS SS TU HO TE AL MB GU PA TG HR - B: DO LE MG SI VL GT
HA DB NE AG FR AK SM QU SJ TN GN - C: NI - E: NU - (cr: B: SW) -
D: 3.

14d 07h 19m (19-25) A: SO IR SF TE AL TG - B: CO SI NE FU AG LG AQ TK FR
SS TU HO SJ MB GU? - C: TR DO NU LE KN MO ES WI VL GT HA
KV MA DB HB EB AK PA GN - (ssc: B: QU TN; C: KS - bp: SM - cr: C:
SW - sfe: A: OD; B: MG) - D: 2.

22d 07h 09m (08-11) A: IR FU KS TE - B: TR SO DO NU LE MG KN ES NI VL KV
MA? HB OD AQ TK FR AK SS TU QU AL GU TG - C: SI MO WIGT HA
AG EB SM SF HO SJ MB TN GN HR - E: CO NE - X: LG - (cr: C: SW)
- D: 2.

MAY

23d 21h 34m (32-36) A: CO IR OD FR KS TE AL - B: SI KN MO ES WI KV NE FU AG
LG AQ TK AK SM SF SS TU QU HO SJ GU TG TN - C: SO DO NU LE
MG SW VL GT HA DB MB PA GN - (b: C: HR - bp: B: MA - bps: C: HB)
- D: 4.

28d 13h 53m (52-55) A: KN MO IR NI FU OD AG LG TK (EB) FR SF SS AL MB TG
- B: DO LE MG SI ES WI VL GT HA KV MA DB NE AQ TL SM TU QU
HO SJ GU PA HR - C: NU SW AK TE - E: SO CO HB KS TN GN - D: 1.

28d 16h 07m (06-09) A: CO MO WI IR NI FU OD LG TK EB AK SF TE AL MB TG
- B: LE MG SI KN ES VL GT KV MA DB NE HB AG FR SM SS TU QU
HO SJ GU PA HR - C: NU SW HA TL - E: SO DO KS TE TN GN - D: 1.

28d 16h 21m (20-23) A: CO LE MG SI KN MO ES WI IR HA NE FU OD LG AQ TK
(EB) SF SS TU HO AL MB PA TG - B: SW VL GT KV DB HB AG TL
FR SM QU SJ GU HR - C: MA AK - E: SO DO KS TE TN GN - D: 3.

28d 18h 25m (24-27) A: SO CO MG SI KN MO IR NI NE FU HB OD AG LG TK (EB)
FR SF TG - B: LE ES WI VL HA KV MA DB AQ SM TU QU HO AL SJ
MB GU PA HR - C: NU SW GT AK SS - E: DO KS TN GN - (sfe: A: TE)
- D: 2.

30d 17h 10m (10-11) A: MO IR FU OD (EB) SF TE MB TG - B: SI ES WIKV MA NE
HB AG LG AQ TK FR AK SM SS TU QU HO AL SJ GU PA HR - C: LE
MG KN VL GT HA DB - E: CO NU KS TN - (cr: C: SW) - D: 6.

JUNE

03d 17h 36m (22-39) A: SO - B: TR CO ES VL MA FU LG FR AL TG - C: NU LE SI
WI SW GT KV NE HB AG AQ EB SM SF SS TU HO TE SJ MB TN - E:
KS - (ssc: B: QU - b: C: MO - bp: B: OD HR) - D: 13.

26d 16h 49m (48-51) A: CO SI IR OD LG TK SS TG - B: LE MG KN MO ES WI KV
MA NE FU AG AQ AK QU HO AL SJ MB GU PA TN HR - C: TR SW VL
GT HA TL SM SF TU GN - E: SO NU HB FR KS TE - D: 4.

28d 09h 03m (03-08) A: MO OD LG KS - B: NU MG IR MA NE TK FR AK SF TU QU
TE AL TG TN HR - C: SO SI KN ES WI GT KV FU HB AG SM HO SJ
MB GU PA - E: CO - X: LE AQ EB - (cr: B: SW) - D: 9.

30d 18h 17m (17) A: SI MO IR FU HB LG SF TE TG - B: CO KN ES WI VL GT HA
KV MA DB NE OD AG AQ TK EB TL FR AK SM SS TU QU HO AL SJ MB
GU TN - C: DO NU LE MG SW KS PA GN HR - D: 2.

JULY

25d 17h 39m (38-41) A: IR FU SF KS - B: SO DO NU LE MO ES WI VL GT HA KV
MA DB HB AG LG? AQ TK FR AK SM SS HO AL SJ MB GU TG TN -
C: CO MG SI KN NE EB TU TE PA HR - X: SW - (ssc: B: QU; C: TL -
b: C: GN - bps: A: OD - D: 2.

TABLE 3a SUDDEN IMPULSES (S.I.'S) 1967 - continued

(JULY)

30d 04h 25m (24-26) B: CO LE MG ES IR VL FU OD FR SS TU AL SJ GU TG TN - C: NU SI KN MO WI SW GT HA KV MA DB NE AG LG AQ TK AK SF KS HO MB PA GN - E: SO - X: EB - (b: B: HR; C: SM - sfe: B: GU) - D: 5.

AUGUST

08d 09h 46m (46-49) A: IR FU OD TK SF - B: TR SO NU MG KN MO GT KV NE HB AG? LG? AQ AK SM TU QU AL GU TN - C: SI ES WI VL HA MA EB TL FR SS HO SJ MB HR - E: CO - X: TG - (cr: B: SW) - D: 7.

11d 15h 05m (02-06) A: CO NU MO IR FU HB OD AQ TK SF SS TU - B: SO MG SI KN ES WI SW GT HA KV MA DB NE AG LG EB FR AK SM QU AL MB GU PA TG - C: LE TL HO SJ HR - E: TE TN - X: DO KS - (bps: VL) - D: 3.

15d 11h 50m (48-51) A: SO FU OD - B: TR DO LE KN MO ES IR VL KV MA? HB AG LG AQ TK TG - C: CO MG SI WI SW HA DB NE EB TL FR AK SM SF TU QU HO AL MB GU PA TN HR - X: KS TE - D: 5.

29d 13h 30m (29-40) A: SO FU LG? SF - B: CO IR VL SM TG - C: DO NU DB AG TK KS TE MB GU PA - (pi2: SS - cr: B: SW - sfe: A: HB EB; B: MG SI ES GT HA MA OD AQ TL FR QU TN HR; C: KN KV TU) - D: 11.

SEPTEMBER

18d 00h 10m (10-13) A: SO SF - B: CO ES IR VL KV NE FU OD AG LG AK FR KS TU HO AL TN - C: NU LE MG SI KN MO WI SW GT HA MA DB HB AQ TK TL SS QU TE SJ MB PA HR - X: DO TG - (ssc: C: EB - b: C: SM) - D: 4.

20d 17h 37m (37-43) A: SO CO NU MG SI KN MO ES IR NE FU HB OD AG LG AQ TK EB SF KS SS TU QU HO TE AL MB GU PA - B: LE WI SW HA KV DB FR SM SJ GN - C: VL GT MA TL AK HR - E: DO TN - X: TG - D: 2.

OCTOBER

22d 19h 23m (23-24) A: SF KS TE - B: CO MG SI MO ES IR VL MA DB NE FU AG LG TK FR AK SS TU QU HO SJ GU TG TN - C: KN WI SW GT HA KV AQ EB SM AL MB PA GN HR - E: SO NU - (bs: B: OD) - D: 6.

22d 19h 57m (56-60) A: FU OD AG LG SF TE TG - B: CO MG SI MO ES IR KV MA DB NE AQ TK FR AK SM KS TU QU HO AL GU TN - C: LE KN WIVL GT HB EB TL SS SJ MB PA GN HR - E: SO NU - (cr: C: SW) - D: 3.

22d 22h 50m (49-51) A: SO KN FU OD AG? SF TU TE GU TG - B: TR CO NU MG SI MO ES IR KV MA DB NE HB LG AQ TK FR AK SM KS QU HO SJ MB TN HR - C: DO LE WI VL GT HA EB TL SS AL PA GN - (cr: C: SW) - D: 1.

29d 02h 29m (29) A: SO SS TE GU TG - B: CO MG NE FU FR TU QU AL TN - C: SI GT KV MA OD AG TK AK SM SF HO SJ MB PA HR - E: DO LG KS GN - (cr: C: SW) - D: 10.

29d 07h 52m (52-53) A: TE TG - B: SO CO ES IR VL GT DB NE FU OD AG LG AQ TK FR AK SS TU QU AL GU - C: TR NU LE SI KN MO WI HA KV EB SM SF HO SJ MB PA HR - E: DO MA KS TN GN - X: MG HB - (cr: C: SW) - D: 2.

29d 10h 23m (22-23) A: SO CO MO FU OD AG LG SF MB - B: NU KN ES IR VL GT KV MA? DB NE AQ TK EB TL FR AK SM SS QU GU TN HR - C: TR LE SI HA HO TE AL SJ PA TG - E: DO KS - X: MG - (ssc: C: WI - cr: C: SW - sfe: B: HB) - D: 2.

29d 13h 25m (22-27) A: SO CO SI KN IR NE FU HB OD AG SS TU HO TE MB GU TG HR - B: LE MO ES GT KV MA DB AQ TK EB TL FR SM QU AL SJ PA TN? - C: WI VL HA AK SF GN - E: DO NU LG KS - X: MG - (cr: C: SW) - D: 2.

29d 18h 22m (20-23) A: SO CO SI IR OD AG SF TE SJ TG - B: MG KN MO ESHA KV DB NE FU HB LG AQ TK (EB) FR AK SM SS TU QU HO AL MB GU PA HR - C: LE WI VL GT MA TL GN - E: DO NU KS TN - (cr: B: SW) - D: 2.

TABLE 3a SUDDEN IMPULSES (S.I.'S) 1967 - continued

(OCTOBER)

- 30d 02h 24m (23-24) A: SO MG IR KS SS TU HO TE GU TG - B: CO DO NU LE SI ES
VL MA NE FU OD TK FR AK SF QU SJ TN HR - C: TR KN MO WI VL
GT HA KV DB HB AG LG AQ EB SM AL MB PA GN - (cr;B:SW) -D: 1.
- 30d 04h 24m (23-25) A: CO MG IR NE SF KS SS TU HO TE MB GU TG - B: SI MO
ES VL KV OD AQ TK TL FR QU AL SJ TN HR - C: LE KN WI SW GT
HA DB HB AG (EB) AK SM PA GN - E: SO DO NU MA LG - D: 3.
- 31d 11h 14m (12-14) A: SO NU TE - B: TR DO ES VL GT KV MA NE FU AG SM AL
MB TG HR LE MO WI AQ EB TL AK SF KS SS SJ TN - X: PA - (cr:
B: SW GU - sfe: A: KN; B: IR MG SI HB OD LG TK FR TU QU HO; C:
CO HA) - D: 3.
- 31d 14h 44m (40-46) A: SO CO NU LE SI KN MO ES IR MA NE FU HB OD AG LG
TK FR SF SS TU HO TE AL MB TG HR - B: MG WI SW NI VL GT HA
KV DB AQ EB TL AK SM QU SJ GU PA TN GN - C: TR - E: KS.

NOVEMBER

- 03d 13h 42m (40-45) A: FU OD - B: SO ES IR DB LG AQ TK AK SS QU - C: DO NU
LE MG SI KN MO WI GT HA KV NE HB AG (EB) SM SF TU HO AL SJ
MB GU PA HR - E: CO FR KS TN - X: MA TG - (cr: C: SW) - D: 7.
- 03d 16h 28m (27-28) A: IR FU OD TE - B: TR SO CO DO NU SI KN MO ES SW VL
MA NE AG? AQ TK FR SM SS TU QU HO SJ GU TN HR - C: LE WI
GT HA KV DB HB LG SF AL MB PA GN - E: KS - X: EB TG - (ssc: B: MG)
- D: 4.
- 26d 17h 08m (07-11) A: IR SF KS - B: SO CO MO ES VL GT HA KV MA NE FU AG
LG AQ TK EB FR SM SS TU AL SJ MB TG HR - C: LE MG SI KN WI
DB TL HO TE GU PA TN? GN - (ssc: C: QU - b: B: NU - bs: A: OD - cr:
C: SW) - D: 5.

DECEMBER

- 16d 10h 25m (23-26) A: SO IR MA FU OD AL - B: CO NU KN MO ES NI VL GT KV
AG LG AQ TK FR AK SM SS QU MB GU TG TN HR - C: DO LE MG SI
WI SW HA DB NE HB EB SF TU HO TE SJ GN - E: KS - D: 3.
- 16d 11h 33m (29-34) A: SO IR MA FU OD LG SF AL - B: CO LE MO ES IR NI VL
GT KV AG AQ HB TK FR SS QU HO MB GU TG TN HR - C: DO MG SI
KN WI SW HA DB NE EB TL AK SM TU TE SJ PA GN - E: NU KS.
- 30d 16h 31m (28-31) A: MO OD SF - B: CO SI KN ES IR KV MA NE LG AQ TK FR
TU QU AL TN - C: SO DO NU LE MG WI GT HA FU? AG AM SS HO
SJ MB GU PA GN HR - E: KS TE - X: TG - (ssc: B: HB - cr: C: SW) - D: 6.

TABLE 3b NOT CHECKED SUDDEN IMPULSES (S.I.'S). 1967

JANUARY

01d 16h 03m (02-05) A: TE; C: LE.
 02d 07h 17m (17-18) A: SO; C: HB.
 07d 08h 45m (44-45) A: HB?; C: ES - (cr: B: LG?).
 07d 13h 51m (50-60) A: OD; B: ES CF HB LG MB - (ssc: B: WI - pi2: A: SJ).
 08d 09h 49m (45-54) A: TE; B: GU.
 09d 09h 13m (10-15) A: TE; B: CF AE - (ssc: B: VL TA - sfe: HB).
 11d 05h 37m (36-38) A: SO TE; B: HB - (bs: C: HU).
 11d 13h 52m (52) B: VL TL SM AE TC.
 13d 08h 45m (44-47) B: HL VL.
 13d 13h 27m (25-29) A: TE; B: CF.
 13d 13h 45m (45-46) A: TE; B: CF.
 13d 20h 21m (20-23) A: OD - (bp: B: AK).
 26d 01h 16m (12-18) A: TE; B: HL SU; C: AE - (bp: C: QU HU - cr: C: TL PP).
 27d 11h 09m (08-11) A: TE; B: VL SM; C: PP.
 31d 17h 43m (40-48) B: HL HD; C: LM - (b: B: KN - bp: B: TF).

FEBRUARY

01d 07h 35m (34-36) B: HB? - (cr: B: LG).
 03d 10h 06m (02-10) B: SM PP? - (ssc: B: BA - sfe: KS).
 04d 18h 41m (40-42) B: LG; C: BA? - (ssc: C: SUT F).
 05d 11h 00m (54-06) A: CO; C: BA - (ssc: A: TA).
 05d 14h 37m (45-40) C: TF - (pg: B: BI).
 07d 11h 11m (10-12) B: HB BA - (ssc: HL - bs: B: IR - sfe: BI?).
 07d 19h 35m (31-40) A: OD - (ssc: A: SO).
 08d 05h 41m (38-45) A: TE; B: ES QU PM.
 08d 18h 05m (04-06) A: TE BA; C: TL.
 11d 09h 36m (33-37) A: LG; B: VL; C: ES TL - (ssc: C: TF).
 16d 08h 45m (44-47) A: NI TE; B: KN CF.
 16d 09h 24m (23-28) A: WN PR LG TL; B: ES MA DB CF.
 16d 12h 20m (17-24) A: TE; B: CF.
 20d 09h 26m (24-28) A: KS; B: HL IR HD; C: BI - (ssc: A: BA; B: TF - bps: A: OD; C: KN - sfe: MG PE).
 22d 21h 49m (48-50) C: LG - (ssc: C: BA).
 23d 00h 41m (38-42) B: HL LG; C: PP LM - (ssc: C: TF - bp: B: MA - bps: B: TL).
 23d 07h 26m (26-27) B: LG - (ssc: C: QU - bps: C: AP).
 25d 03h 33m (30-35) B: BI LU AC; C: MB PP - (ssc: B: HB? BA; C: LM HR?).
 25d 10h 56m (56-57) C: MA - (ssc: B: TR).
 27d 15h 30m (25-32) B: VL ES HL; C: TC MB - (ssc: B: SO - cr: C: LG TL).

MARCH

01d 05h 01m (00-02) A: SO; B: LM - (ssc: HL).
 03d 16h 16m (14-19) A: OD SF AC; B: ES VL HB TC BA; C: LM - (ssc: B: TA).
 08d 18h 48m (45-50) B: ES HL LG SM - (ssc: C: TF - pi2: B: AM - pc5: B: SI? PP?).
 10d 13h 50m (49-52) A: SO; C: AG LG - (bp: C: MC - bps: B: BI - sfe: QD).
 17d 05h 54m (53-56) B: HL; C: PP.

TABLE 3b NOT CHECKED SUDDEN IMPULSES (S.I.'S) 1967 - continued

(MARCH)

27d 01h 46m (44-48) A: TE; C: PP.

27d 02h 03m (03-04) A: OD; B: BI.

APRIL

01d 18h 42m (40-43) B: MB?; C: TL - (cr: B: MB).

15d 16h 15m (10-18) B: LG MB - (ssc: C: BA? - pi2: B: TU LM - pc5: B: TE).

18d 19h 56m (54-58) C: LG - (ssc: BA).

MAY

02d 10h 12m (10-15) A: OD TE - (bs: B: IR).

02d 10h 30m (27-32) A: MO TE; B: LG TL TC.

02d 11h 17m (15-18) A: MO TE; C: LE.

02d 13h 51m (50-52) B: KN OD.

03d 11h 42m (40-49) A: PM; B: OD - (bs: C: GU - bps: A: IR).

07d 07h 36m (35-38) A: TE BA; B: KN OD.

07d 08h 00m (00) A: TE - (bps: B: IR).

12d 10h 18m (18) C: KN - (pg: C: SM).

15d 02h 22m (20-27) A: KN; B: HD BI LM; C: TF - (bs: B: HU - bp: B: MO - bps: B: VI - sfe: IR QU).

21d 23h 27m (26-28) B: HL - (bp: C: TF).

22d 00h 25m (23-27) B: HL UB.

23d 04h 00m (00) B: BI PM; C: MC PP? - (ssc: B: TP TN - b: A: SJ - bp: C: MG).

23d 16h 36m (36) C: KN - (ssc: B: HB).

25d 12h 58m (58-59) A: TE; B: HO.

25d 19h 22m (22) A: KN OD.

25d 21h 14m (00-19) A: LE CI SF TE; B: ES CF GU - (ssc: B: LG).

25d 23h 53m (48-59) A: ES OD LG; B: HA CF.

26d 05h 12m (10-15) A: LE TE.

26d 18h 35m (35-36) B: LG TL.

26d 20h 17m (16-18) A: TE; B: LG TL.

28d 15h 01m (54-04) A: NI OD LG MC; B: CF TL QU.

28d 19h 04m (57-14) A: IR NI OD LG QU; B: HD - (ssc: A: SO - bps: A: AM).

29d 04h 37m (35-40) A: TE; B: LE.

30d 14h 56m (55-58) A: SF AC; B: LG.

30d 18h 26m (22-30) A: TE - (bps: B: IR).

30d 19h 55m (54-56) A: SF TE - (ssc: A: OD).

31d 06h 14m (12-17) A: TE; B: KN - (ssc: A: SF).

31d 17h 25m (25) B: WN MA PR.

31d 18h 58m (57-60) A: OD LG TE; B: WN MA PR - (bp: C: KV?).

JUNE

02d 15h 06m (05-08) A: OD; B: VL; C: MB - (ssc: B: SU - sfe: EB HU).

03d 16h 00m (58-03) B: VL; C: QU - (cr: B: MB).

04d 06h 49m (45-54) B: SM - (ssc: A: LM).

04d 15h 52m (52-53) B: OD TC - (cr: MB).

TABLE 3b NOT CHECKED SUDDEN IMPULSES (S.I.'S) 1967 - continued

(JUNE)

05d 20h 07m (04-10) A: KN MO; B: HB.
 07d 00h 11m (10-12) A: BA - (pi2: C: LM).
 17d 07h 05m (03-06) B: LG; C: TC - (bp: B: TF).
 21d 06h 59m (50-65) B: NI HB?; C: WN AE HR - (ssc: B: SO; C: TF - bs: B: VL - pg: B: LE AQ - cr: MB - sfe: HL).
 22d 12h 51m (50-53) B: KN MO HB?
 25d 03h 04m (04) B: MA - (ssc: C: ES).
 25d 17h 37m (28-40) A: LG TE BA; B: TL - (ssc: A: TC; B: SM).
 25d 23h 35m (35) A: OD - (b: B: ES).
 26d 15h 36m (30-43) A: AC; B: TL; C: MG.
 30d 11h 49m (46-51) B: MO LG QU; C: TC - (ssc: C: TF).
 30d 13h 30m (30) B: LG; C: MB.
 30d 20h 53m (53) B: LG; C: TL.

JULY

07d 13h 47m (44-50) B: SW BE LG AE KS MB; C: TL - (pg: OD).
 07d 14h 06m (05-07) A: LG; B: MB.
 11d 09h 57m (57-58) A: OD - (ssc: B: SU).
 11d 17h 43m (39-44) A: UB; B: HB TC HD - (ssc: C: VI).
 15d 06h 39m (36-41) B: HL VL; C: ME - (sfe: OD).
 18d 00h 28m (28) B: LG; C: TL.

AUGUST

01d 11h 46m (43-48) B: HB? BI?; C: WN TF - (ssc: B: OD? - b: C: AK - sfe: SU LG).
 11d 21h 34m (34) A: OD TE; C: TL.
 17d 16h 02m (00-03) A: OD - (ssc: C: TF - bp: B: LU).
 17d 21h 03m (02-05) B: LG; C: AE.
 19d 07h 29m (28-30) B: WN VL PR.
 24d 16h 42m (34-45) A: SF; B: ES HL LG LU; C: KN - (ssc: C: TL TC).
 30d 07h 13m (10-15) B: CF TC; C: TL - (sfe: OD).
 30d 13h 11m (10-11) B: VL; C: TL TC - (ssc: A: SF).
 30d 17h 18m (14-20) B: LG AE - (sfe: TL).
 31d 00h 10m (10) A: TE; B: KN.

SEPTEMBER

01d 13h 57m (54-62) A: OD; C: TL - (ssc: B: HB?).
 07d 14h 06m (05-07) B: OD - (ssc: C: TF).
 08d 08h 02m (02-03) A: SO; B: HL.
 08d 13h 57m (51-60) B: LE ES - (pi2: A: TE).
 13d 05h 02m (02-03) A: TE; B: GU.
 13d 06h 53m (50-57) A: TE - (pg: C: LE).
 13d 07h 37m (35-39) A: TE; B: MO OD GU.
 13d 12h 05m (01-08) A: MO HB OD TE; B: NI; C: LE TL.
 15d 10h 53m (50-56) A: OD - (ssc: B: BA?).
 18d 08h 24m (23-25) B: HL - (ssc: C: KV - sfe: OD).

TABLE 3b NOT CHECKED SUDDEN IMPULSES (S.I.'S) 1967 - continued

(SEPTEMBER)

18d 10h 31m (31) A: OD - (ssc: C: TL).
 18d 14h 31m (30-32) A: OD SF; B: KN VL MA LG.
 18d 17h 35m (35-36) A: OD - (ssc: B: TF - bs: B: IR).
 20d 02h 21m (21-22) A: TE - (ssc: C: TF).
 20d 06h 42m (42) A: TE - (ssc: B: TF).
 20d 20h 25m (20-30) A: KS - (b: C: HR).
 24d 09h 31m (28-34) A: KS; B: SO - (ssc: A: PB - sfe: HL PE?).
 28d 10h 07m (07) A: MG - (pi2: C: HU).

OCTOBER

03d 03h 36m (36-37) B: ES MA TL?; C: EB.
 07d 14h 57m (55-60) B: HL; C: TC.
 08d 10h 39m (39-40) A: SO; B: PR; C: ES.
 08d 12h 00m (00-01) B: CF - (ssc: C: AE).
 10d 00h 23m (22-24) B: QU - (ssc: B: GU).
 15d 07h 22m (20-27) A: SO; B: HL HD; C: KN - (ssc: B: SU - sfe: OD).
 15d 16h 34m (33-35) A: ES MA EB - (pg: B: SM).
 16d 03h 50m (45-52) A: SO; B: NU HL PR TL?; C: WN MA.
 17d 10h 55m (53-58) B: LG - (ssc: B: BA?).
 19d 09h 50m (40-59) A: SO KS - (ssc: A: PB - b: B: MG - bp: C: PP).
 22d 23h 54m (50-60) A: KN; B: HL MB - (pc4: C: PP).
 27d 06h 51m (47-58) B: MO HL - (ssc: B: SU - sfe: OD).
 29d 14h 41m (39-41) A: AC; B: MC; C: MT KA KY.
 29d 15h 38m (38-39) A: TE; B: MC.
 29d 16h 27m (25-29) A: TE; B: QU.

NOVEMBER

02d 02h 08m (07-10) B: SM PM; C: MC - (ssc: B: GU - b: C: TC HU - cr: TL).
 09d 06h 43m (40-47) C: KS BA?
 09d 11h 45m (44-47) B: HB? LG BI; C: KS - (ssc: B: TF).
 10d 13h 06m (05-07) B: BI; C: LG KS - (bp: B: AP).
 12d 15h 05m (02-08) B: TC MB - (ssc: B: SO TF - pg: A: LG; B: BI?).
 19d 09h 52m (47-56) B: HL SW TP - sfe: HD).
 22d 03h 37m (36-39) B: LU - (ssc: C: TF).
 22d 10h 45m (44-46) B: BA; C: ES MC - (bp: A: AP).
 27d 14h 13m (10-17) B: VL - (ssc: C: TF).
 30d 03h 51m (51-52) B: MO HL.

DECEMBER

06d 14h 02m (00-06) B: VL HB? TK - (ssc: B: BE TF).
 07d 10h 41m (40-42) B: MO CF; C: KN.
 07d 11h 27m (26-29) B: VL AE TE.
 07d 12h 31m (30-32) B: NI; C: KN TL.
 12d 22h 25m (25-26) B: AG; C: BI.
 15d 05h 02m (59-04) B: TE LM; C: WN AK - (ssc: C: TF - bs: C: HU).

TABLE 3b NOT CHECKED SUDDEN IMPULSES (S.I.'S) 1967 - continued

(DECEMBER)

16d 03h 47m (47) B: TO; C: WN.
16d 05h 20m (18-22) A: TE - (sfe: IR).
19d 22h 02m (02) B: ES CF - (bp: C: EB).
20d 12h 41m (38-44) B: CF TL; C: KN.
21d 15h 08m (05-09) B: QU HD; C: MT KA KY - (ssc: B: TF - pi2: B: BI).
21d 22h 47m (45-49) B: MG HB? OD.
30d 15h 13m (10-14) B: HD BA? BI AC; C: MC - (ssc: B: OD CI; C: DB).
31d 07h 09m (08-10) A: OD - (ssc: B: TA).

TABLE 4 MINOR DISTURBANCES 1967

Minor disturbances (ssc., etc.) reported by one station

JANUARY

d	h	m		d	h	m		d	h	m		d	h	m	
01	03	18	pc4+pc5PP-	01	03	30	b HU	01	03	..	pc4 TR	01	07	34	pi2 LM -
01	10	38	ssc LM	01	12	07	ssc HB	01	12	30	ssc SM	01	20	44	si UB -
02	08	15	b NU	02	10	50	b HU	03	01	01	pi2 LM	03	06	59	si SO -
03	08	52	pi2 PP	03	10	57	ssc TR	03	12	31	pi2 TO	03	13	12	pc4 TE -
03	14	20	si ES	03	16	54	pi2 LM	04	01	22	pc4 PR	04	04	11	pc4 LM -
04	08	51	pi2 LM	04	17	12	cr MB	04	20	38	pi2 OD	04	21	15	pi2 TF -
04	21	40	ssc SO	05	00	30	pc4 AM	05	04	07	pi2 LM	05	09	08	pi2 PP -
05	14	07	pc4 GN	06	01	22	pi2 LM	06	16	32	b OD	07	01	15	pc5 TR -
07	13	12	bp TE	07	18	00	pc4 SI	07	19	09	si MB	07	19	21	si TE -
08	02	45	bp CF	08	03	11	si TE	08	18	40	bps MO	09	07	27	si TE -
09	14	41	si CO	09	17	12	b SW	09	18	03	pi2 TF	09	20	12	pi2 LM -
10	10	25	pi2 CO	10	15	18	pi2 LU	10	17	19	pc4 QU	10	17	42	bps IR -
10	18	06	bp TF	11	00	19	ssc LM	11	02	24	pi2 LM	11	05	18	si SO -
11	05	56	si SO	11	15	04	pi2 LM	11	15	35	pc4 FR	11	18	33	pg TE -
11	18	..	bp KV	12	12	05	pc4 AC	12	14	00	pi2 HU	12	16	10	pc4 LM -
12	18	00	pc4 TE	12	18	28	pi2 TK	13	00	06	pc4 TR	13	01	01	pc4 AC -
13	01	20	pc4 LM	13	03	15	bp LU	13	06	00	pi2 TU	13	07	08	pc4 AC -
13	12	37	si ES	13	18	00	pc4 SI	14	03	21	si TE	15	00	13	bp OD -
15	13	30	bp TC	15	13	53	pi2 AC	15	22	59	bp EB	16	19	53	bp HL -
16	20	..	bp KV	17	21	30	pc4 TO	18	05	46	pi2 PP	18	12	08	si HL -
18	14	..	pc4 SI	18	15	54	ssc TF	18	16	59	pi2 LM	19	00	46	pi2 AC -
19	06	33	pi2 AC	19	17	18	pi2 TF	19	17	..	pc4 SI	20	08	03	bp VI -
20	10	35	pi2 LM	20	16	..	pc4 SI	21	04	44	pi2 LM	21	06	30	bps ME -
21	12	57	pi2 AC	21	16	..	bp KV	21	23	45	pi2 OD	22	00	00	bp VL -
22	00	55	pi2 AC	22	01	18	bp SM	22	04	45	pi2 LM	22	07	45	pc4 TE -
22	15	51	pi2 TR	22	18	44	b UB	22	21	..	bp KV	23	04	30	pi2 LM -
23	06	04	pc4 AC	23	06	18	pc5 TE	23	09	10	pc4 PP	25	04	05	si TE -
26	06	20	pc4 TR	26	09	42	pc5 TE	27	08	12	si HL	27	11	44	si HB -
27	12	14	si KN	27	16	20	pc4+pc5PP-	28	03	00	pc4 AC	28	05	19	ssc PE -
28	09	43	pi2 LM	28	15	15	pi2 TF	28	15	..	pc4 PP	28	16	16	pi2 LM -
28	18	00	pc4 SI	28	19	54	bp SU	28	20	..	bp KV	29	00	20	pi2 EB -
29	01	20	pi2 SM	29	04	42	ssc TF	29	08	11	pi2 AC	30	11	00	pc4 TR -
30	12	45	pi2+pc4FR-	30	13	00	pc4 AC	30	13	15	pi2 TF	30	13	30	pc4 CO -
30	18	12	bp KN	31	01	45	pc4 TR	31	10	16	pi2 TF	-	-	-	-

FEBRUARY

01	02	12	pi2 LM	01	07	54	pc4 TE	01	08	10	pi2 BI	01	12	51	pc4 CO -
01	14	20	pi2 TO	01	14	50	bp MG	01	14	..	bp CO	01	17	18	pi2 TF -
02	00	07	pi2 LM	02	04	30	pc4 TR	02	04	48	pc4 LM	02	06	51	pc5 TE -
02	12	15	bp CO	02	12	27	pi2 HU	02	17	56	b BA	02	22	12	bp SU -
03	06	30	pc5 PP	03	09	57	si IR	03	11	45	pc5 TR	03	13	43	pi2 CO -
03	18	23	pc5 ES	03	20	53	si HL	03	23	..	bp KV	04	05	12	bp HU -
04	05	49	pi2 TW	04	14	20	bp LZ	04	16	00	bp MG	04	18	20	pc5 BI -
04	22	40	pi2 BA	05	10	23	pi2 LM	05	10	34	pi2 BI	05	12	17	si BI -
05	12	47	ssc TC	05	15	00	bp LZ	05	15	15	b LE	05	16	00	bp MG -
06	03	21	pi2 AC	06	07	45	bp TE	06	12	30	bp TR	06	15	29	pi2 AC -
06	21	33	pi2 TA	06	22	20	bp LZ	06	23	..	bp KV	07	01	10	si HL -
07	03	42	si HL	07	07	07	si HL	07	09	45	pc4 TR	17	17	38	ssc LM -
07	17	55	si TE	07	19	15	si TE	07	22	33	si TE	07	23	37	ssc SO -
08	02	10	b ES	08	07	08	si OD	08	10	30	bp IR	08	12	41	pi2 FR -
08	15	10	pc4 SI	08	15	53	si OD	08	17	22	si TE	08	18	48	si TL -
08	19	15	si TE	08	20	00	si TE	09	05	36	pc5 TE	09	07	48	cr SW -
09	19	..	bp KV	09	20	..	bp KV	10	01	23	pc4 LM	10	02	39	pi2+pc4TW-
10	02	..	pc4 TR	11	02	05	pc4 LM	11	03	20	pc4 TF	11	07	25	pi2 BI -
11	08	22	bp LE	11	09	00	ssc BA	11	09	55	si VL	11	16	30	pc4 FR -
11	18	53	pi2 BI	11	19	35	ssc TF	11	22	..	bp KV	12	07	50	pi2 LM -
12	12	24	pi2 SM	12	12	47	pi2 CO	12	14	50	si MA	12	22	..	bp KV -
13	00	52	pi2 BA	13	10	58	ssc BA	13	16	36	b IR	13	21	..	bp KV -
14	08	58	pi2 PP	14	09	50	pi2 HO	14	10	44	si HL	14	12	39	si HL -
14	14	00	pi2 HU	14	14	..	pc4 PP	15	09	40	pc4 TR	15	17	18	pc5 TR -
16	00	..	pc5 SI	16	03	20	pc5 ES	16	06	18	si TE	16	12	50	si TE -
16	13	32	si CF	16	23	..	bp KV	17	02	07	pi2 AC	17	07	..	pc4 SI -

TABLE 4 MINOR DISTURBANCES 1967 - continued

(FEBRUARY)

d	h	m		d	h	m		d	h	m		d	h	m					
17	16	31	pi2 LM	-	17	17	34	pi2 LM	-	17	20	41	b AE	-	17	21	20	b HR	-
18	02	52	pi2 LM	-	18	04	57	pc4 TE	-	18	07	21	pc4 TE	-	18	12	27	si HL	-
18	16	38	pi2 LM	-	18	19	24	pc4 TR	-	19	07	20	pi2 PP	-	19	12	14	ssc LU	-
19	13	45	si AG	-	19	18	38	bp TF	-	20	03	..	pc4 TR	-	20	09	08	pc4+pc5TE	-
20	09	40	pi2 TU	-	20	17	30	b HR	-	20	21	..	bp KV	-	20	22	17	pi2 PE	-
20	22	..	pc5 CO	-	20	23	..	pc5 SI	-	21	15	37	pi2 MT	-	21	22	51	pi2 PE	-
22	09	40	pg LE	-	22	23	15	b GU	-	23	02	09	pi2 AC	-	23	05	30	pc4 TR	-
23	09	07	pi2 LM	-	23	09	49	pi2 LM	-	23	14	..	pc4 SI	-	23	18	00	b MG	-
24	05	02	pc4 LM	-	24	15	28	pi2 LM	-	24	16	03	pi2 LM	-	24	20	..	bp KV	-
24	22	25	pi2 BA	-	24	23	19	pi2 BA	-	25	07	15	pi2 SI	-	25	11	..	pc5 SI	-
25	13	33	pc4 AC	-	25	17	26	si SO	-	25	22	43	pi2 PE	-	25	23	38	pi2 PE	-
26	04	01	pg KN	-	26	07	18	pi2 SI	-	26	10	10	pi2 SI	-	26	18	29	pi2 OD	-
26	19	46	bp EB	-	26	20	..	bp KV	-	26	22	..	bp KV	-	26	23	07	pi2 BA	-
27	04	28	pc4 LM	-	27	08	18	pc4 TE	-	27	10	20	pi2 HO	-	27	10	..	pc4 PP	-
27	11	54	pi2 HU	-	27	17	10	b HR	-	27	18	..	bp KV	-	28	00	..	pc4 PP	-
28	09	50	pi2 SI	-	28	09	..	pc4 PP	-	28	15	00	ssc BA	-	28	15	47	bps BI	-

MARCH

01	05	36	pi2 MG	-	01	05	50	pi2 BI	-	01	07	15	pi2 PP	-	01	11	41	si IR	-
01	18	06	pi2 TF	-	02	01	00	pc5 TR	-	02	06	22	pc4 TE	-	02	08	06	si HL	-
02	16	05	b OD	-	02	16	31	b TC	-	02	18	09	pc4 FR	-	02	21	44	bps HL	-
03	03	47	pc4 TE	-	03	03	56	pi2 LM	-	03	03	..	pc4 PP	-	03	06	19	si ES	-
03	09	13	ssc SU	-	03	12	56	bp MG	-	03	13	06	si ES	-	03	15	14	ssc TF	-
03	20	45	pc4 FR	-	03	21	06	pi2 MG	-	03	21	28	pi2 BA	-	03	21	..	pc5 SI	-
04	01	13	pi2 MB	-	04	06	55	pi2 SI	-	04	08	05	pc4 TE	-	04	16	37	bps BI	-
04	17	44	bps BI	-	04	23	50	bp DB	-	05	01	36	pi2 AC	-	05	02	23	pi2 LM	-
05	03	36	pc4 AC	-	05	06	30	pi2 SI	-	05	14	..	pc4 SI	-	05	21	10	bp LZ	-
06	00	48	bps HU	-	06	01	05	bp EB	-	06	01	19	pi2 BA	-	06	04	41	pi2 LM	-
06	10	40	bp KN	-	06	16	..	pc4 PP	-	06	18	23	pi2 BA	-	06	18	..	bp KV	-
06	19	55	bp CF	-	06	20	17	pi2 LM	-	06	21	31	pi2 BA	-	06	21	..	bp KV	-
07	07	54	pi2 TE	-	07	09	59	si TC	-	08	16	..	pc5 CO	-	08	20	00	si HL	-
08	20	56	si HL	-	09	01	17	pi2 LM	-	09	04	33	si MC	-	09	06	32	si TE	-
09	16	..	pc4+pc5PP	-	09	17	..	pc4 SI	-	10	00	42	pg KN	-	10	03	05	pi2 LM	-
10	13	18	bp SM	-	10	18	43	bp BI	-	10	19	..	bp KV	-	11	05	30	pg KN	-
11	07	..	pc4 PP	-	11	08	33	ssc SU	-	11	20	50	pi2 BA	-	11	22	53	pi2 PE	-
12	04	..	pc4 PP	-	12	05	57	pc5 TE	-	12	06	41	pi2 LM	-	13	00	15	bp SU	-
13	07	59	pc4 TE	-	13	23	53	bp MC	-	14	17	06	pi2 BA	-	14	17	..	pc5 CO	-
14	18	25	bs SO	-	15	04	28	pi2 AC	-	15	22	16	pi2 TW	-	15	23	48	pi2 BA	-
16	12	01	pi2 CO	-	16	17	10	pi2 AC	-	16	19	..	bp KV	-	16	21	..	bp KV	-
16	22	11	b OD	-	16	23	08	bp PE	-	17	03	17	ssc TC	-	17	20	42	pi2 BA	-
17	21	08	bp SO	-	17	22	04	pi2 BA	-	18	00	54	pi2 BA	-	18	02	43	bp TW	-
18	02	59	pc5+pi2AC	-	18	04	15	ssc TU	-	18	09	15	ssc TA	-	18	10	48	si OD	-
18	11	15	pc4 TE	-	18	16	27	pc4 AC	-	18	18	..	bp KV	-	18	19	07	si SO	-
18	23	41	si AE	-	19	16	34	ssc SO	-	19	19	31	pi2 BA	-	19	20	..	pc4 SI	-
19	22	12	pi2 TE	-	20	02	24	pc4 AC	-	20	19	48	pi2 AC	-	21	01	00	bp LZ	-
21	12	00	bp PM	-	21	15	26	pc4 AC	-	21	17	50	pi2 TK	-	21	20	..	pc4 SI	-
21	21	18	pi2 BA	-	21	23	..	bp KV	-	22	00	28	si PP	-	22	01	29	si AP	-
22	06	33	si LM	-	22	12	03	pi2 CO	-	22	21	27	pc5 TR	-	23	07	10	pi2 PP	-
23	10	45	pc4 LM	-	23	11	12	ssc BA ?	-	23	12	38	pi2 MA	-	23	15	35	pi2 MG	-
23	19	00	bp LZ	-	23	19	35	pi2 TF	-	23	20	57	bp VL	-	23	20	..	bp KV	-
23	21	..	bp KV	-	24	03	00	si HL	-	24	10	00	ssc BA ?	-	24	20	..	pc4 SI	-
25	01	13	pi2 BA	-	25	03	00	pi2 AC	-	25	03	35	pc5 ES	-	25	05	06	pc4 NI	-
25	06	38	pc4 TE	-	25	07	00	pi2 TU	-	25	07	14	pc4 TA	-	25	17	35	pi2 OD	-
25	17	..	pc4+pc5PP	-	25	18	23	pi2 TK	-	25	18	..	pi2 SU	-	25	23	22	pi2 BA	-
26	01	17	pi2 SM	-	26	01	40	pi2 PE	-	26	02	48	si HL	-	26	11	10	pi2 HU	-
26	11	35	cr SW	-	26	17	02	pi2 PP	-	26	18	46	pi2 UB	-	26	23	02	pi2 BA	-
27	01	00	pi2 LU	-	27	01	12	pc4 CI	-	27	04	05	bp BI	-	27	04	20	pi2 MB	-
27	04	42	pc4 TE	-	27	08	43	pc4 TE	-	28	03	25	pi2 AC	-	28	03	38	pc5 ES	-
28	07	59	pi2 LM	-	29	01	39	ssc SU	-	29	02	18	bp FR	-	29	04	31	pc4 AC	-
29	17	05	bp TP	-	30	03	19	bps AC	-	30	08	02	pi2 PP	-	30	09	..	pc4 SI	-
30	21	54	bp OD	-	30	23	..	bp KV	-	31	04	35	pi2 LM	-	31	06	..	pc5 SI	-
31	13	35	ssc SU	-	31	14	06	pc4 AC	-	31	17	35	pi2 BA	-	31	22	56	pi2 BA	-

TABLE 4 MINOR DISTUBANCES 1967 - continued

APRIL

d	h	m		d	h	m		d	h	m		d	h	m					
01	01	20	pi2 BA	-	01	06	39	pc4 LM	-	01	07	44	pi2 PP	-	01	09	16	pc4 TE	-
01	09	35	pi2 AC	-	01	11	28	si MB	-	01	14	24	pi2 LM	-	01	18	30	pc4 SI	-
01	20	55	b MB	-	02	07	21	si HL	-	02	08	40	si HL	-	02	09	00	bp OD	-
02	16	36	bp IR	-	03	00	54	pc4 AC	-	03	03	02	si TC	-	03	13	45	pc4 FR	-
03	17	21	bps BI	-	03	20	30	pc4 TR	-	03	20	55	pi2 BA	-	03	21	18	pi2 BI	-
03	23	33	bs IR	-	04	01	12	pi2 BA	-	04	02	03	ssc IR	-	04	12	24	si TE	-
04	13	15	pc4 FR	-	04	14	21	si AC	-	04	15	57	pi2 LM	-	04	16	33	pi2 LM	-
05	01	26	pi2 BA	-	05	02	47	pc4 LM	-	05	03	16	pi2 BA	-	05	07	54	pi2 PP	-
05	14	48	pc4 FR	-	05	15	12	bp KN	-	05	15	..	bp SU	-	05	22	50	pi2 BA	-
06	02	44	pc4 TE	-	06	04	35	pi2 BI	-	06	06	21	si BI	-	06	08	27	pi2 SI	-
06	14	50	bp IR	-	06	15	33	pi2 TF	-	06	16	33	pi2 BI	-	06	19	53	pi2 OD	-
06	22	02	pi2 BA	-	06	22	..	bp KV	-	07	01	22	pi2 IK	-	07	03	13	pi2 LM	-
07	06	19	pi2 LM	-	07	11	03	bp TR	-	07	12	50	bps TR	-	07	13	36	pi2 MG	-
07	17	15	pc5 CO	-	07	19	41	bp LG	-	07	20	..	bp KV	-	07	20	03	bps KS	-
07	22	20	pi2 BA	-	08	01	58	pi2 LM	-	08	03	54	pi2 LM	-	08	10	51	pi2 CO	-
08	12	00	pc4 FR	-	08	16	18	pi2 TF	-	08	16	35	pi2 TK	-	08	20	19	pi2 BA	-
09	01	00	bps BA	-	09	02	12	pc4 TR	-	09	02	52	bp HR	-	09	17	30	pi2 TF	-
09	21	05	bp OD	-	09	22	..	bp KV	-	10	02	20	pc4 AC	-	10	10	22	ssc TF	-
10	13	50	pi2 AC	-	10	16	..	pc4 PP	-	10	18	05	pi2 AC	-	10	19	00	pi2 BA	-
10	19	..	bp KV	-	10	21	17	bs KS	-	11	07	00	pi2 TU	-	11	11	54	si LM	-
11	17	03	ssc TF	-	12	10	08	pc4 HO	-	12	12	33	pc4 FR	-	13	00	45	bp BI	-
13	03	..	pc4 TR	-	13	05	28	pc4 LM	-	13	08	48	pc4 AC	-	13	09	13	pc4 BI	-
13	13	38	pi2 AC	-	13	19	55	pi2 BA	-	13	20	57	pi2 CF	-	14	07	54	pi2 PP	-
15	00	44	bp BI	-	15	00	55	b MB	-	15	02	19	bp SJ	-	15	16	33	si TC	-
15	17	35	ssc TF	-	15	21	01	pi2 BI	-	15	23	..	bp KV	-	16	02	08	pi2 AC	-
16	02	58	pi2 LM	-	16	03	..	pc4 TR	-	16	05	21	ssc TF	-	16	08	48	sfe MC ?	-
16	10	18	ssc TR	-	16	11	25	sfe MC ?	-	16	19	42	pi2 TE	-	16	23	27	pi2 TE	-
17	09	09	pc4 TE	-	17	14	09	b HL	-	17	18	22	pi2 TF	-	18	02	32	bp FR	-
18	16	36	bs AC	-	18	18	36	pi2 BA	-	18	23	05	bp BI	-	19	03	12	b ES	-
19	10	13	bp AP	-	19	20	40	bp KS	-	19	22	26	bp TF	-	20	02	52	pi2 LM	-
21	15	54	bp LM	-	21	23	36	ssc TF	-	22	00	00	bp MC	-	22	04	56	ssc PP	-
22	11	54	pi2 MT	-	22	12	..	pc4 SI	-	23	01	57	ssc GU	-	23	02	..	bp KV	-
23	06	48	ssc BA	-	23	15	16	ssc TF	-	23	15	..	pc4 SI	-	23	17	35	si SO	-
23	18	..	pc4 MT	-	23	22	28	pi2 EB	-	24	02	08	bp TC	-	24	02	..	bp KV	-
24	04	00	b MB	-	24	09	00	pi2 SJ	-	24	10	18	pc4+pi2FR	-	24	13	..	pc4+pc5PP	-
24	17	14	pc4 LM	-	24	19	..	bp KV	-	24	22	..	bp KV	-	25	04	04	pg KN	-
25	08	56	b PP	-	25	12	45	pc4 FR	-	25	16	35	pc4 AC	-	25	16	..	pc4 PP	-
25	17	00	pc4 TU	-	25	19	00	pc4 AM	-	25	20	18	pi2 TF	-	26	05	06	pi2 MG	-
26	06	00	pc4 NI	-	26	14	32	si HL	-	27	03	30	pc5 LE	-	27	04	03	pc4 LM	-
27	10	05	pi2 CO	-	27	15	30	si HL	-	27	19	34	pi2 BI	-	27	22	18	pc4 TR	-
28	01	00	pi2 ES	-	28	01	29	bp CF	-	28	03	51	pi2 TW	-	28	09	00	pc4 PP	-
28	19	..	pc4 PP	-	29	00	51	pc4 TR	-	29	03	12	pi2 KN	-	29	09	20	ssc KN	-
29	13	15	pc4 CO	-	29	16	39	ssc TF	-	29	20	23	bp TR	-	29	21	..	bp KV	-
29	22	57	si TE	-	30	00	12	pi2 SM	-	30	00	24	pi2 BA	-	30	02	14	pi2 EB	-
30	06	28	ssc LM	-	30	17	06	pi2 TF	-										

MAY

01	01	13	bp SM	-	01	02	22	pi2 TW	-	01	04	22	pi2 AC	-	01	06	12	pi2 AC	-
01	08	51	pi2 CO	-	01	18	35	pi2 BA	-	01	21	15	pi2 BA	-	01	23	..	bp KV	-
02	02	30	pi2 BA	-	02	05	13	pi2 LM	-	02	06	23	si MA	-	02	12	..	pc4+pc5PP	-
03	00	00	pc4+pc5PP	-	03	03	25	si ES	-	03	12	01	ssc SO	-	03	13	28	pi2 BA	-
03	14	35	ssc SO	-	03	15	30	bs IR	-	03	16	04	ssc SO	-	03	16	26	ssc SO	-
03	16	..	pc4+pc5PP	-	03	17	30	si OD	-	03	18	56	pi2 LM	-	03	19	..	bp KV	-
03	22	55	ssc SO	-	04	03	..	bp KV	-	04	06	28	pi2 LM	-	04	08	28	pc4 HO	-
04	08	44	bp AM	-	04	13	24	pi2 ME	-	04	16	06	pi2 TF	-	04	19	45	ssc SO	-
04	22	..	bp KV	-	05	00	..	bp KV	-	05	07	31	bp AP	-	05	08	..	b PP	-
05	17	50	b NU	-	05	21	43	bp SO	-	05	22	00	bp LZ	-	05	23	..	bp KV	-
06	04	16	bp TE	-	06	11	15	b TR	-	06	19	..	bp KV	-	06	21	30	pc4 CO	-
07	07	12	bs IR	-	07	08	00	si TE	-	07	21	11	pi2 BA	-	07	22	26	pi2 BA	-
07	22	..	bp KV	-	08	14	05	pi2 TK	-	08	14	52	bp KN	-	08	16	36	pi2 TF	-
08	19	30	bp SU	-	09	00	00	pi2 PP	-	09	01	30	pi2 MB	-	09	01	48	pi2 MB	-
10	00	01	bp SU	-	10	02	55	pi2 AC	-	10	06	05	pi2 LM	-	10	11	25	pi2 PP	-
10	11	54	pi2 LM	-	10	13	50	b TR	-	10	21	00	bp TF	-	10	21	36	pi2 BA	-
10	21	..	bp KV	-	11	00	..	bp KV	-	11	02	28	si KN	-	11	05	27	pi2 LM	-

TABLE 4 MINOR DISTURBANCES 1967 - continued

(MAY)

d	h	m		d	h	m		d	h	m		d	h	m					
11	11	12	sfe TN?	-	11	11	30	pi2 CO	-	11	19	..	bp KV	-	11	22	..	bp KV	-
12	03	18	pi2 HU	-	12	03	50	pi2 TU	-	12	03	..	bp KV	-	12	04	30	bp VI	-
12	10	18	pg SM	-	12	13	48	pc4 FR	-	12	15	20	pi2 AG	-	12	16	02	pi2 TF	-
12	18	08	pi2 MT	-	12	19	..	bp KV	-	12	21	54	bp EB	-	12	22	..	bp KV	-
13	01	37	si HL	-	13	02	04	bp TC	-	13	02	18	bp KV	-	13	03	..	bp KV	-
13	04	58	bp VI	-	13	11	35	pi2 SI	-	13	15	52	pi2 TK	-	13	16	03	pi2 TF	-
13	19	10	pi2 BA	-	13	21	..	bp KV	-	13	22	..	bp KV	-	14	01	12	pi2 AC	-
14	03	51	pi2 AC	-	14	14	09	pi2 MT	-	14	17	06	pi2 TK	-	14	18	..	bp KV	-
14	20	..	bp KV	-	15	01	27	bp TC	-	15	02	50	bs AC	-	15	16	01	pi2 TF	-
15	19	..	bp KV	-	15	23	..	bp KV	-	16	18	09	pi2 TF	-	16	18	30	pi2 TK	-
16	20	39	pi2 TK	-	16	20	..	bp KV	-	17	00	00	bp LZ	-	17	01	..	bp KV	-
17	10	00	pi2 SI	-	17	10	17	pi2 HO	-	17	15	41	pi2 TF	-	17	16	33	pi2 TK	-
17	21	07	ssc SO	-	17	22	16	pi2 BA	-	17	22	45	pi2 CF	-	17	23	..	bp KV	-
18	02	23	pi2 AC	-	18	20	15	bp TF	-	19	01	55	bp SW	-	19	01	..	bp KV	-
19	03	25	bs HU	-	19	16	42	pi2 TK	-	19	22	28	pi2 OD	-	20	00	50	bp TW	-
20	00	38	pi2 LM	-	20	06	59	pi2 PP	-	20	19	00	pi2 OD	-	20	19	..	pc4 SI	-
20	20	..	bp KV	-	20	21	..	bp KV	-	20	22	45	bp TF	-	21	00	50	bp VL	-
21	13	05	si AE	-	21	17	05	pi2 TF	-	21	18	12	pi2 TK	-	21	19	06	pi2 TK	-
21	19	..	bp KV	-	21	20	48	pi2 BA	-	21	20	..	bp KV	-	22	00	..	bp KV	-
22	03	28	pi2 LM	-	22	04	45	pc4 AC	-	22	06	10	si VL	-	22	07	22	pi2 LM	-
22	22	32	pc4 NI	-	23	02	00	pi2 MG	-	23	02	27	ssc TF	-	23	04	38	pi2 BA	-
23	05	06	pc4 TE	-	23	06	06	pi2 MG	-	23	13	04	ssc AK	-	23	14	48	pi2 TK	-
23	17	..	pc4 PP	-	23	22	01	si AE	-	23	22	..	bp KV	-	24	05	03	pc4 LM	-
24	06	51	pc4 TE	-	24	17	45	ssc AK	-	24	19	17	pi2 LM	-	24	20	..	bp KV	-
24	21	05	pi2 BA	-	25	04	..	bp KV	-	25	16	21	ssc TF	-	25	17	00	bps IR	-
25	18	..	bp KV	-	25	19	37	si TE	-	25	21	30	bps IR	-	25	22	45	si TE	-
26	02	19	si CF	-	26	06	18	si TE	-	26	08	39	si TE	-	26	10	37	bps IR	-
26	11	52	si LE	-	26	12	12	si OD	-	26	13	40	bps IR	-	26	17	27	si OD	-
26	20	46	si TE	-	26	20	..	bp KV	-	26	21	..	bp KV	-	27	00	..	bp KV	-
27	06	44	bp AM	-	27	17	56	ssc SO	-	27	18	13	pi2 BA	-	27	18	..	bp KV	-
27	20	03	ssc TE	-	27	20	..	bp KV	-	27	21	35	pi2 BA	-	27	22	10	bp CF	-
27	22	42	pi2 BA	-	27	22	..	bp KV	-	28	03	11	ssc GU	-	28	03	24	si TE	-
28	05	48	ssc IR	-	28	14	23	si BI	-	28	17	57	si NI	-	28	22	27	bps IR	-
28	23	..	bp KV	-	29	00	30	b UB	-	29	07	51	si TE	-	29	10	12	bs IR	-
29	11	32	bs IR	-	29	12	00	bp KN	-	29	12	17	si LE	-	29	12	..	bp KV	-
29	14	26	ssc CI	-	29	19	06	si TE	-	29	22	08	pi2 BA	-	29	22	..	bp KV	-
30	06	10	ssc IR	-	30	06	49	si BE	-	30	15	32	bps IR	-	30	16	10	si SF	-
30	18	45	ssc SO	-	30	19	15	pi2 AG	-	30	20	39	si TE	-	30	22	47	si TE	-
30	23	11	si SF	-	31	01	00	si LE	-	31	07	..	pc5 SI	-	31	10	30	bps IR	-
31	16	..	bp KV	-	31	17	10	si CF	-										

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01	02	46	pc4 AC	-	01	11	34	cr MB	-	01	18	37	si MB	-	01	23	45	pi2 MB	-
02	00	00	pc4 AC	-	02	01	00	si HL	-	02	01	20	pi2 MB	-	02	02	00	pi2 MB	-
02	04	23	ssc HB?	-	02	09	24	pi2 PP	-	02	15	45	si MB	-	02	15	..	bp KV	-
02	16	48	pc4 FR	-	02	18	00	pi2 OD	-	02	18	37	bp LM	-	03	04	22	pi2 MG	-
03	04	..	bp KV	-	03	18	..	bp KV	-	04	00	56	bp CF	-	04	00	..	bp KV	-
04	01	30	pi2 MB	-	04	13	..	bp KV	-	04	20	17	si OD	-	04	20	36	bp BI	-
04	22	..	bp KV	-	04	23	20	pi2 MB	-	04	23	32	pi2 IK	-	05	01	57	pi2 MB	-
05	18	20	si LG	-	06	00	15	bp CF	-	06	00	45	si TE	-	06	03	15	pc5 CO	-
06	10	09	si OD	-	06	11	..	pc4+pc5PP	-	06	13	24	ssc TF	-	06	13	..	bp KV	-
06	17	30	pc4 SI	-	06	19	45	si SO	-	07	00	00	pc4+pc5PP	-	07	00	30	pi2 MB	-
07	02	15	pc5 SI	-	07	20	..	pc4 SI	-	08	00	00	pi2 MG	-	08	00	59	b BI	-
08	02	42	pi2 MG	-	08	04	26	pc5 ES	-	08	05	24	pc4 PP	-	08	10	15	si HL	-
08	13	48	pi2 MG	-	08	15	..	pc4+pc5PP	-	08	20	56	bs HL	-	09	01	35	pi2 TW	-
09	02	00	pi2 TW	-	09	03	00	pi2 LM	-	09	04	45	pi2 LM	-	09	05	35	pi2 TU	-
09	12	12	pi2 BA	-	09	19	30	b TA	-	09	23	..	bp KV	-	10	00	45	pi2 AC	-
10	02	05	pi2 MA	-	10	12	51	pc4 FR	-	10	22	34	b SF	-	11	07	04	pi2 PP	-
11	14	19	pi2 TK	-	11	19	..	bp KV	-	12	01	45	bp ES	-	12	05	25	pc4 LM	-
12	06	04	pc4 TE	-	12	07	28	pi2 BA	-	12	20	18	pi2 BA	-	12	20	48	pi2 BA	-
12	21	51	si TR	-	13	00	30	b MB	-	13	03	16	pi2 BA	-	13	04	14	pi2 BA	-
13	07	20	si HL	-	13	10	52	ssc SU	-	13	11	35	pi2 KS	-	13	13	..	bp KV	-
13	14	18	pi2 TK	-	13	19	40	pi2 HU	-	13	21	00	pi2 LM	-	14	03	21	bp LU	-
14	05	54	pi2 KS	-	14	07	35	bp AC	-	14	07	..	bp KV	-	14	09	44	b IR	-

TABLE4 MINOR DISTURBANCES 1967 - continued

(JUNE)

d	h	m		d	h	m		d	h	m		d	h	m					
14	10	56	pi2 MT	-	14	13	03	b IR	-	14	13	45	b MB	-	14	14	..	bp KV	-
14	19	00	pi2 KS	-	14	20	36	pi2 PP	-	15	00	55	bp SM	-	15	01	..	bp KV	-
15	03	30	pc4 LM	-	15	15	06	pi2 MG	-	15	20	25	pi2 SI	-	15	21	..	pc4 KY	-
16	00	12	pi2 BI	-	16	01	10	pi2 AC	-	16	03	10	pi2 BA	-	16	04	09	pi2 BA	-
16	05	37	pc4 LM	-	16	06	32	ssc BA	-	16	09	49	pi2 HO	-	16	16	46	pi2 KN	-
16	21	01	pi2 OD	-	17	00	09	bp TF	-	17	00	47	pi2 BI	-	17	04	26	pi2 AC	-
17	08	00	si HL	-	17	09	33	ssc TF	-	17	17	..	bp KV	-	17	19	10	pi2 BA	-
18	05	19	pc4 AC	-	18	12	00	pi2 HU	-	19	02	41	pi2 BA	-	19	03	18	pi2 AC	-
19	04	08	pi2 BA	-	19	06	02	pi2 LM	-	19	11	09	pc4 LM	-	19	14	..	bp KV	-
19	15	..	pc4 SI	-	19	16	..	bp KV	-	19	19	42	bp KN	-	20	00	44	pi2 BA	-
20	02	10	pi2 BA	-	20	07	23	ssc SO	-	20	10	10	pi2 PP	-	20	15	..	pc4 AC	-
20	15	..	pc5 SI	-	20	19	..	pc4 SI	-	21	00	58	pi2 BA	-	21	01	39	pi2 AC	-
21	02	06	pi2 BA	-	21	16	..	pc5 SI	-	21	18	14	pg ME	-	21	22	46	pi2 BA	-
22	00	25	pi2 BA	-	22	03	52	pi2 BA	-	22	05	39	pc4+pi2AC	-	22	06	21	pi2 SM	-
22	07	45	ssc MC	-	22	10	50	si UB	-	22	15	..	pc5 SI	-	23	01	13	pi2 BA	-
23	01	49	pc5+pi2AC	-	23	22	27	pi2 BA	-	23	23	02	pi2 BA	-	24	01	55	bp MC	-
24	08	35	pi2 LM	-	24	17	..	pc4 PP	-	24	18	..	pc4 SI	-	24	05	06	pi2 BA	-
25	05	18	ssc TE	-	25	06	08	pc4 AC	-	25	13	..	bp KV	-	25	13	..	pc5 SI	-
25	15	36	ssc TF	-	25	18	39	ssc SO	-	25	20	36	bs IR	-	26	00	..	bp KV	-
26	01	40	bp ES	-	26	02	26	pi2 AC	-	26	04	10	pc5 ES	-	26	05	23	bps TE	-
26	09	32	ssc TF	-	26	10	00	bp PP	-	26	12	13	pi2 TF	-	27	05	11	bps TE	-
27	09	30	bp LZ	-	27	11	..	bp KV	-	27	20	..	bp KV	-	27	23	00	bp LZ	-
28	08	43	pi2 LM	-	28	11	00	bpd UB	-	28	14	30	bp HL	-	28	17	54	bp TF	-
28	18	38	bp OD	-	28	20	..	bp KV	-	29	04	44	pi2 AC	-	29	09	00	pc4 TF	-
29	16	..	bp KV	-	29	23	00	bp LZ	-	30	10	..	b PP	-	30	12	23	cr MB	-
30	12	..	bp KV	-	30	18	..	bp KV	-	30	23	14	pi2 BA	-	30	23	30	pg BI	-
30	23	..	bp KV	-															

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01	16	30	pi2 AQ	-	01	16	55	pi2 LM	-	01	21	14	ssc ME	-	02	00	..	b KV	-
02	05	18	si TE	-	02	06	17	pi2 LM	-	02	18	36	pc4 FR	-	02	21	30	pc4 SI	-
02	22	30	pi2 FR	-	03	02	48	pi2 BA	-	03	23	18	pi2 TE	-	04	08	40	bp ME	-
04	09	25	pc4 ME	-	04	17	40	pi2 KN	-	04	18	00	pi2 QU	-	04	23	00	b ME	-
05	00	30	b SM	-	05	01	25	pi2 BI	-	05	12	00	bp LZ	-	05	13	02	pi2 BI	-
05	13	35	pg ES	-	05	20	19	si TR	-	05	20	50	pi2 BA	-	05	21	15	b SU	-
05	22	09	bp SM	-	05	22	..	bp KV	-	06	02	15	b TC	-	06	12	00	bp LZ	-
06	12	..	pc4 PP	-	06	13	00	b ME	-	06	14	10	bp MA	-	06	14	44	b HL	-
06	20	05	ssc ME	-	06	20	..	pc4 PP	-	06	22	57	b SW	-	07	06	16	si HL	-
07	07	55	pi2 LM	-	07	08	15	pi2 ME	-	07	14	40	si MB	-	07	14	..	bp KV	-
07	16	04	pi2 OD	-	07	16	21	pi2 LM	-	07	17	23	si MB	-	07	18	--	pc4 PP?	-
07	22	49	pi2 OD	-	08	03	01	pi2 LM	-	08	03	14	pi2 BA	-	08	03	42	pc4 LM	-
08	10	45	pi2 PP	-	08	17	45	pc4 FR	-	09	04	39	si BE	-	09	05	07	pc4 LM	-
09	06	22	si HL	-	09	13	40	pi2 TK	-	10	12	03	pi2 HO	-	10	14	14	pc4 HO	-
10	20	..	bp KV	-	11	01	39	bp PE	-	11	01	..	bp KV	-	11	05	25	pi2 LM	-
11	08	13	si BA	-	11	13	..	bp KV	-	11	14	09	si LE	-	11	14	45	ssc GU	-
11	16	02	pi2 BI	-	11	18	..	pc5 SI	-	11	19	20	pc4 SI	-	11	20	00	pi2 BA	-
11	21	..	bp KV	-	11	23	10	pi2 BA	-	12	00	02	pi2 BA	-	12	01	39	pc4 LM	-
12	02	10	pi2 TW	-	12	03	14	pc4 TE	-	12	07	06	bp MG	-	12	07	50	pc4 TF	-
12	09	55	si OD	-	12	13	00	pc4+pi2FR	-	12	14	45	pi2 BI	-	12	16	25	bp BI	-
12	20	00	pi2 OD	-	12	21	50	pi2 PE	-	12	22	20	pi2 BA	-	13	00	14	pi2 BA	-
13	00	37	bp BI	-	13	07	15	pi2 PP	-	13	18	08	ssc BA?	-	13	20	..	bp KV	-
13	23	..	bp KV	-	14	02	00	pi2 MG	-	14	10	38	pc4 LM	-	14	12	46	pi2 BI	-
14	20	11	pi2 OD	-	15	02	54	si ME	-	15	05	10	pi2 LM	-	15	18	27	pg BI	-
16	05	20	pc4 LM	-	16	19	30	pi2 SU	-	17	00	40	pi2 ES	-	17	01	01	pi2 AC	-
17	01	12	pi2 HU	-	17	05	50	pi2 LM	-	17	17	..	pc4 PP	-	17	18	50	pi2 BI	-
17	19	..	bp KV	-	17	21	17	bp CF	-	17	22	11	pi2 HU	-	18	05	50	ssc ME	-
18	08	30	pi2 PP	-	18	13	..	bp KV	-	18	17	21	pc4 FR	-	18	19	12	pi2 BA	-
18	23	48	pi2 BA	-	19	01	13	pc4 LM	-	19	02	..	pc4 AC	-	19	04	00	pi2 UB	-
19	11	00	pi2 FR	-	19	12	00	pi2 HU	-	19	12	26	pi2 BI	-	19	13	32	si HL	-
19	17	44	pi2 BA	-	19	18	50	pi2 BA	-	19	22	16	pi2 BA	-	19	23	24	pi2 BA	-
20	02	27	pi2 LM	-	20	08	02	pi2 LM	-	20	12	..	pc4 SI	-	20	12	35	pi2 HO	-
20	13	10	pi2 HO	-	20	17	51	si HB?	-	21	00	38	pi2 BA	-	21	03	32	pi2 BA	-
21	05	02	pi2 LM	-	21	05	36	pc4 TW	-	21	08	49	pi2 PP	-	21	12	33	pi2 CO	-
21	14	20	pi2 TO	-	21	18	50	b ME	-	21	23	19	pi2 SM	-	22	12	..	pc4 PP	-

TABLE 4 MINOR DISTURBANCES 1967 - continued

(JULY)

d	h	m		d	h	m		d	h	m		d	h	m					
22	14	10	pc4 CO	-	22	18	..	pc4 SI	-	22	22	22	pc4 TE	-	23	00	00	pc4 PP	-
23	04	05	pc4 LM	-	23	11	47	pi2 LM	-	23	14	40	pi2 BI	-	23	18	..	pc4 PP	-
23	20	42	bp IR	-	23	20	..	pc4 SI	-	23	21	00	bp BI	-	23	21	..	bp KV	-
23	22	21	pi2 LM	-	23	22	43	pi2 AC	-	24	00	00	pc4 PP	-	24	03	11	pi2 LM	-
24	09	57	si AK	-	24	10	..	pc4 AC	-	24	12	00	pi2 FR	-	24	12	24	pc4 TE	-
24	18	27	bps OD	-	24	19	..	bp KV	-	25	01	34	pi2 AC	-	25	01	46	bp HU	-
25	03	41	pc4 LM	-	25	12	10	si MB	-	25	17	37	bp KN	-	25	18	..	bp KV	-
25	20	16	pi2 BA	-	25	23	55	bp BI	-	26	01	51	pi2 BI	-	26	01	30	pc4 LM	-
26	02	05	bp BI	-	26	08	10	pi2 SI	-	26	11	07	pi2 LM	-	26	18	34	pi2 OD	-
27	10	07	bps AP	-	27	11	29	pi2 HO	-	27	14	05	si MB	-	27	20	..	bp KV	-
28	05	38	pi2 AC	-	28	07	28	ssc QU	-	28	07	..	b PP?	-	28	11	29	si LG	-
28	11	57	ssc MA	-	28	12	11	si OD	-	28	12	27	ssc HB?	-	28	14	..	pc4 PP	-
28	15	23	si MO	-	28	15	46	si MO	-	28	17	03	si TE	-	28	17	25	b IR	-
28	23	43	ssc VI	-	29	00	..	pc4 SI	-	29	02	53	si OD	-	29	04	27	si KN	-
29	11	30	si MB	-	29	18	02	b TC	-	30	01	08	pc4 LM	-	30	04	24	bs IR	-
30	17	51	pi2 TE	-	30	21	19	pi2 TE	-	30	22	43	pi2 TE	-					

AUGUST

01	01	17	ssc UB	-	01	12	..	bbp KV	-	01	18	..	bp KV	-	01	22	25	pi2 BI	-
02	10	30	pi2 BI	-	02	11	..	bp KV	-	02	21	08	bp SM	-	03	07	01	ssc MA	-
03	13	02	pi2 LM	-	03	16	12	pi2 MG	-	04	02	30	pi2 BI	-	04	05	54	ssc LU	-
04	08	54	si NU	-	04	11	12	ssc PB	-	04	14	09	b ES	-	04	16	28	pg KN	-
05	14	21	bp AM	-	05	18	27	pi2 TF	-	05	19	30	pc4 SI	-	05	23	11	bp SM	-
06	02	25	pi2 BI	-	06	09	28	bps AM	-	07	00	..	bp KV	-	07	01	..	bp KV	-
07	07	08	pi2 LM	-	07	08	43	pi2 AC	-	07	17	22	pi2 OD	-	07	17	35	pi2 TK	-
07	20	..	bp KV	-	08	05	19	pc4 LM	-	08	06	15	pi2 PP	-	08	06	30	pi2 TU	-
08	08	07	pg BI	-	08	10	50	pi2 BI	-	08	10	..	bp KV	-	08	13	42	pi2 MG	-
08	13	54	bp TO	-	08	15	00	pi2 MG	-	08	16	48	pi2 MG	-	08	17	..	bp KV	-
08	23	..	bp KV	-	09	01	..	bp KV	-	09	02	32	pi2 BI	-	09	09	20	bp PP	-
09	15	..	bp KV	-	09	16	00	bp BI	-	09	20	20	pc4 FR	-	09	20	57	bs KS	-
10	14	28	bp HL	-	10	20	..	bp KV	-	10	23	00	si ME	-	11	01	16	si ME	-
11	01	38	pc4 AC	-	11	05	26	pi2 LM	-	11	12	16	si TE	-	11	15	18	si LE	-
11	15	..	bp KV	-	11	17	05	bp SU	-	11	21	..	bp KV	-	11	22	..	bp KV	-
12	02	45	pc4 CO	-	12	03	00	pi2 UB	-	12	03	29	pi2 BI	-	12	05	40	pc4 LM	-
12	06	00	pi2 UB	-	12	06	15	pi2 BI	-	12	06	33	pc4 AC	-	12	09	23	pi2 LM	-
12	10	00	pi2 BI	-	12	12	09	pi2 LM	-	12	12	30	pc4 FR	-	12	17	36	pi2 AG	-
12	18	..	pc4 CO	-	12	21	40	pc4 CO	-	12	23	15	pi2 BI	-	13	00	40	pi2 AC	-
13	13	30	pc4 FR	-	13	18	10	pi2 ME	-	13	19	38	si TR	-	13	21	35	bp BI	-
13	21	54	bp MC	-	14	06	20	si ME	-	14	11	52	si BE	-	14	21	12	bp BI	-
14	21	..	bp KV	-	15	00	19	bp BI	-	15	00	..	bp KV	-	15	03	48	pi2 BI	-
15	08	55	pc4 FR	-	15	09	20	pc4 SI	-	15	11	24	si LU	-	15	12	03	pi2 MG	-
15	13	42	pi2 MG	-	15	20	10	pi2 BI	-	15	20	35	pi2 AQ	-	15	21	09	ssc TR	-
15	21	20	pc4 SI	-	16	01	51	pi2 BI	-	16	06	29	pi2 PP	-	16	08	58	bp AP	-
16	10	..	pc4 SI	-	16	11	20	pc5 ES	-	16	11	38	pi2 AM	-	16	13	26	ssc BI	-
16	20	..	bp KV	-	17	07	09	si VL	-	17	10	00	pc4 FR	-	17	12	..	bp KV	-
17	16	26	bp BI	-	17	16	..	bp KV	-	17	16	..	pc4 KV	-	17	20	31	pi2 AQ	-
17	22	48	pi2 LM	-	18	00	53	b AC	-	18	06	52	bps AP	-	18	13	35	pc4 FR	-
18	13	..	b KV	-	18	16	..	pc5 SI	-	18	18	..	b KV	-	19	00	30	bp SM	-
19	04	39	pc4 LM	-	19	08	33	sfe MC?	-	19	14	00	bp UB	-	19	17	..	pc5 SI	-
19	19	30	si TR	-	19	19	..	pc4 SI	-	19	22	55	pi2 LM	-	19	23	16	pi2 BA	-
20	00	18	pi2 BA	-	20	00	..	bp KV	-	20	03	48	pi2 LM	-	20	05	39	pi2 PP	-
20	10	06	pi2 MT	-	20	10	24	bps PP	-	20	12	15	pc4 FR	-	20	13	34	pi2 LM	-
20	13	48	bp MG	-	20	16	56	bps SO	-	20	17	..	bp KV	-	20	21	14	bp VL	-
20	22	..	bp KV	-	21	02	00	pc4 AM	-	21	03	27	pc4 AC	-	21	16	25	pi2 ME	-
21	17	21	bp TF	-	21	23	32	pi2 BI	-	22	00	20	bp MC	-	22	00	34	bp SM	-
22	04	43	pi2 LM	-	22	04	58	pi2 BA	-	22	10	13	pi2 BI	-	22	10	26	pi2 LM	-
22	14	03	pi2 BI	-	22	16	21	pi2 TF	-	22	20	00	pi2 ME	-	22	22	45	pi2 AQ	-
23	01	..	bp KV	-	23	07	28	pi2 LM	-	23	19	21	bp TF	-	23	21	26	pi2 BA	-
24	09	28	pi2 BA	-	24	10	00	pc4 FR	-	24	11	53	b PP	-	24	13	20	pi2 BI	-
24	20	..	bp KV	-	24	23	..	bp KV	-	25	08	01	bp AP	-	25	12	..	bp KV	-
25	15	52	pi2 KN	-	25	19	30	pi2 TF	-	25	19	..	pc4 SI	-	25	22	30	bp LZ	-
26	00	03	pi2 BA	-	26	05	36	pc4 LM	-	26	06	10	pi2 ME	-	26	10	40	pi2 BI	-
26	10	..	pc4 SI	-	26	18	00	bp TF	-	26	18	..	pc4 SI	-	26	20	12	bp BE	-
26	21	20	si ME	-	27	01	22	pi2 BA	-	27	01	33	pc4 LM	-	27	01	55	pi2 EB	-

TABLE 4 MINOR DISTURBANCES 1067 - continued

(AUGUST)

d	h	m		d	h	m		d	h	m		d	h	m					
27	11	..	bp KV	-	27	12	40	pc4 FR	-	27	21	31	pi2 BA	-	27	22	25	b AE	-
27	22	38	pi2 BA	-	28	00	15	bps LM	-	28	00	33	pi2 BA	-	28	03	39	pi2 AC	-
28	10	30	pi2 SI	-	28	11	30	pi2 BI	-	28	17	..	bp KV	-	28	18	..	bp KV	-
29	00	..	bp KV	-	29	04	42	pi2 LM	-	29	07	03	pi2 LM	-	29	08	30	pi2 BI	-
29	20	54	bp BI	-	29	22	..	bp KB	-	30	05	29	bp TA	-	30	11	00	pc4 FR	-
30	12	42	bp MG	-	30	13	..	pc5 SI	-	30	17	54	pi2 BA	-	30	19	15	bp SU	-
30	19	30	pi2 ME	-	30	21	40	bps LG	-	30	21	..	bp KV	-	31	01	50	pi2 TW	-
31	07	48	bps TE	-	31	08	25	ssc BA	-	31	13	00	pc4 FR	-	31	16	29	pi2 AC	-
31	23	..	bp KV	-															

SEPTEMBER

01	04	27	pc4 LM	-	01	04	59	bp WN	-	01	05	25	b MB	-	01	06	06	bps PP	-
01	12	03	b TR	-	01	12	30	bp LZ	-	01	14	..	bp KV	-	01	18	27	bp BI	-
01	19	..	bp KV	-	01	22	..	bp KV	-	01	23	51	bp SU	-	02	00	..	bp KV	-
02	03	58	pc4 LM	-	02	05	36	si HB	-	02	09	54	b IR	-	02	13	32	pi2 LM	-
02	13	54	pi2 BI	-	02	16	50	b HR	-	02	17	..	bp KV	-	02	20	12	pi2 OD	-
03	08	00	pi2 UB	-	03	10	15	pi2 BI	-	03	12	00	pc4 FR	-	03	15	37	pi2 LM	-
03	16	10	pi2 BI	-	03	22	..	bp KV	-	04	03	07	bp SM	-	04	04	40	pc4 PP	-
04	07	40	pi2 PP	-	04	08	08	bp PP	-	04	12	01	pi2 LM	-	04	12	22	pc4 HO	-
04	13	03	pi2 BI	-	04	15	15	si HL	-	05	01	12	pc4 LM	-	05	06	40	pi2+pc4PP	-
05	12	45	pi2 LM	-	06	02	44	bp EB	-	06	04	45	pc4 AC	-	06	04	..	bp KV	-
06	18	00	pi2 BI	-	06	18	..	bp KV	-	06	20	00	pi2 BI	-	06	23	20	pi2 BI	-
07	02	50	pc5 BI	-	07	05	22	bs SF	-	07	06	00	si HL	-	07	10	25	pi2 BI	-
07	12	42	ssc HL	-	07	14	..	pc4 PP	-	07	15	55	si OD	-	07	16	..	bp KV	-
07	17	09	pi2 LM	-	07	17	24	si SO	-	07	20	04	pi2 LM	-	08	07	00	pi2+pc4PP	-
08	09	46	si OD	-	08	18	54	bp LM	-	08	20	..	bp KV	-	09	00	41	b SF	-
09	07	40	pc4 PP	-	09	10	50	pi2 BI	-	09	11	51	b TR	-	09	19	02	bp MC	-
09	19	18	bs KS	-	09	20	..	bp KV	-	10	07	24	pi2 PP	-	10	08	15	pi2 BI	-
11	08	08	si HL	-	11	09	24	sfe MC?	-	11	10	40	sfe MC?	-	11	16	55	pc4 FR	-
11	17	10	pi2 BI	-	11	21	10	pc4 PP	-	11	21	33	pi2 BI	-	12	14	20	pc4 SI	-
13	08	02	si TE	-	13	17	03	pi2 TE	-	13	17	..	bp KV	-	13	19	..	bp KV	-
14	04	10	pi2 BI	-	14	09	43	pi2 HO	-	14	11	53	bp AP	-	14	13	05	pc5 LE	-
14	14	44	bps IR	-	14	16	12	pi2 LM	-	14	18	..	bp KV	-	14	19	..	bp KV	-
14	21	..	bp KV	-	14	23	15	pc4 BI	-	15	02	09	pc4 LM	-	15	05	..	b PP	-
15	06	30	b MB	-	15	15	40	pi2 LM	-	15	21	..	bp KV	-	16	00	00	pc4 SI	-
16	00	56	pi2 HU	-	16	00	..	bp KV	-	16	01	10	pi2 MB	-	16	05	05	pi2 TU	-
16	06	03	pi2 LM	-	16	07	08	pi2 MG	-	16	09	17	pc4 LM	-	16	10	00	pi2 BI	-
16	13	38	pc4 BI	-	16	15	12	pi2 MG	-	16	18	..	bp KV	-	16	18	..	pc4 SI	-
16	21	36	pi2 BI	-	17	02	24	si HL	-	17	04	12	pc4 LM	-	17	06	56	si HL	-
17	12	42	pi2 LM	-	17	13	15	pi2 BI	-	17	15	00	pc4 FR	-	17	17	52	pi2 LM	-
17	18	..	bp KV	-	18	07	08	si HL	-	18	09	44	si ES	-	18	10	47	pi2 HO	-
18	18	..	bp KV	-	18	19	..	bp KV	-	18	23	54	pi2 TW	-	18	23	..	bp KV	-
19	00	10	pi2 AC	-	19	01	..	bp KV	-	19	02	56	bp TC	-	19	05	40	pi2 TW	-
19	08	06	b MG	-	19	08	19	b PP	-	19	17	..	bp KV	-	19	18	..	bp KV	-
19	19	30	bp LZ	-	19	20	22	si TE	-	19	20	..	pc4 SI	-	19	21	10	si TE	-
19	23	..	bp KV	-	20	01	..	bp KV	-	20	02	10	ssc IR	-	20	03	..	bp KV	-
20	04	15	si TE	-	20	06	55	pi2 TU	-	20	07	06	pc4 TE	-	20	07	51	si TE	-
20	08	12	ssc PB	-	20	11	24	b IR	-	20	13	55	bps MO	-	20	14	25	b IR	-
20	14	..	bp KV	-	20	15	..	pc4 PP	-	20	16	14	pi2 HO	-	20	17	51	si AC	-
20	19	42	pi2 MG	-	20	21	42	si KN	-	21	03	19	si TE	-	21	03	..	b KV	-
21	04	43	si TE	-	21	04	54	pc4 BI	-	21	07	00	pi2 SJ	-	21	10	36	pi2+pc4FR	-
21	10	51	bp IR	-	21	11	32	bp IR	-	21	13	42	b IR	-	21	15	25	pi2 BI	-
21	15	..	bp KV	-	21	17	12	bs IR	-	21	17	..	bp KV	-	21	18	..	pc4 SI	-
21	19	02	bs KS	-	22	00	..	pc5 SI	-	22	09	12	si KS	-	22	17	37	si LM	-
22	17	56	pc4 PP	-	22	19	..	bp KV	-	23	04	08	pi2 LM	-	23	07	25	pc4 LM	-
23	10	15	ssc PB	-	23	12	..	bp KV	-	23	13	20	pi2 MG	-	23	16	..	pc5 ES	-
23	19	06	pi2 TF	-	24	03	50	pi2 PP	-	24	04	..	pc5 CO	-	24	17	00	b SU	-
24	17	..	bp KV	-	24	20	05	bp OD	-	24	21	..	bp KV	-	24	24	30	bp BI	-
25	06	20	pi2 PP	-	25	09	00	pc4 LE	-	25	09	40	pc4 BI	-	25	18	09	pi2 TF	-
25	22	45	b TN	-	25	23	..	pc5 CO	-	25	23	..	bp KV	-	26	22	10	b TN	-
27	00	15	bp TF	-	27	04	04	pi2 LM	-	27	17	21	bp TF	-	27	20	..	pc4 CO	-
27	22	56	ssc QR	-	28	02	28	bp SM	-	28	03	07	si TE	-	28	04	54	ssc TF	-
28	04	..	si HR?	-	28	06	42	pg LE	-	28	06	54	ssc SO	-	28	11	..	bp KV	-
28	14	00	pi2+pc4FR	-	28	17	00	ssc SO	-	28	17	..	pc4+pc5PP	-	28	18	..	bp KV	-

TABLE 4 MINOR DISTURBANCES 1967 - continued

(SEPTEMBER)

d	h	m		d	h	m		d	h	m		d	h	m					
28	20	00	bp MA	-	29	00	31	pi2 AC	-	29	01	..	bp KV	-	29	07	00	si PP	-
29	08	24	si CF	-	29	08	36	si PP	-	29	09	..	bp KV	-	29	14	35	bps MO	-
29	15	..	bp KV	-	29	15	..	pc4 PP	-	29	21	33	si LG	-	29	21	55	bp CF	-
29	21	..	bp KV	-	29	23	..	bp KV	-	30	00	58	si LG	-	30	02	..	bp KV	-
30	05	32	ssc TF	-	30	05	51	si TE	-	30	08	25	pi2 BI	-	30	09	00	ssc PB	-
30	10	28	si AK	-	30	12	01	bps IR	-	30	12	14	bp QU	-	30	12	..	bp KV	-
30	13	..	bp KV	-	30	15	15	b NI	-	30	15	35	b HR	-	30	15	..	pc4 PP	-
30	17	..	pc5 SI	-	30	19	10	pi2 LM	-										

OCTOBER

01	00	11	pi2 AC	-	01	01	55	pi2 AC	-	01	03	55	pc4 LM	-	01	04	50	pi2 AC	-
01	12	40	pi2 BI	-	01	13	40	pc4 FR	-	02	00	41	pi2 BI	-	02	03	35	si LG	-
02	06	42	bp PP	-	02	08	50	bp PP	-	02	09	03	bp PP	-	02	14	44	pi2 BI	-
02	16	05	pc4 FR	-	02	18	48	b MG	-	02	19	..	bp KV	-	03	02	35	pi2 LM	-
03	04	03	pi2 AC	-	03	04	53	pi2 HU	-	03	20	48	b IR	-	03	20	..	bp KV	-
03	21	36	pc4 TE	-	04	09	35	pi2 BI	-	04	11	00	pi2 BI	-	04	21	22	bp TN	-
05	08	15	sfe MC?	-	05	13	50	pi2 BI	-	05	14	10	pi2 GN	-	05	15	00	bp OD	-
05	15	12	bp MG	-	05	18	..	bp KV	-	05	20	45	pc4 PP	-	05	22	..	bp KV	-
06	01	00	pc4 CI	-	06	04	50	bp HU	-	06	10	01	sfe LE?	-	06	13	47	pi2 BI	-
07	00	..	bp KV	-	07	02	..	bp KV	-	07	13	00	pi2 GN	-	07	13	24	pi2 MG	-
07	16	12	si HB	-	07	19	36	pi2 TK	-	07	21	..	bp KV	-	08	04	38	pc5 TE	-
08	08	20	ssc BA?	-	08	12	..	bp KV	-	08	12	44	bp TO	-	08	13	00	bps MG	-
08	19	24	ssc SO	-	08	22	..	bp KV	-	08	23	46	pc4 TE	-	09	03	21	si BE	-
09	08	44	pi2 PP	-	09	12	24	pc4 TE	-	09	14	00	si TL	-	09	17	..	bp KV	-
09	18	30	pc4 PP	-	09	20	..	bp KV	-	09	21	11	bp HB	-	09	22	25	pc4 SI	-
09	22	..	bp KV	-	10	00	..	bp KV	-	10	04	00	si HB?	-	10	08	00	pc5 FR	-
10	10	45	pc4 FR	-	10	12	15	pc4 BI	-	10	13	52	ssc SO	-	10	18	25	bp MC	-
10	18	..	bp KV	-	10	19	40	pi2 BI	-	10	20	..	bp KV	-	10	21	..	bp KV	-
10	22	..	bp KV	-	11	05	40	si HL	-	11	13	13	ssc MA	-	11	14	00	b MG	-
11	18	46	si HL	-	11	19	..	bp KV	-	12	00	00	bp LZ	-	12	08	18	b SW	-
12	11	14	pg BI	-	12	15	42	b NI	-	12	16	30	bp MG	-	12	21	..	bp KV	-
12	23	00	bp LZ	-	13	00	45	bp MA	-	13	09	32	ssc SU	-	13	11	30	pi2 SI	-
13	12	13	pi2 BI	-	13	13	45	pi2 BI	-	13	16	..	pc4 AC	-	13	17	50	pc4 SI	-
13	20	55	bp MC	-	13	21	..	bp KV	-	13	23	31	bps NI	-	13	23	42	bp KN	-
13	23	..	bp KV	-	14	02	02	pi2 AC	-	14	02	38	pi2+pc4TW	-	14	04	28	si HL	-
14	06	15	pi2 PP	-	14	13	08	pc4 LM	-	14	15	37	pi2 BI	-	14	16	33	pi2 BI	-
14	19	45	b MB	-	14	21	..	bp KV	-	14	22	..	bp KV	-	14	23	..	bp KV	-
15	02	..	bp KV	-	15	23	34	pi2 BI	-	15	23	..	bp KV	-	16	00	..	bp KV	-
16	01	30	pi2 LM	-	16	12	30	pi2 MG	-	16	17	00	pc4 MG	-	16	17	20	pi2 SM	-
16	18	..	bp KV	-	16	20	45	bps SO	-	16	21	50	pc4 QU	-	16	22	..	bp KV	-
16	23	38	pc4 LM	-	17	04	38	pi2 AC	-	17	05	56	pi2 AC	-	17	16	30	bp TF	-
17	18	..	pc5 SI	-	17	19	22	b MG	-	17	20	..	bp KV	-	17	22	54	pi2 TE	-
17	23	..	bp KV	-	18	00	48	pi2 MG	-	18	05	12	bp BI	-	18	08	58	pc4 BI	-
18	09	..	pc4 AC	-	18	11	45	pc4 TE	-	18	20	30	pc4 MG	-	18	21	11	ssc TR	-
18	22	37	si SO	-	18	22	..	bp KV	-	18	23	00	bp SO	-	19	00	00	pc4 MG	-
19	00	12	pi2 LM	-	19	00	54	pi2 EB	-	19	01	16	pi2 BI	-	19	03	20	pi2 LM	-
19	04	05	b ME	-	19	15	02	bp SO	-	19	21	..	bp KV	-	20	00	12	pi2 BI	-
20	09	20	si HL	-	20	12	40	pi2 BI	-	20	18	00	pi2 LM	-	20	18	17	pi2 BI	-
20	18	30	pi2 TK	-	21	02	07	pc4 LM	-	21	18	54	pi2 TK	-	22	02	09	pi2 LM	-
22	03	08	si HL	-	22	04	12	si HL	-	22	09	07	ssc TH?	-	22	19	..	bp KV	-
22	23	..	bp KV	-	23	02	..	bp KV	-	23	03	15	pi2 BI	-	23	05	33	pi2+pc4TW	-
23	08	57	bp MA	-	23	17	..	pi2 FR	-	23	18	30	pc4 AM	-	23	19	..	bp KV	-
23	21	56	pi2 BI	-	23	23	..	bp KV	-	24	04	00	pc4 PP	-	24	13	30	b MG	-
24	13	52	b AC	-	24	17	31	pi2 LM	-	24	18	10	pi2 BI	-	24	18	..	bp KV	-
24	21	50	pi2 OD	-	24	23	26	pi2 BI	-	24	23	..	bp KV	-	25	01	15	pi2 PE	-
25	03	35	pc4 LM	-	25	04	55	pc4 BI	-	25	06	00	pc4+pc5PP	-	25	08	33	pi2 BI	-
25	12	..	pc4 FR	-	25	13	..	pc4+pi2AC	-	25	15	28	pi2 QU	-	25	16	21	pi2 MT	-
25	16	41	bp SO	-	25	20	..	bp KV	-	26	05	15	pi2 TU	-	26	10	00	si HL	-
26	14	00	pi2 BI	-	26	18	..	bp KV	-	26	19	40	bp SO	-	27	00	00	pc4 AC	-
27	06	25	pc4 PP	-	27	12	10	pi2 TE	-	27	16	48	b SW	-	27	17	..	bp KV	-
27	19	41	bp OD	-	27	20	..	bp KV	-	27	21	16	pi2 OD	-	28	01	00	bp OD	-
28	10	..	bp KV	-	28	11	..	bp KV	-	28	21	48	si TE	-	28	23	..	bp KV	-
29	00	..	bp KV	-	29	02	..	bp KV	-	29	07	35	si LE	-	29	09	00	pc4 FR	-
29	12	..	bp KV	-	29	15	..	bp KV	-	29	17	04	si CF	-	29	17	24	si TE	-

TABLE 4 MINOR DISTURBANCES 1967 - continued

(OCTOBER)

d h m		d h m		d h m		d h m	
29 17 ..	bp KV	- 29 19 ..	bp KV	- 30 03 09	si TE	- 30 03 45	si TE
30 06 11	si TE	- 30 06 28	pc4 LM	- 30 07 ..	pc4 AC	- 30 09 15	pc4 BI
30 14 00	si KS	- 30 14 45	si AC	- 30 15 35	pi2 TK	- 30 20 ..	bp KV
31 02 37	pc4 LM	- 31 03 11	pg SM	- 31 08 45	pi2 BI	- 31 15 05	pc5 BI
31 20 ..	bp KV	-					

NOVEMBER

01 07 22	si BI	- 01 13 28	pi2 BI	- 01 14 10	si HL	- 02 00 38	pi2 BI
02 01 09	si TE	- 02 05 32	si HL	- 02 09 55	si MC	- 02 16 47	b MG
02 17 00	bp IR	- 02 18 11	ssc SO	- 02 20 33	pc4 TE	- 02 22 44	bs KS
03 05 29	pi2 LM	- 03 06 38	pc4 TE	- 03 07 40	pi2 TU	- 03 14 05	b MG
03 15 34	pi2 BI	- 03 17 00	bp WI	- 03 18 ..	bp KV	- 03 20 35	si LE
04 06 29	si HL	- 04 09 02	pi2 LM	- 04 17 38	b SF	- 04 19 23	bs DB
04 21 ..	bp KV	- 04 22 14	pi2 KN	- 04 23 20	bp VL	- 05 00 ..	bp KV
05 01 54	pi2 BI	- 05 06 19	si HL	- 05 11 42	pi2 BI	- 05 12 27	si VL
05 13 32	pc4 LM	- 05 15 20	pc4 PP	- 05 18 ..	bp KV	- 05 20 24	bs BA
05 20 33	pc4 MG	- 05 23 ..	pc4 CO	- 06 00 43	pi2 BI	- 06 04 16	pi2 LM
06 05 26	si BI	- 06 07 12	pi2 CO	- 06 08 40	pi2 HO	- 06 12 15	pi2 TW
06 12 42	pc4 FR	- 06 14 36	pi2 LM	- 06 19 ..	bp KV	- 06 20 36	pi2 BI
06 21 ..	bp KV	- 07 01 49	pi2 AC	- 07 02 16	pc4 LM	- 07 05 57	pi2 PP
07 11 22	pi2 AC	- 08 00 ..	pi2 FR	- 08 10 25	ssc CI	- 08 11 00	si HL
08 14 02	pi2 BI	- 08 14 30	ssc TF	- 08 14 37	ssc TR	- 08 15 20	pc4 PP
08 18 00	b MG	- 08 19 ..	bp KV	- 08 21 ..	bp KV	- 09 00 40	pc4 PP
09 07 ..	bp KV	- 09 10 50	pc4 SI	- 09 13 45	pc4 BI	- 10 10 30	pi2 SI
10 10 46	ssc SU	- 10 12 15	pc4 BI	- 10 12 55	pi2 SM	- 10 23 ..	bp KV
11 03 42	bs KS	- 11 08 28	ssc QU	- 11 08 48	pi2 LM	- 11 19 ..	pc4 FR
11 21 ..	bp KV	- 12 00 14	ssc GU	- 12 02 09	pc4 LM	- 12 03 05	pi2 BI
12 09 52	pi2 BI	- 12 15 03	pc5 LU	- 12 16 ..	bp KV	- 12 17 ..	bp KV
12 18 27	pi2 TE	- 12 18 ..	bp KV	- 12 19 ..	bp KV	- 12 21 ..	bp KV
12 22 ..	bp KV	- 13 02 ..	bp KV	- 13 03 36	pc4 LM	- 13 14 00	pc4 TE
13 15 24	bps IR	- 13 15 57	bp BI	- 13 16 54	bps IR	- 13 18 00	pc5 SI
13 19 18	si PP	- 13 20 ..	bp KV	- 13 23 ..	bp KV	- 14 03 38	pi2 BI
14 04 00	pc4 SI	- 14 05 55	sfe BI?	- 14 07 34	pi2 BI	- 14 08 23	pi2 BI
14 10 33	b MG	- 14 13 39	pc4 LM	- 14 14 39	pc4 FR	- 14 15 06	bp IR
14 15 33	pg BI	- 14 21 32	pi2 LM	- 15 04 21	pc4 BI	- 15 05 29	pi2 HU
15 09 16	pc4 BI	- 15 15 36	pi2 LM	- 15 17 44	b HB?	- 15 17 ..	bp KV
15 18 ..	bp KV	- 15 22 00	bp LZ	- 15 23 ..	bp KV	- 16 02 47	pc4 LM
16 03 52	si HL	- 16 06 59	si MO	- 16 11 20	pc4 BI	- 16 11 ..	bp KV
16 12 21	pc4 LM	- 16 14 31	si TL	- 16 14 56	pc4 AC	- 16 16 ..	bp KV
16 19 ..	bp KV	- 17 03 31	pi2 LM	- 17 06 45	pc4 LM	- 17 13 ..	pc4 FR
17 19 ..	pc4 SI	- 17 23 ..	bp KV	- 18 00 ..	bp KV	- 18 03 11	pc4 LM
18 05 16	pi2 BI	- 18 05 56	pi2 AC	- 18 11 37	pi2 BI	- 18 16 18	pi2+pc4TW-
18 17 ..	bp KV	- 19 04 26	pi2+pc4TW	- 19 10 00	si KN	- 19 17 30	pi2 BI
19 17 50	bp BI	- 19 20 ..	bp KV	- 20 00 33	pi2 LM	- 20 01 ..	bp KV
21 01 20	pi2 BI	- 21 04 08	pc4 LM	- 21 04 47	pi2 BI	- 21 06 24	pc4+pc5? E-
21 22 ..	bp KV	- 21 23 06	pg BI	- 22 00 ..	pc5 SI	- 22 03 50	bp BI
22 06 ..	pc4 SI	- 22 08 40	si HL	- 22 12 00	bp LZ	- 22 13 ..	bp KV
22 18 06	si TR	- 22 20 ..	bp KV	- 23 00 36	pc4 LM	- 23 10 03	pi2 BI
23 04 05	pi2 TU	- 23 04 36	pi2 BI	- 23 05 37	pi2 BI	- 23 10 43	pi2 BI
23 14 ..	bp KV	- 23 18 ..	pc4 SI	- 23 19 ..	bp KV	- 23 23 00	bp LZ
23 23 53	pi2 PE	- 23 23 ..	bp KV	- 24 00 39	pi2 LM	- 24 02 56	si KN
24 06 00	b SF	- 24 06 ..	bp KV	- 24 13 14	b IR	- 24 15 16	si BA?
24 15 40	pc4 PP	- 24 20 26	pi2 BI	- 24 20 54	b SW	- 24 20 ..	bp KV
24 22 ..	bp KV	- 24 23 09	pi2 BI	- 25 00 ..	bp KV	- 25 01 ..	bp KV
25 08 50	pi2 AM	- 25 09 50	pi2 SI	- 25 10 13	pi2 HO	- 25 10 32	pi2 HO
25 20 ..	bp KV	- 25 23 55	pi2 LM	- 26 00 00	bp BI	- 26 11 20	pi2 BI
26 14 49	bps GN	- 26 14 ..	bp KV	- 26 20 ..	bp KV	- 26 22 ..	bp KV
27 09 49	bs OD	- 27 10 35	pc4 TE	- 27 14 ..	bp KV	- 27 25 26	pi2 LM
27 17 19	ssc TR	- 27 17 50	ssc SO	- 27 18 ..	bp KV	- 27 19 50	pc4 PP
27 23 ..	bp KV	- 28 01 14	b OD	- 28 02 ..	bp KV	- 28 17 45	bp TF
29 00 ..	bp KV	- 29 06 20	pc5 ES	- 29 07 57	pc4 LM	- 29 08 32	bs MG
29 10 25	pc4 BI	- 29 12 22	bp OD	- 29 12 ..	pc4 FR	- 29 15 50	pc4 PP
29 17 00	bp OD	- 29 20 45	si SO	- 29 21 10	si TR	- 30 01 54	pi2 LM
30 07 26	ssc BA?	- 30 15 15	si BA?	- 30 15 27	sfe BI?	- 30 17 38	si SM
30 17 ..	pc5 SI	- 30 18 51	bps NI	- 30 19 ..	bp KV	- 30 22 ..	bp KV

TABLE 5a SOLAR-FLARE EFFECTS (S.F.E.'S) 1967

Starting-times of solar-flare effects checked by 58 observatories. Observatories near the subsolar point are underlined. A simultaneous ionospheric or radiosolar disturbance or simultaneous chromospheric flare observed on the sun has been indicated by underlining the time. Stations in the twilight-zone are indicated by dotted brackets. Stations in full dark are given in parentheses. Stations on the night-side of the earth which gave a negative or doubtful answer have been omitted. Stations whose checking-lists have not been received, but whose monthly reports have been sometimes taken into account in order to get a better knowledge of the real effect observed (WN HY BI PM HU) are included in square-brackets. Strong effects are marked by an asterisk.

JANUARY

none

FEBRUARY

- 22d 05h 10m B: IR TK SS QU GU TN TO - C: MG OD MT IK KA KS KY AL HR AM SB - D: KN TG KG - E: GN DU - X: BA AP.
- 23d 08h 29m B: NI HB OD TK IK KS MB TN HR - C: KN ES GT KV SM SF KY AL BA TG GN - D: DO NU LE WI VL HA MA DB FU LG AQ EB TO KG DU SB - E: IR TL QU.
- 27d 16h 41m A: AG FR - B: SM TU MB PA [HU] - C: SI GT FU NE SF TE SJ BA-D: LE ES WI NI VL MA DB LG EB TL HO HR SB - E: (IR).

MARCH

- 01d 04h 27m A: GU - B: IR MT TK KA SS KY TG - C: MG KS AL TO - D: KN AP TN GN HR AM KG DU SB - E: (FR) QU.
- 22d 00h 26m A: IR KY AP - B: MG MT KA HO GU TG - C: CO SI AG FR SS QU - D: KN TK TU TE AL BA KG DU SB - E: GN - X: LG AM - (b: TO)
- 26d 05h 07m A: IR TK - B: MG QU AL [HY] TG [PM] TN GN TO - C: KN MT KA SS KY GU - D: NU NI GT KV HB OD AQ IK KS BA AP HR AM KG DU SB.

APRIL

- 01d 06h 16m A: IR - B: MG ES TK IK QU AL [HY] GN - C: KN GT KV MT KA KY TO - D: DO NU LE WI NI VL HA MA DB FU OD AQ EB TL AK SF KS SS GU TG TN HR AM KG DU SB - X: HB LG BA.
- 26d 21h 23m B: AG FR TU HO HU - C: CO SI NE MT KA KY TE - D: MG SS SJ GU PA AP TO AM - E: IR.

MAY

- 21d 13h 02m A: SF KS MB - B: KN NI HB OD IK EB TN - C: ES WI GT KV MA AG LG AQ FR SM SJ HR - D: CO DO NU LE SI VL HA DB NE TK TL AK TU QU TE AL PA BA - E: {IR} - X: (AP) - (ssc: C: FU?).
- 21d 15h 35m A: SF - B: NE HB EB SM TU SJ MB - C: CO WI GT KV MA DB OD AG LG IK FR TE PA - D: DO NU LE SI KN ES NI VL HA FU AQ TL KS BA HR - E: {IR} - X: (AP).
- 21d 19h 21m* A: CO AG FR TU HO TE - B: SO SI NE {HB} SM SJ - C: MG WI HA MA LG MB PA - D: DO LE ES MT TL - E: {IR} DB {EB} SF (KS) (QU) - X: AP - (si: B: VL).
- 23d 18h 36m* A: AG FR HO TE SJ - B: SO WI VL NE TU PA AP - C: NU GT HA DB - D: DO LE ES NI EB TL - E: CO MG IR MA FU {MT} LG SM SF {KA} {KY} (QU) MB - X: SI.

JUNE

none

TABLE 5a SOLAR-FLARE EFFECTS (S.F.E.'S) 1967 - continued

JULY

25d 14h 27m A: HB IK - B: SO HA MA FU OD EB TU MB PA HR - C: KN ES WI VL
GT KV NE AG LG AQ TL FR AK SM - D: DO NU LE SI NI DB TK SF
TE SJ BA - E: CO {IR} KS.

31d 12h 24m A: OD SF - B: LE KN ES NI MA FU AQ EB SM MB TN HR - C: WI GT
KV HB AG LG FR AK KS SJ PA BA - D: DO NU VL HA DB NE TK TL
QU TE AL KG - E: IR - X: IK.

AUGUST

01d 17h 34m B: SI NI HB AG FR TU - C: CO MG ES GT MA NE LG EB SM SF HO
SJ - D: DO NU LE WI VL FU AQ TL TE PA - E: (IR) HA (QU) MB {BA}
- X: DB - (si: B: {OD};)

02d 00h 44m A: HO - B: SI IR GU TG - C: CO MG MT KA TU KY GN TO - D: SS TE
BA AP DU - X: DO AM (SB).

SEPTEMBER

none

OCTOBER

none

NOVEMBER

02d 08h 56m A: OD TK IK HR - B: FU HB AQ AK SM TN GN - C: KN ES WI GT KV
MA LG QU - D: DO NU LE NI VL HA DB TL KS AL TG TO DU SB -
E: (CO) (SI) IR - X: EB SF MB KG - (ssc: C: BA).

17d 08h 20m B: NI GT OD TK IK TN GN HR - C: KN WI KV FU HB AQ? AK QU - D:
DO NU ES VL HA MA DB LG EB TL SF KS AL MB TG TO KG DU SB
- E: IR - X: (MG) - (ssc: C: BA - si: [BI]).

DECEMBER

none

TABLE 5b DOUBTFUL SOLAR-FLARE EFFECTS (S.F.E.'S) 1967

Starting-times of presumed solar-flare effects checked by 58 observatories. Observatories near the subsolar point are underlined. A simultaneous ionospheric or radiosolar disturbance or simultaneous chromospheric flare observed on the sun has been indicated by underlining the time. Stations in the twilight-zone are indicated by dotted brackets. Stations in full dark are given in parentheses. Stations on the night-side of the earth which gave a negative or doubtful answer have been omitted. Stations whose checking-lists have not been received, but whose monthly data have been sometimes taken into account in order to get a better knowledge of the real effect observed (WN HY BI PM HU) are included in square-brackets. Effects which very probably are real sfe's are indicated by an asterisk.

JANUARY

01d 10h 37m A: SF - B: HB TN - C: GT KV DB FU IK SM AL BA HR - D: DO NU LE KN ES WI NI VL HA MA OD LG AQ TK EB TL KS MB PA KG SB - E: (CO) (SI) {IR}; QU GN DU - X: {NE} TG.

14d 10h 26m A: (AG) - B: SO NU (SI) MA SM - C: GT HA KV DB HB OD IK EBSFAL - D: DO LE ES WI NI VL FU LG AQ TK TL QU MB PA BA GN HR KG DU SB - E: (CO) KN {IR} KS TN (AM) - X: (MG) {NE} (FR) TG.

FEBRUARY

none

MARCH

28d 06h 18m* B: IR AL TG - C: ES GT KV MT IK KA KY QU GN - D: DO NU LE MG KN WI NI HA DB FU HB OD AQ TK EB TL KS SS GU BA HR TO AM KG DU SB - E: MA (FR) (SM) TN - X: LG.

28d 17h 36m B: {OD} AG SM HU - C: CO SI WI MA NE FR TU HO SJ MB PA - D: LE ES VL HA DB FU LG EB TL SF TE AP - E: (IR).

30d 08h 56m A: IR - B: SO {MG} ES NI MA HB (AG) IK QU AL (AP) HR - C: LE WI VL GT DB LG SM SF GN - D: DO NU KN HA AK TN - E: TL BA - X: AQ EB (HO) MB TG - (ssc: C: KS - si: B: KV FU OD TK SS {GU} AM; C: (NE) MT (FR) KA (TU) KY (TE) - pg: KG?).

APRIL

01d 03h 47m* B: MG IR [PM] - C: MT KA KY QU TO - D: CO KN OD TK AK SS HO AL GU TE AG TN AM KG DU SB - E: (BA) GN.

12d 05h 39m B: TK QU AL GN - C: MG MT AK KA KY - D: DO NU LE KN ES WI NI GT HA KV MA DB FU HB OD LG AQ IK EB KS SS GU TG TN HR TO KG DU SB - E: IR - X: {HO} BA AM.

MAY

06d 04h 33m B: IR QU AL - C: CO TK AK SS GU - D: DO NU LE KN ES WI NI GT HA KV MA DB FU HB OD AQ IK KS HO BA TG AP TN GN AM KG DU SB - E: MT KA KY - X: MG - (b: TO).

19d 15h 27m* B: WI HB TU PA [HU] (SB) - C: CO LE SI KN GT KV MA DB NE FU OD AG LG IK EB FR SM SJ - D: DO NU ES NI VL HA AQ TL KS TE MB BA HR - E: (IR) SF - X: TG.

22d 00h 08m* A: IR - B: CO SI (MA) HO GU - C: MG MT AG KA TU KY - D: FR SS TE TG AP GN TO - X: AM {SB}.

25d 06h 33m B: KN IR HB (AG) IK {SB} - C: CO WI GT KV OD MT LG EB SF KA KY AL - D: DO NU LE ES NI VL HA MA DB FU AQ TK TL AK SS BA TG TN GN HR TO KG - E: MG {NE} (FR) KS QU (SJ) GU {DU} - (si: SM?).

28d 05h 37m A: HB KY - B: SO MG IR MT KA TG - C: GT KV SF AL - D: DO LE ES WI NI VL MA DB FU LG AQ TK EB TL AK SS BA GN TO - E: CO NU {SI} KN HA NE IK (FR) {SM} KS (TU) QU {HO} (SJ) {MB} GU TN {AM} {KG} - (si: B: OD).

TABLE 5b DOUBTFUL SOLAR-FLARE EFFECTS (S. F. E. 'S) 1967 - continued

JUNE

- 18d 13h 10m* A: SF - B: OD IK SM - C: CO SI GT LG EB AK MB HR - D: DO NU LE KN ES WI NI VL HA KV MA DB NE FU HB AG AQ TK TL FR KS TU QU TE AL SJ PA TN.
- 20d 10h 54m A: OD IK SF - B: MG (SI) KN ES - C: NU LE GT KV FU AG LG AQ FR AK QU AL SJ MB BA TG - D: WI NI VL HA MA DB NE TK EB TL SM KS PA TN HR KG - E: IR - X: DO HB (HO).
- 24d 13h 51m A: SF - B: CO NU LE (MG) VL OD AG [HU] - C: DO GT KV MA NE FU LG IK FR SM TU QU MB BA HR - D: SI KN ES WI NI HA DB HB AQ TK EB TL AK TE SJ PA TN - E: (IR) - (b: B: KS).

JULY

- 23d 12h 55m A: HB - B: IK MB - C: CO SI GT KV OD AG FR SF KS - D: DO NU LE KN ES WI NI VL HA MA DB NE FU LG AQ TK TL AK SM TU GU TE AL SF PA TN HR - E: IR EB BA.
- 24d 04h 15m A: IR IK - B: CO MG SI ES GT (EB) (AG) AK AL TG - C: NU WI KV MA MT KA KY HO GU AP GN DU - D: DO LE NI DB HB TK KS SS TN TO AM - E: KN HA (FR) (BA) (HR) KG - X: QU - (si: A: OD; C: FU? AQ).
- 24d 09h 29m B: ES VL GT HA OD (AG) - C: KN WI MA NE HB LG IK EB SM SF QU AL - D: DO NU LE NI DB FU MT AQ TK TL AK KA KS SS KY MB BA TN HR - E: IR - X: KV TG.
- 30d 14h 25m B: AG TU [HU] - C: CO SI GT NE FU OD FR SM QU - D: DO NULEKN ES WI NI VL HA KV MA DB HB LG AQ TK IK EB TL AK SF TE SJ MB PA BA HR - E: (IR).
- 31d 17h 22m A: AG - B: NE FR [HU] - C: CO SI GT TU SJ MB PA - D: DO NU LE ES WI VL HA KV MA DB FU HB OD LG AQ EB TL SM SF HO TE - E: (IR) - X: IK.

AUGUST

- 04d 15h 17m* A: SF - B: SJ MB HR - C: SI GT KV HB IK SM - D: DO NUKN ES WINI VL HA MA DB NE FU OD AG LG AQ EB TL FR KS TU TE PA BA - E: CO (IR) - X: LE.
- 28d 12h 09m* B: [WN] HB OD TN HR - C: NU LE KN ES WI GT KV NE LG IK EB FR AK SM SF PA BA - D: DO NI VL HA MA DB FU AG AQ TK TL KS QU AL SJ MB - E: (IR) - X: (TG).
- 20d 13h 30m* A: EB KS MB (TG) - B: LE (MG) WI NI GT HA MA OD AG LG AQ IK TL PA TN HR - C: KN ES KV NE AK SF TU QU SJ - D: DO DB HB TE BA - (si: A: FU; B: CO NU IR VL TK FR SM; C: DU - pi2: SS).

SEPTEMBER

none

OCTOBER

- 02d 21h 53m B: CO MG (MB) SB - C: SI MT AG FR KA TU KY HO - D: SS TE SJ GU TO AM - E: (IR) (BA) DU - X: AP - (bp: (SM)).
- 22d 10h 09m A: OD - B: NI TG HR - C: NU KN WI GT KV DB HB AK SF KS TN - D: DO LE ES VL HA MA FU LG AQ TK IK EB TL SM QU AL MB PA GN KG DU SB - E: (IR) BA.

NOVEMBER

none

DECEMBER

none

TABLE 5c REJECTED SOLAR-FLARE EFFECTS (S.F.E.'S) 1967

Starting-times of presumed cases, presented by one or more observations, which most probably do not represent real solar-flare effects.

JANUARY

01d 06h 52m - 21d 21h 40m - 23d 12h 06m -

FEBRUARY

18d 10h 15m - 23d 11h 42m -

MARCH

03d 20h 18m - 04d 12h 13m - 04d 13h 24m - 04d 17h 15m - 09d 11h 32m(SI) -
23d 19h 12m - 29d 17h 35m -

APRIL

09d 01h 54m - 11d 11h 45m -

MAY

21d 10h 50m -

JUNE

none

JULY

03d 07h 55m - 22d 14h 22m - 25d 10h 50m -

AUGUST

09d 18h 25m - 12d 15h 44m - 22d 22h 02m -

SEPTEMBER

12d 13h 45m - 24d 09h 09m -

OCTOBER

31d 11h 14m -

NOVEMBER

02d 15h 52m - 10d 08h 55m - 11d 02h 41m - 21d 14h 54m -

DECEMBER

01d 12h 50m - 13d 09h 43m - 27d 08h 38m -

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