

FIXED RATE SCANNING, ENIGMA OR RESEARCH TOOL?

by
Bill Ramsay

Abstract

In a 1994 paper presented at the International Symposium on NewEnergy, the author revealed a technique, discovered serendipitously, which recorded unusual periods of frequency coherencies in the output of an inexpensive commercial function-generator. Except for periodic influences of sun and moon, little was known at that time about the causes of these coherencies. Work has been sporadic since, but 1997 was to be a time of unusual long-term planetary alignments which some researchers thought might trigger increased earthquakes. So, the author decided to put forth concerted efforts to see what might be found out. Reported are the results of these efforts which suggest this crude technique may be worthy of refinements including computerizing and placements of other such "scanning stations" around the globe. The present situation seems much like that of when there was only one seismograph, in that something was being learned but far from the potential.

Background

In 1991 some tests were being run on the capabilities of a long-time industry-standard electro-mechanical strip-chart recorder called a Rustrak. The first production model of this sturdy little recorder was in 1946 by a Mr. Rust, hence the name. Naturalist Philip S. Callahan had used such a recorder in the early 1980's, with a common house plant as a sensor, to record probable "tachyon" events.(1) My interest was in its possible use to record the outputs of some of the GW (Gravity Wave) sensors developed by Gregory Hodowanec. (2) I'd picked up a Rustrak surplus for under \$20 at a time when new ones cost over \$400. It needed some work and part of the reason for running tests was to check out my repairs. I fed the one-milliampere movement of this recorder with a very low frequency, about 0.3 Hertz, triangular waveform from an inexpensive (under \$300) commercial function-generator of a "generic" type. These unstabilized units are well known for frequency "drifting" which is why more expensive versions use stabilizing methods. As it's turned out, it was a good thing I didn't have one of these. A triangular waveform was used, after testing others, since it produced a smooth "sweeping" action similar to that of a pendulum. The very slow "rate of change" frequency of around 0.3 Hertz was picked so as not to unduly stress the well used meter movement which was never intended to be used this way.

These recorders (Model 288) use a 60 Hertz synchronous motor which, through a gear chain, drives the chart paper at a very precise one-inch per hour rate. A notched nylon disk attached directly to the motor shaft operates a spring-loaded bar which "snaps" the exposed meter needle against pressure sensitive chart paper at exact two-second intervals creating tiny dots. There are exactly 1800 of these during the one-inch one-hour intervals of chart progress. The charts have pre-printed lines at 15 minute intervals with hour notations every four of these.

After several days of continuous operation, I awoke one morning to find an intricate pattern, quite exquisite, had been formed overnight. After some thought it became apparent that, for this to be, there had to have been some period of time when the frequency was stable and at a rate which was within the two-second "sampling window." The pattern lasted for an hour so, whatever the influence, it had to have been around for a while. The drifting around in frequency of oscillators of this type is usually thought to be random or results of localized conditions such as temperature changes, or "stray" fields. While admitting these possibilities, I had a hunch there was more to it especially since the temperature had been quite stable overnight and I live in the country well away from "stray" fields.

During the time between the 1991 discovery and the 1994 ISNE paper, tests had been run in upstate New York, North Carolina and California under varying conditions. All yielded similar results which confirmed unique localized conditions were not the source of the coherencies. A demonstration unit was run at the ISNE. It was here that Nick Anthony Fiorenza, whom I'd just met, determined that a pattern had formed during the exact moments of Pluto's transit under earth. Done using his original "spherical astrogeometry" method. (See CHART 1.) It was gratifying for us both to see some confirmations to our separate work by that of the other.

Following this symposium Nick analyzed all the records run there and found alignments, significant according to his method, which were "mirrored" in other pattern coherencies as well. (3) The process of analysis is very laborious for Nick since there is no software yet to aid this. When the financial support to develop this becomes available, it will be done. Quite a worthy project considering the potentials!

Discussion

Over the last three years, researcher Alastair Couper has done quite a lot with this and related techniques. (4) He has also established a Web site through which information on this and the related work of others is reported. (5) Astrogeometer Nick Fiorenza published a paper in the 1995 IFNS proceedings, part of a book in progress, in which he lays out the basics of his geometry and gives examples of earth responses to significant alignments. (6) Judith Hill reports results of a long-term study correlating certain "key" planetary positions with reported earthquakes in areas prone to these, especially California. Some of these, covering hundreds of years of available data, are quite startling. (7) Researcher E.E. Richards has explored the vibrational relationships between solar system bodies relative to their natural resonances. (8,9,10) All these bodies can be treated as multi-cavity resonators because of their multi-layered compositions and rotations. In one paper he shows a chart (his Figure 6.) in which all the "scanning" frequencies I've used are within those shown as "cavity resonances." (10)

Earthquake researchers have long known there are anomalous EM (electromagnetic) actions before earthquakes. An active region in the EM spectrum for these is around 3 Hertz and below. The "below" is where all the frequencies I've used, .05-0.3 Hertz, are located. Years of concerted research at the Institute of HeartMath have shown dramatic shifts in human heart and brainwave "signatures" of frequencies in subjects able to open themselves to experience unconditional "love, appreciation and gratitude." (11) Some heart and brainwave actions occur in the same very low frequency spectrum. In some of my informal experiments, bursts of frequencies were measured near the bodies (no skin connections) of sensitive subjects when I asked them to "send love to the planet." These were all well below one-Hertz. Doubtless related is that some people are able to anticipate earthquakes by "sensing" something odd. As are many animals.

Ages old astrologies, not the mundane popularized ones, have charted relationships between the slow movements of cosmic bodies (also very low frequencies) with earth changes and human activities. There are reports of those seemingly able to manipulate the forces of gravity by transporting heavy objects over some distances. Some times done with technical aids and often not. There have been literally hundreds-of-thousands of reports of encounters, of all kinds, with unconventionally powered flyingcraft. In many cases, those witnessing these fetes report feeling or sensing some very low frequency "vibrations" which were outside the ranges of hearing. Certainly it would be supremely arrogant of us to consider ourselves as the ultimate form of creation and our technologies as all there is!

It seems clear there is a great deal going on we don't know much about. I'm pretty well convinced much of this is in the realms of the most fundamental and influential underlying dynamics of our universe. Where gravity, whatever its nature, is the key player. My intuition is that the long-duration cohering influences active in the technique reported here are those of gravity. Or, at the very least, those of extremely long wavelength EM forces where the distinction between the two becomes blurred due to the longitudinal nature of influences of either/or. In either case, the actions seen are likely not light-speed bounded. For a discussion of the distinctions, the reader is referred to Gregory Hodowanec's "Rhysmonic Cosmology." (12) Also a paper by the late Donald J. Savage. (13)

I'm also pretty well convinced that the cohering influences, whatever they may be, mirrored by this technique are mostly results of reactions by earth's very core, whatever it might be like, to these. Like the ringing of a bell? A VERY big one which vibrates VERY slowly? If this truly is the dynamic at work, then it seems likely ALL cosmic bodies, from planets to stars, use it. The "cosmic connection?" The "cosmic dance" on a grand scale ?

The Technique

The technique is quite simple. A commercially made function-generator which uses an RC (resistance-capacitance) network to determine the frequency is the "sensor." Those which use frequency stabilizing schemes will not work. There are somewhat "generic" versions sold under different brand names. The ones I've used are "Elenco" and "Instek". Alastair Couper uses a "B&K." Most will have to have the single-turn frequency adjustment control replaced with multi-turn ones or have a "fine frequency" adjustment control added. No big deal. Most sell new for under \$300 and include a built in frequency-counter which is of little use for this technique. Except to get a "rough" setting.

The standard Model 288 Rustrak recorder sells new for over \$450 now which includes just one roll (a months-worth) of chart paper. Additional rolls of paper sell for about \$10 each now with minimum orders required. So, figure another \$200 for a year's worth. The Rustraks can only be bought through distributors. Just the way the manufacturer operates. Contact me directly for details. (No, I'm not a distributor.) The meter, which is usually left-zero, is adjusted to make it center-zero.

The output of the generator is fed directly to the meter through a 10,000 ohm resistor, necessary to facilitate adjustments. The generator controls allow adjusting the output for centering and amplitude (meter swing). Adjusting the frequency initially is tricky. Contact me directly for instructions.

The equipment should be located in a pretty well temperature controlled place. The frequency is set just once, at the beginning, and then left alone for the unit to "wander." Which it usually does except when there is some cohering influence which stabilizes it within the two-second sampling window of the Rustrak. In which case patterns form. It makes more sense to use a computerized method of data sampling since the two-second recorder window doesn't see minute frequency variations. There is a square-wave output (TTL) on these generators which could be used for this purpose and run in tandem with the recorder. The leading and trailing edges of this square-wave can be used to trigger computer counters with appropriate interfaces (hardware if needed) and software. I don't know what these should be.

It was the selection and setting of the "fixed rate" initial frequency and the "scanning" like actions of the meter needle which led me to dub this technique "Fixed Rate Scanning." FRS for short. Several

"scanning" frequencies have been used but .05 Hertz (20 second period) was chosen for several reasons. It is by no means certain this is an optimum frequency. There may not be just one but rather a number of these, within some ranges of frequencies, which will show various aspects of the cohering influences. Which is another good reason for computerizing-to allow flexibility. The reasons I picked this frequency for the 1997 tests are: it's a sub-harmonic of other "significant" ones; it's within the sampling window; it's near the lower frequency limit of the generator; it shows the most variety of pattern coherencies; and it's the one used for the records Nick Fiorenza analyzed. Also, there are now several year's worth of accumulated records run at this frequency. Lastly, it's one I've become most familiar with.

The reason I picked 1997 for these tests is that many friends urged me to since there were to be pretty profound long-term recurring planetary alignments it was thought might cause unusual earth "stressings" resulting in increased earthquakes. Sounded good to me! Besides, it was as good a reason as any to learn more about the dynamics.

In previous tests it had been learned that use of other sources of frequency generating were OK as long as RC determined. (See GRAPH 1.) This shows a profound dip at about the same times two days apart using quite different sources. One was the function-generator and the other a hand wired circuit using a single IC and radically different values of R and C. While there's no exact point to point agreements, there seldom is, the trend is unmistakably the same.

Also previously found was that a single pattern element follows closely the more minute frequency variations but only when it doesn't encounter a margin. (See GRAPH 2.) Not previously determined were the surprising number of frequencies within the sampling window the patterns reflected. (See TABLE 1.) Nine examples of patterns and their center frequencies are given with this Table.

And, there are other more subtle ones captured as well. Ones which appear as "modulations" riding on the main elements. SCANS B through G show some of these with the calculated approximate wavelengths which are valid only if the influence is EM and light speed bounded. SCAN H shows a twisting braided-like double pattern. SCAN I shows an hour-and-a-half period of near steady coherency also with an over-riding modulation. SCAN J shows one made during the Equinox. There are others, more subtle yet, but those just shown should give an idea of the wealth of "information" within what's previously been considered as "random" variations.

1997 Test Result

Nearly continuous scans have been run beginning Jan. 21. Only a portion have been analyzed in detail since the process is quite time consuming. Several months' worth were selected for intense efforts. After trying many ways of presenting the data, a way was used which "drops out" the day-to-day "baseline" frequency shifts and focuses only on the daily frequency ranges from lowest to highest. GRAPH 3. and 4. (a continuation of 3.) the result. The left-scale and outer-curve is these daily ranges and the right-scale with inner-curve is the number of reported daily EQ's worldwide.

The EQ data is incomplete since not all was readily available to me. Both curves, for reasons of presentation, show half the variances above and half below the common zero baseline. The overall effect of the form suggests to me an insect so I've come to refer to this as the "EQ-Bug." This method of

presentation was done just to see what overall relationships there might be between accumulated daily "stessings" as shown by large or small ranges of frequencies, and experienced worldwide EQs.

Without regard to cause and affect and just considering covariances, there were three possibilities for frequency ranges and reported EQs. These were increases, decreases and the same. So, for any day, the odds against chance covariances were one-in-three. According to accepted probability theory, the odds for successive days were $(3)^N$; where N =the number of days. There are several periods of four to six days with clear co-variances which yield odds against chance of one-in-81 to one-in-729. Significant. But why just some days? If my intuition about earth core ringings is correct, these may be these days when there's a clear path between the core and the sensing location. There may be a "phasing" dynamic between incoming influences and those ringing out from the core specific to this location and particular times.

This phasing dynamic seems a good one to me. It could explain it all. And might go a long way toward explaining what elements are pre-conditions for earth stressings to result in EQs. It also fits in very neatly with Nick Fiorenza's "angular harmonics" in his paper. (6) And has a potential for developing methods of anticipating EQ stresses with data to give some advance warnings? A potential which won't be realized with only one location being monitored any more than the exact location of an actual EQ can be made with only one siesmograph.

I'm convinced the FRS technique is responsive to fundamental, profound, longitudinal gravity-wave (or very long wavelength EM) actions on a universe wide scale. Likely as mediated by earth's core. It's widely accepted that for any such claim to be considered it must show evidence of diurnal, daily, variances, which are predictable. GRAPH 5, shows hour by hour plots of recorded coherencies for a 12 day period from May 6-17, laid end to end. GRAPH 6, shows the same with a "smoothed curve" fitted which shows such diurnal variations as clear maxima and minima; therefore satisfying this condition. The source of this variation is likely to be, as with the UMBR (Universe Micro-wave Background Radiation) earth's very off center location in the universe where its daily rotation carries the sensing location "long ways", where there's much matter-energy influences, to "short ways", where there's much less.

This same diurnal variation is found using Hodowanec's capacitor sensors. It's reported that T.T. Brown saw this in the milli-volt outputs of rocks. Dan Davidson has seen this with his unique sensors. (14)

GRAPHS 7-12, show plots of daily hour-by-hour coherencies (the solid lines) with some notations of EQs. Note that the majority of these are during periods of coherencies HERE, not when they were occurring after earth's rotation away from here. GRAPH 10, shows a minor tremor in Alabama about 13 earth-rotation-minutes away. GRAPH 11, shows three which occurred in California about 228 earth-rotation-minutes away. All were at the times the coherencies were at this location. Is earth's core mediating this and are there some critical angular relationships? It will likely take other sensors, spaced apart, to determine.

GRAPH 13, a composite of May 15-31 plottings, shows further evidence for most EQs occurring during periods of coherencies here with notable exceptions for those during of rapid frequency changes. This 17 day period is when there were the greatest co-variances shown in the "EQ-Bug." GRAPH 14, shows the "EQ-Bug" reduced in size to show all data in a line with GRAPH 15, showing a fitted curve for the longer duration frequency variations (with baseline shifts included) for comparisons. Whatever the relationships are between these, if any, they are more subtle.

Summary, Conclusions and Speculations

One dynamic which is clear from what's been presented is that there is definite recursiveness. That is, wave (or frequency) within wave within wave—N. Where $N=?$ Likely the longest possible wave in our universe is the same length as its breadth and the shortest that which the most minute sub-particle dimensions can support. With gobs in between! Some of which manifest within the FRS scannings. The father of quantum-mechanics, Max Planck, derived a number of constants to define the nature and dynamics of the most basic "stuff." Gregory Hodowanec has built upon and expanded these, with some refinements, to define all actions from micro to macro. And has derived many of the other known constants, such as light-speed propagations, directly from these. And derived others. (12)

The FRS technique, despite the seeming wealth of information inherent, is quite primitive. It is interesting to observe that, since the recorder was around in 1946 and there were also techniques then for generating triangular waves, someone else may have discovered this first. I'm not aware of this but, if someone is, please clue me in. I've long been impressed with the possibilities that recently "discovered" technologies may have been around for eons in one form or another.

For example, the properties of naturally occurring rubies to amplify light have been known for thousands of years. As have been the ways to shape them to utilize this property. Add to this the light from the sun and some lenses, made from natural quartz crystals, and a wind powered light "chopper" for pulsing and you have a laser. Maybe the tales of beam-type weapons on Atlantis are true?

What's been presented here and what I'll gladly share that isn't, is enough, for anyone who would like, to start doing their own monitorings and analyses. Any ways they like. We can share and compare our results and learn from each other's experiences. For those who can and will, there are things which must be done to refine the technique and carry it forward to its greatest potentials for increasing understandings of some fundamental universe dynamics and using this knowledge to augment other researches where these dynamics might now be confounding efforts. Such as with free-energy devices which are "finicky" because of them. And with seismic prediction efforts where these may be the missing determinants.

I'm sure that computerizing is essential do to this. At all stages from collecting the data to coordinating that from different "sites" and then making sense of it all according to some "models." I'm convinced Nick Fiorenza's already developed model is the place to start. It needs to be refined into easy to use software. Nick is quite willing and able to do this but will need considerable support, from technical to financial, over some time since the complexities require it. This needs to be a dedicated effort, likely in the form of a supported project.

And there's the needed hardware/software interfaces. While I can build and refine to some degree some of the circuitry, what I know in any depth about digital techniques isn't worth mentioning. I have yet to utilize any computer with any of my work. The closest I've come is to use a vintage digital frequency counter's "period" function readout to hand-record the "data" for each cycle. As suggested earlier in this paper, the counter was set to trigger on the leading and trailing edges of the positive half-cycle of a square wave input. During the negative half-cycle, the display was "frozen" just long enough for me to record the values and then the counter quickly "reset" itself in readiness for the next cycle.

I did a number of these recording sessions the longest being for over 11 hours straight! I won't do that again! The data was later hand-plotted. GRAPHS 1. and 2. show some of the results. There are many others. Enough for me to know with certainty this is a good approach. Some current generation counters have period functions and computer formatted outputs. I don't have one or the resources to pick one up. Even if I did, I don't have a computer to store and crunch these data. It shouldn't take much to do this for those who are computer/digital technique proficient. I've been told an old "8088" with disk storage could, because of the slow sampling rate, do the job and store up to several month's worth on a single disk. Maybe another "fast" computer could pull some of this off and, with the right software, crunch the data whilst its owner were asleep? The SETI (Search for Extra-terrestrial Intelligence) folks are offering to download some of their data to PCs which will do just this! They're hoping to get 100,000 takers! What could we do if we set our minds to do it?

Maybe the development, as with Fiorenza's model, would best be done in "supported project" ways. For those with the resources to bring this about but who need financial incentives, there is some potential for profits. From modest to who knows? Likely not enough for those "venture" (vulture?) capitalists who insist on the potential of ten-to-one or greater margins of profit for the "privilege" of their involvements. For these such folks not yet discouraged, rest assured I WILL NOT spend ANY of my time at fifty-cents an hour or on the "promise" of later great rewards helping you enhance your wealth! None of those I know are fools enough to do this either! So, look elsewhere for fresh blood!

The commercial potential I see is to develop "kits" of hardware-software, in some quantities, for sale. For sure quite speculative. And a ways off. But, who knows? Maybe there are lots of PC users bored with computer games just looking for a challenge such as this? And an opportunity to be important players in leading-edge research? Could be quite exciting! Maybe we can watch what results the SETI folks get with their efforts to sense what the potential might be. One thing IS certain. someone else will have to do the commercializing besides me. Anything I try to do in this way turns to (smelly stuff). I don't need to prove it again! Besides, for me the prospects of wealth, powers prestige, influence, etc. don't turn my crank at all. What does is discovery. And being able to share it without the complications of being mercenary about it. I don't mean to imply by any of this that there are not those with the unique talents to do both. Just that I'm not one of them! Whoever these folks are, let's connect and get on with it!

A closing thought. What might be found if the resources of the SETI folks; their super-computers and analyzing techniques; were applied to the FRS and other "fundamental force" sensing methods? There is a great deal of evidence, much of it from Hodowanec's work, that such methods sense essentially instantaneous UNIVERSE-WIDE actions and not just the rather mundane EM light-speed-delayed stuff the SETI folks are looking at. It's hard to imagine that whatever other "races" there may be, those with advanced technologies who are hopping all over the universe already must wait light-times to communicate with one another. Absurd is a good word. If anyone reading this has any inside connections and influence with the SETI project folks, let's ALL connect and get on with this too!

Afterward

Some might wonder if I have FRS records for past times of interest to them. The answer is maybe. Except for some gaps from technical problems, I've got records for all of 1994 and most of 1997 so far (as of 8/18/97). There are many months of scattered records for other periods since 1992. Most of these are not labeled, cut or pasted. Many were run at other rates than .05 Hertz and can not have the frequencies determined. Contact me. If I have the dates you want, I'll send you the copies for \$1.50 per date. I'd much rather not, but if you want the frequencies determined and graphed for some of these, I'll do it for an additional \$10 per date (for post 1993 ones only). But, not much of this since it's tedious and boring.

The FRS technique seems most responsive to influences which can, and likely do, create "stressings" of some sorts. Some of these likely effect the planet and are the causes and "triggering" forces of some EQs. Perhaps volcano's as well. In some very refined forms and with many strategically located stations, accurate predictions may become a reality. In early 1997 I was able to "predict" some strong EQs from the forming patterns. Especially those worldwide within a band of about ten degrees North latitude from here. Exact locations weren't possible, or times either. Times were narrowed to within about five days. Prediction success was a bit better than half the time. Not precise but, with only one station, maybe not too bad? A caveat - my feelings, intuitions, about the patterns were a key determinant as well.

Whatever stressings the earth experiences, it seems likely it's inhabitants do as well. For some approaching EQs some people and animals get a bit wierd. Sometimes I do and must look to intuition to see why. Early in 1997 I noticed that in the U.S., and to some degree worldwide, stock markets seemed to react to such "people stressings". But only when there were some inherent volatilities. I was able to "predict" market down-turns within a few days with about the same success rate as with the EQs. Especially "strong" during the March-April "adjustments", and hence much better than chance. Intuition was a key player here as well. Nick Fiorenza tells me any astrologer, worthy of the title, can do as well or better without the FRS scans. Maybe why some big-time firms hire them?

I mention the POSSIBLE market correlation's only to be thorough. I CANNOT and WILL NOT become heavily involved in this aspect for VERY GOOD personal reasons. Don't ask please. Others I know may and some already have. They are the ONLY connections with this I want. For any who might want to pursue this, get in touch and I'll "screen" you for POSSIBLE connections to them. No promises! A letter telling about yourself, your background, your abilities and resources will be best so I can forward a copy to others.

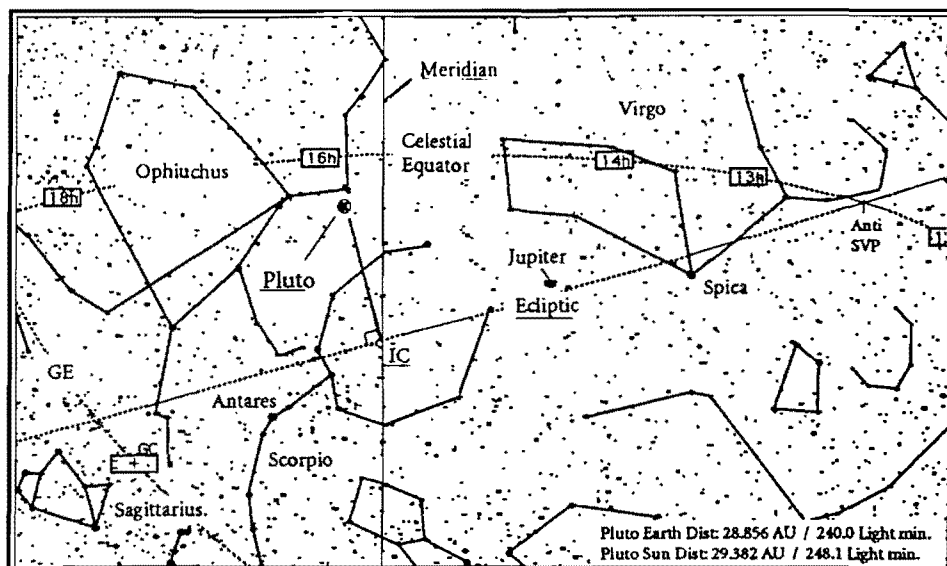
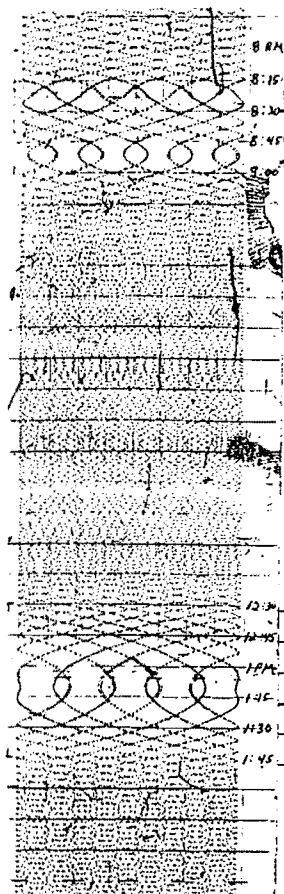
For 1997 IFNS attendees: I've been working on the circuitry for a single IC chip function generator being put in a case attached to the back of a Rustrack which will have a square-wave output as well for computer interfacing. I won't be attending, but if it's finished and checked out in time, will try to send it along with someone who is so it can be set up and left running during the forum. It is really quite captivating to watch. Especially when coherent patterns are forming! With luck, someone there will take it upon themselves to label, cut and paste some of these so any who are interested can take copies home. Maybe someone will also interface to a Lap-top PC, so there will be other records as well. Whatever happens, please someone see I get copies. OK? God bless you all and I'll be there with you in spirit.

Bill Ramsay, independent researcher, ~~133 Asa Hall Rd., Iva, S. C. 29655 (864-296-3200)~~

*Bill Ramsay, Discoveries
(970) 464-4958
131 N. Bower Ave. #33
Pakisade, CO 81526*

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-11° 33' (Approaching IC Alignment)
 -07° 48'
 -03° 66'
 -00° 26' (Exact IC Alignment - 01:16:45 PM)
 +03° 12' (Separating from IC Alignment)
 +06° 48'

Measurement and Charts:
 Location: Denver Col.
 Local Time:
 01:17 PM MDT (19:17 GMT)
 May 12, 1994

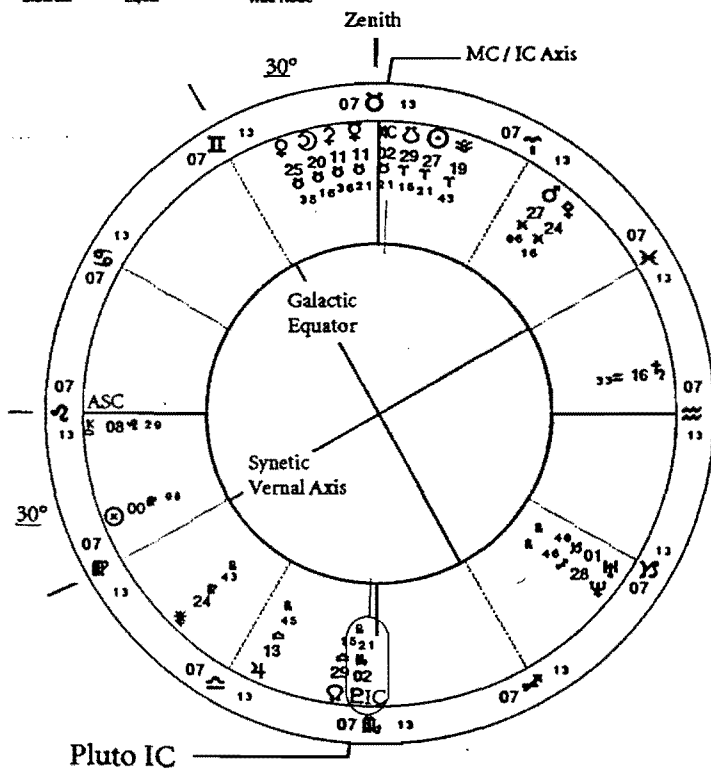
Planetary-Gravitational Wave Correspondence Pluto - IC (Anti-Mid Heaven) May 12, 1994 - Denver Colorado

May 12 1994
 Denver
 39N44
 May 12 1994
 Sidereal Equal True Node

01:16:45 PM MDT
 Colorado
 104W59
 19:16:45 GMT

Gravity Wave Correspondences Pluto IC

Denver Colorado May 12, 1994

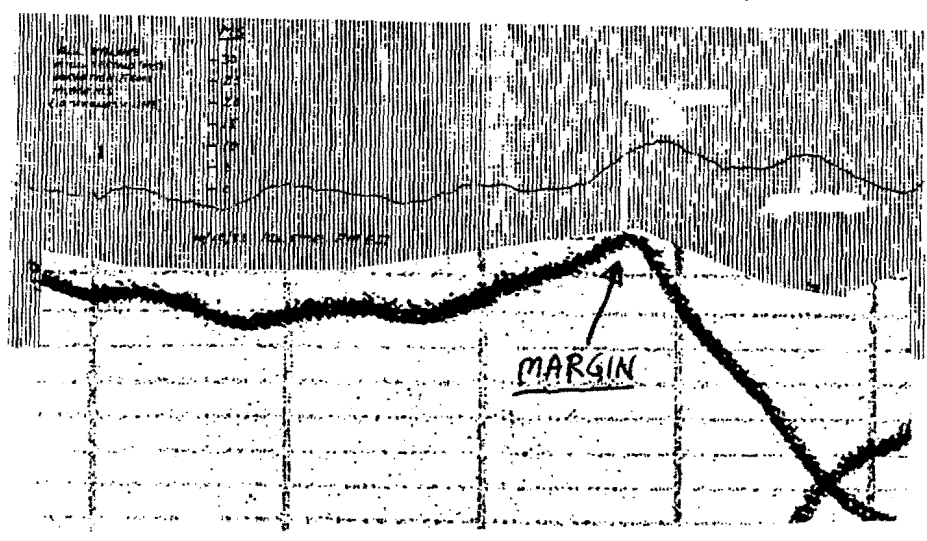
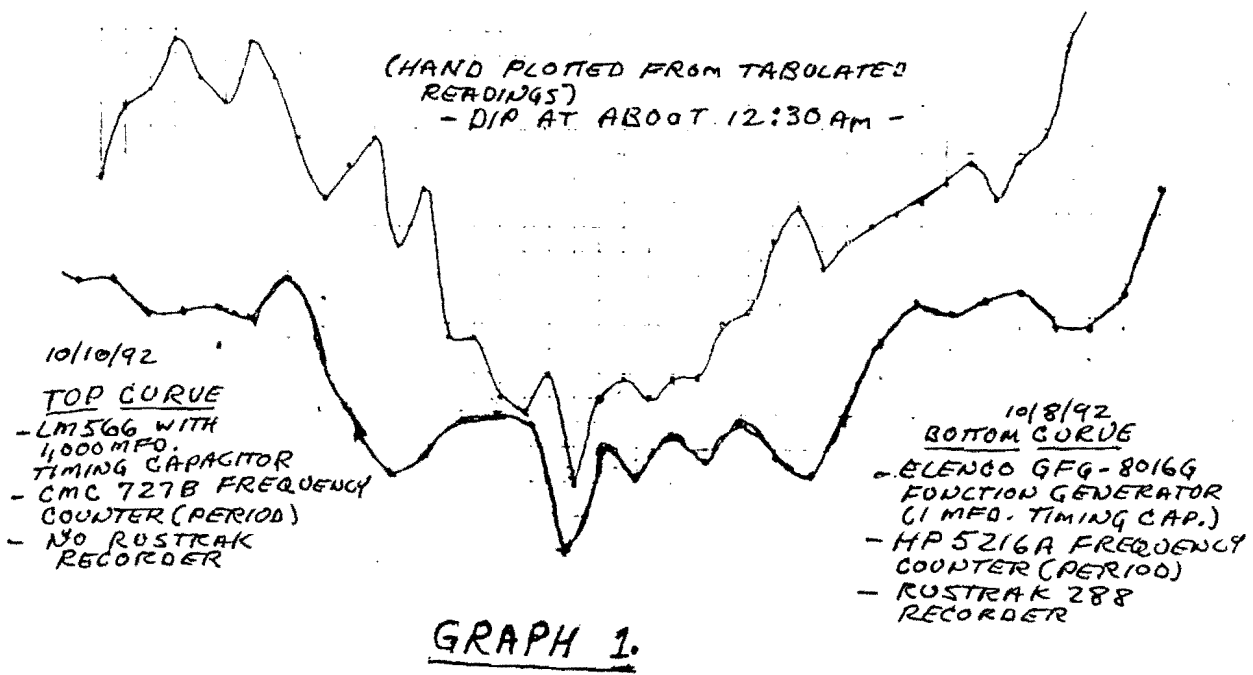


1) Galactic / Synetic Nodes
 Harmonic Alignment:
 30° to the angles
 (Exact 30° at 1:08 PM)
 (±1° from 1:03 PM -1:13 PM)

2) Primary Planetary alignment:
 Pluto IC at 1:16:45 PM MDT

Note: Pluto happens to be in alignment with the Moon's Nodes which in this case are part of this alignment.

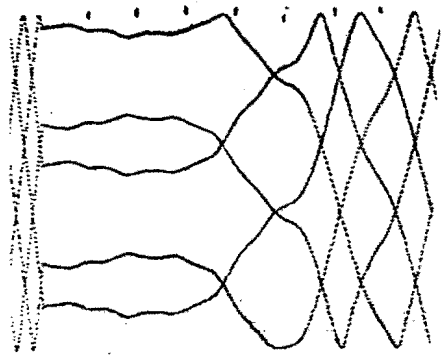
CHART I.



GRAPH OF FREQ
VARIATIONS (1/5
TIME PERIOD 1/5
MILLISECONDS) TO
SHOW FORM
AGREEMENT
WITH RUSTRAK
RECORD

FUNCTION GENERATOR 5 MHz (10.000ms)
↓
1002316
COUNTER

RUSTRAK
60 10/10/92



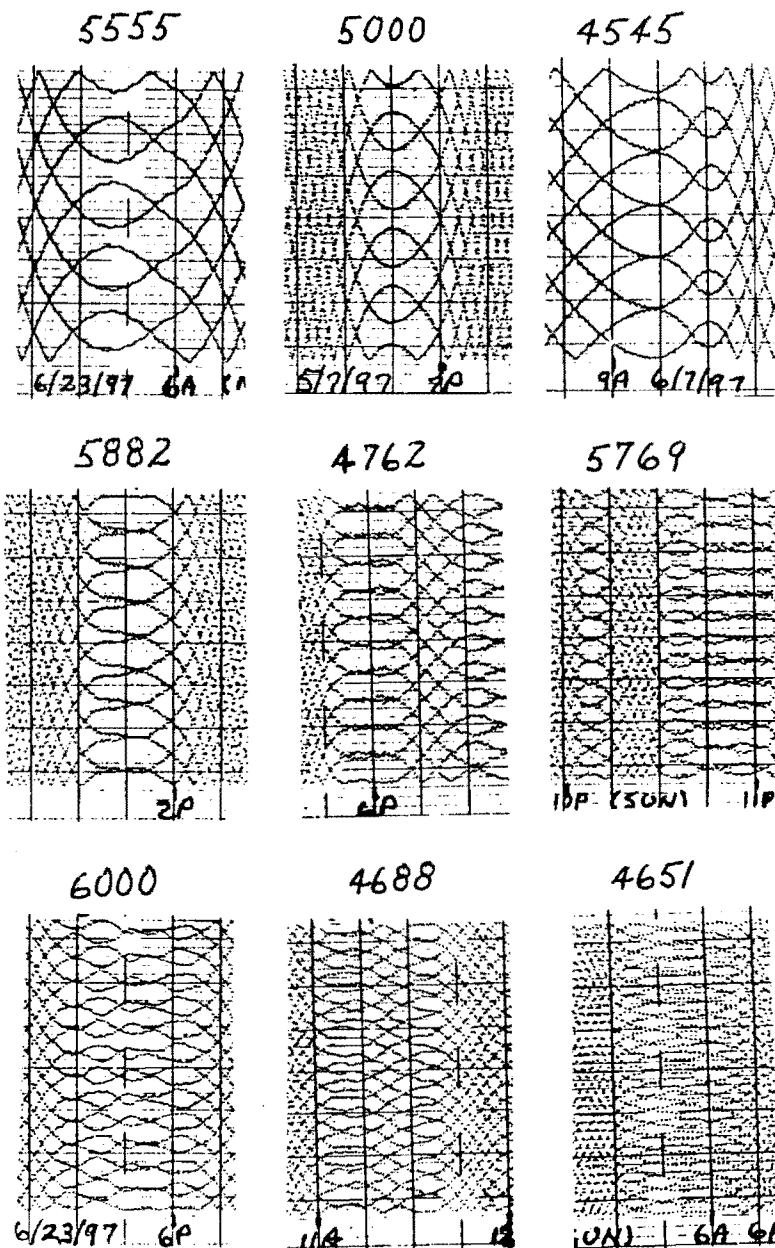
GRAPH 2.

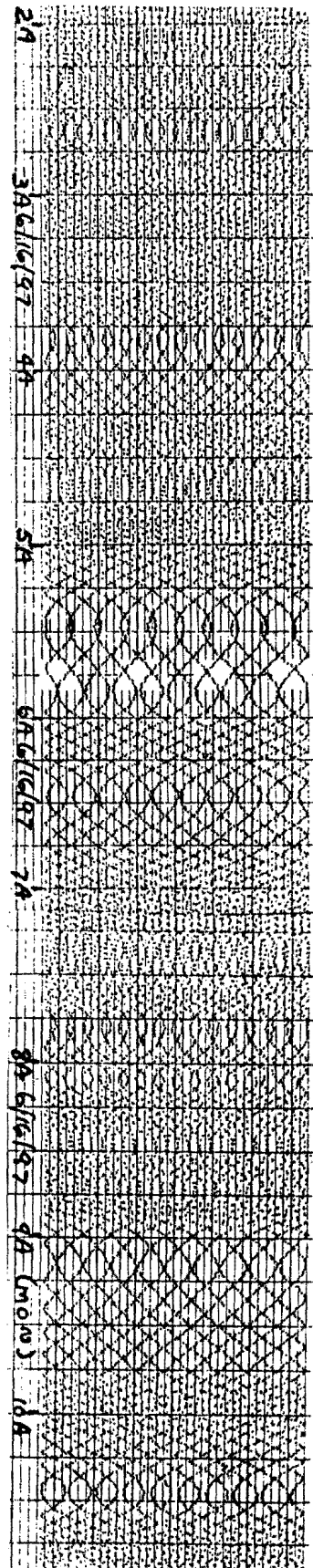
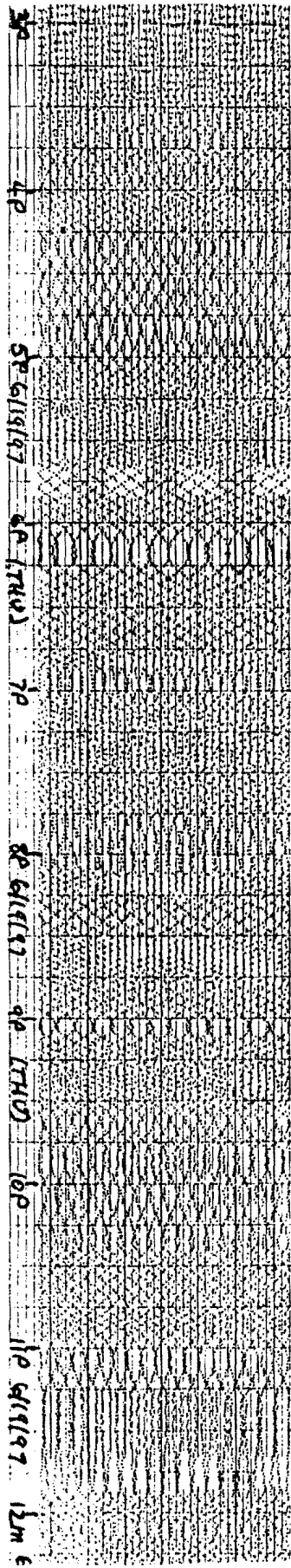
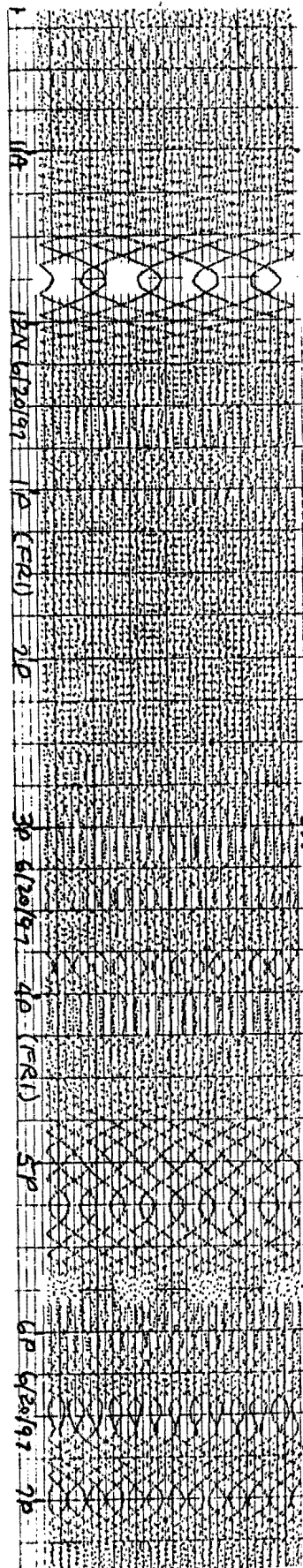
SO FAR DETERMINED FREQUENCIES WITHIN TWO-SECOND RUSTRAK RECORDER
SAMPLING WINDOW. CENTER F(HZ) = # PASSES/ # LINES x 0.5.

LINES	PASSES	Fx10-5	(Fx10-4)	Fx10-5	(Fx10-4)	LINES	PASSES
8	1	6250	(625)	3846	(385)	13	1
9	1	5555	(556)	4000	(400)	25	2
10	1	5000	(500)	4054	(405)	37	3
11	1	4545	(455)	4166	(417)	12	1
12	1	4166	(417)	4255	(426)	47	4
13	1	3846	(385)	4286	(429)	35	3
15	2	6666	(667)	4348	(434)	23	2
17	2	5882	(588)	4412	(441)	34	3
19	2	5236	(524)	4444	(444)	45	4
21	2	4762	(476)	4478	(448)	67	6
23	2	4348	(435)	4545	(454)	11	1
* 25	2	4000	(400)	4615	(462)	65	6
* 25	3	6000	(600)	4651	(465)	43	4
26	3	5769	(577)	4688	(469)	32	3
28	3	5357	(536)	4717	(472)	53	5
29	3	5172	(517)	4762	(476)	21	2
31	3	4840	(484)	4808	(481)	52	5
32	3	4688	(469)	4840	(484)	31	3
33	3	6061	(606)	4878	(488)	41	4
34	3	4412	(441)	4902	(490)	51	5
* 35	3	4286	(429)	5000	(500)	10	1
* 35	4	5741	(574)	5102	(510)	49	5
* 37	3	4054	(405)	5128	(513)	39	3
* 37	4	5405	(541)	5172	(517)	29	3
39	4	5128	(513)	5208	(521)	48	5
* 41	4	4878	(488)	5236	(524)	19	2
* 41	5	6098	(610)	5319	(532)	47	5
42	5	5953	(595)	5357	(536)	28	3
* 43	4	4651	(465)	5405	(541)	37	4
* 43	5	5814	(581)	5435	(544)	46	5
44	5	5682	(568)	5454	(545)	55	6
45	4	4444	(444)	5555	(556)	9	1
46	5	5435	(544)	5660	(566)	53	6
* 47	4	4255	(426)	5682	(568)	44	5
* 47	5	5319	(532)	5741	(574)	35	4
48	5	5208	(521)	5769	(577)	26	3
49	5	5102	(510)	5814	(581)	43	5
51	5	4902	(490)	5882	(588)	17	2
52	5	4808	(481)	5953	(595)	42	5
* 53	5	4717	(472)	6000	(600)	25	3
* 53	6	5660	(566)	6061	(606)	33	4
55	6	5454	(545)	6098	(610)	41	5
65	6	4615	(462)	6250	(625)	8	1
67	6	4478	(448)	6666	(667)	15	2

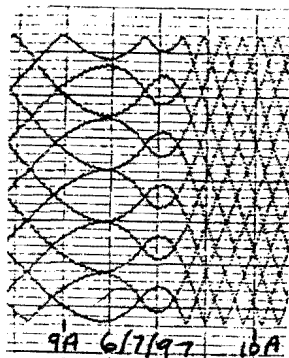
*SELECT F CLOSEST TO EVOLVING TREND.
(XXX) ROUNDED FOR EASE IN PLOTTING.

TABLE I.



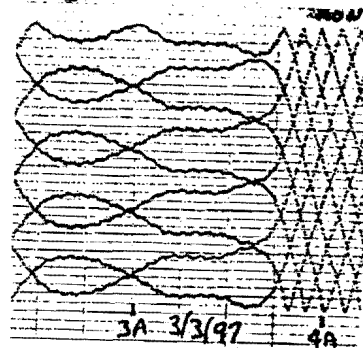


SCAN A



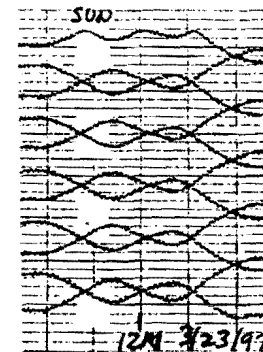
SCAN B

$\lambda \approx 2.13 \cdot 10^7$
MILES



SCAN C

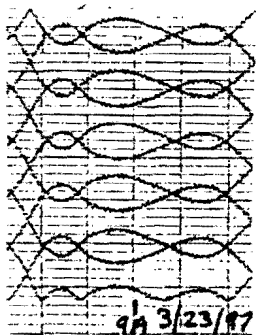
$\lambda \approx 4.52 \cdot 10^7$
MILES



SCAN D

$\lambda \approx 2 \cdot 10^8$
MILES

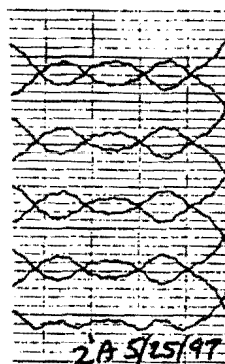
$\lambda \approx 4 \cdot 10^8$
MILES



SCAN E

$\lambda \approx 7.7 \cdot 10^8$
MILES

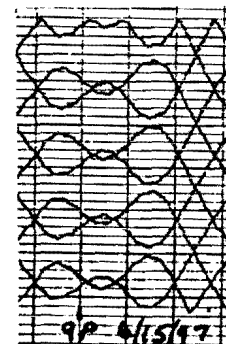
$\lambda \approx 3.35 \cdot 10^8$
MILES



SCAN F

$\lambda \approx 3.35 \cdot 10^8$
MILES

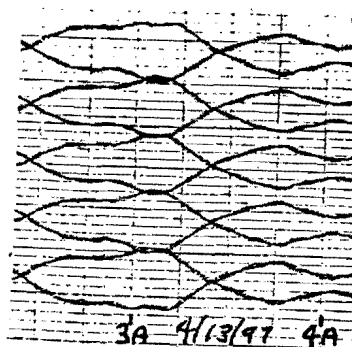
$\lambda \approx 1.67 \cdot 10^8$
MILES



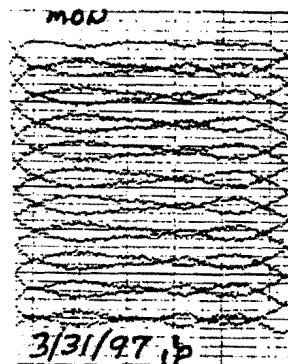
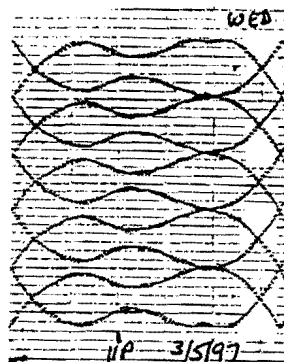
SCAN G

$\lambda \approx 1.67 \cdot 10^8$
MILES

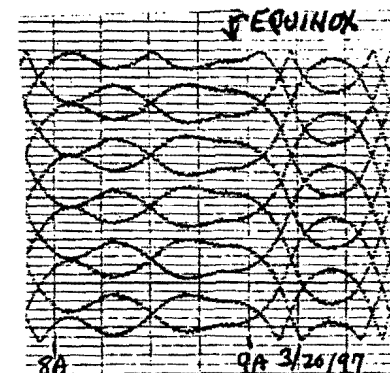
$\lambda \approx 3.35 \cdot 10^8$
MILES



SCAN H



SCAN I



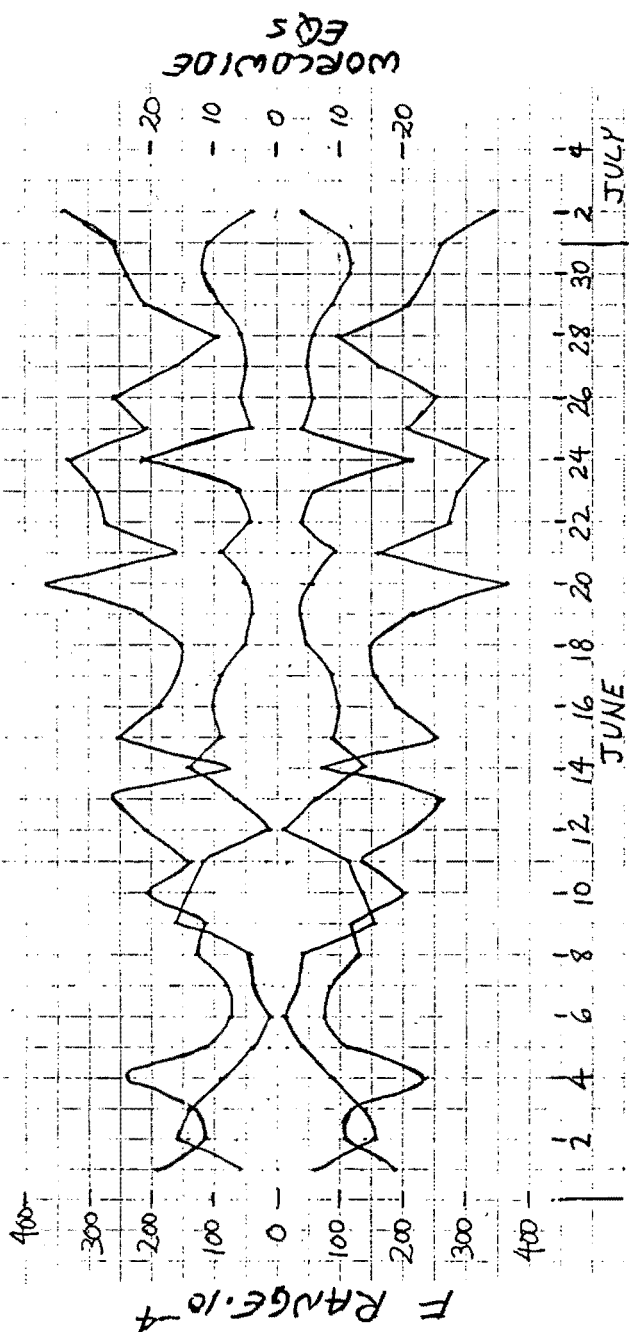
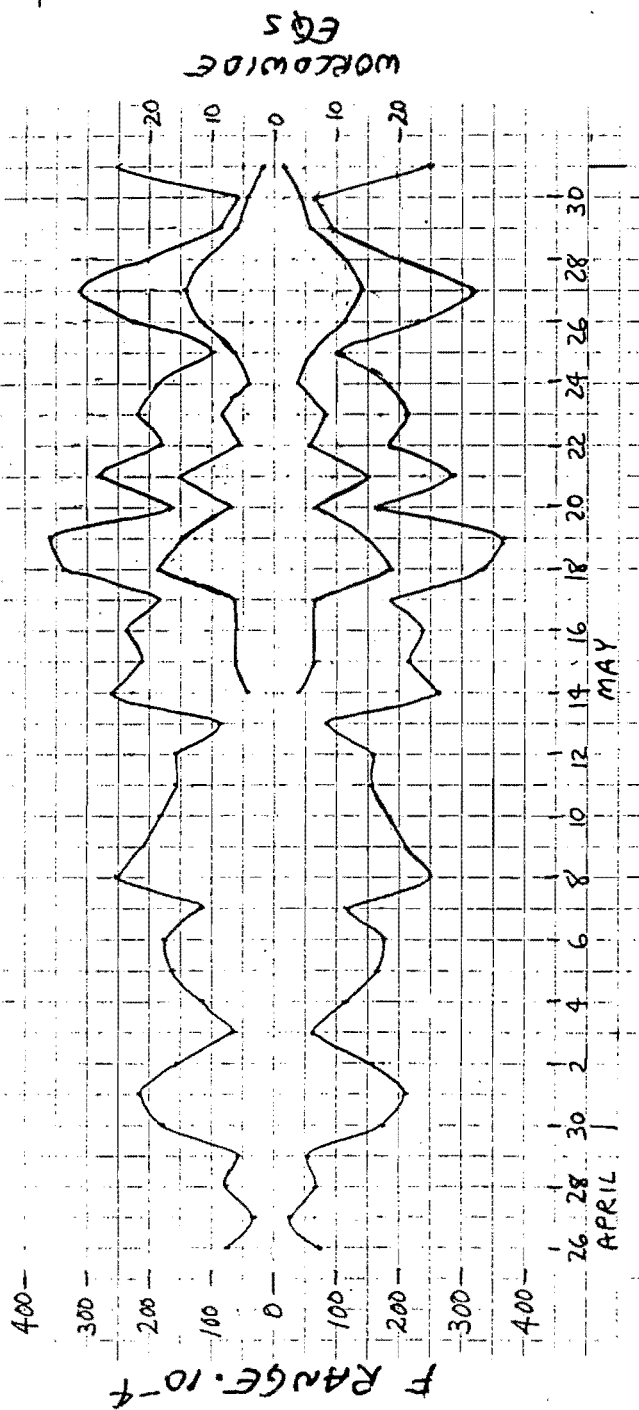
SCAN J

75

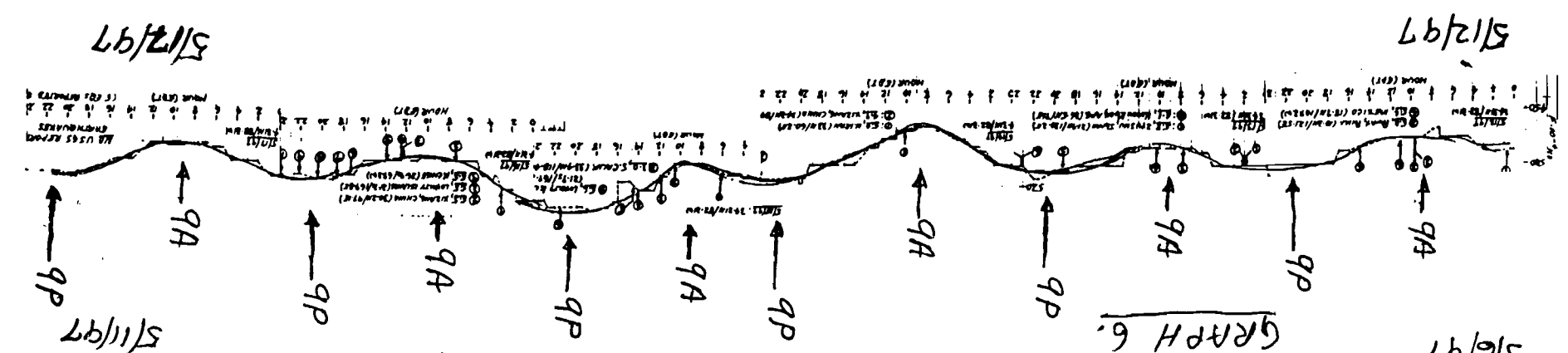
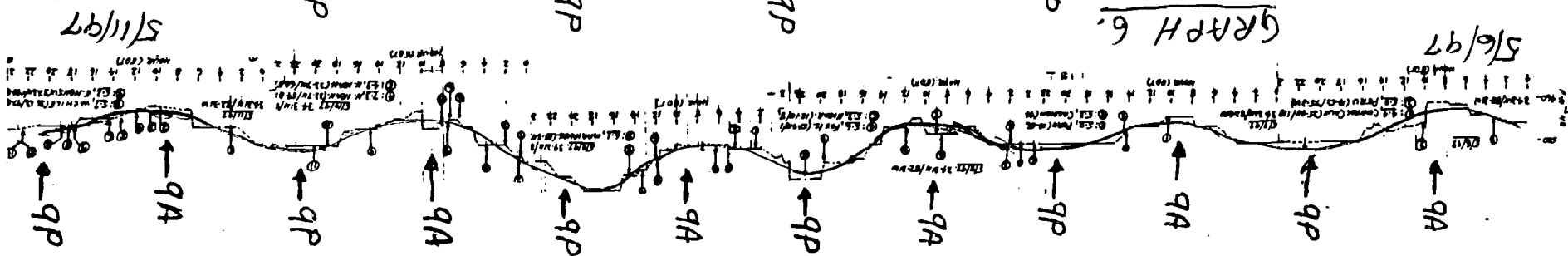
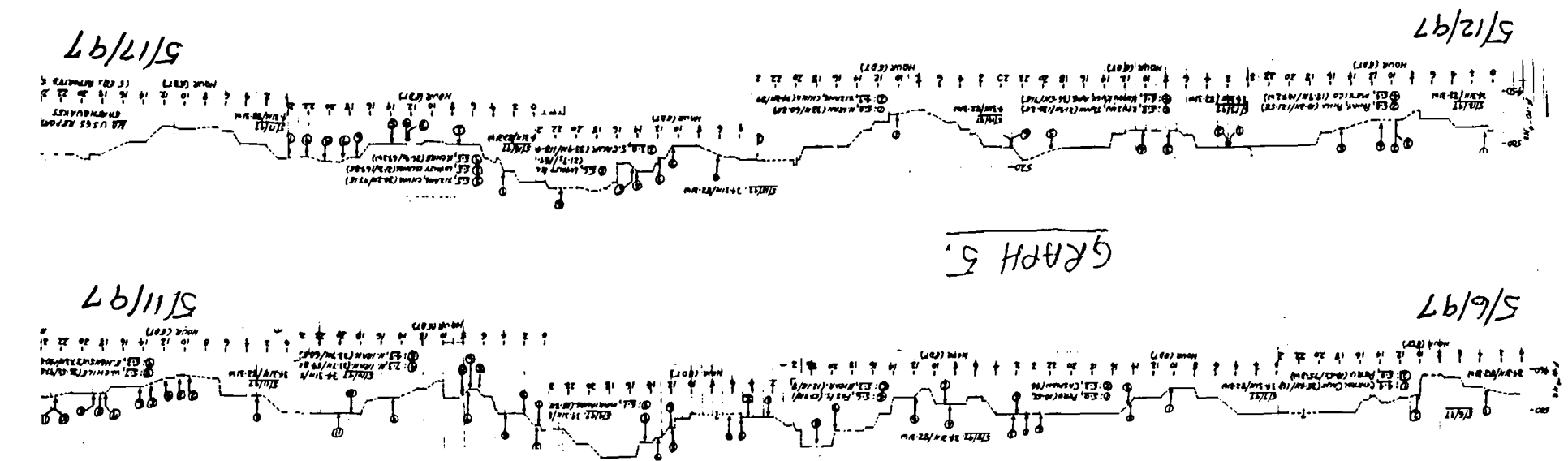
AS

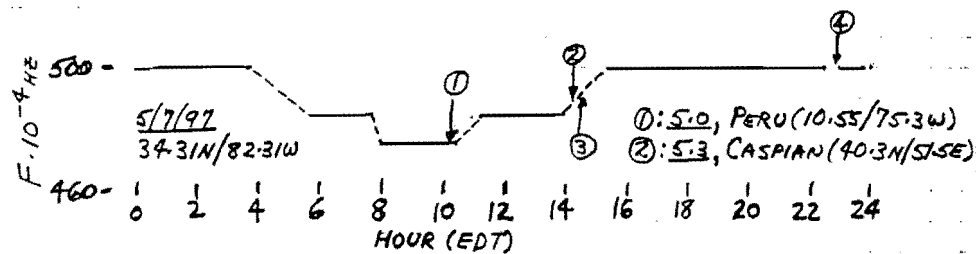
THE "EQ-BUG"

GRAPH 3.

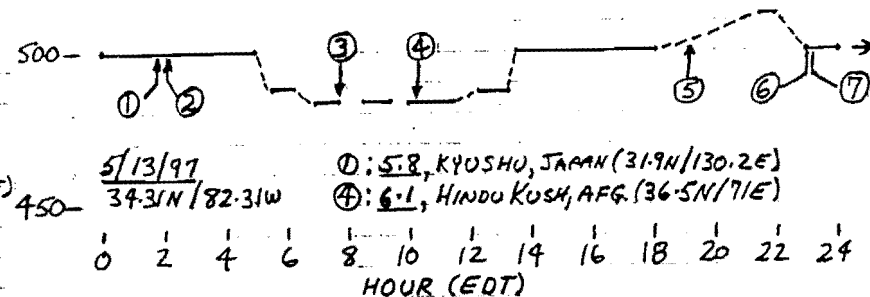


GRAPH 4.

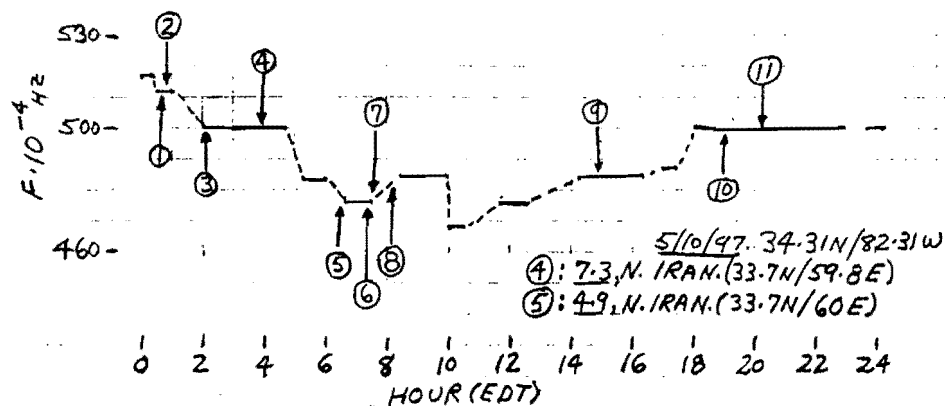




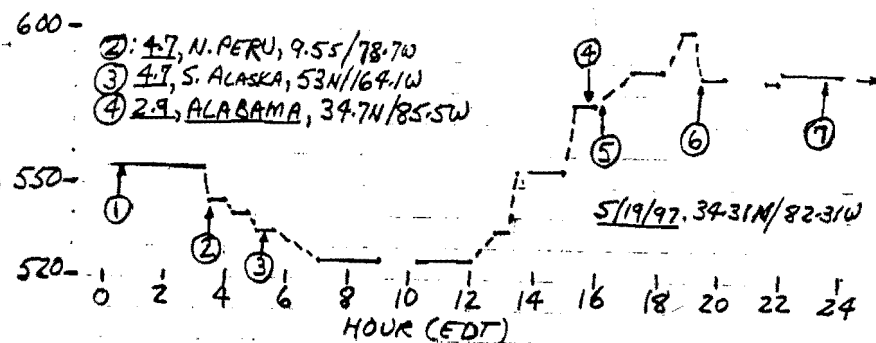
GRAPH 7.



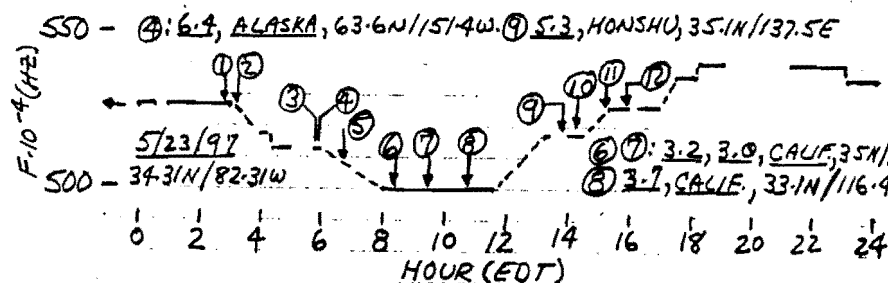
GRAPH 8.



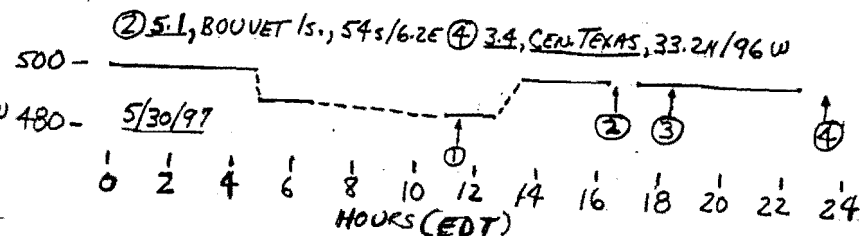
GRAPH 9.



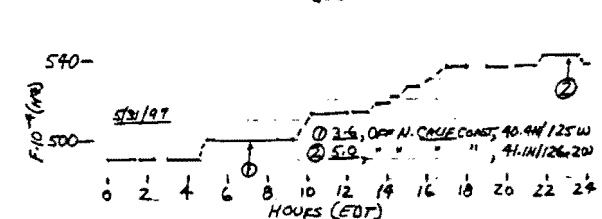
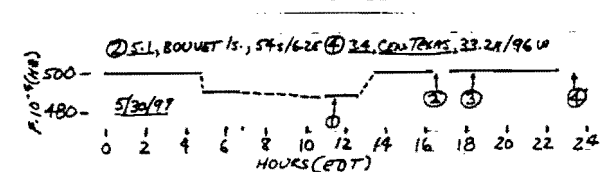
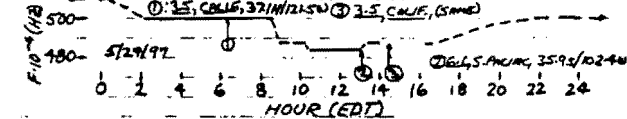
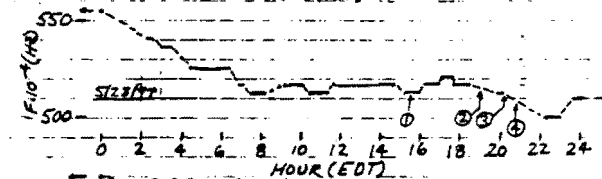
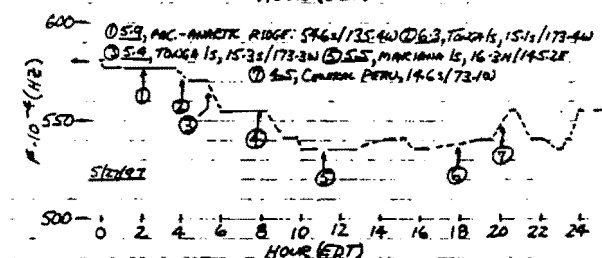
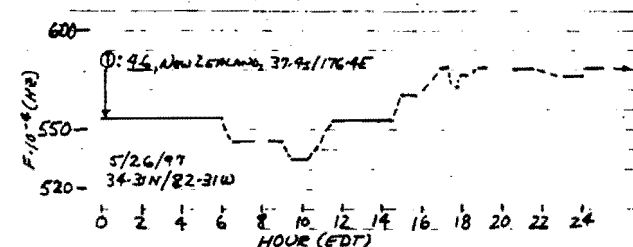
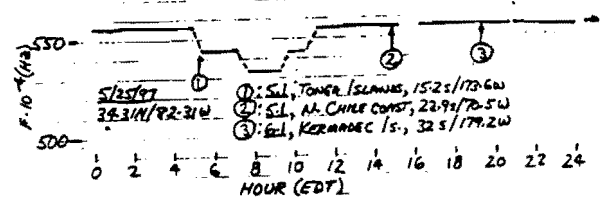
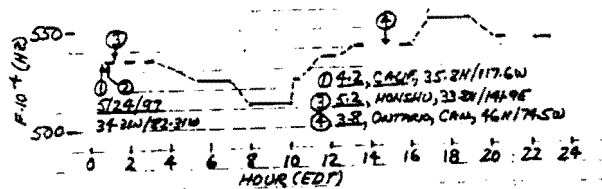
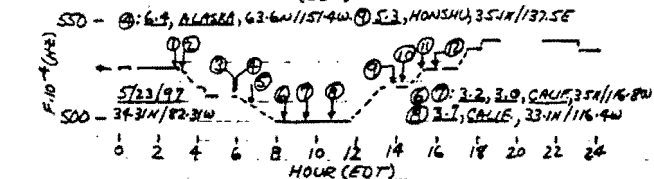
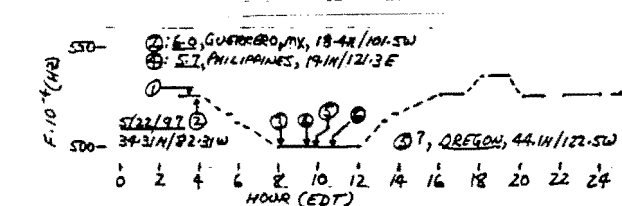
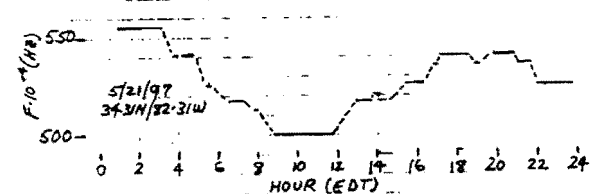
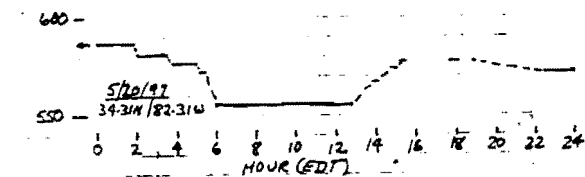
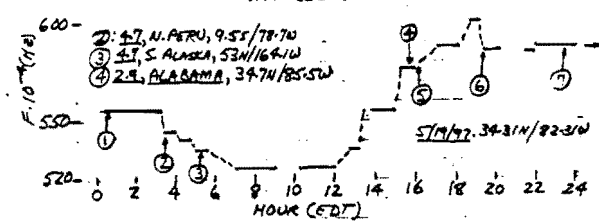
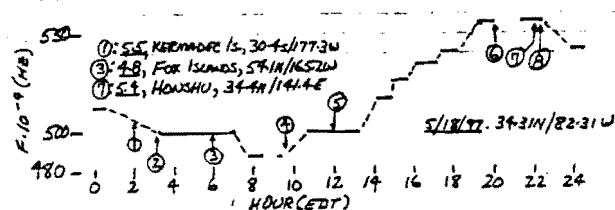
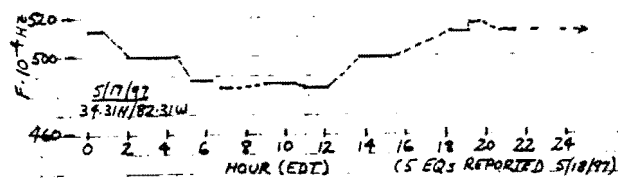
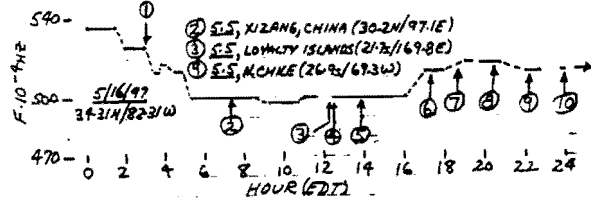
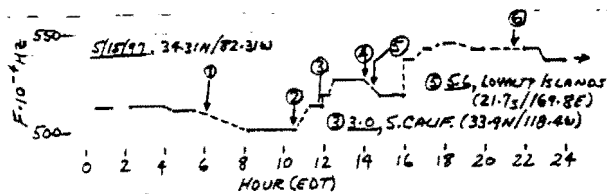
GRAPH 10.



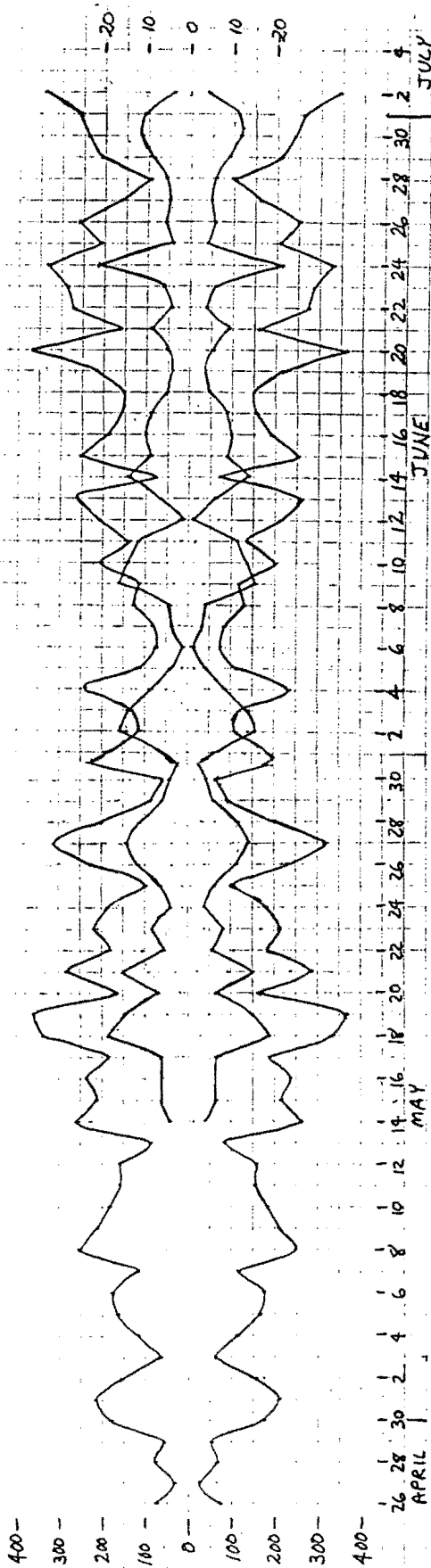
GRAPH 11.



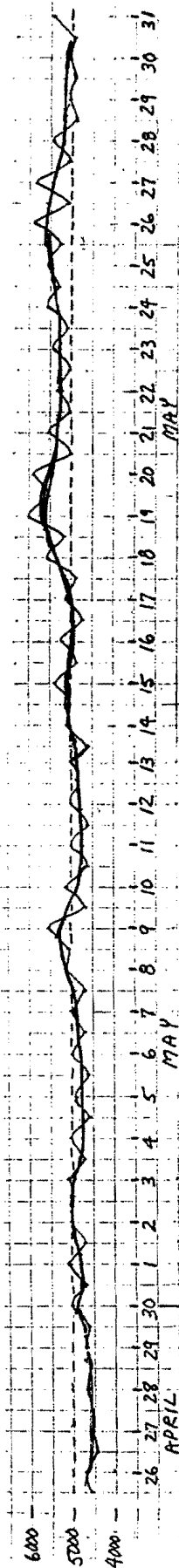
GRAPH 12.



GRAPH 13.



GRAPH 14.



GRAPH 15.