

SEPT - OCTOBER 1953

PRESSURE - SELECTED DAYS

mean of 12 figures = 1.9387

SEP-OCT 53

Hour No.	TOTAL	MEAN	hourly MEAN	+	CORRECTED FOR SECULAR CHANGE	DEPARTURES FROM MEAN	U _i
01	40.72	1.9390					
02	40.56	1.9314	1.9352	0	1.9352	-0.0035	-35
03	40.43	1.9252					
04	40.35	1.9214	1.9233	0.0032	1.9265	-0.0122	-122
05	40.40	1.9238					
06	40.57	1.9319	1.9279	0.0064	1.9343	-0.0044	-44
07	40.83	1.9443					
08	40.98	1.9514	1.9479	0.0096	1.9575	+0.0188	+188
09	41.00	1.9524					
10	40.92	1.9486	1.9505	0.0128	1.9633	+0.0246	+246
11	40.78	1.9419					
12	40.53	1.9300	1.9360	0.0159	1.9519	+0.0132	+132
13	40.28	1.9181					
14	40.01	1.9052	1.9117	0.0191	1.9308	-0.0079	-79
15	39.73	1.8919					
16	39.60	1.8857	1.8888	0.0223	1.9111	-0.0276	-276
17	39.64	1.8876					
18	39.78	1.8943	1.8910	0.0255	1.9165	-0.0222	-222
19	39.98	1.9038					
20	40.20	1.9143	1.9090	0.0287	1.9377	-0.0010	-10
21	40.35	1.9214					
22	40.34	1.9210	1.9212	0.0319	1.9531	+0.0144	+144
23	40.22	1.9152					
24	40.06	1.9076	1.9114	0.0351	1.9465	+0.0078	+78
25	39.93	1.9014					
26	39.74	1.8924	1.8969	0.0383	1.9352	-0.0035	-35

$$\frac{1.9352 - 1.8969}{0.0383} = \frac{0.0383}{12} = \underline{\underline{0.00319 = x}}$$

NOV- DEC. 1953

PRESSURE - SELECTED DAYS

NOV DEC 53

Mean of 1st 12 figures = 1.5856

Hour	TOTAL	MEAN	2 hourly MEAN	+	CORRECTED FOR SECULAR CHANGE	DEPARTURES FROM MEAN	U _i
N. 11. 01	17.43	1.5845					
02	17.33	1.5755	1.5800	0	1.5800	-0.0056	-56
03	17.28	1.5709					
04	17.23	1.5664	1.5686	0.0037	1.5723	-0.0133	-133
05	17.29	1.5718					
06	17.42	1.5836	1.5777	0.0074	1.5851	-0.0005	-5
07	17.53	1.5936					
08	17.61	1.6009	1.5973	0.0111	1.6084	+0.0228	+228
09	17.60	1.6000					
10	17.51	1.5918	1.5959	0.0148	1.6107	+0.0251	+251
11	17.42	1.5836					
12	17.29	1.5718	1.5777	0.0185	1.5962	+0.0106	+106
13	17.16	1.5600					
14	17.02	1.5473	1.5536	0.0223	1.5759	-0.0097	-97
15	16.95	1.5409					
16	16.86	1.5327	1.5368	0.0260	1.5628	-0.0228	-228
17	16.81	1.5282					
18	16.87	1.5336	1.5309	0.0297	1.5606	-0.0250	-250
19	16.96	1.5418					
20	17.08	1.5527	1.5473	0.0334	1.5807	-0.0049	-49
21	17.16	1.5600					
22	17.19	1.5627	1.5614	0.0371	1.5985	+0.0129	+129
23	17.15	1.5591					
24	17.06	1.5509	1.5550	0.0408	1.5958	+0.0102	+102
25	16.95	1.5409					
26	16.83	1.5300	1.5355	0.0445	1.5800	-0.0056	

$$\frac{1.5800 - 1.5355}{0.0445} = \frac{0.0445}{12} = 0.00371 = x$$

PRESSURE - SELECTED DAYS

MEAN OF FIRST 12 FIGURES = 1.8924

JAN FEB '54

JAN - FEB 1954

N.29.

2/ hourly	TOTAL MEAN	MEAN	SECULAR CHANGE	DEPARTURES FROM MEAN	U _i in units of .0001
01	54.89	1.8928			
02	54.64	1.8841	1.8884	+ 0.0043	- 40
03	54.39	1.8755			
04	54.28	1.8717	1.8736	+ 0.0019	- 170
05	54.42	1.8766			
06	54.67	1.8852	1.8809	+ 0.0043	- 79
07	54.95	1.8948			
08	55.22	1.9041	1.8995	+ 0.0046	+ 126
09	55.28	1.9062			
10	55.20	1.9034	1.9048	+ 0.0014	+ 197
11	55.01	1.8969			
12	54.72	1.8869	1.8919	+ 0.0050	+ 86
13	54.48	1.8786			
14	54.22	1.8697	1.8741	+ 0.0044	- 74
15	54.01	1.8624			
16	53.87	1.8576	1.8600	+ 0.0024	- 197
17	53.86	1.8572			
18	53.91	1.8590	1.8581	+ 0.0009	- 197
19	54.16	1.8676			
20	54.56	1.8814	1.8745	+ 0.0069	- 15
21	54.92	1.8938			
22	55.01	1.8969	1.8953	+ 0.0016	+ 211
23	54.83	1.8907			
24	54.63	1.8838	1.8872	+ 0.0034	+ 148
25	54.34	1.8738			
26	53.92	1.8593	1.8666	+ 0.0073	

$$\frac{1.8884}{1.8666} \cdot \frac{0.0218}{12} = \underline{0.00182 = x}$$

MAY-JUNE 1954

PRESSURE SELECTED DAYS

MAY JUNE 54

mean of 1st 12 figures = 1.9513

N.25

HOUR	TOTAL	MEAN	hourly MEAN	+	CORRECTED FOR SECULAR CHANGE	DEPARTURE FROM MEAN	U.C.
01	48.60	1.9440					
02	48.49	1.9396	1.9418	0	1.9418	-0.0095	-95
03	48.49	1.9396					
04	48.45	1.9380	1.9388	0.0017	1.9405	-0.0108	-108
05	48.50	1.9400					
06	48.64	1.9456	1.9428	0.0035	1.9463	-0.0050	-50
07	48.90	1.9560					
08	49.06	1.9624	1.9592	0.0052	1.9644	+0.0131	+131
09	49.24	1.9696					
10	49.29	1.9716	1.9706	0.0069	1.9775	+0.0262	+262
11	49.19	1.9676					
12	48.91	1.9564	1.9620	0.0087	1.9707	+0.0194	+194
x							
13	48.47	1.9388					
14	48.13	1.9252	1.9320	0.0104	1.9424	-0.0089	-89
15	47.97	1.9188					
16	47.97	1.9188	1.9188	0.0121	1.9309	-0.0204	-204
17	48.05	1.9220					
18	48.20	1.9280	1.9250	0.0138	1.9388	-0.0125	-125
19	48.38	1.9352					
20	48.42	1.9368	1.9360	0.0156	1.9516	+0.0003	+3
21	48.46	1.9384					
22	48.49	1.9396	1.9390	0.0173	1.9563	+0.0050	+50
23	48.45	1.9380					
24	48.29	1.9316	1.9348	0.0190	1.9538	+0.0025	+25
25	48.10	1.9240					
26	47.95	1.9180	1.9210	0.0208	1.9418	-0.0045	-45

$$\frac{1.9418 - 1.9210}{0.0208} = \frac{0.0208}{12} = 0.00173$$

JULY - AUG, 1956

PRESSURE - SELECTED DAYS

JULY - AUG
54

Mean of 1st 12 figures = 1.9872

HR	TOTAL	MEAN	hourly MEAN	+	CORRECTED FOR SECULAR CHANGE	DEPARTURES FROM MEAN	U _i
01	47.35	1.9729					
02	47.34	1.9728	1.9727	0	1.9727	-0.0145	-145
03	47.35	1.9729					
04	47.30	1.9708	1.9719	.0019	1.9738	-0.0134	-134
05	47.38	1.9742					
06	47.57	1.9821	1.9781	.0038	1.9819	-0.0053	-53
07	47.82	1.9925					
08	48.00	2.0004	1.9965	.0037	2.0022	+0.0150	+150
09	48.20	2.0083					
10	48.24	2.0100	2.0092	.00076	2.0168	+0.0296	+296
11	48.17	2.0071					
12	47.90	1.9958	2.0015	.0057	2.0110	+0.0238	+238
13	47.47	1.9779					
14	47.69	1.9821	1.9700	.0113	1.9813	-0.0059	-59
15	46.90	1.9542					
16	46.84	1.9517	1.9529	.0132	1.9661	-0.0211	-211
17	46.87	1.9529					
18	47.04	1.9600	1.9565	.0151	1.9716	-0.0156	-156
19	47.26	1.9692					
20	47.37	1.9737	1.9715	.0170	1.9885	+0.0013	+13
21	47.43	1.9763					
22	47.40	1.9750	1.9756	.0189	1.9945	+0.0073	+73
23	47.27	1.9696					
24	47.08	1.9617	1.9656	.0208	1.9864	-0.0008	-8
25	46.87	1.9529					
26	46.73	1.9471	1.9500	.0227	1.9727		✓

$$\frac{1.9727 - 1.9500}{0.0227} = \frac{0.0227}{12} = 0.00189 = x$$

SEPT-OCT 1953

u_i
-35
-122
-44
+188
+246
+132
-79
-276
-222
-10
+144
+78

$$\begin{cases} a_1 = +28.10056 \\ b_1 = +90.74850 \end{cases}$$

$$\begin{cases} a_2 = -74.66660 \\ b_2 = -182.44576 \end{cases}$$

$$\begin{cases} a_3 = -5.33344 \\ b_3 = +1.66670 \end{cases}$$

$$\begin{cases} a_4 = +16.00000 \\ b_4 = +6.92832 \end{cases}$$

$$a_1^2 + b_1^2 = 9024.9339$$

$$\underline{R_1 = 94.999}$$

$$a_2^2 + b_2^2 = 38861.5711$$

$$\underline{R_2 = 197.133}$$

$$a_3^2 + b_3^2 = 31.2230$$

$$\underline{R_3 = 5.588}$$

$$a_4^2 + b_4^2 = 304.0013$$

$$\underline{R_4 = 17.436}$$

check

$$a_1 + b_1 + a_2 + b_2 = -138.26330$$

$$\sum K_i u_i = -138.26330 \quad \checkmark$$

$$a_3 + b_3 + a_4 + b_4 = 19.26158$$

$$\sum K_i' u_i = 19.26158 \quad \checkmark$$

$$\sin f_1 = a_1/R_1 = +.2958$$

$$\cos f_1 = b_1/R_1 = +.9552$$

$$\underline{f_1 = 17^\circ 13'}$$

$$\sin f_2 = a_2/R_2 = -.3788$$

$$\cos f_2 = b_2/R_2 = -.9255$$

$$\underline{f_2 = 202^\circ 16'}$$

$$\sin f_3 = a_3/R_3 = -.9544$$

$$\cos f_3 = b_3/R_3 = +.2983$$

$$\underline{f_3 = 287^\circ 22'}$$

$$\sin f_4 = a_4/R_4 = +.9176$$

$$\cos f_4 = b_4/R_4 = +.3973$$

$$\underline{f_4 = 66^\circ 34'}$$

Amplitudes corrected for
effect of averaging over
2-hourly period

$$R_1' = 96.139$$

$$R_2' = 206.398$$

$$R_3' = 6.208$$

$$R_4' = 21.080$$

Nov - DEC 1953

U_i
-56
-133
-5
+228
+251
+106
-97
-228
-250
-49
+129
+102

$$\left. \begin{aligned} a_1 &= +30.21500 \\ b_1 &= +107.39504 \end{aligned} \right\}$$

$$\left. \begin{aligned} a_2 &= -78.50018 \\ b_2 &= -173.78536 \end{aligned} \right\}$$

$$\left. \begin{aligned} a_3 &= -13.66694 \\ b_3 &= -29.66726 \end{aligned} \right\}$$

$$\left. \begin{aligned} a_4 &= +6.66666 \\ b_4 &= +9.52644 \end{aligned} \right\}$$

$$a_1^2 + b_1^2 = 12445.7396$$

$$\underline{R_1 = 111.561}$$

$$a_2^2 + b_2^2 = 36363.6466$$

$$\underline{R_2 = 190.693}$$

$$a_3^2 + b_3^2 = 1066.9328$$

$$\underline{R_3 = 32.664}$$

$$a_4^2 + b_4^2 = 135.1972$$

$$\underline{R_4 = 11.627}$$

Check

$$a_1 + b_1 + a_2 + b_2 = -114.67750 \quad \checkmark$$

$$\sum K_i U_i = -114.67750$$

$$a_3 + b_3 + a_4 + b_4 = -27.14110 \quad \checkmark$$

$$\sum K_i' U_i = -27.14110$$

$$\sin f_1 = a_1/R_1 = +.2709$$

$$\cos f_1 = b_1/R_1 = +.9626$$

$$\underline{f_1 = 15^\circ 43'}$$

$$\sin f_2 = a_2/R_2 = -.4117$$

$$\cos f_2 = b_2/R_2 = -.9113$$

$$\underline{f_2 = 204^\circ 19'}$$

$$\sin f_3 = a_3/R_3 = -.4184$$

$$\cos f_3 = b_3/R_3 = -.9083$$

$$\underline{f_3 = 204^\circ 44'}$$

$$\sin f_4 = a_4/R_4 = +.5734$$

$$\cos f_4 = b_4/R_4 = +.8193$$

$$\underline{f_4 = 34^\circ 59'}$$

Amplitudes corrected for
effect of averaging over
2-hourly period

$$R_1' = 112.900$$

$$R_2' = 199.655$$

$$R_3' = 36.290$$

$$R_4' = 14.057$$

PRESSURE - Selected days of approx linear secular pressure change.

JAN-FEB 1954

HOBART

U_i (units of $\cdot 0001''$ Hg)

$$\begin{cases} a_1 = 29.51260 \\ b_1 = 35.59528 \end{cases}$$

Check.

$$\begin{aligned} a_1 + b_1 + a_2 + b_2 &= -179.95222 \quad \checkmark \\ \sum K_i U_i &= -179.95222 \end{aligned}$$

-40 0

$$\begin{cases} a_2 = -59.58320 \\ b_2 = -185.47690 \end{cases}$$

$$a_2 + b_2 + a_3 + b_3 = -34.10404 \quad \checkmark$$

-170 1

$$\begin{cases} a_3 = -16.53366 \\ b_3 = -29.33392 \end{cases}$$

$$\sum K_i' U_i = -34.10404$$

-79 2

+126 3

$$\begin{cases} a_4 = 0.41668 \\ b_4 = +11.98022 \end{cases}$$

+197 4

+86 5

$$a_1^2 + b_1^2 = 2138.0189$$

$$\sin f_1 = a_1/R_1 = +0.6383$$

-74 6

$$\underline{R_1 = 46.239}$$

$$\cos f_1 = b_1/R_1 = +0.7698$$

-197 7

$$\underline{f_1 = 39^\circ 39'}$$

-197 8

$$a_2^2 + b_2^2 = 37951.8381$$

$$\sin f_2 = a_2/R_2 = -0.3058$$

-15 9

$$\underline{R_2 = 194.812}$$

$$\cos f_2 = b_2/R_2 = -0.9521$$

+211 10

$$\underline{f_2 = 197^\circ 48'}$$

+148 11

$$a_3^2 + b_3^2 = 1127.2674$$

$$\sin f_3 = a_3/R_3 = -0.4865$$

$$\underline{R_3 = 33.575}$$

$$\cos f_3 = b_3/R_3 = -0.8737$$

$$a_4^2 + b_4^2 = 143.6988$$

$$\underline{f_3 = 209^\circ 7'}$$

$$\underline{R_4 = 11.987}$$

$$\sin f_4 = a_4/R_4 = -0.0348$$

$$\cos f_4 = b_4/R_4 = +0.9994$$

$$\underline{f_4 = 358^\circ 0'}$$

Corrections to amplitudes for effect of averaging over 24-hour period

- $R_1 \times 1.012$
- $R_2 \times 1.047$
- $R_3 \times 1.111$
- $R_4 \times 1.209$

$$R_1' = 46.794$$

$$R_2' = 203.968$$

$$R_3' = 37.302$$

$$R_4' = 14.492$$

} $\times 0.0001''$ Hg.

MARCH - APRIL 1954

check

u_i	i	$\begin{cases} a_1 = 8.88080 \\ b_1 = 132.85326 \end{cases}$
-69	0	$\begin{cases} a_2 = -78.41684 \\ b_2 = -206.26186 \end{cases}$
-129	1	$\begin{cases} a_3 = -1.33336 \\ b_3 = +2.66672 \end{cases}$
-36	2	$\begin{cases} a_4 = +3.91668 \\ b_4 = +10.53682 \end{cases}$
+221	3	
+326	4	

$$\begin{aligned} a_1 + b_1 + a_2 + b_2 &= -142.94464 \quad \checkmark \\ \sum u_i &= -142.94464 \quad \checkmark \end{aligned}$$

$$\begin{aligned} a_3 + b_3 + a_4 + b_4 &= 15.78686 \quad \checkmark \\ \sum u_i &= 15.78686 \quad \checkmark \end{aligned}$$

$$\begin{aligned} a_1^2 + b_1^2 &= 17728.8679 \\ R_1 &= \underline{\underline{133.150}} \end{aligned}$$

$$\begin{aligned} \sin f_1 &= a_1/R_1 = +0.0667 \\ \cos f_1 &= b_1/R_1 = +.9978 \\ f_1 &= \underline{\underline{3^\circ 49'}} \end{aligned}$$

$$\begin{aligned} a_2^2 + b_2^2 &= 48693.1659 \\ R_2 &= \underline{\underline{220.665}} \end{aligned}$$

$$\begin{aligned} \sin f_2 &= a_2/R_2 = -.3554 \\ \cos f_2 &= b_2/R_2 = -.9347 \\ f_2 &= \underline{\underline{200^\circ 49'}} \end{aligned}$$

$$\begin{aligned} a_3^2 + b_3^2 &= 8.8892 \\ R_3 &= \underline{\underline{2.981}} \end{aligned}$$

$$\begin{aligned} \sin f_3 &= a_3/R_3 = -.4473 \\ \cos f_3 &= b_3/R_3 = +.8946 \\ f_3 &= \underline{\underline{333^\circ 26'}} \end{aligned}$$

$$\begin{aligned} a_4^2 + b_4^2 &= 126.3647 \\ R_4 &= \underline{\underline{11.241}} \end{aligned}$$

$$\begin{aligned} \sin f_4 &= a_4/R_4 = +.3484 \\ \cos f_4 &= b_4/R_4 = +.9374 \\ f_4 &= \underline{\underline{20^\circ 23'}} \end{aligned}$$

Amplitudes corrected
for effect of smoothing
over 2π period

$$\begin{aligned} R_1' &= 134.748 \\ R_2' &= 231.036 \\ R_3' &= 3.312 \\ R_4' &= 13.590 \end{aligned}$$

MAY - JUNE 1954

Check

$$u_i \quad \left\{ \begin{array}{l} a_1 = -22.95305 \\ b_1 = +84.84179 \end{array} \right.$$

$$a_1 + b_1 + a_2 + b_2 = -157.21634$$

$$\sum K_i u_i = -157.21634 \quad \checkmark$$

$$-95 \quad \left\{ \begin{array}{l} a_2 = -72.16696 \\ b_2 = -146.93812 \end{array} \right.$$

$$a_3 + b_3 + a_4 + b_4 = +26.31658$$

$$\sum K_i u_i = +26.31658 \quad \checkmark$$

$$-108 \quad \left\{ \begin{array}{l} a_3 = +21.83377 \\ b_3 = +22.83379 \end{array} \right.$$

$$-50 \quad \left\{ \begin{array}{l} a_4 = -12.00002 \\ b_4 = -6.35096 \end{array} \right.$$

$$+131$$

$$+262$$

$$+194$$

$$-89$$

$$-204$$

$$-125$$

$$+3$$

$$+50$$

$$+25$$

$$a_1^2 + b_1^2 = 7724.9758$$

$$\underline{R_1 = 87.892}$$

$$\sin f_1 = a_1/R_1 = -0.2611$$

$$\cos f_1 = b_1/R_1 = +0.9653$$

$$\underline{f_1 = 344^\circ 52'}$$

$$a_2^2 + b_2^2 = 26798.8666$$

$$\underline{R_2 = 163.703}$$

$$\sin f_2 = a_2/R_2 = -0.4408$$

$$\cos f_2 = b_2/R_2 = -0.8976$$

$$\underline{f_2 = 206^\circ 9'}$$

$$a_3^2 + b_3^2 = 998.0912$$

$$\underline{R_3 = 31.593}$$

$$\sin f_3 = a_3/R_3 = +0.6911$$

$$\cos f_3 = b_3/R_3 = +0.7227$$

$$\underline{f_3 = 43^\circ 43'}$$

$$a_4^2 + b_4^2 = 184.3352$$

$$\underline{R_4 = 13.577}$$

$$\sin f_4 = a_4/R_4 = -0.8838$$

$$\cos f_4 = b_4/R_4 = -0.4678$$

$$\underline{f_4 = 242^\circ 6'}$$

Amplitudes corrected for
effect of averaging over
known period

$$R_1' = 88.947$$

$$R_2' = 171.397$$

$$R_3' = 35.100$$

$$R_4' = 16.415$$

JULY - AUG 1954

Check

u_i

-145

$$\begin{cases} a_1 = -48.72668 \\ b_1 = +96.80422 \end{cases}$$

$$\begin{aligned} a_1 + b_1 + a_2 + b_2 &= -202.43012 \quad \checkmark \\ \sum K_i u_i &= -202.43012 \quad \checkmark \end{aligned}$$

-134

$$\begin{cases} a_2 = -84.08364 \\ b_2 = -166.42402 \end{cases}$$

$$\begin{aligned} a_3 + b_3 + a_4 + b_4 &= 26.51710 \quad \checkmark \\ \sum K_i' u_i &= 26.51710 \end{aligned}$$

-53

$$\begin{cases} a_3 = +5.66678 \\ b_3 = +31.00062 \end{cases}$$

+150

$$\begin{cases} a_4 = -10.58332 \\ b_4 = +0.43302 \end{cases}$$

+296

+238

-59

$$a_1^2 + b_1^2 = 11745.3444$$

$$\sin f_1 = a_1/R_1 = -.4496$$

-211

$$\underline{R_1 = 108.376}$$

$$\cos f_1 = b_1/R_1 = +.8932$$

-156

$$\underline{f_1 = 333^\circ 17'}$$

+13

$$a_2^2 + b_2^2 = 34766.9996$$

$$\sin f_2 = a_2/R_2 = -.4509$$

+73

$$\underline{R_2 = 186.459}$$

$$\cos f_2 = b_2/R_2 = -.8925$$

-8

$$\underline{f_2 = 206^\circ 48'}$$

$$a_3^2 + b_3^2 = 993.1498$$

$$\sin f_3 = a_3/R_3 = +.1798$$

$$\underline{R_3 = 31.514}$$

$$\cos f_3 = b_3/R_3 = +.9837$$

$$\underline{f_3 = 10^\circ 21'}$$

$$a_4^2 + b_4^2 = 112.1937$$

$$\sin f_4 = a_4/R_4 = -.9992$$

$$\underline{R_4 = 10.592}$$

$$\cos f_4 = b_4/R_4 = +.0409$$

$$\underline{f_4 = 272^\circ 19'}$$

Amplitudes corrected for effect of averaging over 2-hourly period

$$R_1' = 109.677$$

$$R_2' = 195.223$$

$$R_3' = 35.012$$

$$R_4' = 12.806$$

SELECTED DATA
PRESSURE

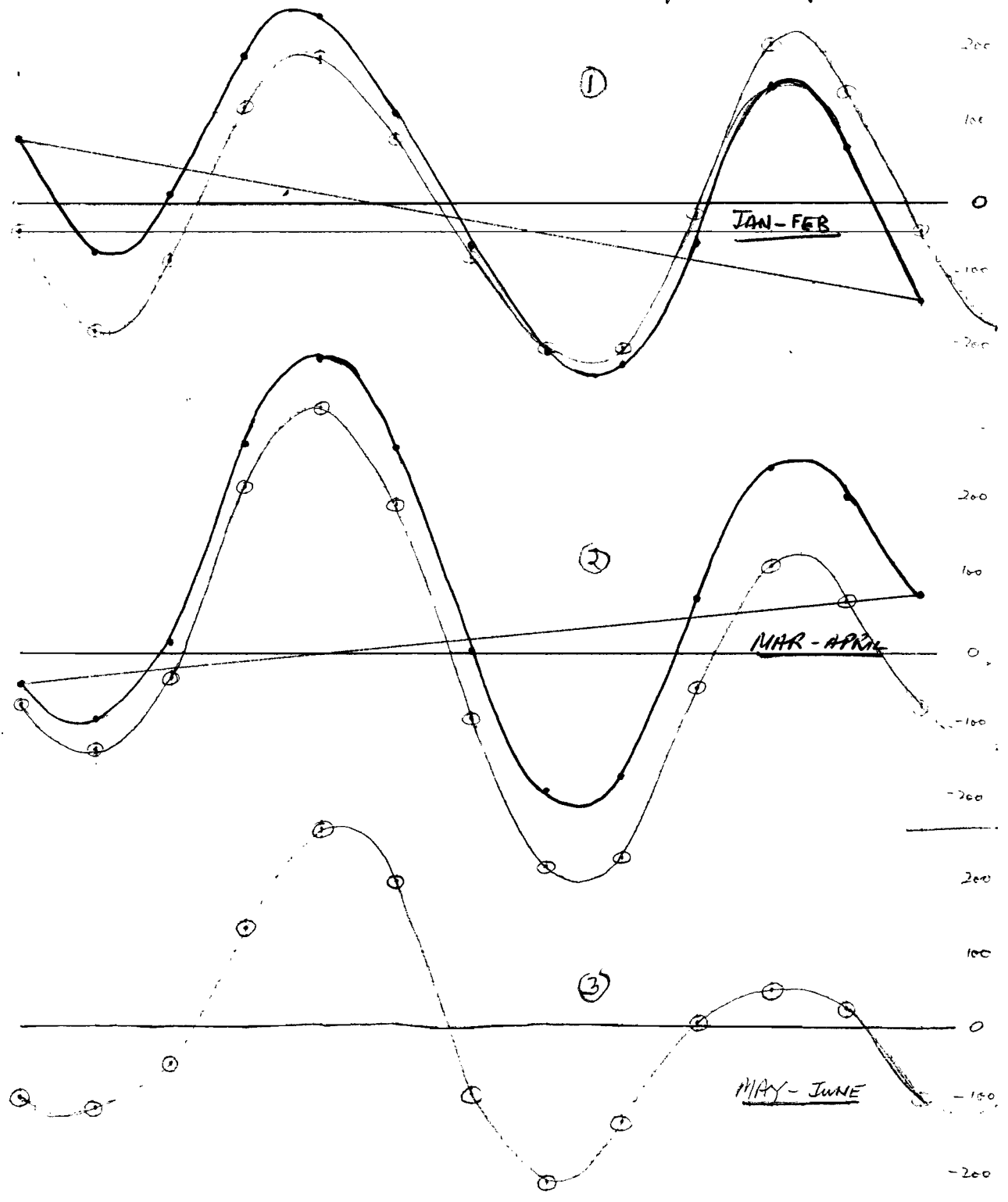
EST

1 3 5 7 9 11 13 15 17 19 21 23 25

Red curves
Pencil "

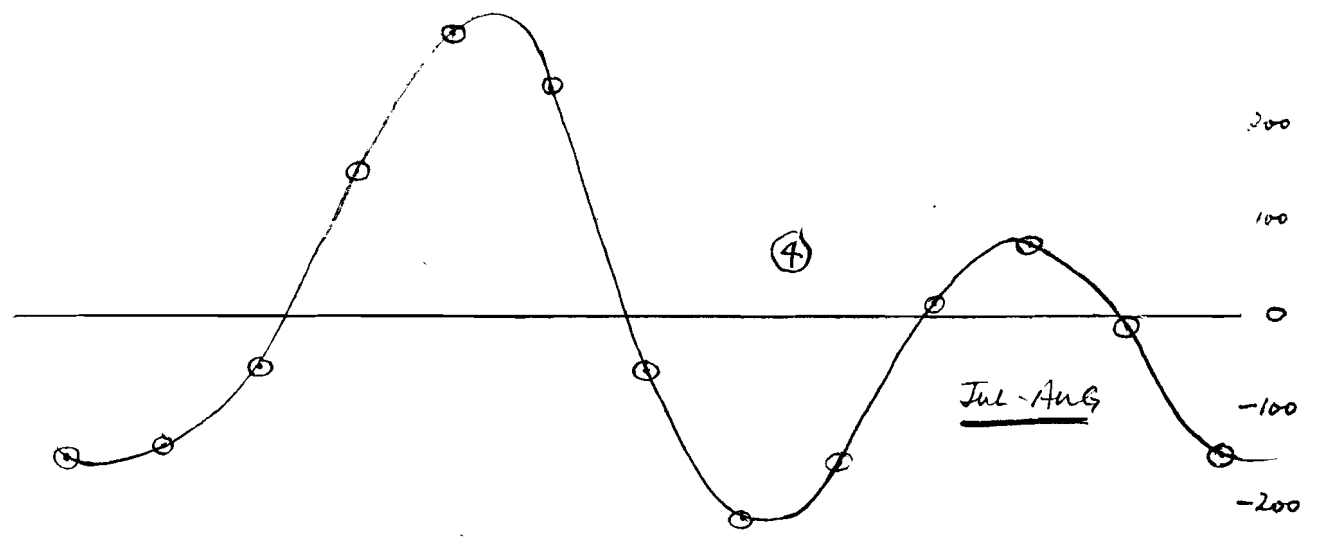
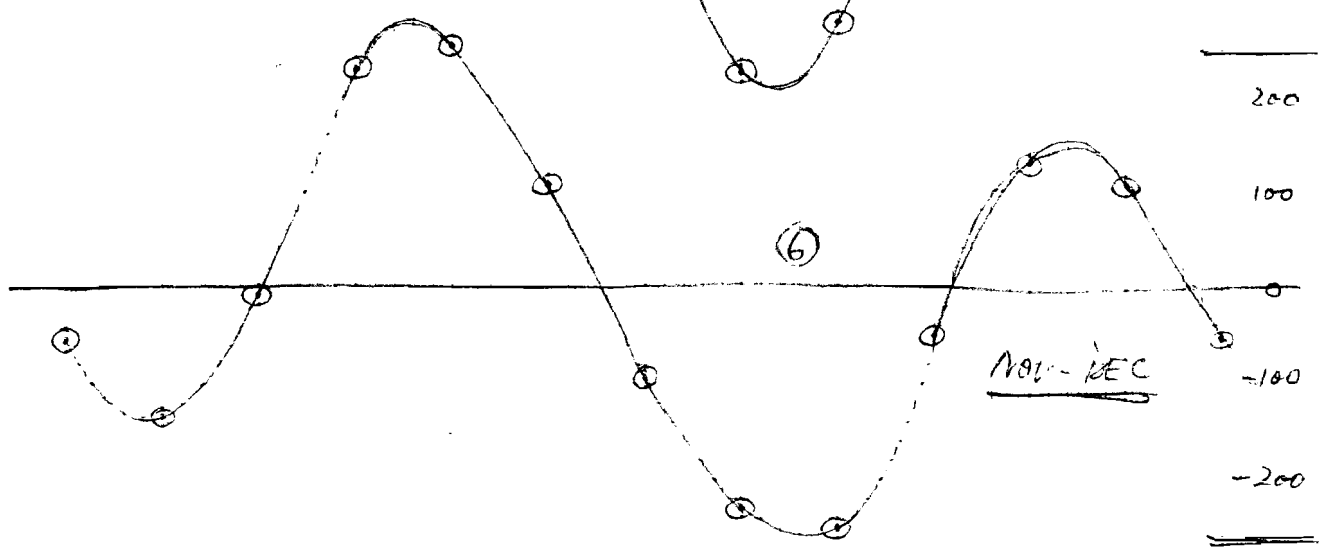
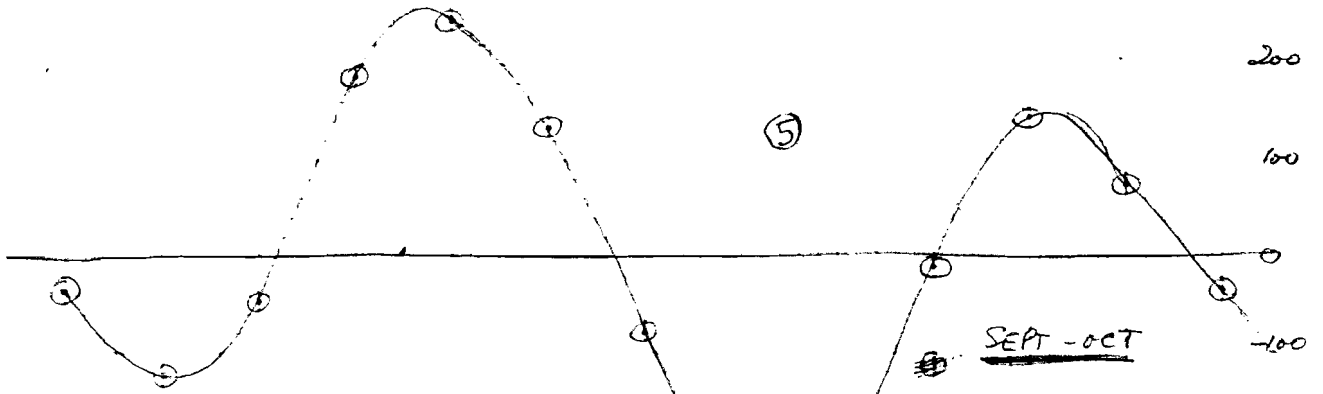
2-hourly means uncorrected for secular change
departures from mean (heavy pencil line)
corrected for secular change.

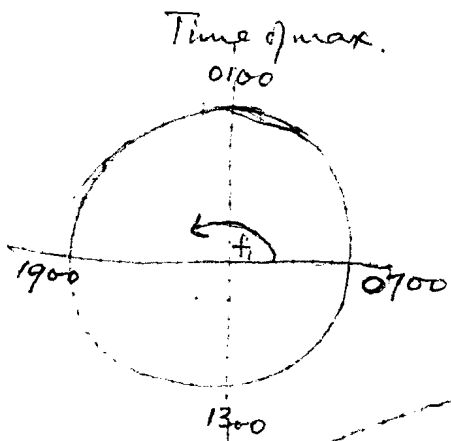
1.91
1.90
1.89
1.88
1.87
1.86
1.85
1.84
1.83
1.82
1.81
1.80
1.79
1.78
1.77
1.76



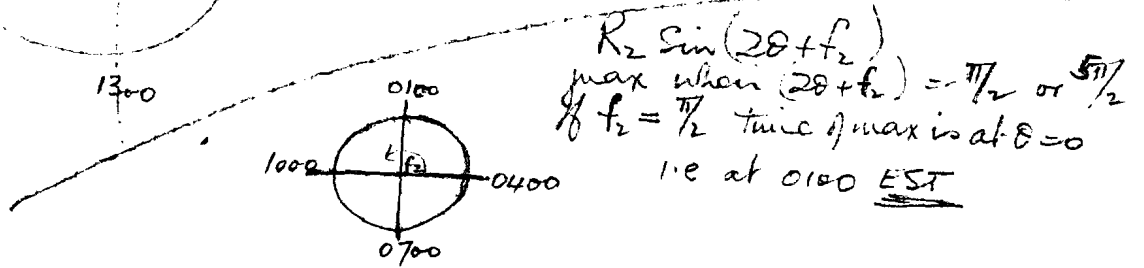
EST

01	03	05	07	09	11	13	15	17	19	21	23	25
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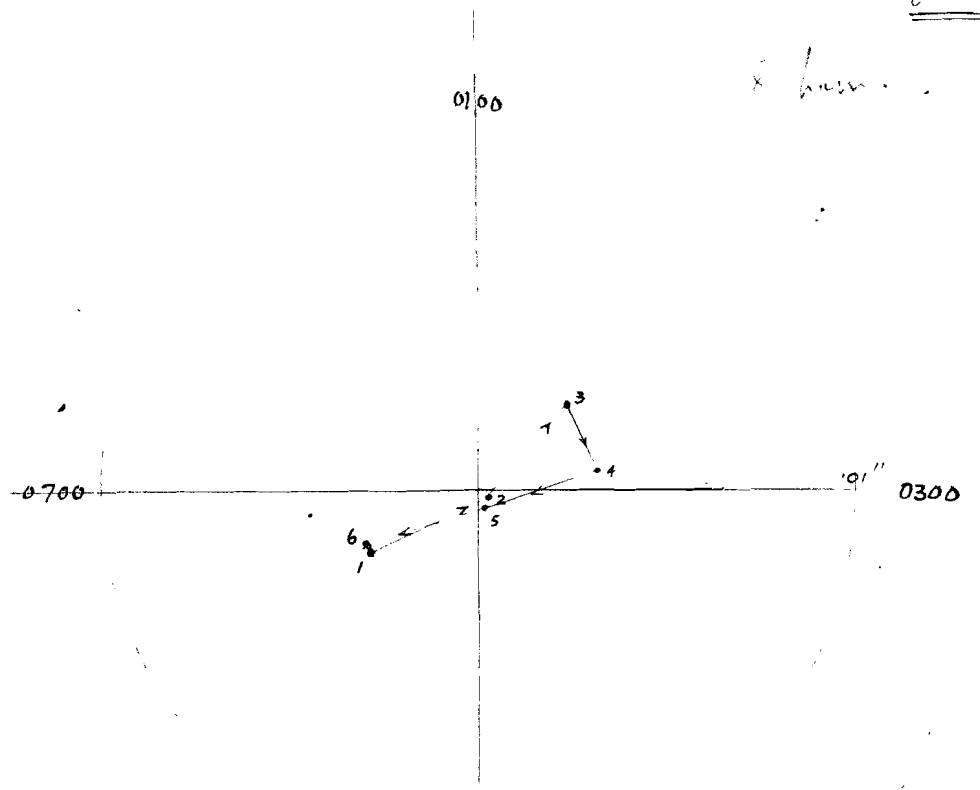


$R_1 \sin(\theta + t_1)$
 max^m when $\theta + t_1 = \frac{\pi}{2}$
 If $t_1 = 90^\circ$ time of max is at $\theta = 0$
 i.e. at 0100 EST (00-02)



E. Hawk

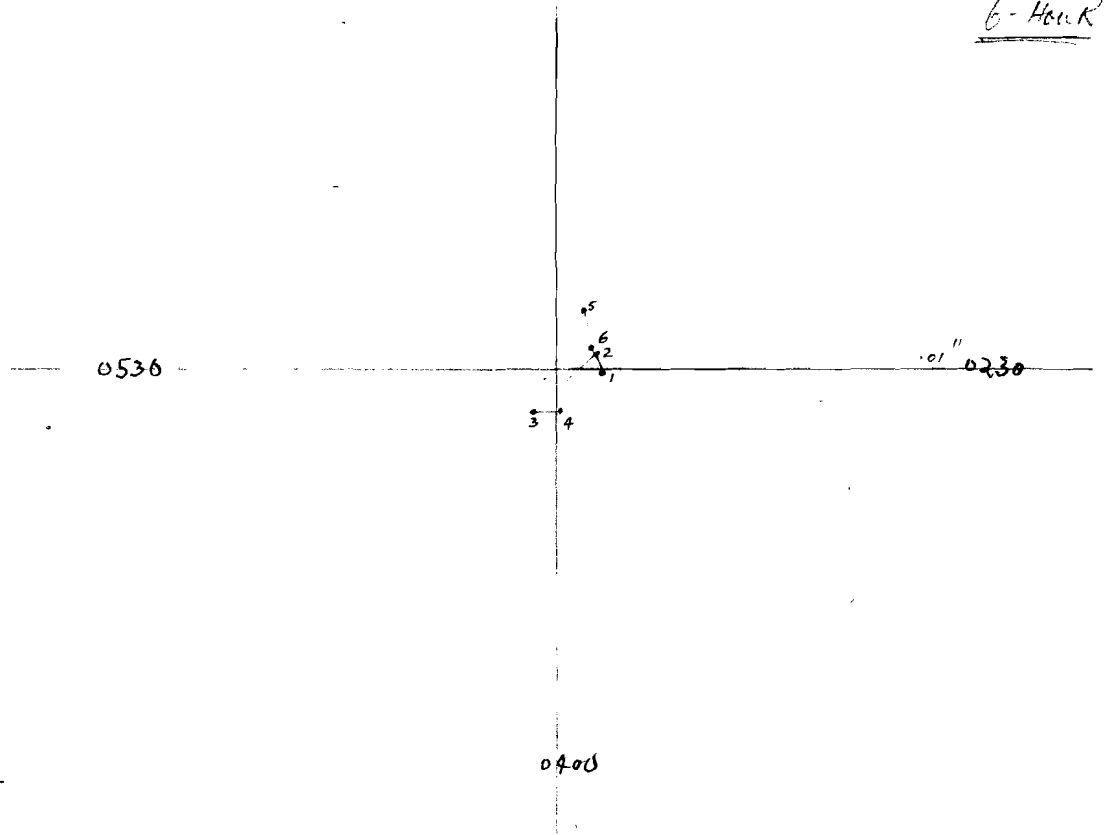
8 hours

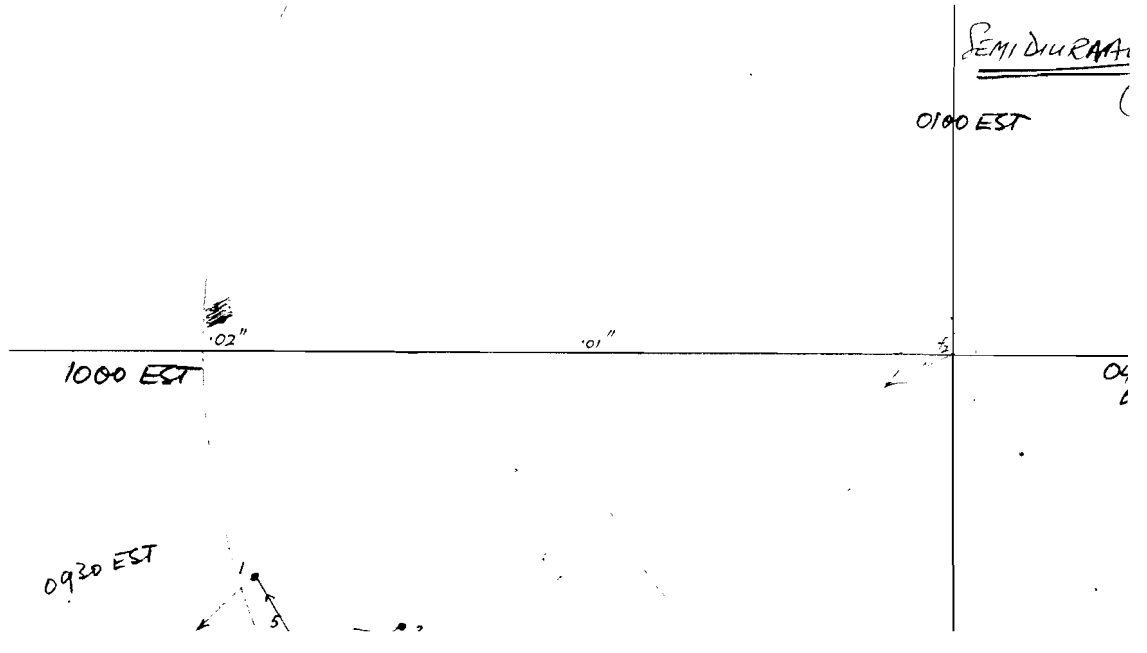
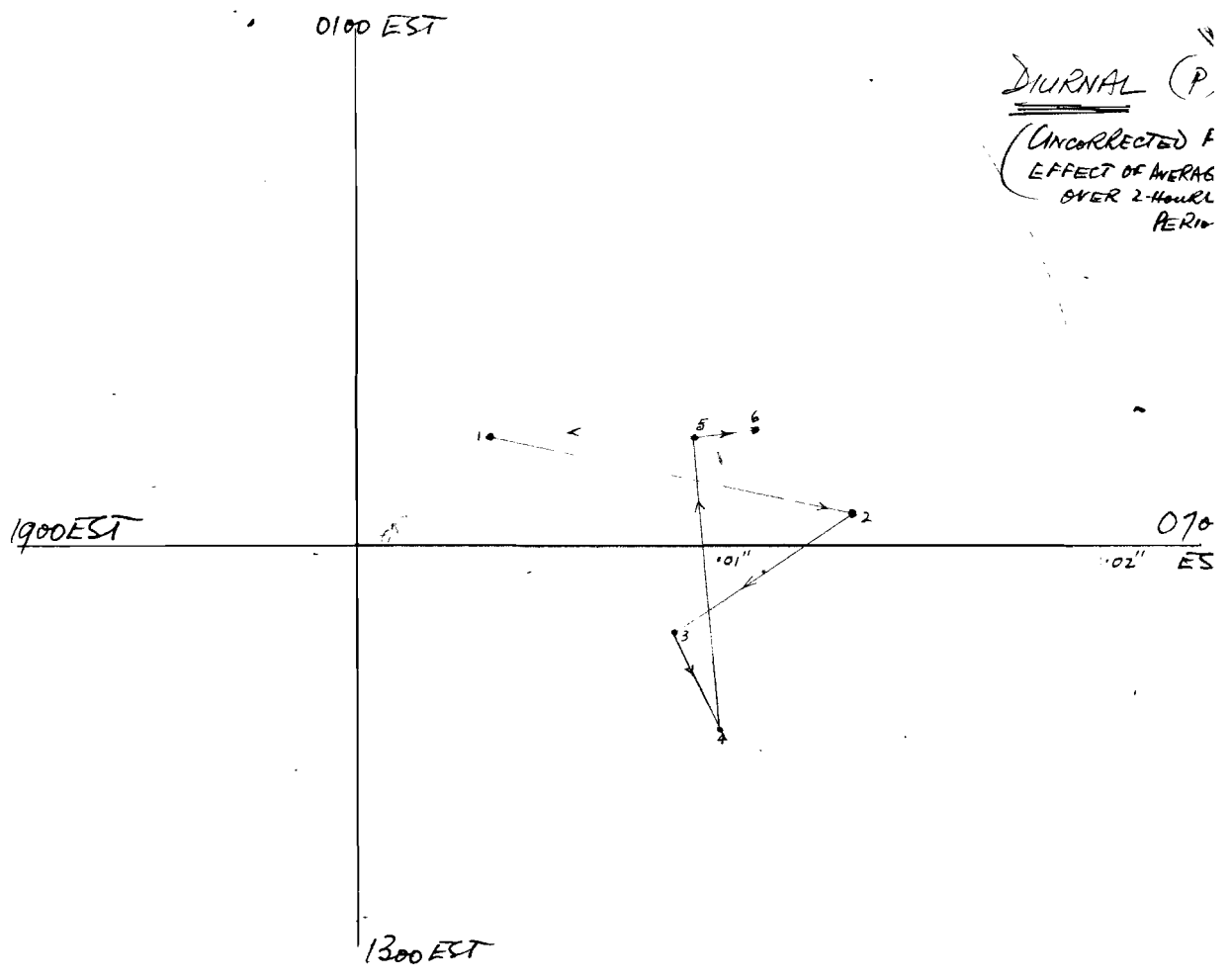


0500

0106

E. Hawk





Comparison with Haleakala results

24 hour component: Over twice the amplitude and small change of phase. No relation

12 hour component: Same amplitude. Same double loop, $1\frac{1}{2}$ hours earlier. Direction around loop and asymmetry of loop opposite to Haleakala. However same months (not seasons) low or high at both stations. This loop is image (view thru paper from back) of Haleakala.

8 hour component: Double loop does not encircle zero. In both the summer values are near 0700 hrs and winter values near 0230 hrs. Amplitude and direction around loop same.

6 hour component: Larger amplitude. Same random phase. No relation

Chapman & Bartels
Geomagnetism Vol II.

Whittaker & Robinson

Calculus of Observations

(Prof Jackson)