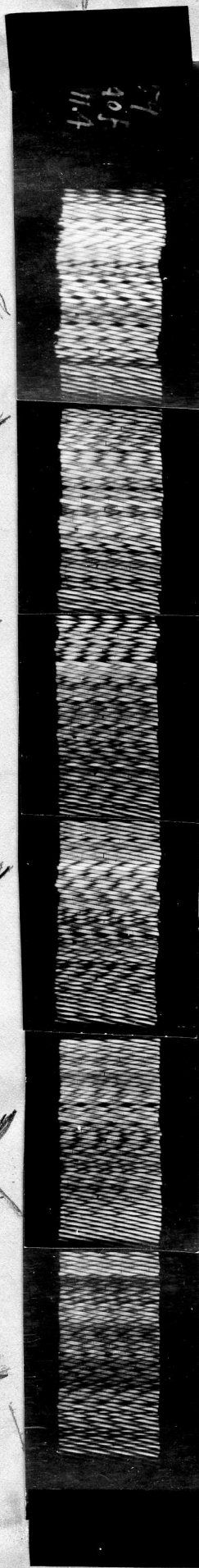


Analysis at 11.4

March 1919

Top



1300 B.C.

B.C. 1000

B.C. 500

0

A.D. 500

A.D. 1000

A.D. 1500

1900

~~8.5~~
~~13.14~~

~~8.8~~
~~10.9~~

~~12.2~~

~~10.5~~

~~9.8~~

~~9.8~~
~~13.0~~

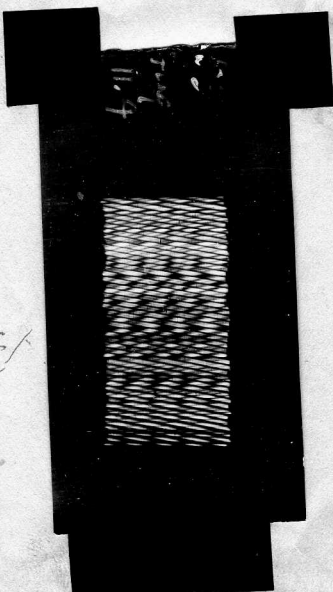
~~9.8~~

~~10.0~~

~~13.1~~

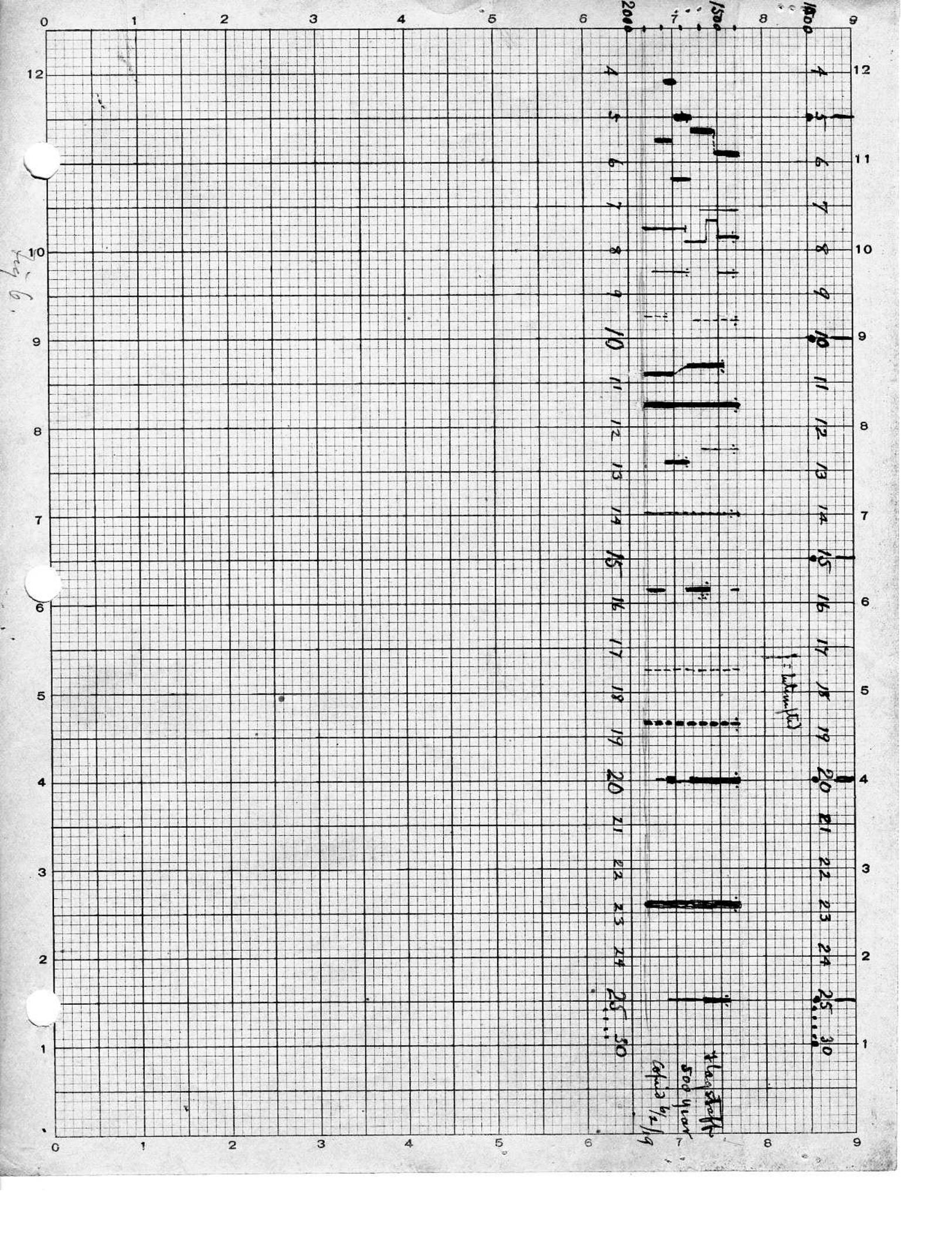
~~12.6~~

~~7.2~~



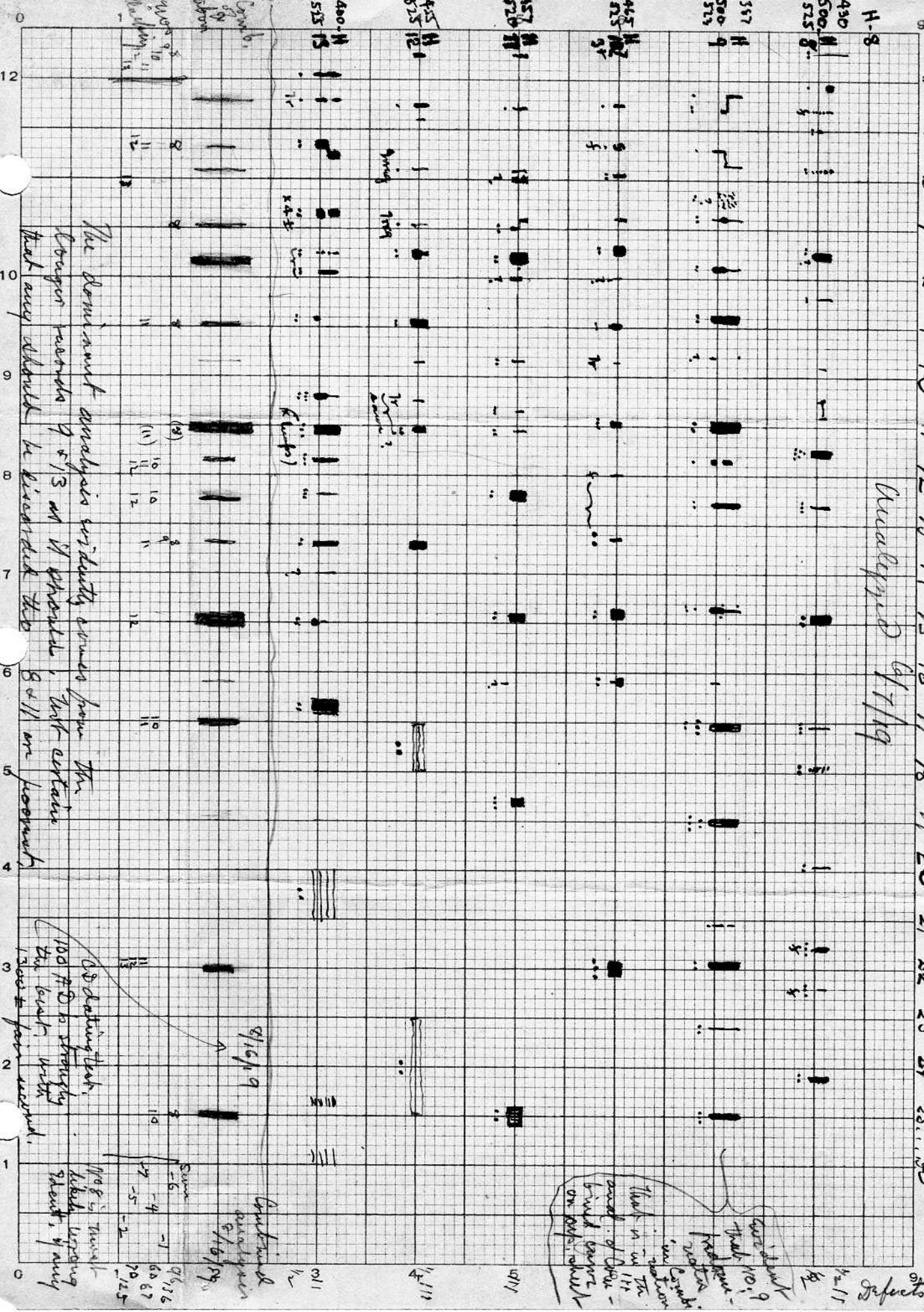
~~6.6~~
~~7.7~~

Bottom



4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25... 30

Analysis of 7/19



The dominant analysis evidently comes from the
 Coagen records 9 & 13 as if should, but certain
 that any should be discarded the 8 & 11 m
 procedure.

As looking back,
 100 # of 10 strongly
 this graph with
 1500 # pair record.

Sum
 -6
 -4
 -5
 -2
 -1
 96, 116
 62, 67
 70, 125

Combined
 analysis
 9/16/79

Think in in the
 panel of data -
 broad range
 on any which
 can explain
 the pattern
 that 10:1
 frequency
 ratio

Defects

BT-1724 MAR 23 1920

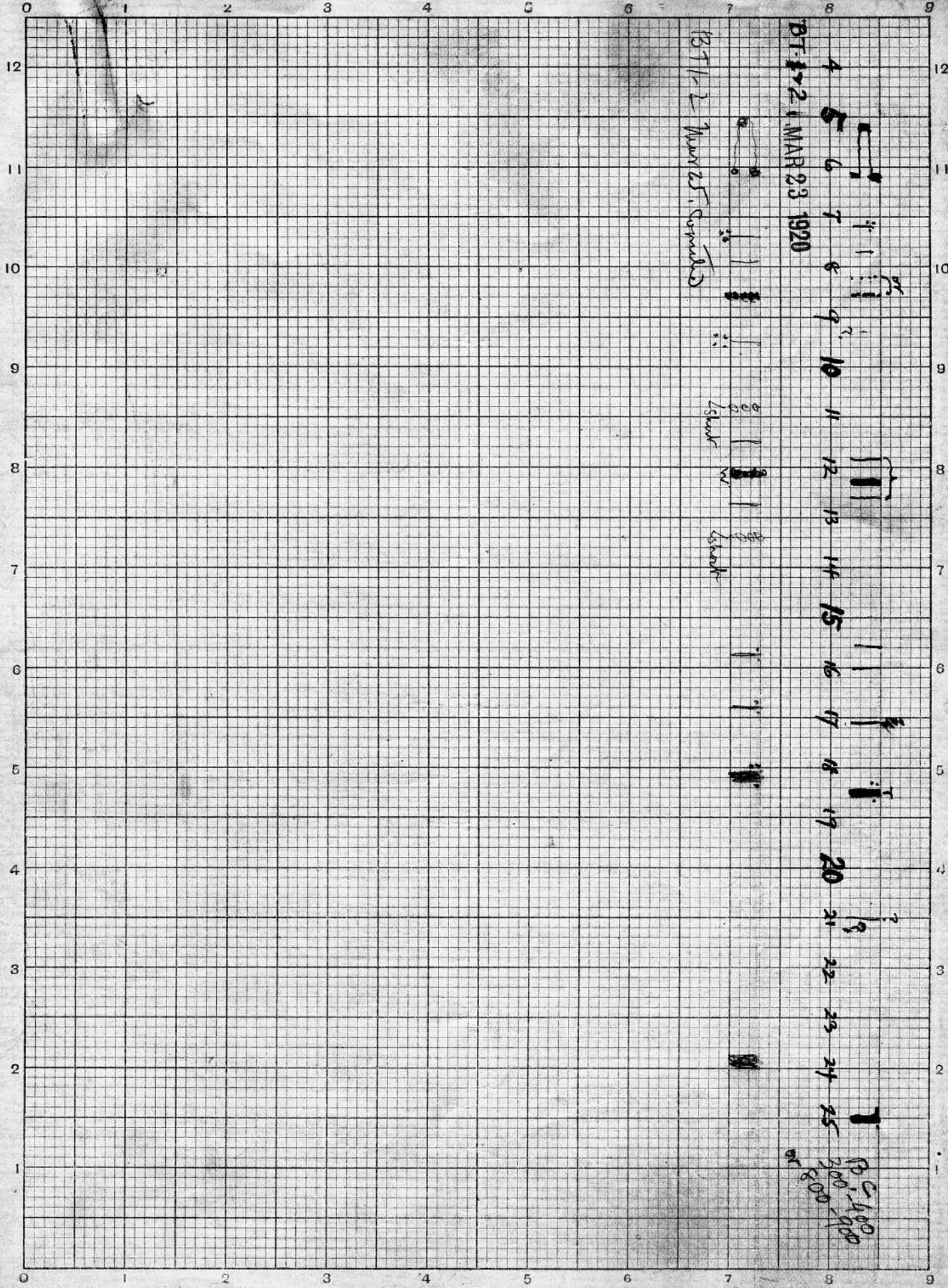
BT 1724 March 25, 1920

4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

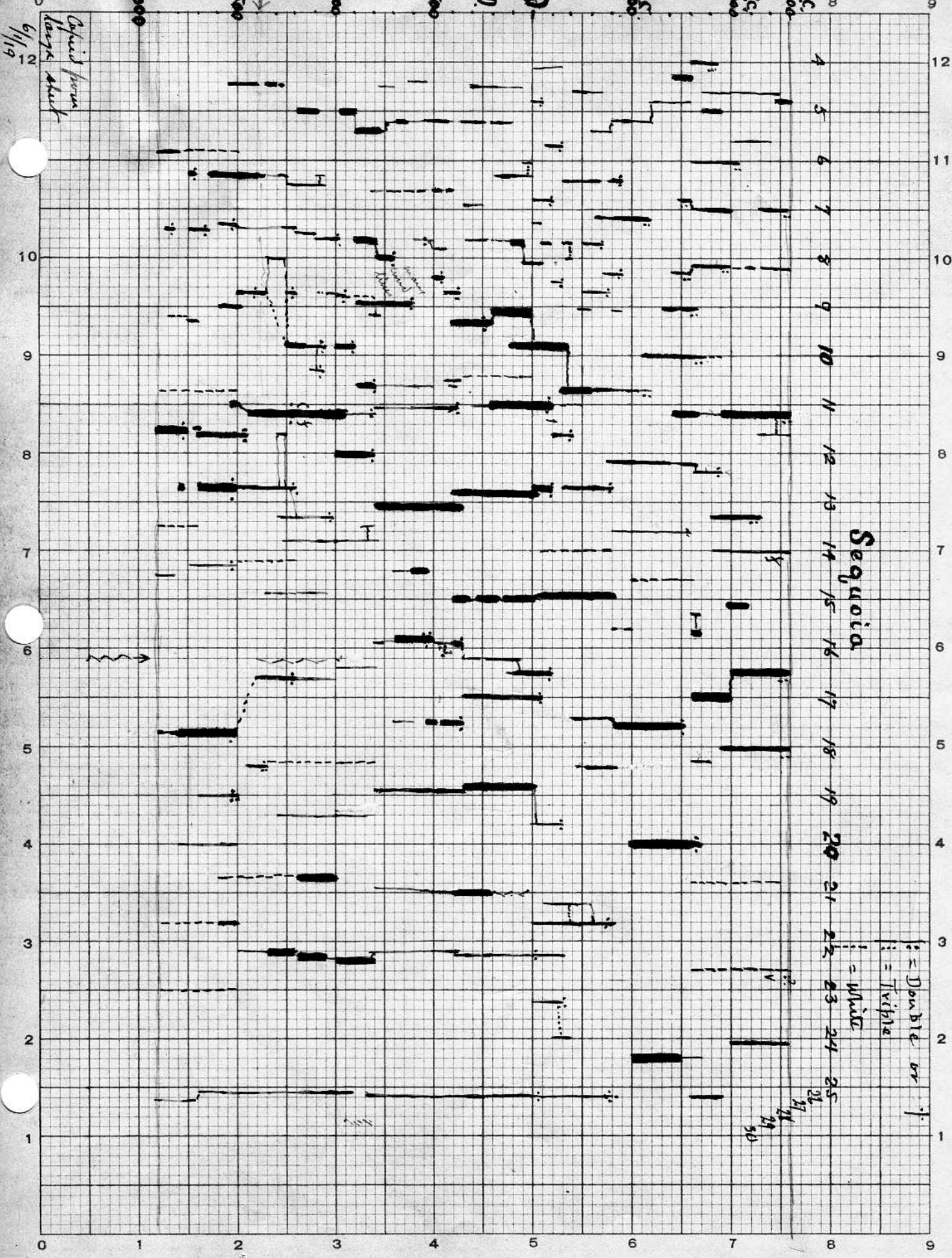
2500

2500

BT 1724
2500
2000
1500



6/11/19
 Copied from
 logs at



Seqnoia

|| = Double or Triple
 | = White
 ~ = Wavy

25
 26
 27
 28
 29
 30

800-900 B.C.
MAR 23 1920

3/23/20

B.T. Analysis

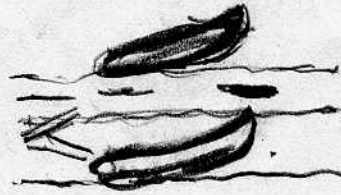
13.4 many short duration cycles scattered here & there

not accurate - non focussing

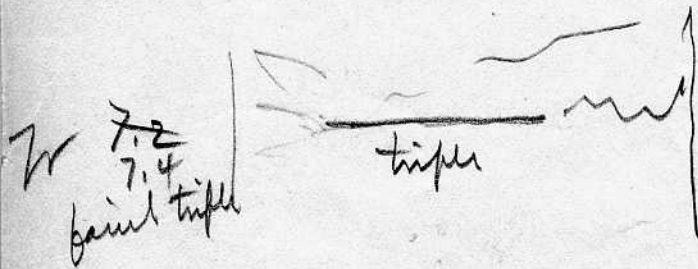
~~15.6~~



~~16.0~~
15.8



dbl



17. + 16.8



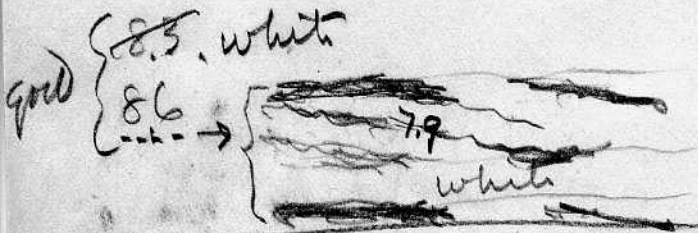
18.1?

~~18.5~~?

triple

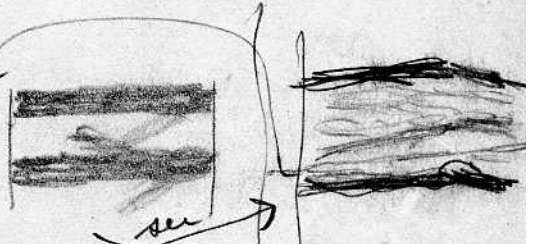


str



~~21.0~~?

24.9 23.8-9
x 23.6



27.4? 1.7

29.7. Quadruple poor

~~11.8~~
11.5

~~31~~ 30.4



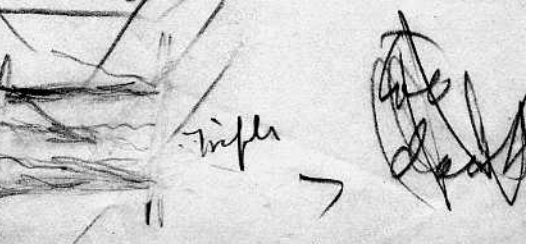
12.1/2

11.8

← 12.6

35

33.3?



triple

MAR 23 1920

New Flag. 500.

10 20 a.m. Can trace 7.0 (checked by Wult. standard
then 500 yr flag + in nearly all it is divisible
by 3, making 2.30-2.33 a fundamental
This is the average 2 yr zigzag as found in St.
(It may be composed of alternating $\frac{2}{3}$ 21-2 & 28³⁰ mos)

MAR 16 1920

New Flag 500

5.5 - ~~_____~~ possible

7.2 prob

8.6 white line
wavy all -

9.4 poss - short

11.0 ~~_____~~

2(5.5)

13.8 ~~_____~~

2(6.6)

2(7.4)

16.4 ~~_____~~

3(5.5)

18.9 ~~_____~~ ?

~~_____~~
22.0 ~~_____~~ } - 22

2(11)

4 x (5.5)

28.1 ~~_____~~

22 ↓

4(7.1)
or 2(14)

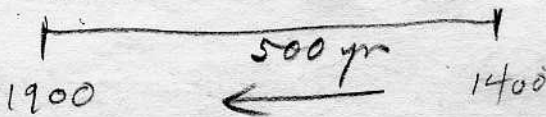
5(5.5)

33.3 ~~_____~~

28 ↓

3(11)

6(5.5)



by scale lamp light
conceal Dr not
25 m refs to small st

Sub-harmonics of the SS cycle

MAR 15 1920

~~222~~
3 | 22
7.3
3 | 22.2
7.4

26

	Obs'd pds in yrs	x <u>2.83</u> years of planet's circular orbit	
11.1	33.3	94.2	Uranus
3 x 11.1	28.0	79.2	
2 x 11.1	22.2	62.3	
3 x 5.5	16.7	47.3	
	14.0	39.6	
1 x 11.1	11.1	31.4	Saturn
	8.3	23.5	only possible correspondence
$\frac{3}{4} \times 11.1$	7.1	20.1	
$\frac{2}{3} \times 11.1 =$	7.4	15.6	Jupiter
$\frac{1}{2} \times 11.1 =$	5.5		
	1.85	5.24	
	.92	2.58	Mars
Cythera 10 mo	.86	2.44	
		2.02 ±	

Tracing idea of Planetary groups
Dimeters

11.1 x 1

8.32 = $\frac{3}{4}$ of 11.1	11.0
8.55 = " " 11.4	11.4
8.70 = " " 11.6	11.6
<hr/>	
6.67 = $\frac{2}{3}$ of 11.1	11.1
6.84 = " " 11.4	11.4
6.96 = " " 11.6	11.6
<hr/>	
7.40 = $\frac{2}{3}$ of 11.1	11.1
7.60 = " " 11.4	11.4
7.73 = " " 11.6	11.6
<hr/>	
8.88 = $\frac{4}{5}$ of 11.1	11.1
9.12 = " " 11.4	11.4
9.28 = " " 11.6	11.6
<hr/>	
5.55 = $\frac{1}{2}$ of 11.1	11.1
5.70 = " " 11.4	11.4
5.80 = " " 11.6	11.6
<hr/>	

$\frac{3}{4}$
 $\frac{3}{5}$
 $\frac{2}{3}$
 $\frac{4}{5}$
 $\frac{1}{2}$

Fundamental 11.1

$\frac{D^3}{T^2} = \frac{1}{8} = T^2$
 $T = \frac{1}{2.83} = .354$

$(1.6)^3 =$

HOK 7/31/20

7.1 traces all along

8.1 some (8.6 white)

9.3 " " "

9.8-9.9 good 9

11.0 traces → 11.8 traces

12.9 10 : 10

14.6 poss.

16.3 dble 7

19.3 dble 9: Fine dble 19.8

23.6 Fair : poss triple ✓

25.3 Some white ✓

27.5 ± Composites

29.1 dark line

7.8 to 8.1 } rally }
them } 8.1 7.9
16.2 23.7

9.9
19.8

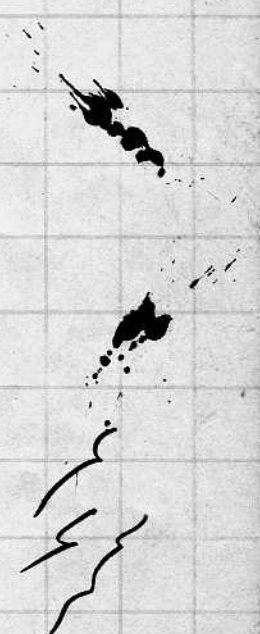
9.8-9

12.8

16.4

19.8

Cutting off ballows
14.9 plain

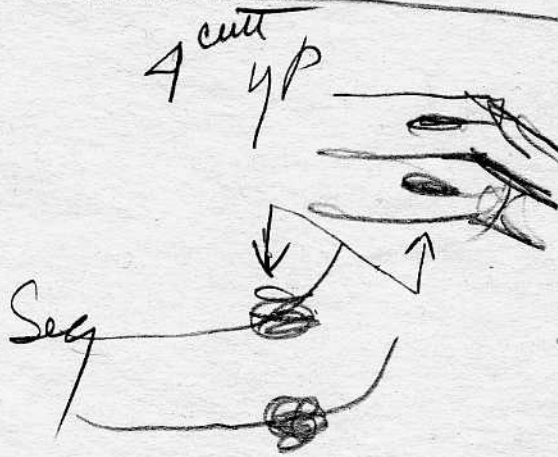


8/3/20 Test of columnar flat versus point-top flat shows no difference

8/3/20 This curve from 19 beams changes little from the old "CD" (Cliff Dwelling) curve except losing 11.1 & getting a trace of 11.8 ±
8.1 (8.6) 9.8-9 (11.1?) (11.8?) 12.8 . 16.3 19.8

188

Peak fair



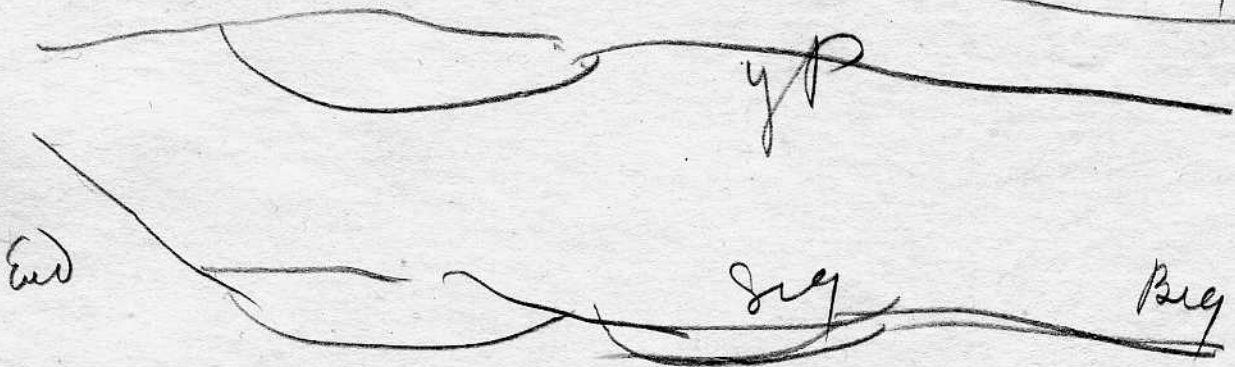
153

~~Center 2 cuts,~~
 very good

last cut



19.0



AUG 8 - 1920

old

To make YP (Flag 500 - old am) resemble the Seq

7.1

app Right
~~good~~

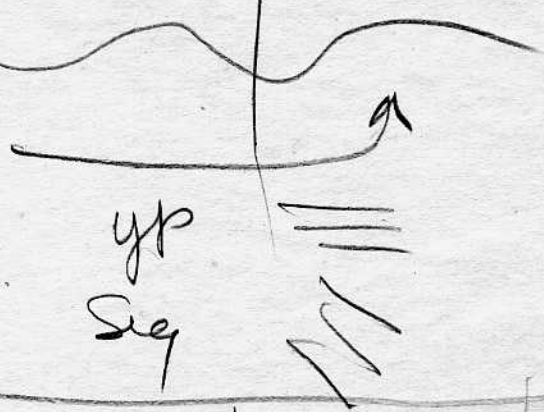
turn 7.5 into
to 6.2
~~alternatives~~

turn 6.2
into 7.5
predominately

6.8 + 7.6
turn to
6.8 + 7.4
good

8.2

all good
except at 7.8



9.05

fine

fine

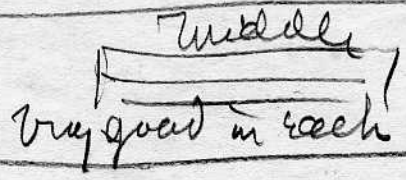


my good

9.2

good white lines complete YP
in 11.2 each " " Seq

10.1

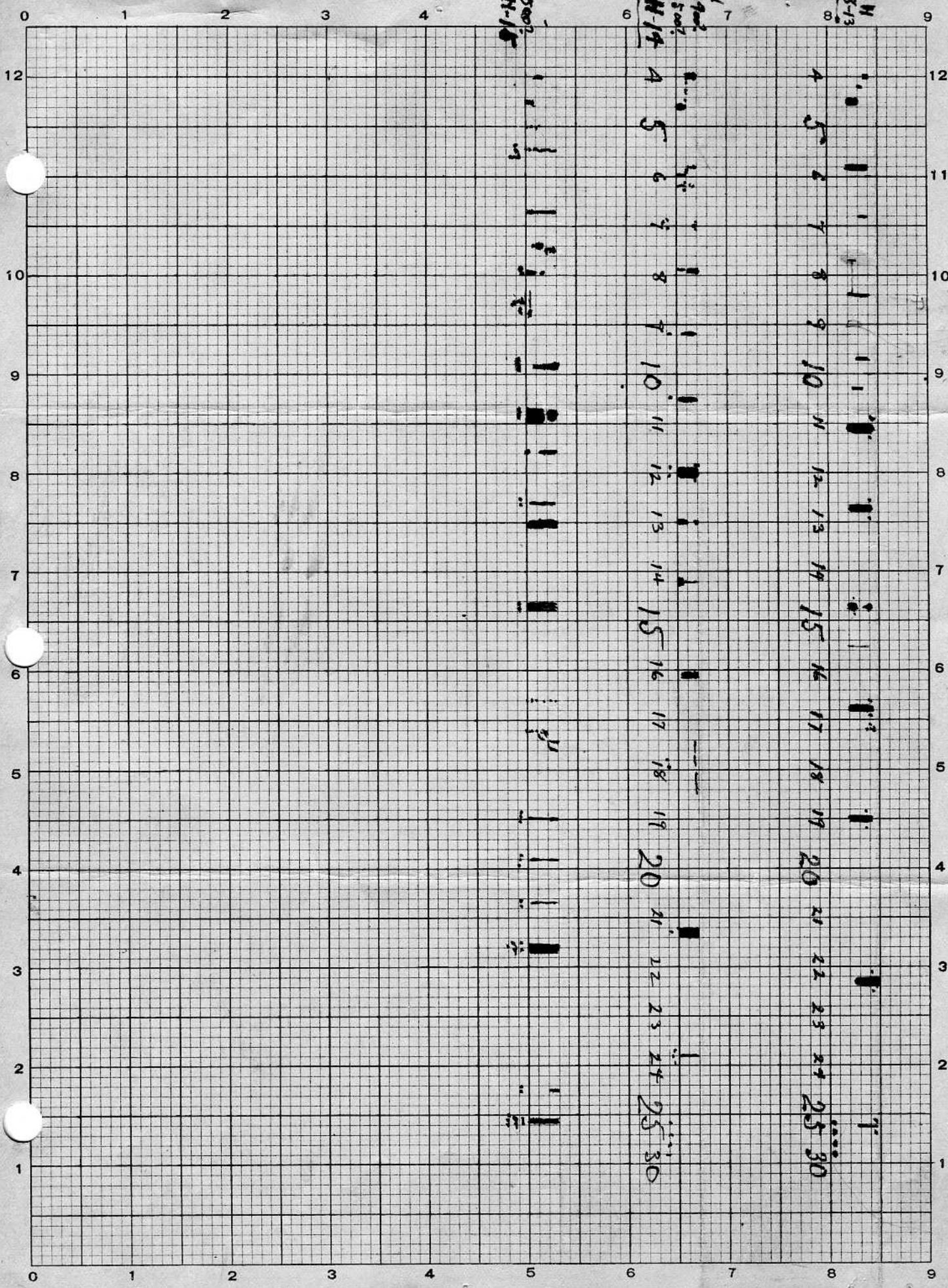


10.6

double - last 200
yps YP
not in Seq

11.5

500 yps YP no invasion, slight deficit central 80 yps
Fair in Seq - less good in 1st & 2nd Century



5000
H-15

H-14

H-13

AUG 6 - 1920

10 am. Mod. H's 17-26 - analyze OK with 7-500 yr Y. P. of Flag.
SS is not strong in either

7-500 yr Flag } Agree pretty well but 11.5 in Old 500 H
Old 500 yr Flag } is much reduced in 7-500 yr (question:
an old tree less sensitive to SS variat^{ion})
NB the old 500 yr has ~~too~~ ^{close} ~~many~~ a mat
& knows many 20 yr ± variations.

Modern H { Col Plot } Agree fairly well.
Old Seq. Curr { Angle plot }

Mod. H. } Fine agreement! N.B.

Old Seq. at 1300 = 1900 =
1. Moved Seq. backward ^{300 yrs at a time} { 100-200 no good resemblance
535 Seq (530 RD on the HK Curr)

2. Had to move it forward { 1210
1305 } Prob. best
1320
1312

3. To move it backward { 1080
805 ?
715 ?
605 ?
530
410 ?
BC 20 ?

4. To move it forward 300
660-705
1040
1305 or +

Best result 1312 ± 7
To notices good agreement
had bet. 19HK & Old Seq

Grid of 19 HKal Aug. 7, 20

AD 1285

1120 ^{to} good at 17.6 fair rest

1315 better at less feds & OK at big feds

635 fair

525 very good - much to 1315

245 - very good - as least

30BC fair

245
very good

525
very good -
Central parts better
Ends worse

1315
no better
than the
other 2

AUG 8 - 1920

Tryd again. Dating 19 HK (selected)
in terms of old sequoia zone
1315 - good

525 - somewhat better

245 - same as last

AUG 8 - 1920

B T // & Seq

245 - very good

790 fair

1260 fine

1315 NG

1250 fine

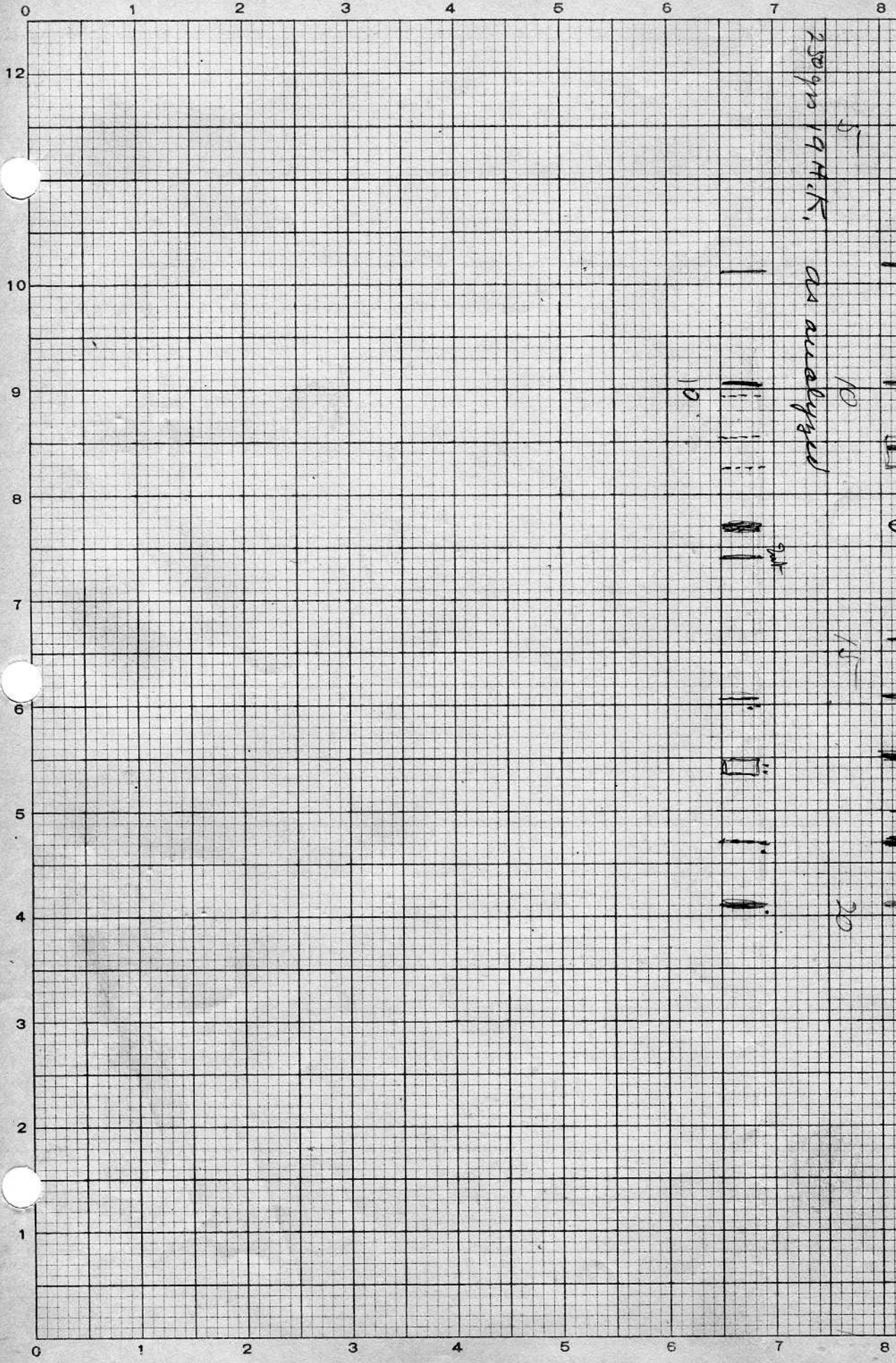
AUG 8 1920 5-6-7

250 yps 19 H.K.

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
connected for shifts
return
ood yps
H.K. sign
win

250 yps 19 H.K.

as analyzed



OCT 12 1920

Flag 7-500^{yr} here

5.7

8.7 faint

10.4

11.00 Dble

11.0±3

11.5

13.8 ± .1

14.0 after 4 singles

16.64 ^{16.55} composite 4 or 5 bags all 19

21.9 ± .2) 21.7 Dble

27.8 Dble ac 4

32.8 Tple. ac 6

often composed of less poles in short lines the

OCT 13 1920, 0 in 3².4²
= 17²⁵
= 2.3 yrs

5.5-7

10.4

much made up of fragments of 9.3

11.0

11.5 in part

13.8-14.0 single? - fragments of 12.2

16.64 = 1 1/2 x 11.0 = 3 x 5.5

~~21.9~~ from 11.0

~~27.7~~ from 13.8

~~32.8~~ from 11.0 + 5.5

19 HK

AUG 8 - 1920

in
me

19.8 strong dark single

18.6 white thin single

wt. 14.8
mostly 18.6
occ. like 19.8

{ 17.3 thin black - dble
17.0 " " " other branch

} all goes to 17.0 (prob triple)

15.86 thin black double

dble or triple } goes to single

13.2 intermitt black - single or dble

strong black dble become
intermitt spots - traces
bits of 14.7 - 18.0
none, see last

12.6 coarse composite single

no 11.5 but 11.15 shows
10.9 in 1st 200 yrs
10.0 in middle Cent + 1/2
11.5 in last 150 yrs

11.5 white single(?)

10.9 ? white

11.0 white goes to 11.5 dble

10.1 white

10.1 white ^{black} becomes 9.9
dble + quadruple

9.9 white & dark, strong single or triple?

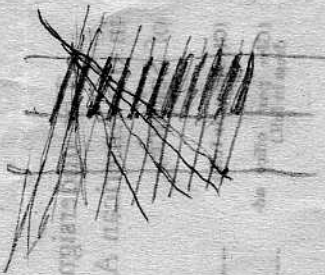
7.75 " " family good

7.75 becomes 7.65

strong single

JAN 27 1921-3

12
11
10
9
8
7
6
5
4
3
2
1



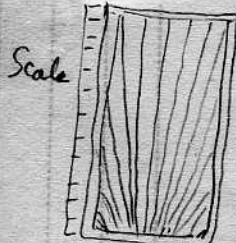
JAN 28 1921

Think this is
combination of $5.55 \pm$
and $13.8 \pm$

5.55	(7.2)
11.10	14.4
16.65	(21.6)
22.20	28.8
27.75	(36.0)
33.30	43.2
38.85	
44.40	

Standards - ideas

JAN 28 1921

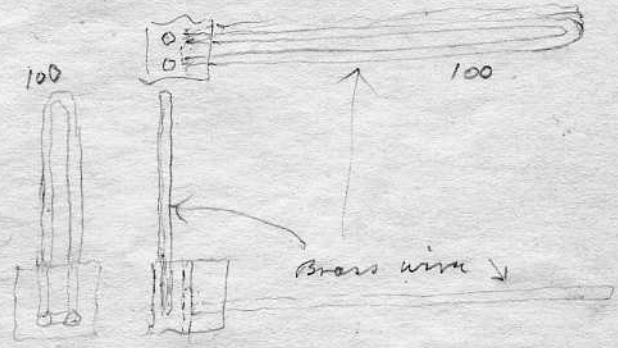
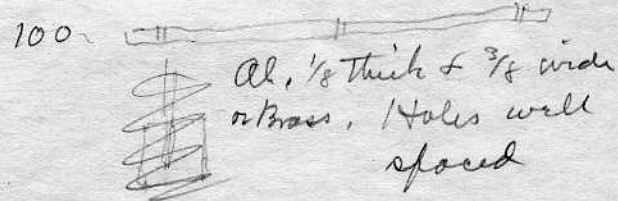
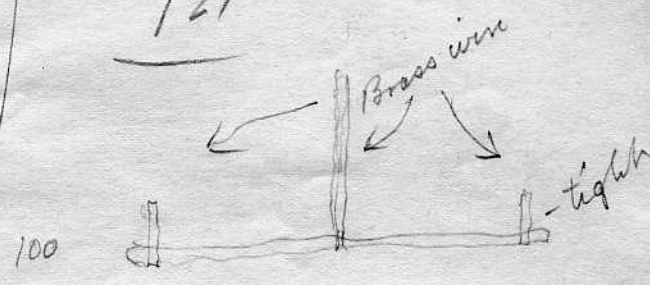


Moves up & down
drops window light
& gives differently
spaced dots of light
into the pdgph -

2^{or more} Rubber bands - holes regularly spaced
or

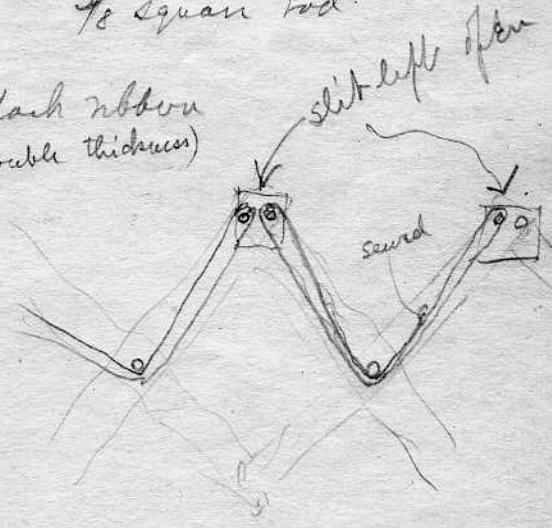
2^{or more} Extension
"net racks"
appar. Each top carries a plate with
hole in it. These are made to
rotate as they approach each
other to avoid covering holes -
2 or 3 of these would give several test
periods at once -

2/16/21



100 - Brass blocks cut from
 $3/8$ " square rod.

Black ribbon
(double thickness)



2 sets, 50 each

1921 Periodograph Work

Pds found JAN 27 1921 - 1 (5.55)

1.25 Sub in early Cent = 5.55
7.0 1.50 8.33 (7.7) (6.93)

1.31 9.2 poor 7.33 (9.25) 6 5

1.21 11.1 - prob dble 4.3 2 5 3 8 4 2 7

1.25 13.9 Simp? (3.88)

1.19 16.5 prob dble = 2.75 6 3 (16.65)

1.16 19.2 poor - simple 5 (18.5) 7 (19.4) 12 19.0

1.14 21.8 dble (22.5?)

1.28 27.6? dble 24.4

1.19 33.2 triple

1/2 2/3 3/4 4/5 5/6
2/5 3/5 1/3 1/4 1/5 1/6

also faint
24.6
30.5

1/2 5.55
1/3 3.7 7.4
1/4 2.78 8.34
1/5 2.22 4.44 8.88
1/6 1.85 9.25

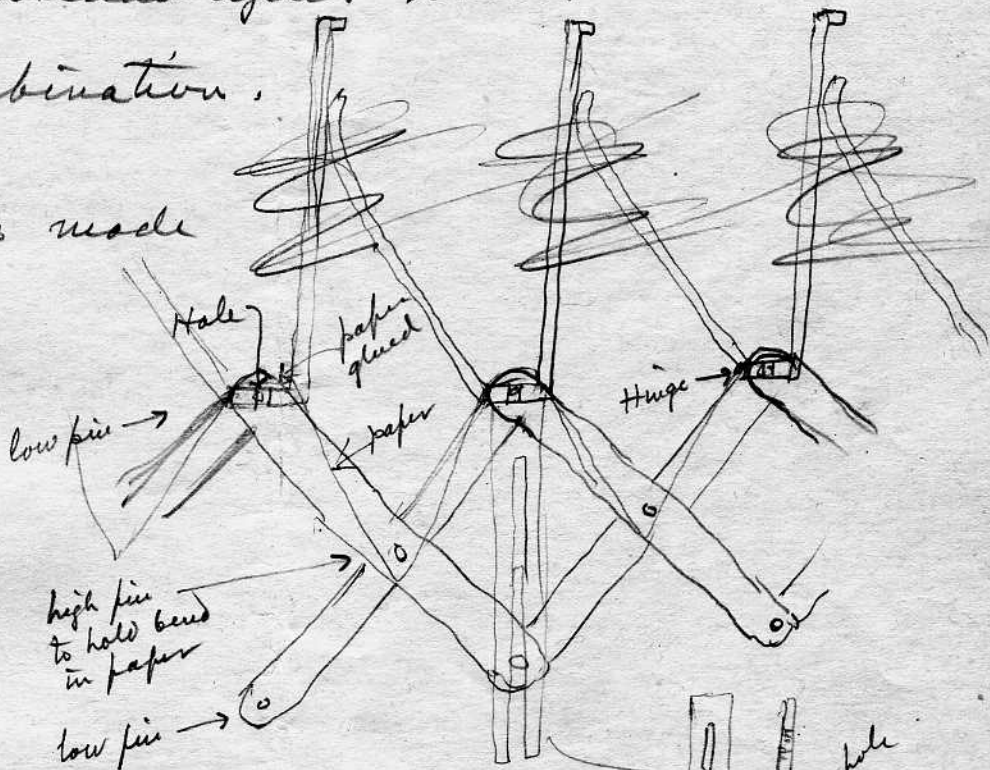
Calculation	Result	Observed	Error
2.78 flag JAN 27 1921	2.78	2.75	0.03
5.55 - 1.50 = 1/2	2.78	5.50 v	0.05
8.33 - 1.33 = 1/3	2.77	8.17	0.16
11.1 - 1.25 = 1/4	2.8	10.89	11.05
13.9 - 1.20 = 1/5	2.8	13.62	13.9
16.7 - 1.167 = 1/6	2.78	16.35	16.5
19.48 - 1.143 = 1/7	2.82	19.08	19.2
22.3 - 1.125 = 1/8	2.8	21.82	21.8 (22.3?)
25.1 - 1.111 = 1/9	2.8	24.56	24.6
27.9 - 1.100 = 1/10	2.8	27.30	28.0
30.7 - 1.091 = 1/11	2.8	30.03	30.5
33.5 - 1.083 = 1/12	2.8	32.75	33.2
36.3		35.50	38.22

JAN 28 1921 - 3

Tests on combining incommensurate cycles
(such as 5.55 and 7.0)

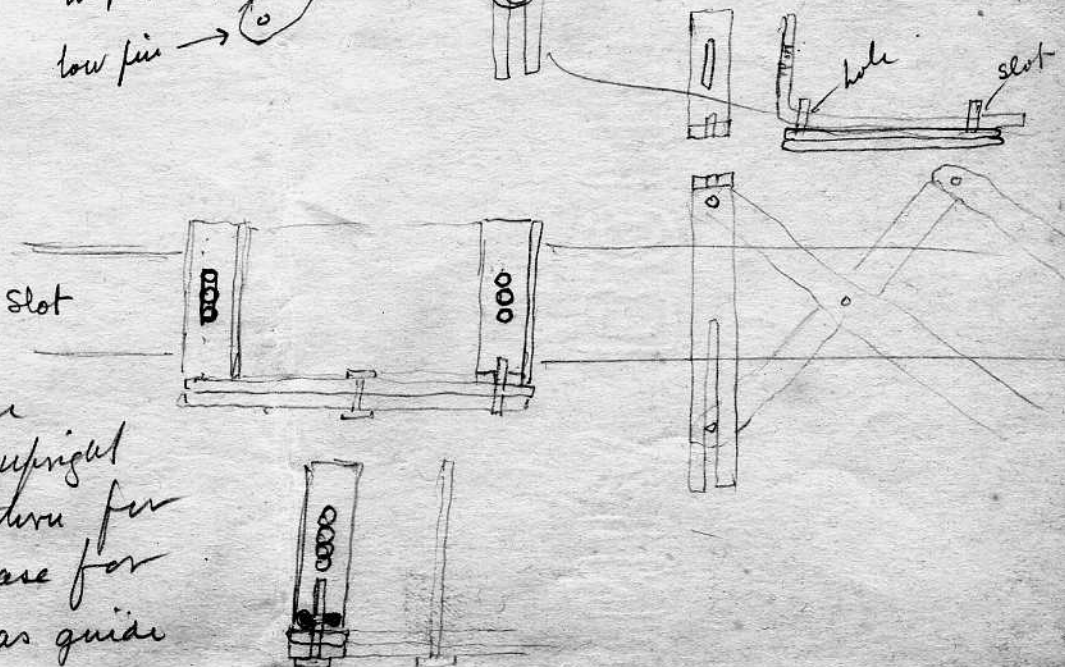
Plan is to put in window illumination, several cycles
together, each variable over large range, and
watch the pseudo-cycles which come out
of their combination.

Have several of these made



Extension "add rack"
about size shown
Extreme pins extend
up 1/4"
Center pins high to catch
fold of black paper

Elevation



The upright can be a square
post ~~from~~ standing upright
on pin: hole in holes thru for
tight & 2 holes near base for
inserting wire to act as guide

all T's diff from 1918 Analysis

FEB 6 - 1921

T.1.	11.1	13.3f	14.6	16.7	19	20.0	$\frac{22.0}{2}$	$\frac{27.1}{2}$	$\frac{28.6}{2}$	31.2
T 2	9.2	11.4	13.6	17.6	$\frac{19.6}{3}$	21.6	$\frac{23.4}{2}$	$\frac{27.6}{2}$	$\frac{30.2}{2}$	$\frac{32.2}{2}$
T 3	9.1	10.2	11.6	13.7-14.1	16.3	19.-20.	$\frac{22.9}{2}$	$\frac{25.0}{2}$	$\frac{30.7}{2}$	$\frac{35}{5}$
T 6	9.4	10.5? 11.6?	mpd	14.8	16.3	17.5?	$\frac{22.1}{2}$	24.2	$\frac{28.0}{2}$	$\frac{28.0-29.3}{30.4}$
	9.4	11.4	13.6±	14.7	16.4	17.6	19.4	22.3	27.6	

H 8.0	19 Selected	10.1	12.9	15.8+	19.5	$\frac{19.8}{2}$	$\frac{23.0}{3}$	$\frac{25.5}{2}$	$\frac{29.2}{3}$					
New Flag 7.500	5.7	70	8.5±	$\frac{11.1}{2}$	13.8	$\frac{14.3}{2}$	16.7	19.5	$\frac{22.1}{2}$	26.2	$\frac{28.1}{2}$	$\frac{31.6}{2}$	$\frac{33.6}{2}$	
all old Flag 500	mpd	9.3	11.3	13.2	16.1	19.5	$\frac{22.6}{4}$	$\frac{23.2}{3}$	$\frac{26.4}{m}$	$\frac{28.9}{m}$	$\frac{31.3}{4}$	$\frac{34.1}{m}$		
modern H 17-26	9.4	11.1	13.3-14.2	19.5	$\frac{20.6}{2}$	$\frac{21.1}{3}$	22.3	24.1	$\frac{25.9}{2}$	$\frac{28.1}{m}$	$\frac{30.1}{3}$	$\frac{33.7}{2}$		
mod H 39-42	9.5	11.3	12.0	(13.7)?	15.4	17.1	$\frac{20.9}{2}$	22.3	24.5	$\frac{26.8}{2}$	$\frac{28.6}{2}$	$\frac{30.4}{2}$	$\frac{33.6}{2}$	$\frac{35.4}{3}$
mod H 83	10.8	11.8	13.0	16.6	18.0	$\frac{20.6}{2}$	$\frac{22.2}{2}$	$\frac{23.9}{2}$	$\frac{25.6}{2}$	$\frac{26.9}{2}$	$\frac{30.0}{2}$	$\frac{31.5}{3}$	$\frac{35.4}{m}$	

Flag 33	8.4	9.35	12.0	16.2	19.1	21.5	$\frac{24.0}{4}$	$\frac{26.6}{4}$	$\frac{28.3}{5}$	$\frac{31.6}{5}$		
Flag 500 yr 22	9.7	11.2	13.6	15.9	17.4	19.4	$\frac{22.4}{4}$	$\frac{25.2}{m}$	$\frac{27.1}{2}$	$\frac{28.8}{3}$	$\frac{31.4}{3}$	34
Flag 500 - Sqr Sun	103-115	14.1	17.4	21.0	22.4	24.0	28.0	31.6	time	allust		

SS 2750 - now	11.1-11.8	12.13	14.77r	17.5	18.7	17-18-19	23.0
SS 300	8.8	9.85	11.2	14.77r	17.5		

SS spots Monthly	1875-1916	7.8	10.6	12.4	13.8	15.5	17.1	18.4	20.6	22.0	24.4	27.4	31.8
1840-85	1867	9.2	11.7	13.7	15.2	17.0	18.5	20.8	22.8	24.5	27.2	33.0	
1805-50	1820	9.2	11.1	13.1	15.1	17.0	18.5	20.8	22.8	24.5	27.2	32.0	
1770-1815	1800	10.6	13.8+	17.5	21.0	23.2	25.5	27.3	32.0				
1750-80	1800	10.6	13.8+	17.5	21.0	23.2	25.5	27.3	32.0				

Pdghl Anal.

Feb. 7, 1921

Sunspots by month

310

7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
7.95			10.55					11.45			17.4		19.6W			21.4D								

1749-80

7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	30
W 7.95			10.55				13.9			17.4		W 19.65		21.4D		23.0		25.0	27.3
			11.45																26.2

1770-1815	9.5	11.0	12.5	13.6W	14.1	14.90	17.4	18.3	21.1	22.9	25.7T	27.9	29.9	30.8
8.0T														

1805-1850	7.9	9.1	10.4	11.5W	13.6	15.2D	18.4	19.2	20.2	22.8T	26.1	27.2D	29.9	32.9	
6.5			10.2?	11.6	13.6	15.1W Trace	17.1	18.4	19.4	20.2	21.5	23.0	25.5W	27.1	32.9

1840-1865	7.9	9.1	10.4	11.5W	13.6	15.2D	18.4	19.2	20.2	22.8T	26.1	27.2D	29.9	32.9	
6.5			10.2?	11.6	13.6	15.1W Trace	17.1	18.4	19.4	20.2	21.5	23.0	25.5W	27.1	32.9

1875-1916	6.2	7.6	8.4	10.0	10.7	12.4	13.7	15.1	16.2D	17.0D	18.0	18.8	19.9	21.8D	24.5	26.1T	27.3D	29.75T	31.7T	34.7
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7.8	9.2	10.3	11.4	13.7	15.1	17.3	19.4	21.4	22.9	25.5	27.2	29.9	32.9
-----	-----	------	------	------	------	------	------	------	------	------	------	------	------

1236
reduces to yr period
planet 7.9
6.5

10.5
11.5 - all to 1880
12.4
13.7
14.9
15.1
16.2D
17.0D
18.0
18.8
19.9
21.8D
24.5
26.1T
27.3D
29.75T
31.7T
34.7

166 yrs except 1780-1800
1850-65
17.3
19.4
21.4 - 22.9
25.5
27.2
29.9
32.9

Mer 1 mo
Venus 2 1/2 mos
Earth 4 mos
Mars would gain 7 mos
Jupiter 4 1/2 = 50.4 mos
Saturn 10.6 yrs
Uranus 30 yrs
Neptune 65 yrs
21.5

17.3 oc D nearly all except 1885-1900
18.4
19.2
21.5
23.0
24.5
26.1
27.2
29.9
31.7
34.7

37.1 days

13.7
Cat

1805-50

21.4 - 22.9
25.5
27.2
29.9
32.9

94-26.1
variables

236
1652
1652
236
18408
236
92
472
2124
232

1/13.7 = 1/100 = 8.3 yrs

.083
.073
.01

.0838
.0578
.0255

17.3 mos
39.3
3.28 yrs

allusion dist 5
for the periods

2.18

Hale
Aps Test
Feb. 214

2 * sqrt(13.7/12.0) = 2.18

2 * sqrt(17.3/12) = 2.54

12 * sqrt(27.2/2.27)

2 * (11/12)^(1/3) = 1.88

2 * (12.5/12)^(1/3) = 2.05

2 * (22/12)^(2/3) = 3.00

2 * (25/12)^(1/3) = 3.26

21-23
variable

17 | 20.7
1.22 mo

	2/7 + 2/8 / 21	10	15	20	25	30	35
B.T. 11	$\frac{9.0}{3}$	$\frac{11.7}{4}$	13.1 D	15.9 D	18.5 D	$\frac{20.5}{3}$	Dd 117 213.1 pow 30.8
BT 10	$\frac{6.0}{3}$ $\frac{7.2}{3}$	$\frac{8.3}{m}$ $\frac{9.2}{4}$	$\frac{10.8}{4}$ $\frac{11.2}{2}$	13.2 D	$\frac{17.0}{2}$	$\frac{22.2}{2}$ $\frac{23.6-27}{3}$ bles	$\frac{33.2}{3}$
9	$\frac{6.2}{20r3}$ $\frac{7.1}{3}$	$\frac{8.3}{m}$ $\frac{9.7}{4}$	11.9	$\frac{14.7}{20r m}$	$\frac{17.4}{2}$	$\frac{20.4-22.0}{2}$	$\frac{30}{3}$
1x2	$\frac{6.2}{2}$ $\frac{7.2}{3}$	$\frac{8.2}{D?}$ $\frac{9.3}{Harm}$	11.4 $\frac{12.3}{w}$ $\frac{13.0}{2}$	$\frac{14.5}{thin}$ $\frac{15.8}{2}$	$\frac{17.0}{20r3}$ $\frac{18.6}{D}$	$\frac{24.4}{w}$ $\frac{27.4}{T}$	$\frac{30.4}{6}$
3	$\frac{6.0}{30r2}$ $\frac{7.4}{3}$	$\frac{8.6}{m}$ $\frac{9.7}{4}$	$\frac{11.5}{20r4}$	$\frac{15.2}{6r}$	$\frac{17.8}{2}$	$\frac{26.0}{3}$	$\frac{30 \pm 2}{3?}$
7	$\frac{6.4}{20r3}$ $\frac{7.1}{m}$	$\frac{8.0}{3}$ $\frac{9.8}{4}$	$\frac{11.2}{2}$ $\frac{12.7}{2}$	$\frac{14.0}{2}$ $\frac{15.7}{4(m?)}$	$\frac{17.5}{20r4}$ $\frac{17.5}{Trace}$	$\frac{19.4}{6+}$ $\frac{20.4}{w}$ $\frac{22.4}{2}$ $\frac{25.1}{3}$	$\frac{27.8}{2}$ $\frac{31.0}{2}$ $\frac{34.0}{3}$
8	$\frac{6.1}{3}$ $\frac{7.1}{3}$	$\frac{8.3}{rur}$ $\frac{9.0}{?}$	$\frac{11.0}{24r5}$ $\frac{12.3}{w}$	$\frac{13.6}{2}$	$\frac{17.3-19.2}{m}$	$\frac{19.0}{2}$ $\frac{21.6}{?}$ $\frac{24.2}{?}$	$\frac{27.2}{20r3}$ $\frac{34.2}{m}$

$\frac{6.15}{20r3}$	$\frac{7.18}{3}$	$\frac{8.26}{3.6r2}$	$\frac{9.54}{4}$	$\frac{11.3}{2+4}$	$\frac{13.2}{2}$	$\frac{14.4}{2}$	$\frac{17.2}{2}$
2.05	2.39	4.1 or 2.75	5.6	12.3 w	6.6	7.2	8.6
3.07			2.8		2.5	3.9	9.3
						5.2	9.5
							3.2
2.0	2.39	2.38					$\frac{13.6}{9.0}$
					2.5		
3.1		2.75	2.8				
			$\times 2$				3.2
		4.1					
					5.2?		
				6.6			
					$\frac{7.2}{3}?$		
						8.6	

B.T. 1-10, 2/8/21

6.15	$\frac{7.18}{3}$	8.26	$\frac{9.54}{4}$	$\frac{11.3}{2}$			$\frac{17.2}{2}$	$\frac{19.0}{2}$	$\frac{22.01}{2}$	$\frac{27.4}{20r3}$
					12.3	$\frac{14.4}{2}$	15.6			
					13.1					
										$\frac{9.5}{4.1}$

Feb. 8, 1921

press with old tests	10	15	20	25	30	35
H 15	$\frac{6.6}{2}$ $\frac{6.9}{2}$ $\frac{8.0}{3}$ $\frac{9.9}{3}$ 11.2 12.8 13.4	$\frac{14.8}{m}$	16.4 $\frac{18.5}{2}$	21.6 $\frac{27.5}{2}$	$\frac{31.7}{3}$	
H 14	10.1 $\frac{6.6}{3}$ $\frac{7.6}{2}$ 10.1 $\frac{11.1}{2}$ 12.2-13.1	15.6	$\frac{17.4}{3}$ $\frac{20.2}{2}$ $\frac{23.3}{2}$	$\frac{27.0}{2}$ $\frac{28.6}{2}$		
H 9	$\frac{6.7}{2}$ $\frac{8.3}{2}$ $\frac{9.0}{2}$ $\frac{9.8}{2}$ $\frac{11.0-11.6}{2}$ 13.2 $\frac{14.6}{2}$		$\frac{16.7}{3}$ $\frac{17.7}{3}$ $\frac{19.5}{2}$ $\frac{21.7}{m}$	$\frac{24.7}{2}$ $\frac{26.4}{2}$ $\frac{29.7}{2}$	$\frac{31.3}{3}$	

Feb. 9, 1921 Reduction scheme: The BT's, the T's and the Monthly SS pots all give agreement in their respective groups: To correlate the various periods noted Plot them & analyze for intervals either differential or logarithmic. Plot thus: ~~cut a slit~~ lay off a scale, left to right to cover all periods in say 60 cm; then cut a slit at each period making its ordinate proportional to emphasis i.e. conspicuousness of period.

	Dist	Time	$\frac{T}{2.83}$	Mos
Mercury	35.8	88.6 day	31.1	1
Venus	66.8	224.7	79.2	2.6
Earth	92.5	365.3	129.0	4.24
Mars	141	687	243 = 8.0	
Ast.		year		mos yr
Jupiter	480	11.86		50.4 = 4.2
Saturn	882	29.46	124.8	10.4
Uranus	1774	84.02		29.7
Neptune	2780	164.78		58.3

Distances for 55 monthly periods noted

mos.	yr of Planet	mos.	days
7.8	1.84	= 22.08	= 672
9.2	2.17	26.04	= 792
10.3	2.43	29.16	
11.4	2.69		
13.7	3.24		
15.1	3.56		
17.3	4.08		
19.4	4.58		
21.4	5.05		
22.9	5.4		
25.2	5.9		
27.2	6.42		

N.B. The mean difference bet. periods obtained today, $\frac{1.15 \text{ mos}}{1.15} = 35.1 \text{ days}$ may be a revolution of sun or a Mercury minor group whose period would be 31 days

$$\frac{35.1}{30.44} = 1.15 \text{ mos} \times \frac{1.15}{2.83} = 3.25 \text{ mos}$$

Feb. 10, 1921

T.S. 6.0 var $\frac{5}{3}$ 5.4

10.5 var to 9.0 - 10.1 best = 1.01 yrs

14.3 fair - 1 in midway

$$\frac{29.5}{3} + \frac{20.0}{2}$$

Analysis gives 1.00 yrs

Periods in increments				
Years				
9.4	13.6	16.4	19.4	27.6
11.4	14.7	17.6	22.3	

B.T. Small ones at $\frac{20.0}{2}$
Large at 19.2

$$\frac{25.7}{3} \text{ Harmonic!}$$

Periods are
6.15 years
7.18 $\frac{3}{3}$
8.26
9.54 $\frac{4}{4}$
11.3 $\frac{2}{2}$
12.3
13.1
14.4 $\frac{2}{2}$
15.6
17.2 $\frac{2}{2}$
19.0 $\frac{2}{2}$

19.3
11.9

17.4
15.7
10.1 will take most

6.8 will take all but 4
 $\frac{6.8}{2}$ will take all - (with small ones a trace out of line)

$$\frac{29.6}{m}$$

$$\frac{31.4}{m}$$

Multiples of 1 yr are the controlling factors

1.92 yrs enters also = $\frac{23.04}{m}$

Maas = 1.88 yrs

SS by Mo. 1750-1916

$$\frac{34.5}{3}$$

$$12 \frac{365.25}{50.44} = 1.15$$

.73 forms good line only 1 divides it in 2

$$\frac{22.6}{2}$$

11.5 (= 1.15) best line

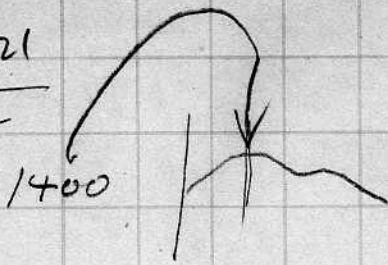
19.7 somewhat scattered

14.4 $\frac{5}{2+3}$ harmonic

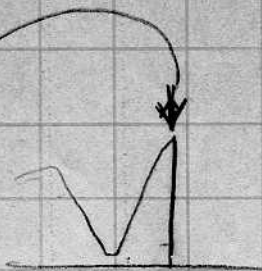
35.1 days to this a rotation of sun's core? (and to magnetic vector swerve)

Periods are mos = 7.8, 9.2, 10.3, 11.4, 13.7, 15.1, 17.3, 19.4, 21.4-22.9, 25.7, 27.2

$\frac{2}{12} \frac{21}{2}$



1906



5.07

95.6 ^{cm}

5 yr stand

2.2 ^m short in 60 ^{cm}

500 yr long

L .6 20.1
R .5 19.9

Av. 25.05 L 25.25
R 24.95

Av 30.15 L 30.34
R 30.00

Av 15.06 L $\frac{1}{3}$ 15.00
R $\frac{1}{3}$ "

Av 10.1 L $\frac{1}{3}$ 10.08
R 10.09
Center 10.13

Av 7.6

2/12/21

Old vt Rain - small variations - now re-analyzed

single
 $\frac{13.0}{2} = 6.5$ w/f 16.5
 $\frac{19.00}{2} = 9.5$ 19.8 Db
 $\frac{25.0}{2} = 12.5$ or 23.4 or 26.8
 DbrT 26.8
 Infill 130.0 or 28.7
 W 32.1
 for 34.0 single line

7.0 (at shaft) changing to 6.7 in middle
 5.2 to 5 (var in early part)
 = intermittent

early part carries a well marked double at 10.8

10.0 = $\frac{\text{cu}}{\text{yrs per cu}} = 2.00 \times 1.241 = 2.482 = 29.8$
 10.8 = $\frac{2.68}{1.34} = 16.1$

Crew made 8/4/14

Shrinkage $4\frac{1}{2}$ in 60 cu
 Block strips 62.0 apart
 $\frac{1835}{1912}$
 $62 \overline{) 77 \text{ yrs}}$
 1.241

MWR, June 1909

32.8 Min 1880, 6

21.2 Min 1884, 3

These ^{data} will on 1912 Curm
(Century Curm)

negs 2/12/21

1 5.7^{yr} pd in Flag - sur

2 Views of White Pdgp

Analysis ^{sup 2^m} 22 yrs Flag pd -
^{sup 2^m} showing interference
^{sup 1/2^m} Flag 7-500 at 7.1 (na