

TRANSITS
1961

TABLE III

No	Mark	Limiting Dates	Limiting L. o o	L. o	Transits	Drift o	Period h m s
North North Temperate Current (S edge NNTB) System II:							
1	Dp	Aug. 5-Oct. 7	124 -122	123	8	-0.9	9 55 39
2	Dc	Aug. 5-Oct. 7	128 -131	127	6	0.9	42
3	Df	Aug. 5-Oct. 7	133 -138	134	7	0.9	42
							Mean : 9 55 41
North Tropical Current (N edge NEB) System II:							
1	Wp	Jul. 27-Nov. 19	248 -199	248	14	-12.3	9 55 24
2	Wc	Jul. 27-Nov. 19	252 -206	254	14	-12.1	24
3	Wf	Jul. 27-Nov. 19	257 -213	259	16	-11.3	25
							Mean : 9 55 24
Great Equatorial Current, Northern Branch (S edge NEB) System I:							
1	Dc	Sep. 4-Oct. 24	74 - 75	76	9	0.4	9 50 31
2	Wc	Sep. 2-Oct. 22	87 - 99	85	10	4.6	36
3	Dc	Sep. 16-Oct. 22	112 -115	108	7	2.9	34
4	Wc	Sep. 2-Oct. 22	129 -132	126	10	1.9	33
5	Dc	Sep. 5-Oct. 7	152 -152	156	7	-2.2	27
6	Dp	Sep. 9-Nov. 19	178 -183	178	10	1.6	32
7	Dc	Sep. 12-Nov. 19	190 -188	190	8	-0.4	29
8	Df	Sep. 9-Nov. 19	196 -192	198	8	-1.3	28
9	Dp	Jul. 21-Sep. 12	218 -215	214	5	-0.3	30
10	Dc	Jul. 21-Sep. 12	222 -219	220	5	-0.9	29
11	Df	Jul. 21-Sep. 19	227 -220	224	7	0.0	30
12	Dp	Jul. 21-Sep. 19	241 -238	239	6	-0.4	29
13	Dc	Jul. 21-Sep. 19	243 -242	244	7	0.2	30
14	Df	Aug. 2-Sep. 19	244 -248	246	6	2.2	33
15	Dp	Aug. 18-Nov. 15	264 -268	263	8	1.3	32
16	Dc	Aug. 18-Nov. 15	271 -277	269	10	2.0	33
17	Df	Aug. 18-Oct. 10	274 -278	274	10	2.2	33
18	Dp	Aug. 2-Sep. 6	296 -292	297	8	-3.9	25
19	Dc	Aug. 2-Sep. 6	300 -300	298	7	0.9	31
20	Df	Aug. 2-Sep. 6	304 -306	303	6	1.8	32
							Mean : 9 50 31.0
Red Spot (STrZ) System II:							
	Dp	Jun. 7-Nov. 25	345 -357	352	22	1.4	9 55 43
	Dc	Jun. 7-Nov. 25	359 - 9	3	22	1.6	43
	Df	Jun. 7-Nov. 25	12 - 19	13	19	1.8	43
							Mean : 9 55 43
South Temperate Current (S edge STB) System II:							
F	Wp	Aug. 23-Nov. 15	346 -282	2	9	-21.2	9 55 12
1	Wc	Aug. 28-Nov. 15	344 -294	12	5	-20.4	13
B	Wp	Jun. 8-Oct. 23	157 - 79	130	6	-17.1	17
2	Wc	Jun. 8-Oct. 23	166 - 89	139	4	-16.8	18
C	Wf	Jun. 8-Oct. 23	178 - 98	150	12	-17.0	17
D	Wp	Jun. 7-Nov. 19	329 -213	296	22	-21.1	12
3	Wc	Jun. 7-Oct. 24	342 -244	306	23	-20.7	12
E	Wf	Jun. 12-Sep. 23	347 -275	314	19	-19.1	15
							Mean : 9 55 13.7

CENTRAL MERIDIAN TRANSITS.

PLANET: Jupiter.

Date: April 9, 1961.

Time Used: Universal Time.

Telescope: 4"-Reflector.

Power: 167x

Seeing: 5

Transparency: 4

Observer: Jim Low.

Time	Position	Description.	System.	C.M.
1 09h.40m.	NEB	D _p (cond)	I	336° ✓
2 09h.43m.	NEB	D _c (cond)	I	338° ✓
3 09h 45m	NEB	D _f (cond)	I	339° ✓

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date JUNE 10/11 1961 Planet JUPITER
 Period of Observation 06:00 - 07:12 U.T.
 Telescope 6" REFRACTOR Power 220X
 Seeing (0 worst-10 best) 2-4 Transparency (0 worst-5 best) 4
 Observer G. WEDGE

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
1	P. END. W. OVAL S. EDGE ✓ NEB	06:05	74 ⁰⁰ ✓	—
2	C W. OVAL S. EDGE ✓ NEB	06:11	78 ⁰⁰ ✓	—
3	F. END. W. OVAL S. EDGE ✓ NEB	06:17	81 ⁰⁰ ✓	—
4	C. FEST. N. EDGE NEB	06:25	—	238 240 ⁰⁰
5	F. END. FEST. N. EDGE NEB	06:29	—	243 ⁰⁰ ✓
6	P. END. NOTCH N. EDGE NEB	06:32	—	244 ⁰⁰ ✓
7	C NOTCH S. EDGE ✓ NEB	06:35	93 ⁰⁰ ✓	—
8	C NOTCH N. EDGE NEB	06:36	—	247 ⁰⁰ ✓
9	C. FEST. N. EDGE S. EDGE ✓ NEB	06:37	94 ⁰⁰ ✓	—
10	F. END. NOTCH S. EDGE ✓ NEB	06:38	96 ⁰⁰ ✓	—
11	F. END. NOTCH N. EDGE NEB	06:38	—	248 ⁰⁰ ✓
12	P. END. W. OVAL F. EDGE NEB	06:43	98 ⁰⁰ ✓	247
13	C W. OVAL F. EDGE NEB	06:47	100 ⁰⁰ ✓	250
14	P. END. NOTCH N. EDGE NEB	06:50	—	255 ⁰⁰ ✓
15	C. END. NOTCH W. EDGE S. EDGE ✓ STB	06:53	—	255 257 ⁰⁰ ✓
16	F. END. W. OVAL N. EDGE	06:55	105 ⁰⁰ X	—
17	F. END. NOTCH S. EDGE STB	06:56	—	259 ⁰⁰ ✓
18	F. END. NOTCH N. EDGE NEB	06:58	—	260 ⁰⁰ ✓
19	C. W. OVAL NEB	07:04	111 ⁰⁰ ✓	262
20	PROJ. N. EDGE NEB	07:07	—	266 ⁰⁰

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Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date ... June 11 1961 ... Planet ... Jupiter ...
 Period of Observation ... 6:40 - 8:00 ... U.T.
 Telescope ... 8" Refl. ... Power ... 165 ...
 Seeing (0 worst-10 best) ... 2-4 ... Transparency (0 worst-5 best) ... 5 ...
 Observer ... Klaus R. Braxch ...

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
1	Dp. proj. NEB	6:40	94.8 ✓	-
2	Dc. " "	6:46	99.0 ✓	-
3	Wp. bay STB	6:52	-	254.4 ✓
4	Df. festoon NEB	6:55	104.9 ✓	-
5	Wc. bay STB	7:02	-	260.4 ✓
6	Dc. proj. NEB	7:06	111.6 ✓	-
7	Df. " "	7:11	115.1 ✓	-
8	Wf. bay STB	7:14	-	261.7 ✓
9	Dp. proj. NEB	7:14	116.5 ✓	-
10	Dc. " "	7:19	119.6 ✓	-
11	Df. " "	7:24	122.8 ✓	-
12	Wc. oval "	7:33	128.9 ✓	-
13	Dp. proj. "	7:40	132.9 ✓	-
14	Dc. " "	7:45	135.0 ✓	-
15	Df. " "	7:47	136.2 ✓	-
16	Dp. " SEBn	7:47	136.2 ✓	287.6 ✓
17	Dc. " "	8:00	144.6 ✓	295.5 ✓
18	Wc. oval NEB	8:00	149.6 ✓	-

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PLANETARY OBSERVATIONS
Central Meridian Transits

Date *June 17 1961* Planet *Jupiter*
 Period of Observation *5:03 - 6:45* U.T.
 Telescope *8" Refl.* Power *165x*
 Seeing (0 worst-10 best) *2-4* Transparency (0 worst-5 best) *2-3*
 Observer *Klaus R. Brasch*

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
19	Df. RS	5:03	-	11. ✓
20	Dc. proj.	5:08	268 ✓	-
21	Df. "	5:12	270 ✓	-
22	Df. festoon	5:25	278 ✓	-
23	Dp. proj.	5:32	282 ✓	-
24	Dc. "	5:42	288 ✓	-
{ 25	Df. "	5:48	292 ✓	-
{ 26	Dp. loop festoon	5:48	292	-
27	Wc. oval	6:00	299 ✓	- 299
{ 28	Df. loop festoon	6:14	308	-
{ 29	Dp. proj.	6:14	308 ✓	-
30	Dc. "	6:20	312 ✓	-
31	Df. "	6:26	315 ✓	-
32	Wc. oval	6:37	321 ✓	-
33	Dc. proj.	6:42	325 ✓	-
34	Dp. proj.	6:45	327 ✓	-

..... Poor transparency due to haze hindered observation
 and hid more delicate detail

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PLANETARY OBSERVATIONS
Central Meridian Transits

Date ... *June 25 1961* ... Planet ... *Jupiter* ...
 Period of Observation ... *6:01 - 8:20* ... U.T.
 Telescope ... *8" Refl.* ... Power ... *165x* ...
 Seeing (0 worst-10 best) ... *4.5* ... Transparency (0 worst-5 best) ... *2.4* ...
 Observer ... *Klaus R. Brasch* ...

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
35	D.p. corden. STB	6:01	-	169 ✓
36	D.f. " " "	6:05	-	171 ✓
37	D.p. proj. base festoon ^{S edge} NEB	6:06	127 ✓	-
38	D.f. " " " "	6:09	129 ✓	-
39	D.f. festoon NEB ^{EZA} Scott Edge	6:23	132 ✓	-
40	D.c. proj. ^{S edge} " "	6:34	144 ✓	-
41	W.p. oval bay STB	6:56	-	199 ✓
42	D.p. loop festoon ^{S edge} NEB	6:56	158 ✓	-
43	W.c. oval bay STB	7:02	-	207 ✓
44	D.c. loop festoon ^{S edge} NEB	7:08	164 ✓	-
45	W.f. oval bay STB	7:15	-	214 ✓
46	D.f. loop festoon ^{S edge} NEB	7:15	170 ✓	-
47	D.p. base festoon ^{S edge} NEB	7:34	181 ✓	-
48	D.f. " " " "	7:46	188 ✓	-
49	D.f. festoon NEB ^{EZA} Scott Edge	7:56	194 ✓	-
50	D.p. proj. ^{S edge} NEB	8:03	200 ✓	-
51	D.c. " " " "	8:20	209 ✓	-
52	W.p. notch ^{N edge} NEB North Edge	8:20	209 ✓	253 ✓

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UNREPORTED

PLANETARY OBSERVATIONS
Central Meridian Transits

Date July 20-21 1961 Planet Jupiter
 Period of Observation 02:11 - 03:15 U.T.
 Telescope 8" Refl. Power 165x
 Seeing (0 worst-10 best) 4-5 Transparency (0 worst-5 best) 4
 Observer Klaus B. Brausch

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
53	Wp oval NEB S edge	02 11	133 [✓]	-
54	Wc " " "	02 20	138 [✓]	-
55	Wp oval STB	02 21	-	347 [✓]
56	Dp base fest NEB S ed.	02 25	141 [✓]	-
57	Wc oval STB	02 29	-	351 [✓]
58	Dc base of fest NEB S	02 29	144 [✓]	-
59	Dp RS STZ	02 32	-	353 [✓]
60	Wf oval STB	02 35	-	355 [✓]
61	Df base fest NEB S	02 35	148 [✓]	-
62	Df festoon EZ	02 41	151 [✓]	-
63	Dc RS STZ	02 45	-	1 [✓]
64	Df base fest NEB S	02 51	157 [✓]	-
65	Dp condensation EZ SEB ^m	02 51	157 [✓]	4 [✓] !
66	Df RS STZ	02 57	-	8 [✓]
67	Df festoon EZ	02 59	162 [✓]	-
68	Wf following (neck) end STZ	03 05	-	13 [✓]
69	Df proj. STZ SEBA	03 08	-	14 [✓] !
70	Dp proj. NEB S ed.	03 15	172 [✓]	-

A UNREPORTED

ROYAL ASTRONOMICAL SOCIETY OF CANADA
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PLANETARY OBSERVATIONS
Central Meridian Transits

Date July 21 - 22 1961 Planet Jupiter

Period of Observation 03:15 - 7:36 U.T.

Telescope 8" Refr. Power 165 - 300

Seeing (0 worst-10 best) .. 3 - 6 ... Transparency (0 worst-5 best) .. 2 - 3 ..

Observer K. Brasch

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
71	Dp base festoon NEB S edge	03:15	330 ✓	-
72	Dc " " " "	03:24	333 ✓	-
73	Df " " " "	03:36	343 ✓	-
74	Df festoon EZ	03:44	349 ✓	-
75	Dc low proj. STB	03:53	-	157 ✓
76	Dp base festoon NEB S edge	03:56	355 ✓	-
77	Dc " " " "	04:02	359 ✓	-
78	Df " " " "	04:15	7 ✓	-
79	Dp low proj. EZ S edge SEB ^m	04:17	8 ✓	-
80	Wc oval NEB S	04:25	13 ✓	-
81	Dc low proj. EZ S edge SEB ^m	04:28	14 ✓	-
82	Dp base festoon NEB S	04:35	19 ✓	-
83	Df low proj. EZ S edge SEB ^m	04:38	20 ✓	-
84	Dc base festoon NEB S	04:48	27 ✓	-
85	Df " " " "	04:58	33 ✓	-
86	Df festoon EZ	05:04	36 ✓	-
87	Wp notch NEB N edge	05:18	-	243 ✓
88	Wp oval NEB S edge	05:18	45 ✓	-
89	Wc notch " N edge	05:24	-	247 ✓
90	Wf oval " S edge	05:36	50 ✓	-

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date July 21-22 1961 Planet Jupiter
 Period of Observation 03:15 - 07:26 U.T.
 Telescope 8" Refl. Power 165 - 300
 Seeing (0 worst-10 best) 3-6 Transparency (0 worst-5 best) 2-3
 Observer K. Brasch

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
91	wf oval (notch) NEB Nedge	05:28	-	250 ✓
92	Df festoon EZ	06:02	62 ✓	-
93	Dp base festoon NEB Sedge	06:24	85 ✓	-
94 } 95	Wp oval STB	06:42	-	295 ✓
96	Dc base festoon NEB Sed	06:48	100 ✓	-
97	wc oval STB	06:54	-	302 ✓
98	wf " "	07:06	-	309 ✓
99	wc oval NEB Sed	07:18	118 ✓	-
100	wf oval " "	07:26	123 ✓	-
94	Dc dusky area between NEB & EZ ^{SEB}	06:36	92 ✓	- !

ROYAL ASTRONOMICAL SOCIETY OF CANADA
 Montreal Centre

PLANETARY OBSERVATIONS
 Central Meridian Transits

Date JULY 22/23 1961 Planet JUPITER
 Period of Observation 03:55 - 05:30 U.T.
 Telescope 6" REFRACTOR Power 220X
 Seeing (0 worst-10 best) 2-4 Transparency (0 worst-5 best) 3-4
 Observer G. WEDGE

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
40	PROJ. EDGE NEB.	03:55	233	✓
41	P. END. R.S.	04:01	348	✓
42	C HUMP R.S.	04:14	358	✓
43	P. END. PROJ. EDGE NEB.	04:30	253	✓
44	C HUMP EDGE NEB.	04:37		
44	F. END. R.S.	04:40	13	✓
45	C. HUMP. EDGE NEB.	04:41	261	✓
46	F. END. HUMP. EDGE NEB.	04:51	267	✓
47	P. END. FEET. N. EDGE. SEB.	04:52	268	✓
48	F. END. FEET. N. EDGE. SEB.	04:55	270	✓
49	P. END. PROJ. EDGE NEB.			

ROYAL ASTRONOMICAL SOCIETY OF CANADA
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PLANETARY OBSERVATIONS
Central Meridian Transits

Date *Aug. 1-2 1961* Planet *Jupiter*
 Period of Observation *01:56 - 02:58* U.T.
 Telescope *8" Refl.* Power *165x*
 Seeing (0 worst-10 best) *4-6* Transparency (0 worst-5 best) *5*
 Observer *Klaus R. Brasch*

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
101	Df. parj. base festoon NEB S	01:56	220 [✓]	-
102	Df. festoon EZ	02:06	226 [✓]	-
103	Wf. rift NEB N	02:09	-	344 [✓]
104	Dp. base fest. NEB S	02:16	232 [✓]	-
105	Dp. RS STZ	02:17	-	349 [✓]
106	Dc. base fest. NEB S	02:30	240 [✓]	-
107	Dc. RS STZ	02:30	-	358 [✓]
108	Df. base fest. NEB S	02:36	244 [✓]	-
109	Df. RS STZ	02:43	-	5 [✓]
110	Dp. base fest. NEB S	02:48	252 [✓]	-
111	Dc. " " " "	02:58	258 [✓]	-

.....
 August 3-4 1961

..... See. 4 Trans. 4-0 Clouded out after 02:40

112	Df. festoon EZ	02:25	193 ^{194[✓]}	-
113	Wc. oval STB	02:28	-	240 ^{296[✓]}
114	Wf. " "	02:40	-	247 ^{303[✓]}
115?				

(115?)

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date August 4-5 1961 Planet Jupiter
 Period of Observation 02:21 - 04:20 U.T.
 Telescope 8" Refl. Power 165x
 Seeing (0 worst-10 best) .. 2-3 Transparency (0 worst-5 best) .. 3
 Observer Klaus D. Baasch

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
116	Wc oval NEB S	02:21	349 ✓	-
117	Dp proj " "	02:35	358 ✓	-
118	Dc " " "	02:46	1 ✓	-
119	Df " " "	02:44	3 ✓	-
120	Wc oval " "	02:56	11 ✓	-
123 124	Dp projected dark section NNTB	03:28 03:08	-	124 ✓ 107 ✓
121 122	Dp base festoon NEB S	03:12	20 ✓	-
122 123	Dc " " " "	03:26	29 ✓	-
124	Df " " " "	03:36	35 ✓	-
125	Df festoon E2	03:52	45 ✓	-
126	Dc base proj STB	03:57	-	141 ✓
127	Dp base proj NEB S	04:08	55 ✓	-
128	Dc " " " "	04:14	58 ✓	-
129	Df " " " "	04:20	62 ✓	-
.....				
Aug. 5-6 1961				
..... Sec 4 Trans 3 6" Refl. 150x				
130	Wp oval STB	03:50	-	287 ✓
131	Wc " " " "	04:02	-	294 ✓
132	Wf " " " "	04:11	-	299 ✓

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Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date ... *Aug. 14/15 1961* ... Planet ... *Jupiter* ...
 Period of Observation ... *01:41 - 03:58* ... U.T.
 Telescope ... *8" Refl.* ... Power ... *165x* ...
 Seeing (0 worst-10 best) *2-1-3*. Transparency (0 worst-5 best) *1-3*.
 Observer ... *K. Brasch* ...

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
147	Wp. oval STB	01:41	-	122 ✓
148	Dp. elongated cond. NNTB	01:41	-	122 ✓
149	Wp. oval NEB S	01:46	108 ✓	-
150	Wc. oval STB	01:50	-	127 ✓
151	Dc. elong. cond. NNTB	01:50	-	127 ✓
152	Df. festoon SEB _n N	01:52	112 ✓	-
153	Wc. oval NEB S	01:58	115 ✓	-
154	Wf. oval STB	02:02	-	135 ✓
155	Df. elong. cond. NNTB	02:02	-	135 ✓
156	Wp. elongated oval NEB S	02:09	122 ✓	-
157	Df. festoon SEB _n N	02:19	128 ✓	-
158	Dp. base festoon NEB S	02:50	147 ✓	-
159	Dc " " " "	02:58	152 ✓	-
160	Df " " " "	03:08	158 ✓	-
161	Dc low prof. STB	03:08	-	174 ✓
162	Wc. oval NEB S	03:20	165 ✓	-
163	Dp. base dusky area between NEB _n SEB _n	03:26	169 ✓	-
164	Dp. dusky area " " "	03:30	171 ✓	-
165	Dc " " " "	03:44	180 ✓	-
166	Df " " " "	03:58	188 ✓	-

Seeing variable but generally very poor

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PLANETARY OBSERVATIONS
Central Meridian Transits

Date *Aug. 17/18 1961* ... Planet *JUPITER*
 Period of Observation *02:00 - 05:32* U.T.
 Telescope *8" Refl.* Power *165x*
 Seeing (0 worst-10 best) ... *3-5* ... Transparency (0 worst-5 best) *4-3* ...
 Observer ... *K. Brasch*

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
167	Df. festoon S.E.B. N	02:00	230 [✓]	-
168	Dp. base festoon N.E.B. S	02:06	234 [✓]	-
169	Wc. module N.E.B.	02:06	234 [✓]	228 [✓]
170	Wp. notch " N	02:17	-	235 [✓]
171	Df. base festoon " S	02:17	241 [✓]	-
172	Wc. notch " N	02:24	-	239 [✓]
173	Wf. " " "	02:32	-	244 [✓]
174	Df. festoon S.E.B. N	02:32	250 [✓]	-
175	Wp. module N.E.B.	02:32	250 [✓]	244 [✓]
176	Wf. " " "	02:37	253 [✓]	247 [✓]
177	Dp. base proj " S	02:41	255 [✓]	-
178	Dp. proj " "	02:55	264 [✓]	-
179	Dc. " " "	03:07	271 [✓]	-
180	Df. " " "	03:12	274 [✓]	-
181	Wc. oval " "	03:22	280 [✓]	-
182	Dp. base proj N.E.B. "	03:27	283 [✓]	-
183	Wp. oval S.T.B.	03:27	-	277 [✓]
184	Wc. " " "	03:40	-	285 [✓]
185	Dc. proj N.E.B. S	03:42	292 [✓]	-
186	Df. " " "	03:50	297 [✓]	-

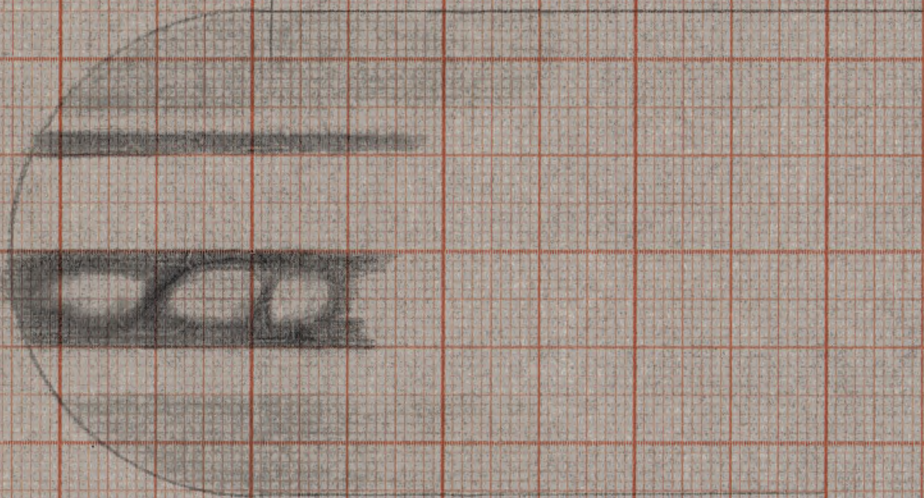
6" REF 22

G. WEDGE

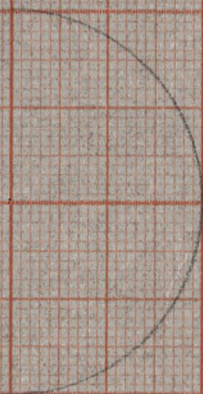
AUG 17/18 1961 02:13.

EUGENE DIETZEN CO., CHICAGO-NEW YORK NO. 346

I
238



II
232.



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PLANETARY OBSERVATIONS
Central Meridian Transits

Date ... *Aug. 18-19, 1961* ... Planet ... *Jupiter* ...
 Period of Observation ... *01:38 - 02:58* ... U.T.
 Telescope ... *8" Refl.* ... Power ... *165x* ...
 Seeing (0 worst-10 best) ... *6-3* ... Transparency (0 worst-5 best) ... *4* ...
 Observer ... *K. Baarsch* ...

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
197	DC R.S. STZ	01:38	-	1 ✓
198	WC oval NEB S	01:44	18 ✓	-
199	Dp base feat. " "	01:48	21 ✓	-
200	Df R.S. STZ	01:50	-	9 ✓
201	DC base feat. NEB S	02:04	31 ✓	-
202	Df " " " "	02:10	34 ✓	-
203	WC module NEB	02:22	42 ✓	28 ✓
204	Df feature SEB N	02:24	45 ✓	-
205	Dp base feat. NEB S	02:52	59 ✓	-
206	DC " " " "	02:58	63 ✓	-

Seeing deteriorated after 02:58
 Very diffuse detail noted in Red Spot

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date *Aug. 22-23 1961* Planet *JUPITER*
 Period of Observation *01.52 - 04.44* U.T.
 Telescope *8" Refl.* Power *165x*
 Seeing (0 worst-10 best) *4-2* Transparency (0 worst-5 best) *3-2*
 Observer .. *K. B. Beach*

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
216	Dc proj. NEB S	01.52	295 [✓]	—
217	Df " " "	01.58	299 [✓]	—
218	Df base proj. " "	02.04	303 [✓]	—
219	Wc large area betw. NEB & SEB	02.30	318 [✓]	—
220	Wp oval STB	02.38	—	279 [✓]
221	Wc " " "	02.52	—	287 [✓]
222	Dp base festoon NEB S	02.52	332 [✓]	—
223	Dc " " " "	03.03	338 [✓]	—
224	Wf oval STB	03.03	—	294 [✓]
225	Df base festoon NEB S	03.07	341 [✓]	—
226	Df festoon SEB N	03.14	345 [✓]	—
227	Dp proj. NEB S	03.45	344 [✓]	—
228	Df " " " "	03.49	7 [✓]	—
229	Wc oval " "	04.04	15 [✓]	—
230	Dp base festoon NEB S	04.08	18 [✓]	—
231	Wf oval " "	04.14	22 [✓]	—
232	Dc base festoon " "	04.27	30 [✓]	—
233	Wp bay STB	04.28	—	346 [✓]
234	Df base fest. NEB S	04.39	37 [✓]	—
235	Dp R.S. STZ	04.44	—	356 [✓]

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Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date ... *Aug. 31 / Sept. 1, 1961* ... Planet ... *Jupiter* ...
 Period of Observation ... *01:22* ... - ... *03:00* ... U.T.
 Telescope ... *8" Refl.* ... Power ... *165x* ...
 Seeing (0 worst-10 best) ... *6-5* ... Transparency (0 worst-5 best) ... *3-0* ...
 Observer ... *K. Branch* ...

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
248	WC light area Sedge NEB	01:22	258 [✓]	—
249	DP base feature	01:34	266 [✓]	—
250	DF " " " "	01:48	275 [✓]	—
251	WC oval	02:02	283 [✓]	—
252	DP base feature	02:14	290 [✓]	—
253	DC " " " "	02:22	295 [✓]	—
254	DF " " " "	02:28	298 [✓]	—
255	WC dusky oval	02:38	305 [✓]	—
256	WF " " " "	02:48	311 [✓]	—
257	DC base feature	02:54	314 [✓]	—
258	DF " " " "	03:02	328 [✓]	—

Steady seeing revealed fine detail which is usually too washed out to be accurately drawn, intermittent clouds hampered observation towards the end however.

Date : Sept. 1/2/1961

Planet : Jupiter

Tele: 8" Refl. 165x

Sec. 6-4

Tran. 3-1

No	Object	Time UT	I	II
259	Dp proj. S edge NEB	0044	31✓	—
260	Dc " " "	0050	37✓	—
261	Df beat " "	0056	40✓	—
262	Wc oval " "	01 12 12	40 49✓	—
263	Wf " " "	0130	61✓	—
264	Wc light area " "	0212	87✓	—
265	Dp base fest. " "	0227	96✓	—
266	Wp bay STB	0230	—	338✓
267	Wp streak NEB	0232	—	339✓!
268	Df base festoon Sed NEB	0242	105✓	—
269	Wf streak NEB	0247	—	347✓!
270	Wc light area Sed. NEB	0252	111✓	—
271	Dp RS STZ	0302	—	356✓✓
272	Dp base festoon Sed NEB	0302	117✓	—
273	Dc " " " "	0308	121✓	—
274	Df " " " "	0314	124✓	—
275	Dc RS STZ	0317	—	6✓✓
missy → 276	Wc dusky oval S edge NEB	0322	129✓	—
278	Dp ^{box} proj sedg. NEB	0327	132✓	—
279	Dc " " " "	0331	135✓	—
280	Df RS STZ	0334	—	18✓✓
281	Df base proj. S edge NEB	0335	137✓	—
282	Wc dusky oval " "	0343	142✓	—
283	Wf " " " "	0353	148✓	—

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PLANETARY OBSERVATIONS
 Central Meridian Transits

Date ... *Sep. 5/6... 1961* ... Planet ... *Jupiter* ...
 Period of Observation ... *01:05...-03:20* ... U.T.
 Telescope ... *8" Refl* ... Power ... *165x* ...
 Seeing (0 worst-10 best) ... *3* ... Transparency (0 worst-5 best) ... *2-3* ...
 Observer ... *K. B. Beach* ...

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
284	Df. base feston	S edge NEB	01:05	317 ✓ —
285	Dc. proj	" " "	01:18	325 ✓ —
286	Dp. low proj	S " SEB	01:23	328 ✓ 178
287	Wc. oval	" " NEB	01:27	331 ✓ —
288	Dc. low proj	" " SEB	01:30	333 ✓ 181
289	Df. " "	" " "	01:38	337 ✓ 187
290	Dp. base fest	" " NEB	01:38	337 ✓ —
291	Dc. " "	" " "	01:46	342 ✓ —
292	Df. " "	" " "	01:53	347 ✓ —
293	Wc. oval	" " "	02:04	353 ✓ —
294	Dp. proj	" " "	02:13	359 ✓ —
295	Dc. " "	" " "	02:20	3 ✓ —
296	Df. " "	" " "	02:28	8 ✓ —
297	Wc. large oval	" " "	02:45	18 ✓ —
298	Wp. notch	N " "	02:52	— 231 ✓
299	Wc. " "	" " "	02:59	— 236 ✓
300	Dp. proj	S " "	03:00	27 ✓ —
301	Wf. notch	N " "	03:05	— 240 ✓
302	Dc. proj	S " "	03:09	34 ✓ —
303	Df. " "	" " "	03:20	39 ✓ —

ROYAL ASTRONOMICAL SOCIETY OF CANADA
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PLANETARY OBSERVATIONS
Central Meridian Transits

Date Sept. 10. 14. 1961 Planet Jupiter
 Period of Observation 23:55 - 03:45 U.T.
 Telescope 8" Refl Power 240x
 Seeing (0 worst-10 best) .. 4-2 Transparency (0 worst-5 best) .. 2-3 ..
 Observer K. Branch

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
304	Dc. base proj. S edge NEB	23:55	344 [✓]	-
305	Df. " " " "	00:02	348 [✓]	-
306	Df. festoon N " SEB _m	00:10	353 [✓]	-
307	Dp. base fest. S " NEB	00:16	357 [✓]	-
308	Wf. oval " " "	00:21	360 [✓]	-
309	Dc. base fest. " " "	00:26	3 ^{✓✓}	-
310	Df. " " " " "	00:32	7 [✓]	-
311	Df. festoon N " SEB _m	00:38	10 [✓]	-
312	Dc. low proj. S " NEB	00:51	18 [✓]	-
313	Wc. large area between NEB & SEB _m	00:55	21 ^{✓✓}	-
314	Dp. proj. S edge NEB	01:12	31 [✓]	-
315	Dc. " " " "	01:21	36 [✓]	-
316	Df. " " " "	01:30	42 [✓]	-
317	Wc. long oval " " "	01:55	57 [✓]	-
318	Wp. notch N " "	01:58	-	230 [✓]
319	Wc. " " " "	02:07	-	235 [✓]
320	Wf. " " " "	02:16	-	241 [✓]
321	Dp. base proj. S " "	02:21	73 [✓]	-
322	Df. " " " "	02:30	79 [✓]	-
323	Df. " " " "	02:38	83 [✓]	-

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PLANETARY OBSERVATIONS
 Central Meridian Transits

Date *Sep. 10/11/1961* Planet *Jupiter*
 Period of Observation *23:55 - 03:45* U.T.
 Telescope *8" Refl.* Power *240x*
 Seeing (0 worst-10 best) .. *4-2* ... Transparency (0 worst-5 best) .. *2-3* ..
 Observer *K. B. Smith*

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II

324	<i>We. very bright oval. S edge NEB</i>	<i>02:50</i>	<i>91</i>	<i>—</i>
(500) 325	<i>Wf. " " " "</i>	<i>03:00</i>	<i>99</i>	<i>—</i>
326	<i>Wf. oval. S edge NEB</i>	<i>03:04</i>	<i>—</i>	<i>268</i>
327	<i>Of. dark area between NEB & SEB</i>	<i>03:15</i>	<i>166</i>	<i>—</i>
328	<i>We. oval</i>	<i>03:16</i>	<i>—</i>	<i>275</i>
329	<i>Of. base proj. S edge NEB</i>	<i>03:26</i>	<i>113</i>	<i>—</i>
330	<i>Wf. oval</i>	<i>03:30</i>	<i>—</i>	<i>288</i>
331	<i>Of. base proj. S edge NEB</i>	<i>03:31</i>	<i>116</i>	<i>—</i>
332	<i>Of. " " " " " "</i>	<i>03:36</i>	<i>119</i>	<i>—</i>
333	<i>We. oval</i>	<i>03:45</i>	<i>124</i>	<i>—</i>

New eye piece of 240x employed.

Seeing variable but generally poor.

ROYAL ASTRONOMICAL SOCIETY OF CANADA
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PLANETARY OBSERVATIONS
Central Meridian Transits

Date . . . *Sept. 11/12/1961* . . . Planet . . . *Jupiter* . . .
 Period of Observation . . . *00:05 - 03:34* . . . U.T.
 Telescope . . . *8" Refl.* . . . Power . . . *165x - 240x* . . .
 Seeing (0 worst-10 best) *3.4-3* . . . Transparency (0 worst-5 best) *2-3* . . .
 Observer . . . *K. R. Branch* . . .

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
334	Dp base feature S edge NEB	00:08	150 [✓]	-
335	Dc " " " "	00:14	156 [✓]	-
336	Df " " " "	00:24	160 [✓]	-
337	Df feature N " SEB	00:30	163 [✓]	-
338	Wc oval S " NEB	00:35	166 [✓]	-
339	Wp bay STB	00:42	-	334 [✓]
340	Wc streak NEB	00:45	-	336 [✓]
341	Dp ^{dusk} gap between NEB & SEB	00:55	178 ^W	-
342	Wc bay STB	00:58	-	344 ^W
343	Dc dusky area NEB & SEB	01:14	190 ^W	-
344	Dp R.S. STZ	01:22	-	358 ^W
345	Df dusky area NEB & SEB	01:28	199 ^W	-
346	Dc R.S. STZ	01:38	-	8 ^W
347	Wc oval S edge NEB	01:42	207 [✓]	-
348	Dp base ray " "	01:54	215 [✓]	-
349	Df R.S. STZ	01:55	-	19 ^W
350	Dc base ray S edge NEB	02:02	219 [✓]	-
351	Df " " " "	02:10	224 [✓]	-
352	Dc dusky area	02:19	230 [✓]	-
353	Dp base ray " "	02:34	239 [✓]	-

Sep. 15/16 1961

JUPITER

Period - 0108 - 0230

Tele. 8" Refl.

Power 240

Sec - 3

Trans. 2-3

Observer - K. Brasch

362	Wp	gap	NEB	N edge	01.12	-	231 [✓]
363	Wc	"	"	"	01.18	-	237 [✓]
364	Wf	"	"	"	01.24	-	241 [✓]
365	Dp	base proj.	S edge	NEB	01.25	108 [✓]	83 -
³⁶⁶ 366	Dc	"	"	"	01.32	112 [✓]	85 -
³⁶⁸ 367	Df	"	"	"	01.40	117 [✓]	92 -
³⁷⁰ 368	Wp	bay	STB		02.02	-	264 [✓]
³⁷⁶ 369	Wc	^{dusky} oval	S	"	02.04	132 [✓]	107 -
³⁷⁷ 370	Wc	bay	STB		02.18	-	273 [✓]
³⁷⁸ 371	Wf	^{dusky} oval	S	"	02.28	147 [✓]	122 -
³⁷⁹ 372	Wf	bay	STB		02.30	-	281 [✓]

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date .. SEPT 17/18 1961 .. Planet JUPITER ..
 Period of Observation .. 02:35-03:45 .. U. T.
 Telescope .. 8" REFLECTOR .. Power .. 240X ..
 Seeing .. 2-1 .. Transparency .. 4 ..
 Observer .. S. WEDGE ..
 Address ..
 Telephone ..

Serial No	Description of Feature		Transit Time U.T.		Longitude	
			I	II	I	II
83	D.P. PROJ S EDGE	N.E.B.	02:40		110°	-
84	D.C. PROJ S EDGE	N.E.B.	02:45		113°	-
85	P. NOTCH N EDGE	N.E.B.	02:47		114°	231
86	D.F. PROJ S EDGE	N.E.B.	02:50		116°	232
87	C. NOTCH N EDGE	N.E.B.	02:51		116°	234
88	F. NOTCH N EDGE	N.E.B.	02:56		119°	237
89	D. PROJ S EDGE	S.T.B.	03:39		-	263
90						
91						
92						
93						
94						
95						
96						
97						
98						
99						
100						

Date: Sep 18/19 1961

Period - UT 01:22 - 03:00

Tele. 8" Ref

Power 240

Sec. 5-3

Trans. 4

				I	II
380373 Df	base festoon	S edge NEB	01:22	220 ^v	-
381374 Wc	bay	STB	01:38	-	34 ^v
382375 Wc	light area	S " "	01:44	233 ^v	-
383376 Wc	streak	NEB	01:49	-	347 ^v
384377 Dp	base fest.	S edge NEB	01:52	235 ^v	-
385378 Dc	" "	" "	01:58	242 ^v	-
386379 Wf	streak	NEB	02:04	-	356 ^v
387380 Dp	Red Spot	STZ	02:06	-	357 ^v
388381 Df	base festo	S ed. NEB	02:08	248 ^v	-
389382 Df	condensation in	Red Spot STZ	02:12	-	360 ^v
390383 Wp	"bay" N edge	NEB	02:18	-	4 ^v
391384 Wc	oval S	" "	02:20	255 ^v	-
392385 Dc	Red Spot	STZ	02:22	-	6 ^v
393386 Dc	low proj.	S edge SEBn	02:30	262 ^v	#
394387 Dp	cond. in	Red Spot STZ	02:32	-	12 ^v
395388 Dp	rod N edge	NEB	02:36	-	15 ^v
396389 Wp	white spot in	NEB	02:38	-	16 ^v
397390 Dp	base fest.	S edge NEB	02:38	266 ^v	-
398391 Df	Red Spot	STZ	02:40	-	17 ^v
399392 Dc	rod N edge	NEB	02:42	-	18 ^v
400393 Dc	base fest.	S edge NEB	02:44	273 ^v	-
401394 Df	rod N edge	NEB	02:50	-	23 ^v
402395 Wf	white spot in	NEB	02:52	-	25 ^v
403396 Df	base fest	S edge NEB	03:00	280 ^v	-

Finest view ever for sheer beauty

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date *Sep. 22/23, 1961* Planet *Jupiter*
 Period of Observation *23.56 - 03.10* U.T.
 Telescope *8" Refl.* Power *240*
 Seeing (0 worst-10 best) *2-4* Transparency (0 worst-5 best) *3*
 Observer *K. Brasch*

Serial No	Description of Feature		Transit Time U.T.	Longitude	
				I	II
398	Df. base festoon	S edge NEB	23.56	79 [✓]	-
399	Df. festoon	N. " SEB _n	00.06	85 [✓]	-
400	Dc. low proj.	S. " NEB	00.18	92 [✓]	-
401	Wc. large oval	" " "	00.24	96 [✓]	-
402	Dp. base proj.	" " "	00.44	105 [✓]	-
403	Wc. inclined white spot	N. " SEB _n	00.51	112 [✓]	-
404	Dc. base proj.	S. " NEB	00.53	114 [✓]	-
405	Df. " "	" " "	00.58	117 [✓]	-
406	Df. festoon	N. " SEB _n	01.08	123 [✓]	-
407	Wc. oval	S. " NEB	01.18	129 [✓]	-
408	Dc. diffuse proj.	" " "	01.33	138 [✓]	-
409	Wc. very small oval	" " "	01.40	142 [✓]	-
410	Wp. notch	N. " "	01.47	-	226 [✓]
411	Dp. proj.	S. " "	01.48	147 [✓]	-
412	Df. " "	" " "	01.54	151 [✓]	-
413	Wc. notch	N. " "	01.55	-	231 [✓]
414	Wf. " "	" " "	02.00	-	234 [✓]
415	Wc. oval	S. " "	02.02	156 [✓]	-
416	Dc. proj.	" " "	02.10	161 [✓]	-
417	Wc. oval	" " "	02.27	171 [✓]	-

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Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date ... *Sept. 22/23/1961* ... Planet ... *Jupiter* ...
 Period of Observation *23:56 - 03:10* ... U.T.
 Telescope ... *8" Refl.* ... Power ... *240* ...
 Seeing (0 worst-10 best) ... *2-4* ... Transparency (0 worst-5 best) ... *3* ...
 Observer ... *K. Brauch* ...

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II

<i>417</i>	<i>Dp. dark area between NEB & SEB₁</i>	<i>02:42</i>	<i>180^v</i>	<i>-</i>
<i>418</i>	<i>Wp bay S.T.B.</i>	<i>02:49</i>	<i>-</i>	<i>264^v</i>
<i>419</i>	<i>Wc. inclined white spot N. edge SEB₁</i>	<i>02:57</i>	<i>189^v</i>	<i>-</i>
<i>420</i>	<i>Wc. bay S.T.B.</i>	<i>02:58</i>	<i>-</i>	<i>269^v</i>
<i>421</i>	<i>Wf. inclined white spot " " "</i>	<i>03:04</i>	<i>193^v</i>	<i>-</i>
<i>422</i>	<i>Df. dark area between NEB & SEB₁</i>	<i>03:07</i>	<i>195^v</i>	<i>-</i>
<i>423</i>	<i>Wf. bay S.T.B.</i>	<i>02:48</i>	<i>-</i>	<i>275^v</i>

Seeing generally very poor

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date Oct. 8/9 1961 Planet Jupiter

Period of Observation 22.44 - 00.32 U.T.

Telescope 8" Refl. Power 240

Seeing (0 worst-10 best) 4-2 Transparency (0 worst-5 best) 3-1

Observer

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
447	Dp. Red Spot STZ	22.44	-	358 [✓]
448	Df. " " " "	23.16	-	17 [✓]
449	Wc. large white area S edge NEB	23.20	62 [✓]	-
450	Df. diffuse low red N " "	23.23	-	22 [✓]
451	Wc. faint bright area S " S5TB	23.28	-	25 [✓]
452	Dp. base festoon S " NEB	23.44	76 [✓]	-
453	Wc. low bay N " "	23.46	-	36 [✓]
454	Dc. base festoon S " "	23.51	81 [✓]	-
455	Df. " " " " "	23.58	85 [✓]	-
456	Wf. low bay N " "	00.02	-	45 [✓]
457	Df. festoon N " SEB ₀	00.04	88 [✓]	-
458	Wc. oval S " NEB	00.12	93 [✓]	-
459	Wf. " " " "	00.20	98 [✓]	-
460	Wc. approximate position of very			
	diffuse white spot in S5TB	00.28	-	61 [✓]
461	Dp. base festoon S edge NEB	00.32	106 [✓]	-
Last three timings made under				
very poor seeing				

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date *Oct. 22/23* *1961* Planet *Jupiter*
 Period of Observation *23:28* - *00:22* U.T.
 Telescope *8" Refl.* Power *240*
 Seeing (0 worst-10 best) .. *3.0* ... Transparency (0 worst-5 best) .. *4*
 Observer *K. Brasch*

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
462	<i>Dc base proj. S edge NEB</i>	<i>23:28</i>	<i>115</i> ✓	-
463	<i>Df " " " " "</i>	<i>23:34</i>	<i>119</i> ✓	-
464	<i>Wc oval " " "</i>	<i>23:55</i>	<i>132</i> ✓	-
465	<i>Wp bay N " "</i>	<i>23:58</i>	-	<i>344</i> ✓
466	<i>Dp low proj S " SEB_n</i>	<i>00:00</i>	<i>135</i> ✓	<i>346</i> ✓
467	<i>Wc bay N " NEB</i>	<i>00:06</i>	-	<i>349</i> ✓
468	<i>Df low proj S " SEB_n</i>	<i>00:08</i>	<i>139</i> ✓	<i>350</i> ✓
469	<i>Dp cond N " NEB</i>	<i>00:15</i>	-	<i>355</i> ✓
470	<i>Dp R. S. STZ</i>	<i>00:22</i>	-	<i>359</i> ✓

Note: Last four transits may not too accurate due to extremely poor seeing.

ROYAL ASTRONOMICAL SOCIETY OF CANADA
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PLANETARY OBSERVATIONS
Central Meridian Transits

Date ... *November 12/13* Planet ... *Jupiter*
 Period of Observation ... *22:00 - 23:47* U.T.
 Telescope ... *B# Refl.* Power ... *245*
 Seeing (0 worst-10 best) ... *4-2* Transparency (0 worst-5 best) ... *4-5*
 Observer ... *K. Braach*

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
481	Df. Fretton N edge SEB _n	22:00	133 ✓	—
482	Wc oval S "	22:02	134 ✓	—
483	Dp proje. " "	22:14	142 ✓	—
484	Df. proje. " "	22:22	147 ✓	—
485	Wc oval " "	22:25	151 ✓	—
486	Dp base fretton " "	22:40	158 ✓	—
487	Dc base fret. " "	22:48	163 ✓	—
488	Df. " " "	22:55	170 ✓	—
489	Wc oval " "	23:08	175 ✓	—
490	Dc proj. " "	23:14	178 ✓	—
491	Wc notch N "	23:21	—	234 ✓
492	Wc oval S "	23:35	191 ✓	—
493	Wp oval STB	23:47	—	259 ✓

Note - new eyepiece employed

Something peculiar here.

ROYAL ASTRONOMICAL SOCIETY OF CANADA
Montreal Centre

PLANETARY OBSERVATIONS
Central Meridian Transits

Date .. ^{25/26} ~~Nov 24/25~~ 1961 .. Planet .. Jupiter ..
 Period of Observation .. 21:37 - 23:12 .. U.T.
 Telescope .. 8" Refl. .. Power .. 245x ..
 Seeing (0 worst-10 best) .. 4-8 .. Transparency (0 worst-5 best) .. 3-4 ..
 Observer .. K. Brasch ..

Serial No	Description of Feature	Transit Time U.T.	Longitude	
			I	II
494	Dp base prop. S edge NEB	21:37	9 [✓]	-
495	Wp streak N " "	21:44	-	326 [✓]
496	Dc base prop. S " "	21:48	16 [✓]	-
497	Wc streak N " "	21:51	-	330 [✓]
498	Df base prop. S " "	21:59	22 [✓]	-
499	Dp Red N " "	22:04	-	338 [✓]
500	Wc oval S " "	22:10	29 [✓]	-
501	Dc Red N " "	22:12	-	343 [✓]
(50016) 502	Df " " " "	22:21	-	348 [✓]
503	Dp base feature S " "	22:25	39 [✓]	-
504	Dc " " " " "	22:32	43 [✓]	-
505	Wc approximate position bright patch S713	22:37	-	357 [✓]
506	Dp Red Spot S72	22:40	-	359 [✓]
507	Df base feature S edge NEB	22:43	49 [✓]	-
508	Df center in Red Spot S72	22:47	-	3 [✓]
509	Dc Red Spot S72	22:57	-	10 [✓]
510	Wc oval S edge NEB	23:03	61 [✓]	-
511	Df Red Spot S72	23:12	-	19 [✓]

.....
 Last 3 transits uncertain due to very poor seeing

SYSTEM II
160 200

240

280

320

0

1961
APR 6

0

40

80

120

200

APR 16

APR 26

MAY 6

MAY 16

MAY 26

JUN 5

JUN 15

JUN 25

JUL 5

JUL 15

JUL 25

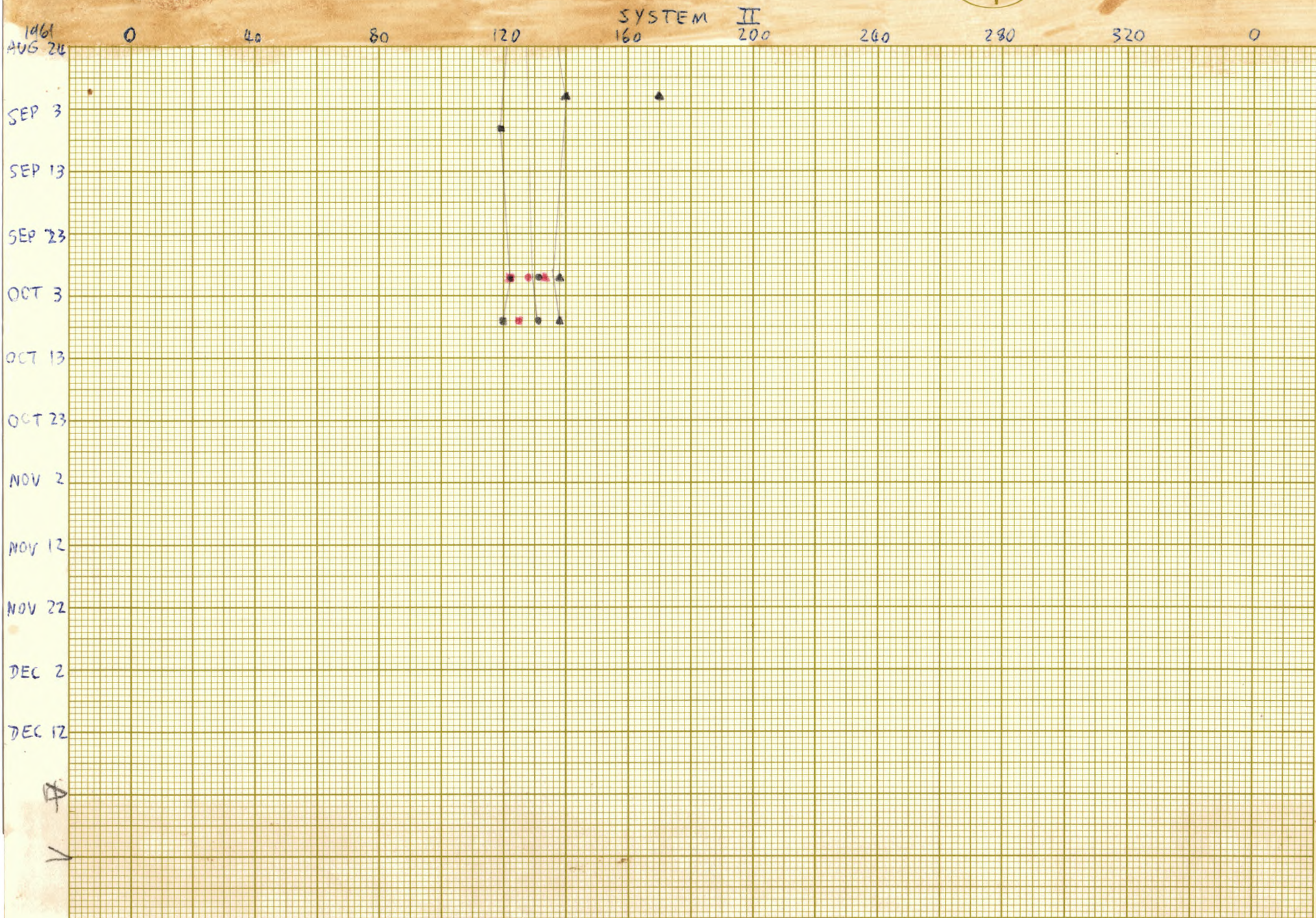
AUG 4

AUG 14

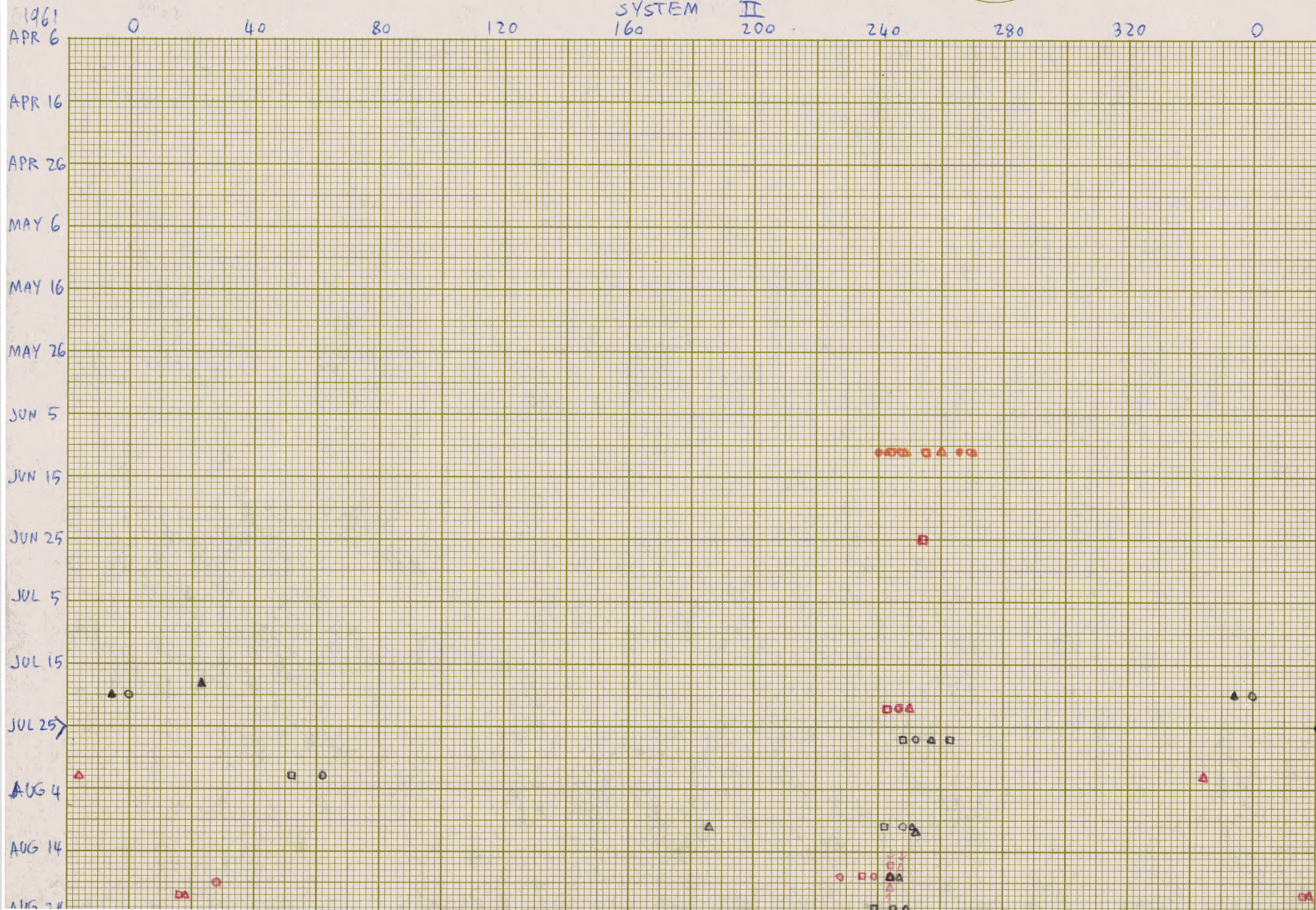
AUG 24



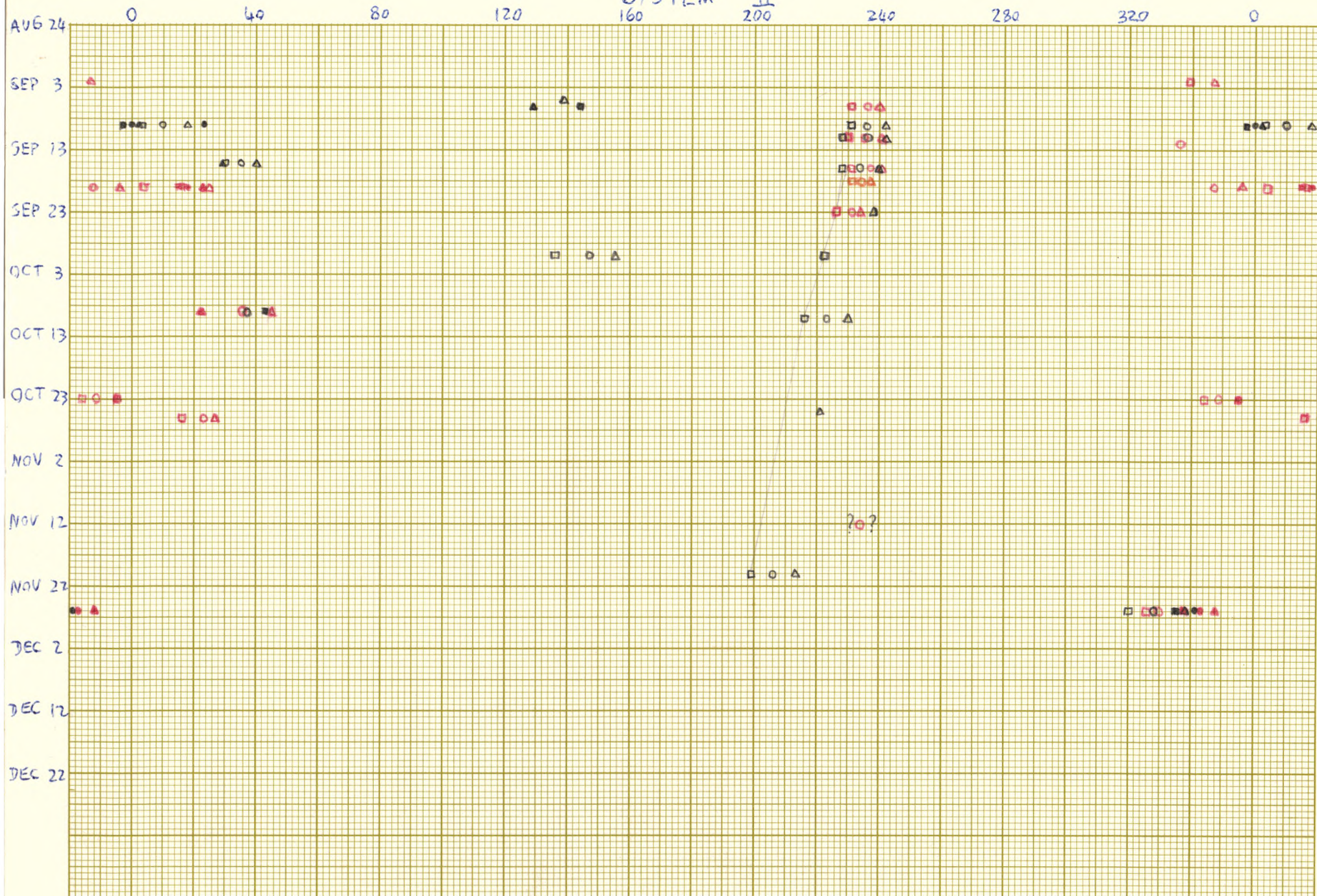
INTD



SYSTEM II
160 200



SYSTEM II



N edge WEB

SYSTEM I
160 200

1961
APR 6 0 40 80 120 160 200 240 280 320 0

APR 16

APR 26

MAY 6

MAY 16

MAY 26

JUN 5

JUN 15

JUN 25

JUL 5

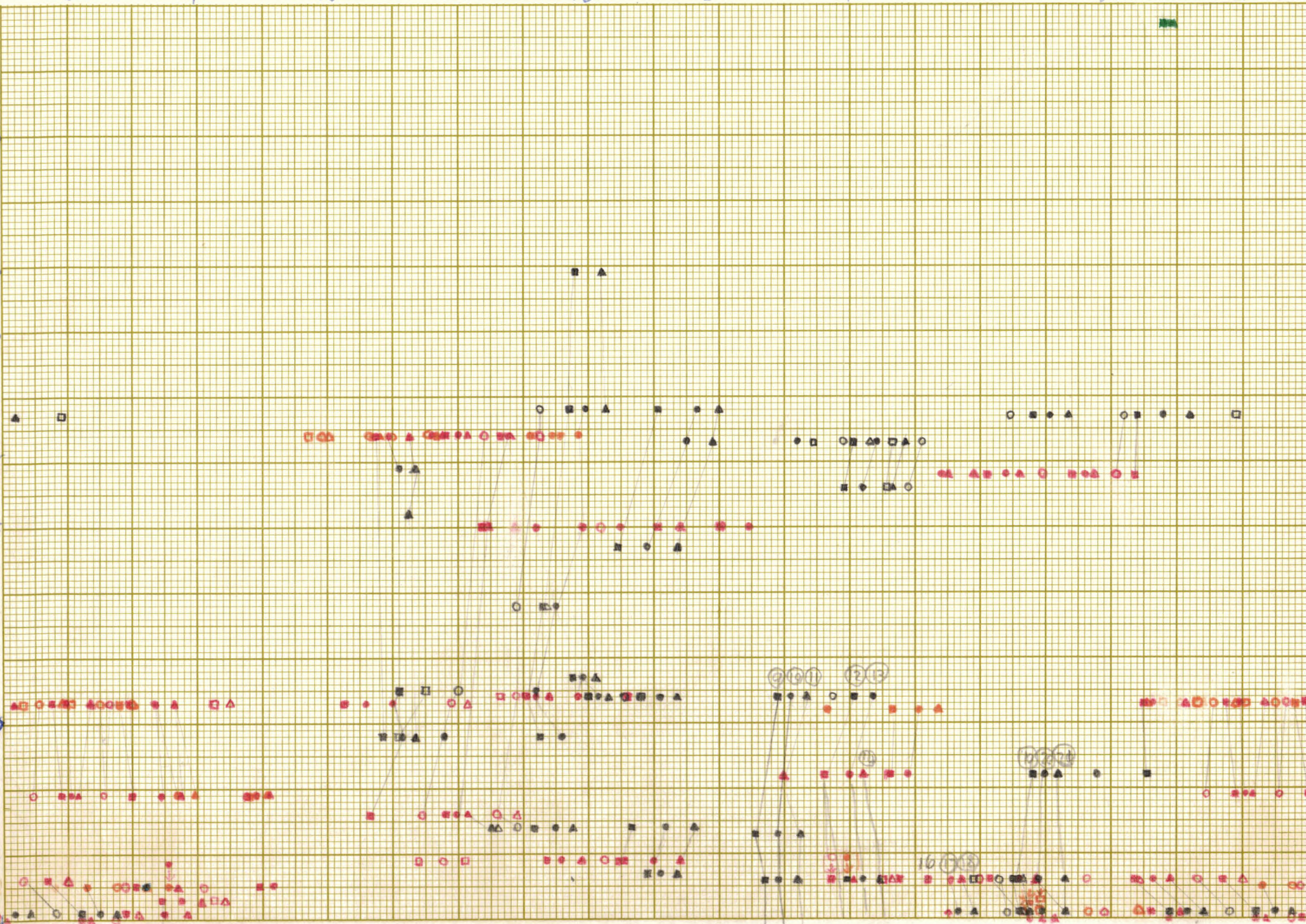
JUL 15

JUL 24

AUG 4

AUG 14

AUG 24



Sage Net

SYSTEM
I
160 200

1961
AUG 24

SEP 3

SEP 13

SEP 23

OCT 3

OCT 13

OCT 23

NOV 2

NOV 12

NOV 22

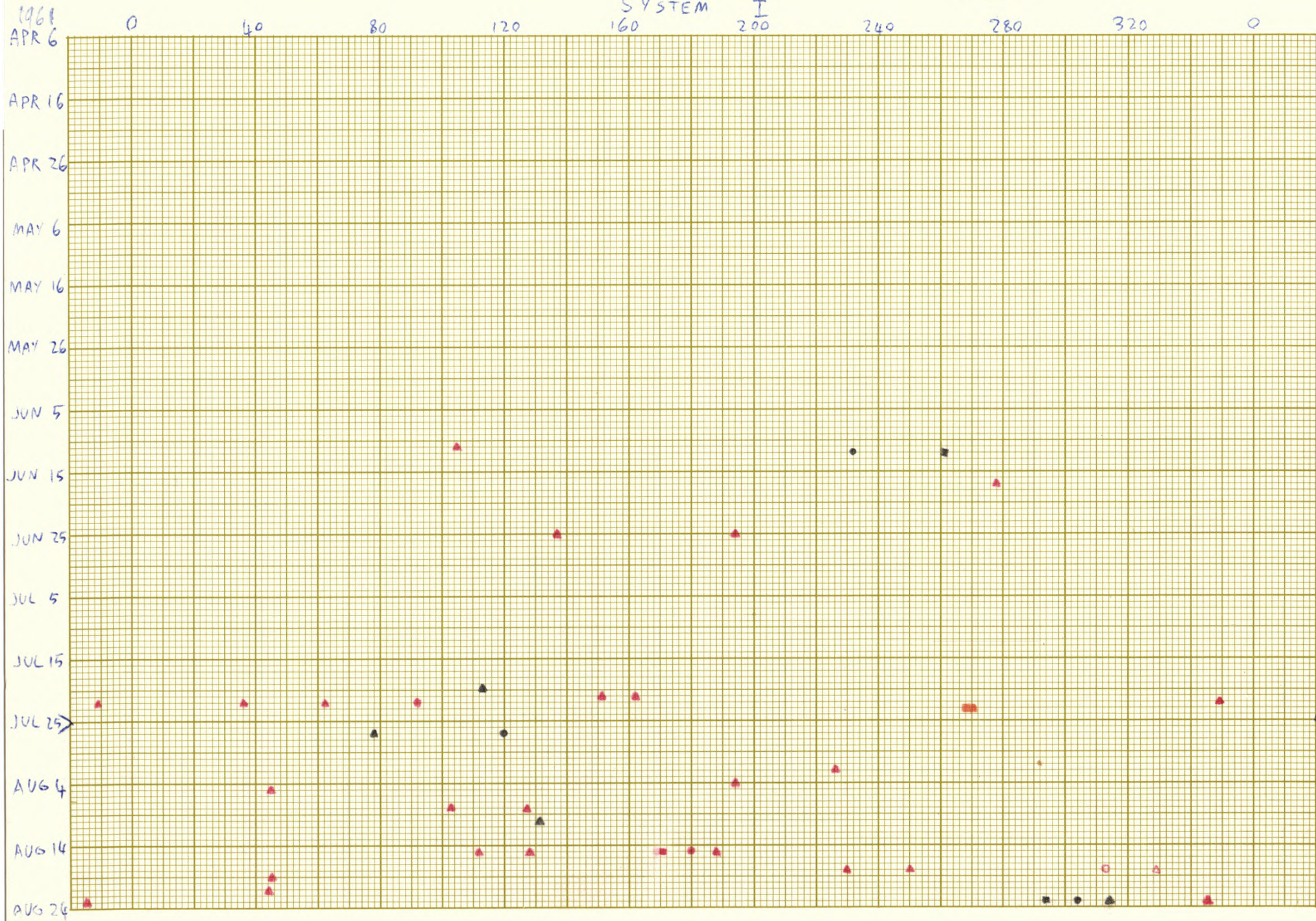
DEC 2

DEC 12

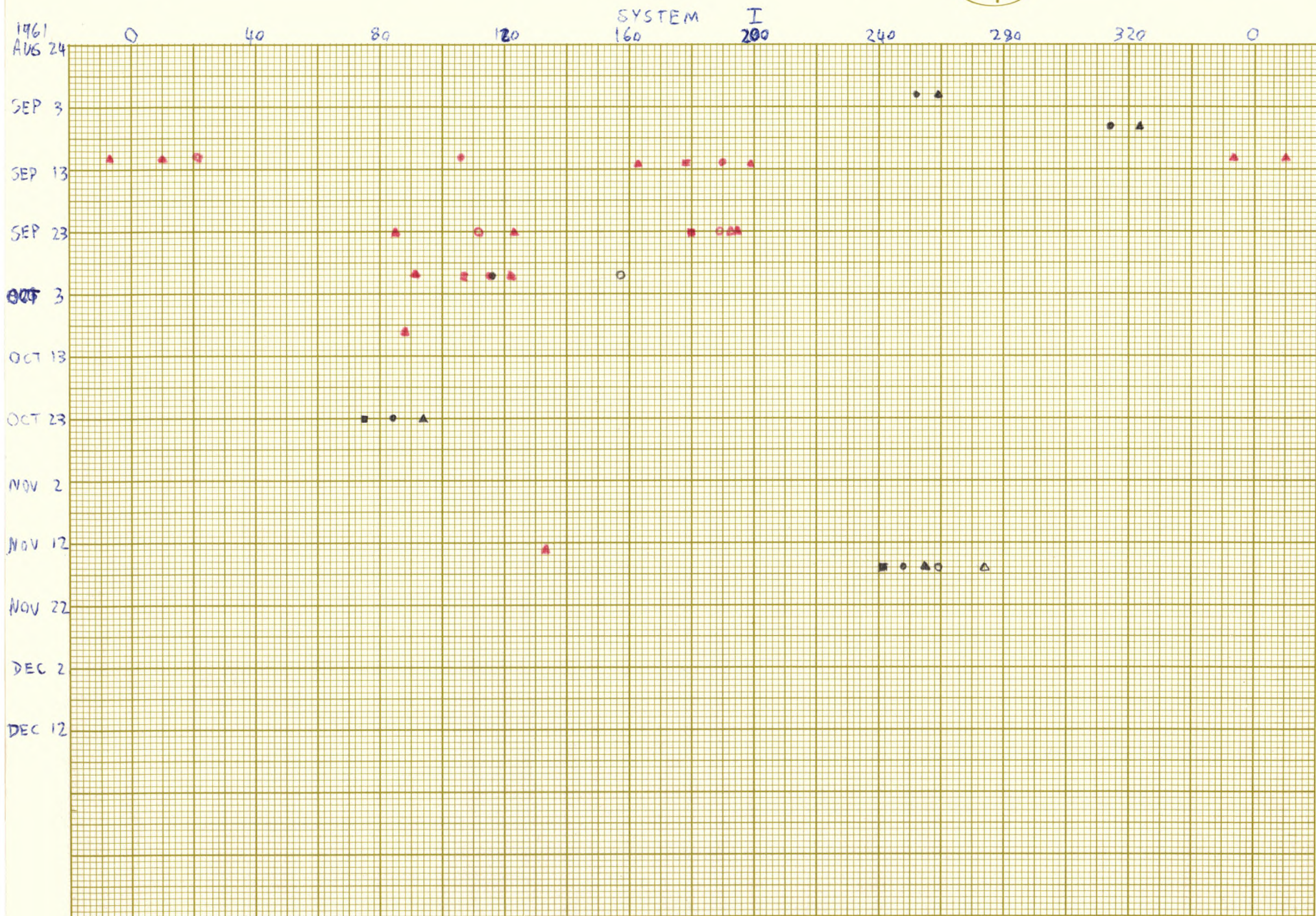


S. J. NEB

SYSTEM I

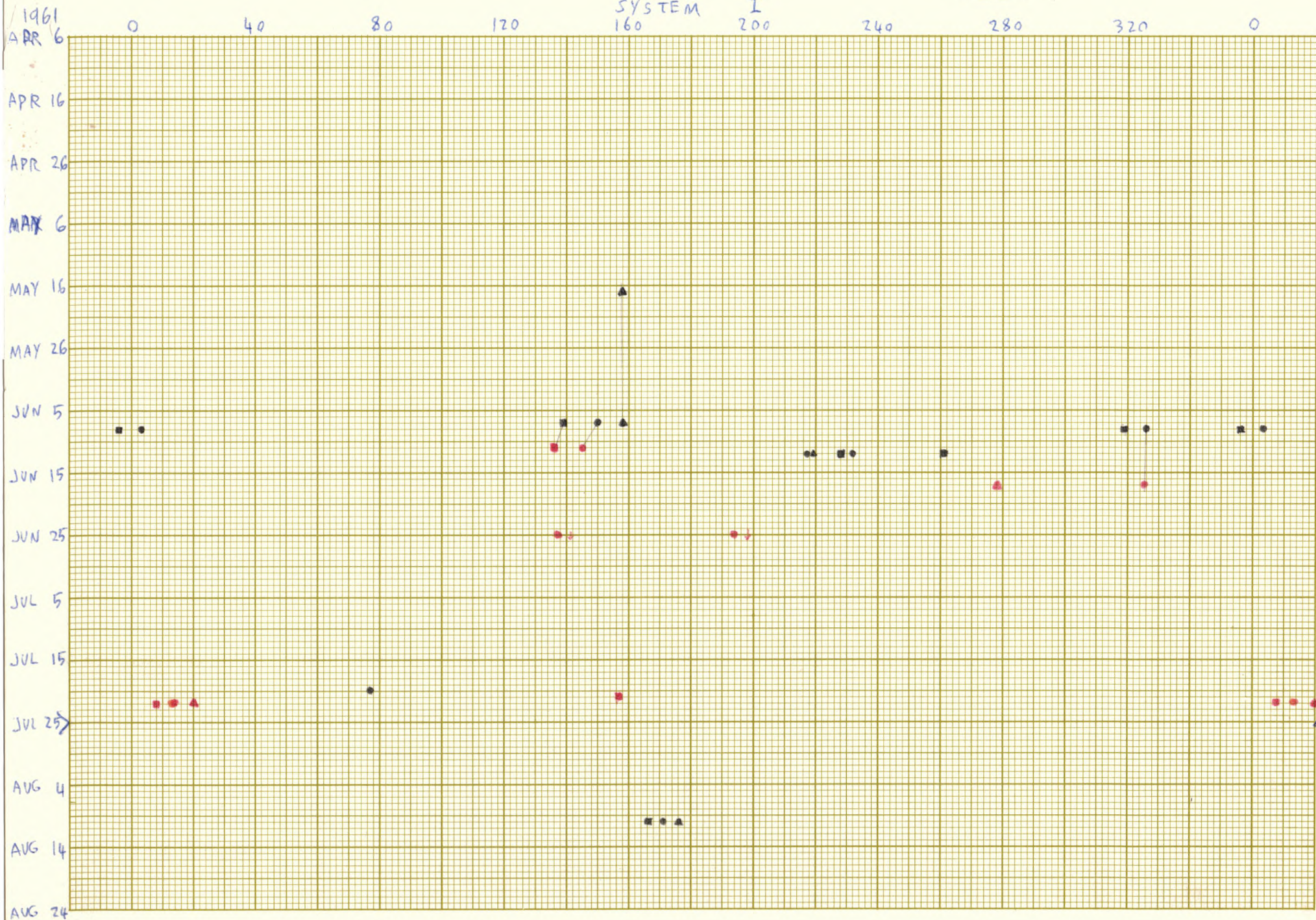


E2D, Nedg SERm

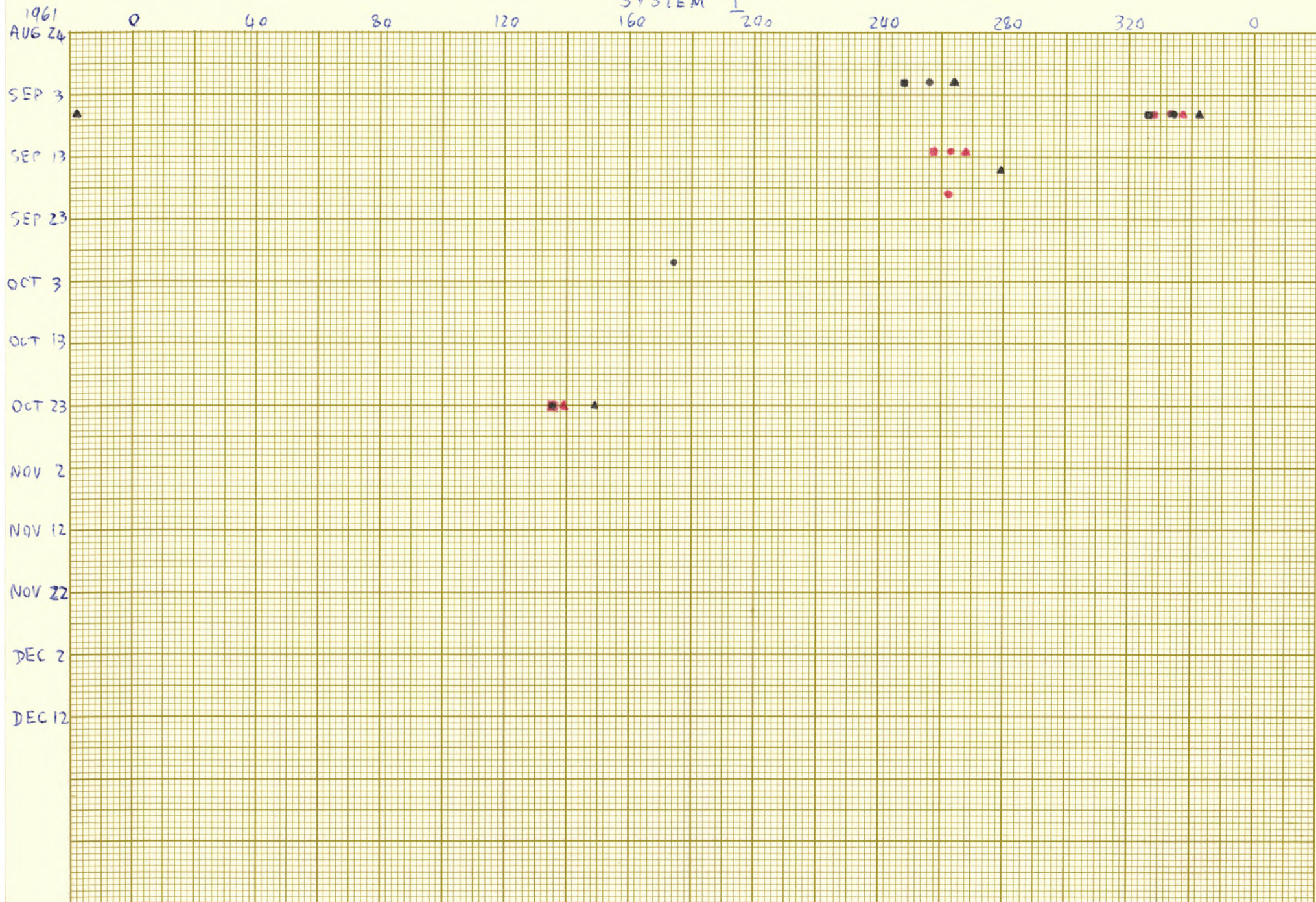


E20, Node SEBn

SYSTEM I
160 200



SYSTEM I
200



SEBm

SYSTEM II

1961
APR 6

0 40 80 120 160 200 240 280 320 0

APR 16

APR 26

MAY 6

MAY 16

MAY 26

JUN 5

JUN 15

JUN 25

JUL 5

JUL 19

JUL 25

AUG 4

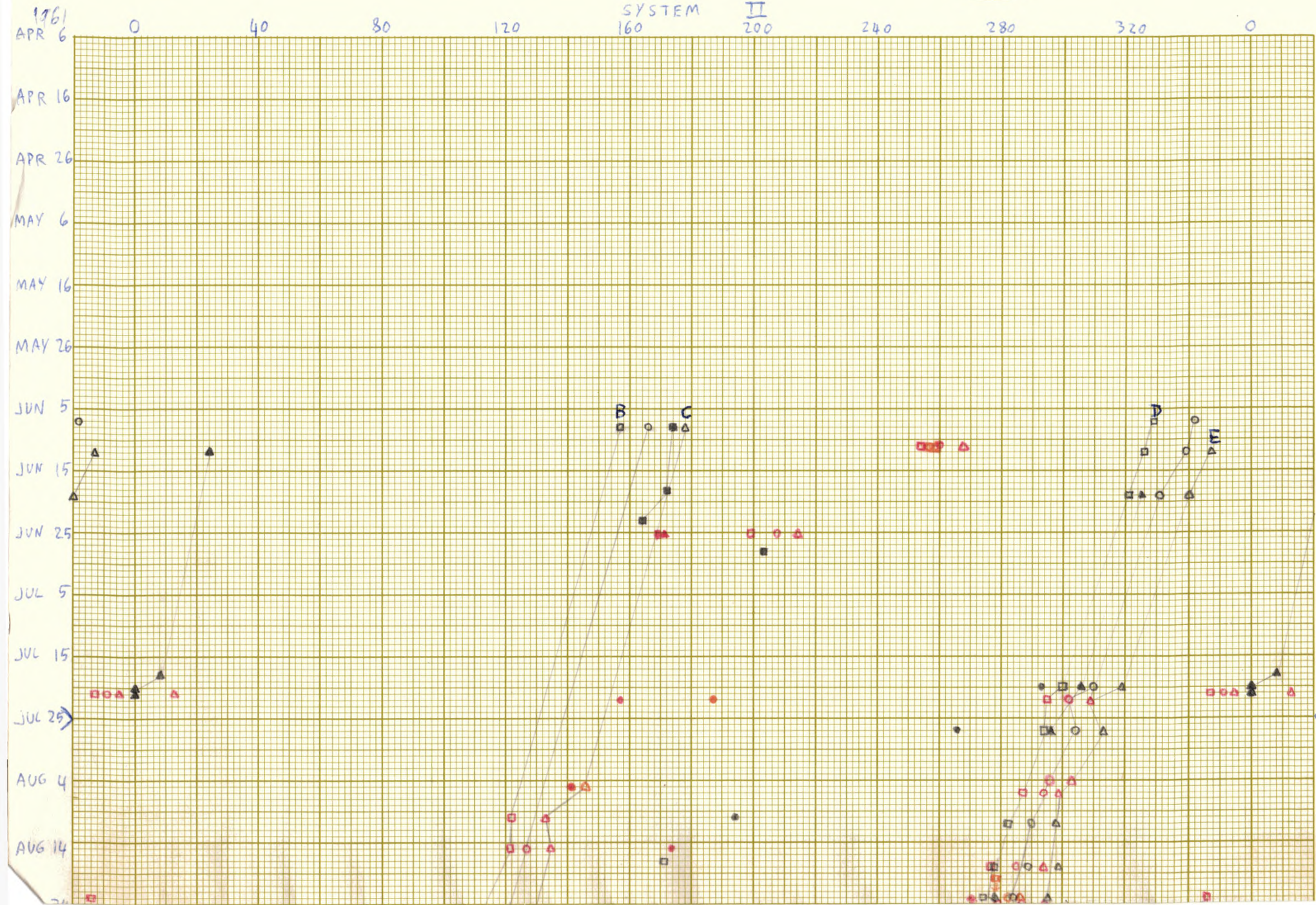
AUG 14

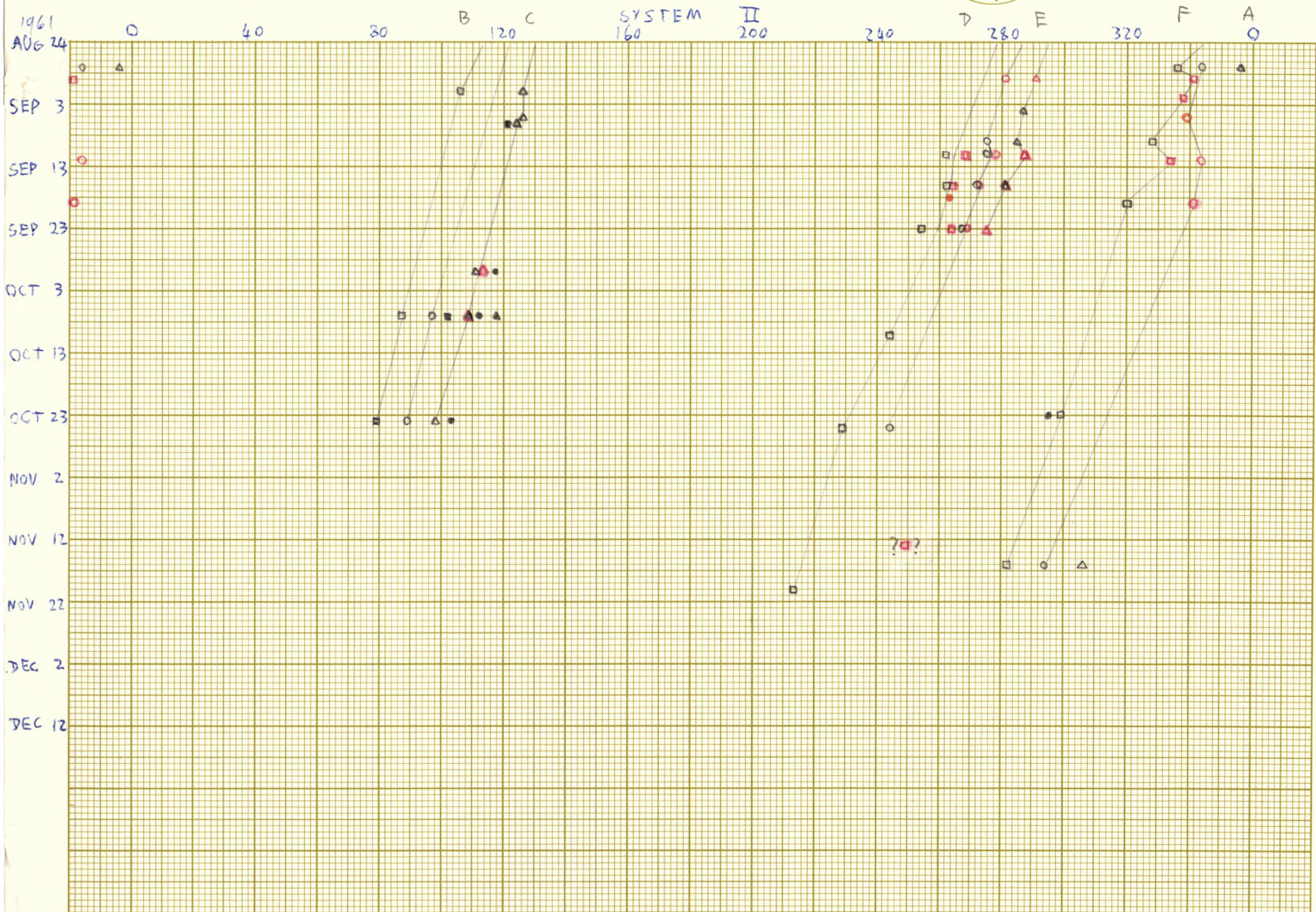
AUG 21

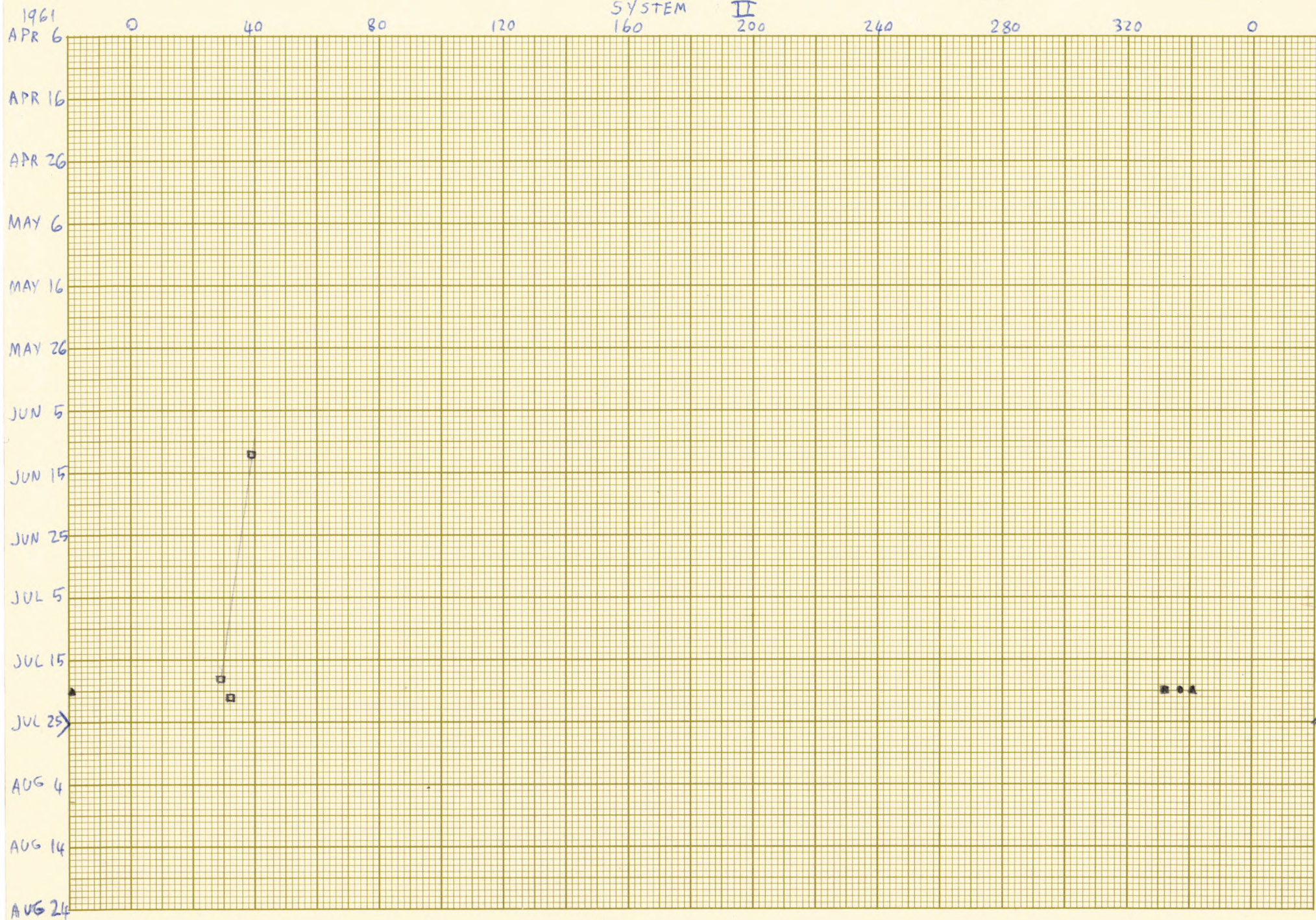


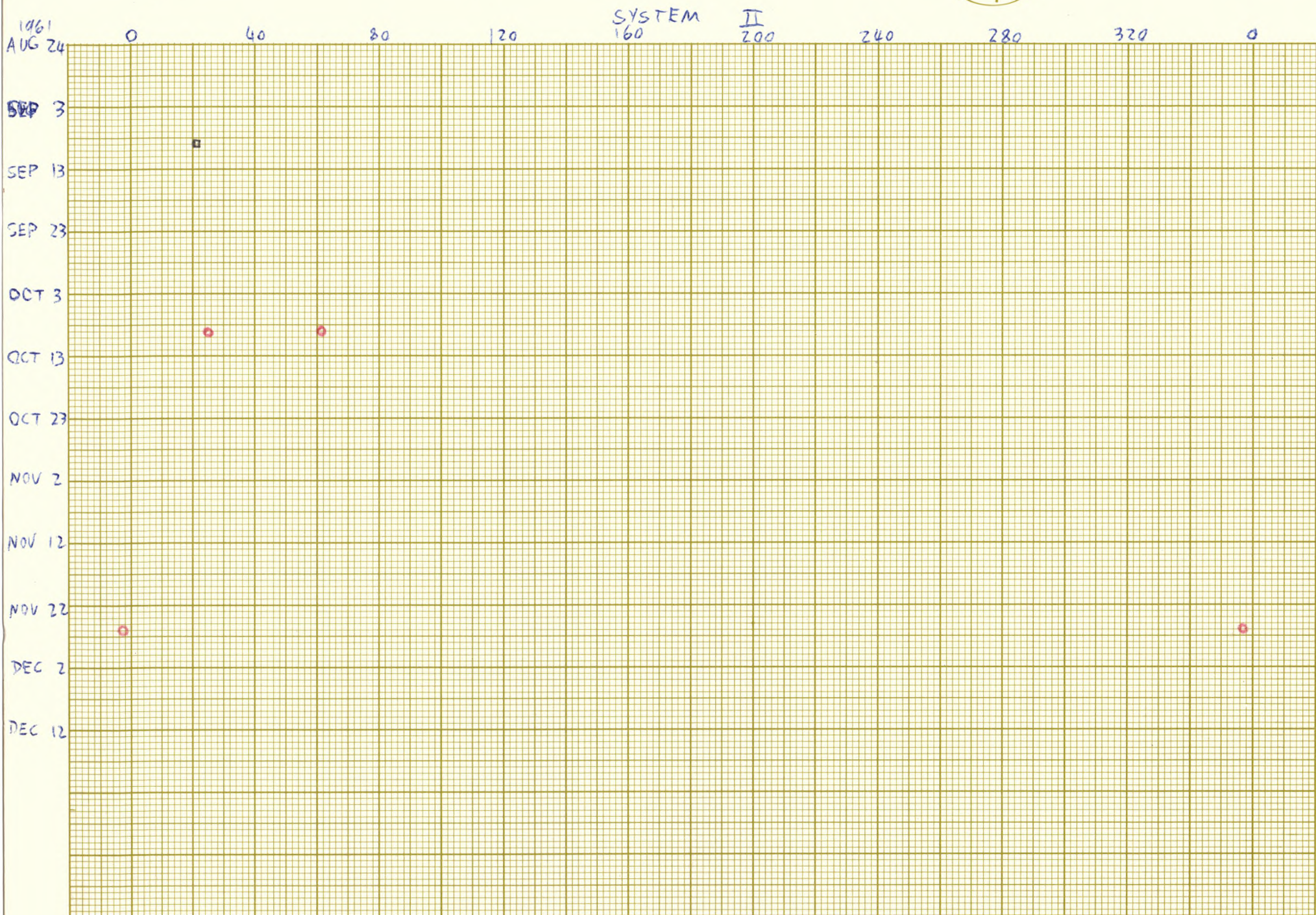
5112

SYSTEM II
160 200









SSTB, SSTe2, SPR

G.G.	18/8	23/8	6/9	11/9
DATE	18/8	23/8	6/9	11/9
U.T	05:36	01:33	01:34	00:50
W ₁	144	284	335	18
W ₂	13	240	184	189
TEL	8Lx240	8Lx240	8Lx240	8Lx240
S	4	2	2	3
T	6	3	4	2

M

1960

PR	4.2	4.5	4.2	4.2	4.3 (4)	4.2	1
SSTZ	5.0	—	—	—	5.0	1	2
SSTB	3.6	4.0	3.7	3.8	3.8	4	3
STeZ	5.8	6.5	6.5	7.0	6.4	4	4
STB	4.2	2.0	2.2	2.5	2.7	4	5
STrZ	6.5	7.0	7.0	7.2	6.9	4	6
RS	3.8	—	—	—	3.8	1	7
SEBS	5.0	5.5	5.0	5.0	5.1	4	8
SEBZ	6.0	6.0	7.0	7.5	6.6	4	9
SEB _m	3.0	2.8	2.8	3.0	2.9	4	10
EZ	5.5	5.0	6.0	6.5	5.8	4	11
NEBS	2.5	2.5	2.5	2.8	2.6	4	12
NEB _n	2.5	2.8	3.0	—	2.9	2	14
NTeZ	6.2	6.0	6.5	7.8	6.6	4	15
NTB	5.2	—	—	—	5.2	1	16
NTeZ	6.0	6.0	6.5	7.8	6.6	4	17
NNTB	3.7	2.8	3.5	3.3	3.3	4	18
NPR	3.8	3.5	3.8	3.8	3.7	4	19
NEBZ	—	—	4.0	—	4.0	1	13

	NO	MARK	LIMITING DATES	LIMITING L.	L.	TRANSITS	DRIFT	PERIOD
NNTB	1	Dp	Aug. 5 - Oct 7	124-122	(123)	8	-0.9	9 55 39
	2	Dc	Aug. 5 - Oct 7	128-131	(127)	6	+0.9	42
	3	Df	Aug. 5 - Oct 7	133-138	(134)	7	+0.9	42
						21	mean	9 55 41

~~KRB~~ Dark rod lying along the south edge of the NNTB.
 Transits: KB(11), 66(8), CW(2)

$$\sigma = 1.5$$

Edge	NEB								
Edge	NEB	1	Wp	Jul 27 - Nov 19	248-199	(248)	14	-12.3	9 55 24
		2	Wc	Jul 27 - Nov 29	252-206	(254)	14	-12.1	9 55 24
		3	Wf	Jul 27 - Nov 29	257-213	(259)	16	-11.3	9 55 25
						44	mean	9 55 24	

~~Notch~~ Notch in the north edge of the NEB. Accelerating & lengthening

$$\sigma = 0.6$$

RS	RSp	Jun. 7 - Nov. 25	345-357	352	22	+1.4	9 55 43
	RSc	Jun 7 - Nov. 25	359 -	9	3	+1.6	9 55 43
	RSf	Jun 7 - Nov. 25	12 - 19	13	19	+1.8	9 55 43
STFZ					63	mean	9 55 43

STB	F	Wp	Aug 23 - Nov. 15	346'-282'	(2)	9	-21.2	9 55 12
	fa	Wc	Aug 28 - Nov. 15	344'-294'	(12)	5	-20.4	13
	B	Wp	Jun 8 - Oct 23	157'-79'	130	6	-17.1	17
	bc	Wc	Jun 8 - Oct 23	166'-89'	139	4	-16.8	18
	C	Wf	Jun 8 - Oct 23	178'-98'	150	12	-17.0	17
	D	Wp	Jun 7 - Nov 19	329'-213'	296	22	-21.1	12
	De	Wc	Jun 7 - Oct 24	342'-244'	306	23	-20.7	12
E	Wf	Jun 12 - Sep 23	347'-275'	314	19	-19.1	15	
					100	mean	9 55 13.7	

$$\sigma = 2.2$$

$$re. = 1.3$$

383 usable 34%
 1119 total

Sedge NEB 1

PRELIMINARY

FINAL PRELIM.

No.	MARK	LIMITING DATES	LIMITING L ₁	L ₂	TRANS	DRIET PERIOD		
						9 ^h	50 ^m	
1	1	Dc	SEP 4 ^G - OCT 24 ^G	74 [✓] - 75 [✓]	(76)	9 ⁵	+0.4	31 ⁰
2	2	Wc	SEP 2 ^B - OCT 22 ^G	87 [✓] - 99 [✓]	(85)	10 ⁵	+4.6	36
3	3	Dc	SEP 16 ^B - OCT 22 ^B	112 [✓] - 115 [✓]	102	7	+2.9	34
4	4	Wc	SEP 2 ^B - OCT 22 ^B	129 [✓] - 132 [✓]	126	10	+1.9	33
5	5	Dc	SEP 5 ^W - OCT 7 ^{Bc}	152 [✓] - 152 [✓]	156	7	-2.2	27
6	6	Dp	SEP 9 ^G - NOV 19 ^F	178 [✓] - 183 [✓]	178	10	+1.6	32
7	7	Dc	SEP 12 ^B - NOV 19 ^G	190 [✓] - 188 [✓]	190	8	-0.4	29
8	8	DF	SEP 9 ^G - NOV 19 ^C	196 [✓] - 192 [✓]	198	8	-1.3	28
9	9	Dp	JUL 26 ^G - SEP 12 ^B	218 [✓] - 215 [✓]	214	5	-0.3	30
10	10	Dc	JUL 21 ^G - SEP 12 ^B	222 [✓] - 219 [✓]	220	5	-0.9	29
11	11	DP	JUL 21 ^G - SEP 19 ^B	227 [✓] - 220 [✓]	224	7	0.0	30
12	12	Dp	JUL 21 ^G - SEP 19 ^B	241 [✓] - 238 [✓]	239	6	-0.4	29
13	13	Dc	JUL 21 ^G - SEP 19 ^B	247 [✓] - 242 [✓]	244	7	+0.2	30
14	14	DP	AUG 2 ^B - SEP 19 ^B	244 [✓] - 248 [✓]	246	6	+2.2	33
15	15							
15	16	Dp	AUG 18 ^B - NOV 15 ^G	264 [✓] - 268 [✓]	263	8	+1.3	32
16	17	Dc	AUG 18 ^B - NOV 15 ^G	271 [✓] - 277 [✓]	269	10	+2.0	33
17	18	DF	AUG 18 ^B - OCT 10 ^G	274 [✓] - 278 [✓]	274	10	+2.2	33
18	19	DP	AUG 2 ^G - SEP 6 ^G	296 [✓] - 292 [✓]	297	8	-3.9	25
19	20	Dc	AUG 2 ^G - SEP 6 ^G	300 [✓] - 300 [✓]	298	7	+0.9	31
20	21	DF	AUG 2 ^G - SEP 6 ^{Bc}	304 [✓] - 306 [✓]	303	6	+1.8	32
							120.03	4816
								31.97

mean drift = +0.776 (9^h 50^m 31^s)

$\sigma^2 = 6.77$

mean period = ~~300~~ 9^h 50^m 31^s

$\sigma = 2.6$

P.e. = 1.8

p error 1 pt in 18000