

Dowsing Geometry and the Structure of the Universe

by
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The Problem

For over eighty years quantum mechanics has defied comprehension. Even Einstein referred to it as “spooky”, leading some authorities to suggest more recently that the solution lies not in physics, but in consciousness and cognitive neuroscience (*e.g. references 41, 42, 43, 44, 50, 51*), together with understanding the nature and perception of information (*e.g. references 16, 21, 33*). As no comprehensive answers have been forthcoming to these problems, or in unifying quantum physics with general relativity, the author believes it is necessary to think “outside the box” and examine non-mainstream topics for inspiration.

Who should read this paper?

This paper is aimed at researchers in quantum physics, general relativity, cosmology, and others interested in the structure of the universe, who not only have the same philosophy as the author in the possible relevance of consciousness and information, but are able to visualise and demonstrate mathematically, multi-dimensional geometric transformations.

Why Geometry

From ancient times there is much scientific literature linking geometry to the structure of the universe. For example, the ancient Greeks knew about polyhedra and their angles, and the same common angles have been found in many diverse branches of science such as molecular biology, astronomy, magnetism, chemistry, and fluid dynamics. These commonalities cannot be coincidental. It would suggest that they reflect the structure of the universe.

The Philosophy of the Information Field

The Information Field may currently be the best working model that helps to explain numerous observations and phenomena. The handling of information is a key. It is postulated that the Information Field comprises inter alia structured information, with long-term stability, self organised holographically (*e.g. references 21, 38, 48*). This model possibly involves standing waves and nodes as the mechanism for conveying information including such concepts as gravity.

Traditional quantum physics, on the other hand, considers the Zero Point Field as comprising randomly generated virtual elementary particles being spontaneously created and annihilated – too fast for us to detect them. The “vacuum energy” or negative pressure associated with this process could be the explanation for dark energy and the gravitational repulsion. Based on the current “orthodox” understanding of physics, the main problem with this theoretical approach is that it gives results that are 120 orders of magnitude too great compared to the observed cosmic acceleration! (*e.g. reference 12*). Yet another reason for some lateral thinking. This hyperlink gives further details on the [Concepts associated with the Information Field](#).

Contents and Hyperlinks/Bookmarks

The Problem.....	1
Who should read this paper?.....	1
Why Geometry	1
The Philosophy of the Information Field	1
Why Dowsing	3
The Objective.....	3
Protocol and Methodology	3
Confidence in the Technique	3
Purpose of this Database and Expected Outcome.....	4
Non Dowzers.....	4
Summary of Findings	5
Definitions	5
Contents of Database and Bookmarks.....	6
0 - Dimension.....	7
1 Dot	7
1 – Dimension	8
A Row of Dots in a Straight Line.....	8
A Straight Line	11
2 – Dimensions.....	11
3 Dots in a Triangle	11
4 Dots in a Square.....	11
A Triangle	13
A Square.....	13
1 Circle.....	14
2 Circles	14
Vesica Pisces	16
3 Circles	18
Half Sine Wave	19
Two Parallel Lines.....	20
Angled Cross.....	24
Vertical Cross.....	24
Alpha Symbol.....	25
Bob's Geometry	26
3 – Dimensions.....	28
Banks and Ditches	28
A Sphere.....	28
A Cube	29
A Pyramid	30
Generalisations, Conclusions, and Basic Theory.....	31
Common Factors	31
Magnetism.....	32
Waves and Phase.....	33
Interactions, Resonance and Waves	33
Wave Velocities & Frequencies.....	36
The Way Forward	37
Acknowledgements	39
References and Bibliography	40
Further Reading.....	41

Why Dowsing

Not only does dowsing strongly combine consciousness and information, but it has been known for many years that in dowsing, geometry is fundamental. As a result of using dowsing as a scientific tool, numerous published papers have found the same polyhedra and other universal angles, (*such as references 10, 11, 13, 14*). Experimental results, using sound scientific techniques for measurements and their protocols, are starting to provide a significant input to the fundamental understanding of how dowsing works, and provide confidence in using this technique to explore the structure of the universe. (*see references 6, 7, 8, 17, 18*).

Dowsing therefore seems an ideal technique to adopt in our quest to explore the structure of the universe, as it is unique in combining some of the key components – consciousness, information, and geometry.

The Objective

The ambitious objective of this paper is to investigate the structure of the Information Field, (and by implication the Universe), by dowsing pure geometry. This is unique and different from the usual applications associated with dowsing. Over the last few years, this technique has proved to be a very effective research tool. Ascertaining the mathematics of transformations between physical source geometry and the neural (sub) conscious patterns perceived when dowsing, could lead to clues as to how nature's information is stored and accessed: In other words "the structure of the universe".

Protocol and Methodology

The technique adopted is dowsing simple 0, 1, 2, and 3-dimensional geometric shapes (e.g. dots, lines, circles, cubes, etc.) and measuring in 3-dimensions the different dowsable patterns detected. Dowsing this pure geometry eliminates any effects of mass, matter, earth energies, and other local physical distractions or perturbations. We are therefore only researching individual consciousness, astronomical factors, and the Information Field.

This [hyperlink](#) gives further general information on the protocol and methodology adopted, including details of a specialised [yardstick](#) that has proved effective in dowsing measurements.

Confidence in the Technique

Initial experimental results are very promising suggesting that a plethora of factors are involved in producing certain types of dowsable lines and patterns. These include:-

1. photons, magnetism and gravity
2. the earth's spin and several astronomical factors strongly influence dowsable fields;
3. the act of observing two objects causes them to interact; and
4. dowsing a "n-dimensional" geometrical source produces, in some cases, the same dowsable pattern as a "n+1 dimensional" geometric source.

In other words, there are strong elements of comprehensiveness and universality in this adopted technique.

Developing an analogy to X-ray crystallography and diffraction gratings may also prove useful in the quest to probe the structure of the Information Field. In this case electro-magnetic fields are not being used, but consciousness. Confidence in this approach is justified for several reasons. Some of the patterns observed when dowsing, such as [Figure 29](#), seem similar to those produced by diffraction gratings or x-ray crystallography. But in particular, as a result of numerous experimental observations, resonance, interference, null points, and 2:1 ratios have been observed. These examples suggest waves are involved in dowsing, and hence possible diffraction patterns.

Purpose of this Database and Expected Outcome

In the following data base of different geometries, researchers are invited to find if mathematical transformations exist that would explain relationships between the mind generated geometric patterns observed by dowsing, and the physical source geometry that creates those patterns. This should help demonstrate how dowsing, the universe, and consciousness are connected, and the mechanisms involved. An analogy is to Crick and Watson discovering the structure of DNA by using Rosalind Franklin's diffraction images.

This approach could also have the benefit of adding support, or otherwise, to the theory of the Information Field, including an understanding of how macro geometry is mirrored in it, and support or disprove the theory that the Information Field, and our universe, is a 5-dimensional hologram.

Non Dowzers

For newcomers to dowsing [A Brief Explanation for the non Dowser](#) can be found here.

Summary of Findings

In an attempt to assist in deciphering the following database of patterns, Table 1 summarises some interesting findings and ratios.

Source	Comments on Dowsed Patterns
1 dot	Quantitative daily, lunar month, and annual variations in measurements. Examples of the power of “Intent” and “Nodes”.
A straight line	Identical observations to a dot; 1-dimension source gives the same pattern as 0-dimensions.
A triangle	Scaling of source geometry; 2:1 ratios.
A square	Scaling of source geometry; 2:1 ratios.
1 circle	2:1 ratio; vortex creation; beam divergence angle = $\arctan 1/131$.
2 circles	Resonance; optimum separation; 2:1 ratio of maximum and minimum beam length; bifurcation of the beam vortex and 2:1 bifurcation factor; possible 5-dimensions.
3 circles	Simulation of new and full moon; beam divergence angle = $\arctan 0.000137$
Half sine wave	Observation possibly produces a null waveform caused by the mirror image of the source geometry? interaction between the observer and the source geometry? Possible 5-dimensions.
2 parallel lines	Resonance; optimum separation; 2:1 ratio; magnetic effect; wave length/velocity; wavelength = distance between observer node and intent node; interaction between observer and geometry is different to the interaction between the 2 lines.
Vertical cross	Gravity involvement; connection between sight and dowsing; beam divergence angle = $\arctan 1/131$.
Banks and Ditches	Same pattern as a full sine wave or 2 parallel lines; 3-dimension source geometry same as 2-dimension geometry.

Table 1

This paper is only a summary. The full scientific paper containing all the figures, graphs, tables, protocols, technical details, and mathematical support can be found on the author’s website www.jeffreykeen.org

Definitions

Before progressing further, it is necessary to define axes. This enables a more precise mathematical representation of the 3-dimensional patterns being dowsed, and enables meaningful communication between researchers. If we define that

- Both the x-axis, and the y-axis are in the horizontal plane
- The z-axis is vertical i.e.
the x-y plane is horizontal
the x-z plane is vertical
- For 0, 1, and 2-dimensions the source geometry is drawn on a sheet of paper in the x-z plane where $y=0$. However, for practical experimental reasons, there are a few instances where the source geometry has been placed on the ground, i.e. on the x-y plane.
- The centre of the source geometry is at the origin of the axes.

In general, different people perceive similar patterns, although their dimensions may vary. (See reference 17). This hyperlink gives further information on [variations when measuring dowsable fields](#). We know from preliminary work that this is not relevant to our objective to create a data base of patterns, as key angles remain constant, and the perceived patterns only differ in scale, with possible minor perturbations that do not affect the overall observed geometry. Only the multiplying coefficients change in the mathematical description; the overall relationships are similar.

Contents of Database and Bookmarks










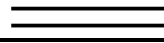




0 - Dimension

Source Geometry	Description of Source
.	1 Dot





1 - Dimension

Source Geometry	Description of Source
.....	A row of dots in a straight line
————	1 straight line

2 - Dimensions

Source Geometry	Description of Source
	3 dots in a triangle
	4 dots in a square
	Triangle
	Square
	Circle
	2 Circles
	Vesica Pices
	3 Circles
	½ sine wave
	2 Lines
	Angled Cross
	Vertical Cross
	Alpha symbol
	Bob's Geometry

3 - Dimensions

Source Geometry	Description of Source
	Banks and Ditches
	Sphere
	Cube
	Pyramid

0 - Dimension

1 Dot

The simplest geometry is a dot, which produces a dowsable horizontal beam, with an outward flow, ending in a clockwise spiral. The horizontal profile of the dowsed beam is shown as the graph in Figure 1. The typical length of this beam is in the range 3-6 metres.

1 Dot x-y Plane (Horizontal Beam Profile)

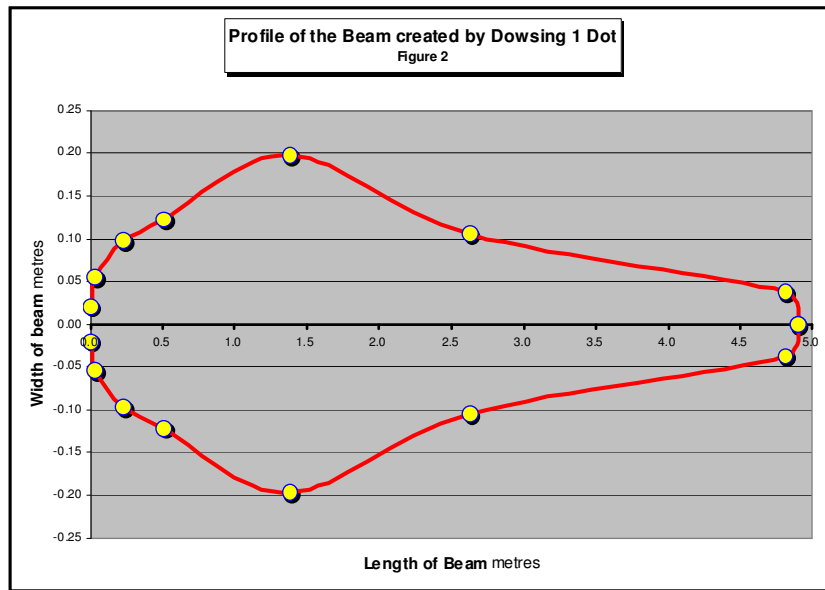


Figure 1

Taking a vertical cross section through this horizontal beam by dowsing its extremities, produces a rectangle, as depicted in Figure 2. This is surprising as instinct would have suggested a circle or oval cross-section.

The properties of dowsing a dot make it suitable for a standard [yardstick](#) that has proved effective in dowsing measurements.

1 Dot x-z Plane (Vertical Cross Section)



Figure 2

1 – Dimension

A Row of Dots in a Straight Line

Dots in a straight line are analogous to a diffraction grating. As the number of dots increases, the width and length of the horizontal dowsable field, emanating from the dots, changes.

The measurements in Table 1 quantify these changes in length in the horizontal x-y plane, as the number of dots increases from 2-7. As the number of linear dots in the source geometry **increases**, the length of the dowsed field **decreases**. As is apparent from Table 1, the decrease in this beam length is more strongly geometric than arithmetic.

Beam Lengths of 1-7 Linear Dots

Number of Dots n	Length of Beam(s) metres	n-(n+1) metres	n/(n+1)
1	4.113	0.353	1.094
2	3.760	0.332	1.097
3	3.428	0.233	1.073
4	3.195	0.195	1.065
5	3.000	0.605	1.253
6	2.395	0.615	1.346
7	1.780		
Average Variation		0.389	1.154
		0.147	0.096
		37.92%	8.35%

Table 1

Beam Widths of 1-7 Linear Dots

Number of Dots n	Width of each Beam cms	(n+1)-n cms	n/(n+1)
1	0.700	1.800	0.280
2	2.500	1.500	0.625
3	4.000	0.500	0.889
4	4.500	0.500	0.900
5	5.000	2.000	0.714
6	7.000	2.500	0.737
7	9.500		
Average Variation		1.467	0.691
		0.644	0.159
		43.94%	23.00%

Table 2

The measurements in Table 2 are also in the horizontal x-y plane, but quantify the change in width of the dowsed field as the number of dots increases from 2 to 7. At the same distance from the source, as the number of linear dots **increases**, the beam width also **increases**. This increase in width is neither strongly arithmetic nor geometric. There may be an analogy to diffraction gratings as more slits produce a wider area of interference fringes.

Drilling down to the next level of detail is shown in figure 3, which is a plan view of the dowsable pattern. This is an example for 7 dots. Each dot produces 1 associated beam. It is the same pro-rata pattern for any number of dots.

7 Dots – x-y Plane (Horizontal)

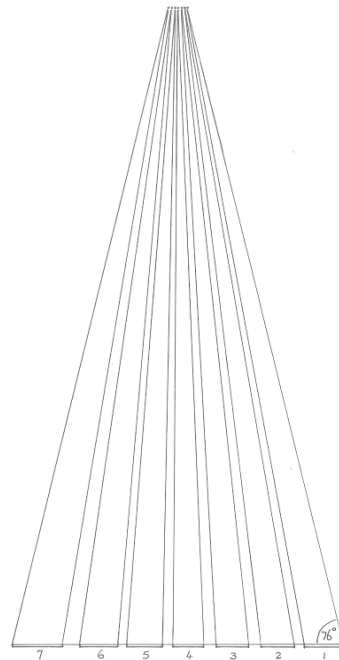


Figure 3

The measurements in Table 3 are in the horizontal x-y plane for each of the 7 beams. The widths of the beams are measured at their **ends**. As is apparent, the beam widths and gaps remain approximately constant. All 7 beams are [Type 1](#) only. All end in [Type 3](#) spirals. All 7 beams end in the same straight line; ie they each have different lengths. The sides of the beams are also straight lines; ie their envelope forms a triangular horizontal profile. Each beam has a square cross-section as in Figure 2 for a single dot. The divergence of the beam is $\arctan 1/42.7$, and the angle of the external beam in Figure 3 is 76° . These angles are not universal, but depend on the number of dots.

The above analysis related to searching for horizontal patterns. If the dowser's intent is in the vertical plane adjacent to the source sheet of paper, a different pattern is observed as in Figure 4. As before, there are 7 lines and 7 dots. However, the end dots each have 3 associated lines, the middle dot has 1 line emanating from it, but the remaining 4 dots do not have any direct lines. All these lines seem to go to infinity and comprise a series of spirals which alternate between clockwise and anti-

clockwise. The angles depend on the number of dots, but for 7 dots they are 90° , 35° , 63° , 45° .

Beam Widths of 7 Linear Dots

Beam Number n	Width of Beam(s) metres	Width of Beam metres	Width of Gap metres
1	0.000	0.300	
2	0.300		0.080
3	0.380	0.265	
4	0.645		0.095
5	0.740	0.246	
6	0.986		0.094
7	1.080	0.240	
	1.320		0.075
	1.395	0.278	
	1.673		0.071
	1.744	0.288	
	2.032		0.142
	2.174	0.386	
	2.560		
Average Deviation		0.286	0.093
		0.033	0.018
		11.540%	18.851%

Table 3

7 Dots – x-z Plane (Vertical)

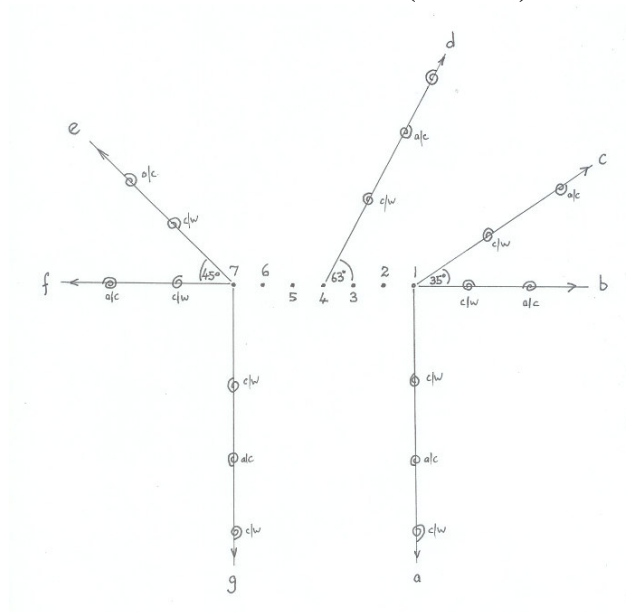


Figure 4

Most inanimate objects as well as living animals or plants have 7 linear chakras. Seven linear dots were chosen to see if there was any geometric connection to the 7 chakras, and to the aura and tree of life patterns generated by these chakras. With this objective in mind, the above experiments were repeated with the 7 dots positioned vertically as well as 7 vertical circles. The same patterns as above were found, suggesting rotational symmetry. Unfortunately, Figures 3 and 4 do not suggest any obvious connection to auras, [Type 2](#) lines, or the [tree of life patterns](#) – as usually associated with dowsing life forms. Consequently, it may be deduced that matter as well as pure geometry may be involved in producing chakra patterns.

A Straight Line

A straight line emits a perpendicular dowsable beam in the x-y plane. Interestingly, it is found that the same results are obtained irrespective of the length of the source line. Taken to the limit the beam pattern observed is identical to dowsing 1 dot as discussed earlier. There would seem no difference between dowsing a dot or a line!

2 – Dimensions

3 Dots in a Triangle

Three dots, 2.5cms apart forming the corners of an equilateral triangle, produce no dowsable patterns in the horizontal x-y plane. However, in the vertical x-z plane where $y = 0$ (i.e. on the sheet of paper with the 3 dots) there are 3 lines, as shown in Figure 5. One line emanates from each dot, with an outward flow, and forms a perpendicular to the opposite side of the triangle. At new moon the lengths of these 3 lines were greater than 12 metres. They dowsed as a [Type 1](#) line.

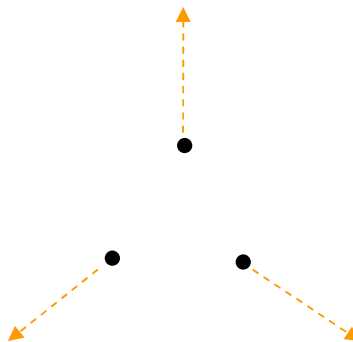


Figure 5

4 Dots in a Square

The source 4 dots in the following example are 2.5 cms apart and form the corners of a square, with the origin of the axes at the centre of the square. On dowsing, 6 beams are observed in the horizontal x-y planes, comprising 2 sets of 3. Figure 6, a plan view, is looking down on this dowsed pattern, and the top two dots of the source square are shown. The length of the beams was about 3.95 metres on the day of the measurements.

4 Dots in a Square (Horizontal) Plan

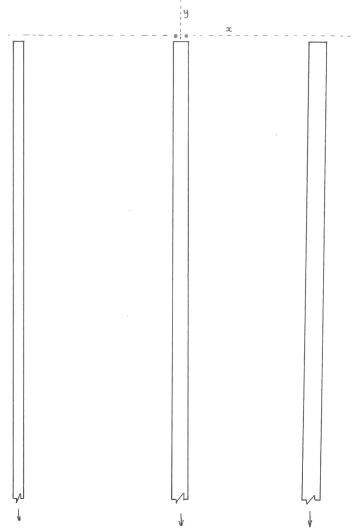


Figure 6

Figure 7 is a vertical cross section through the 6 beams. The upper diagram is the cross-section at the origin: ie $y = 0$. The 4 source dots are at centre of the 2 middle beams. The bottom cross section was taken 2.6 metres from origin: ie $y = 2.6$. As is apparent, on moving away from the origin, the top 3 beams diverge from the lower 3 beams. At $y = 2.6\text{m}$ the separation between the top and bottom 3 beams increases by 2.25 – 7.7 times, and the right hand side beams seem to curve towards the centre beam by 28%.

4 Dots in a Square Vertical Cross Section

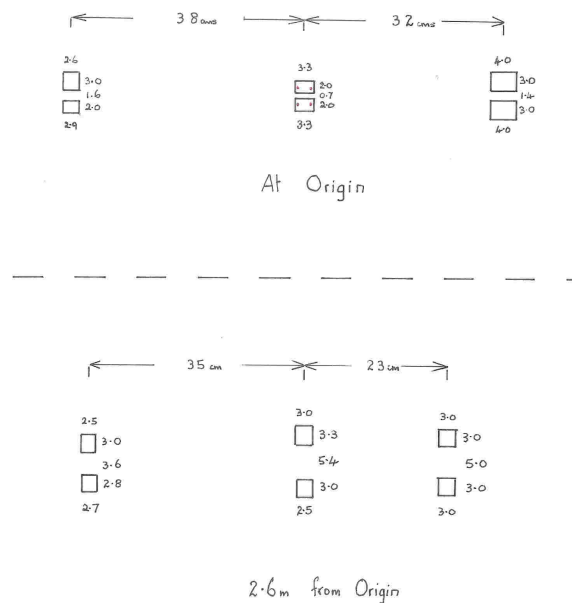


Figure 7

In Figure 6, intent was dowsing lines in a horizontal plane. The intent in Figure 7 is recording lines in the x-z vertical plane at the origin: ie in the plane of the paper, or $y=0$. There are 4 lines - 2 vertical and 2 horizontal. All lines have a perceived outwards flow, and the lines are about 1 cm thick. On the date and time of measurement, the length of each of the 4 lines was about 60 metres.

4 Dots in a Square Vertical Lines

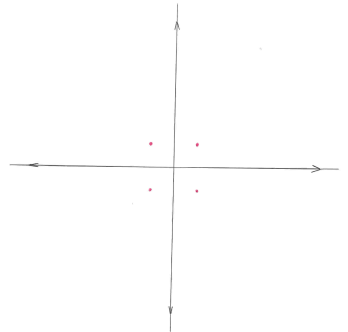


Figure 8

A Triangle

A solid equilateral triangle (having sides of about 11.5 cms) produces a very different pattern to 3 dots in a triangular formation that has been described earlier. In the plane of the paper there are no dowsable patterns, which is the opposite of the 3 dots! Coming perpendicularly out of the paper (i.e. horizontally) are 6 lines comprising two pairs of three lines. As illustrated in Figure 9, a vertical cross-section through these 6 lines shows that they form the corners of two triangles which are about 4 and 8 times scaled up versions of the original source triangle (i.e. sides of about 44 cms and 80 cms).

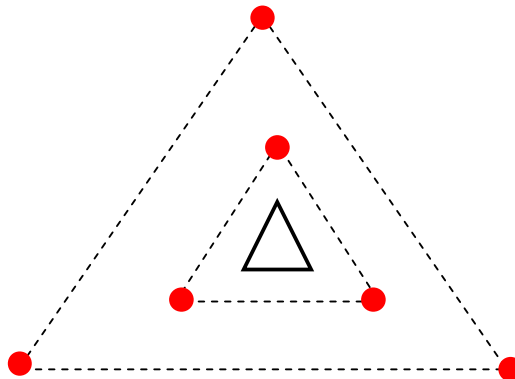


Figure 9

A Square

As with a triangle described above, there are no dowsable patterns in the plane of the paper on which is drawn a square (having 5 inch sides). Coming perpendicularly out of the paper (i.e. horizontally) are 8 lines comprising two pairs of four lines. As depicted in Figure 10, a vertical cross-section through these 8 lines suggests that they form the corners of two squares which are about 4 and 8 times scaled up versions of

the original source square (i.e. sides of 20 inches and 40 inches). As with a triangle above, these seem to be further examples of a 2:1 ratio.

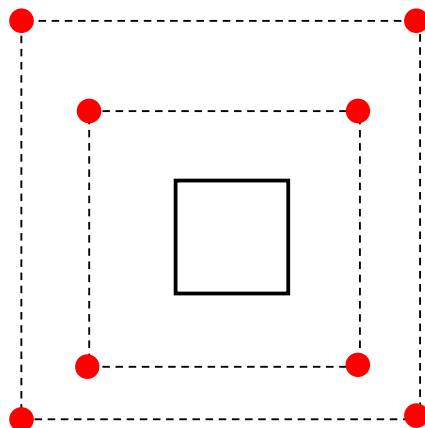


Figure 10

1 Circle

Dowsing a circle produces a horizontal beam coming perpendicularly out of the paper. On further investigation the circle has a perceived aura, the dowsed radius of which is 2 x radius of circle. This is another example of a 2:1 ratio. Figure 11 represents this. The beam is a clockwise spiral having a length greater than 12m when measured at full moon. The diameter of the spiral at its source (ie at the sheet of paper with the circle) equals the diameter of the core aura, which suggests that the perceived aura is the envelope of the spiral. The beam diverges so that it doubles its diameter in 12 metres. This equates to an angle whose $\tan = 1/131.1$. Is it a coincidence that the Fine Structure Constant $= 1/137$?

1 Circle

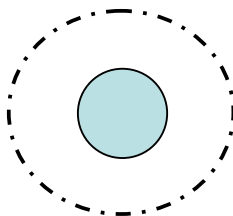


Figure 11

2 Circles

An interaction between 2-circles occurs if their auras overlap. This interaction produces a subtle energy line through the centres of the 2 bodies. The length of this line is a function of the separation distance between the 2-bodies. It has a finite length, and ends in a conical helix. The dowsed pattern for 2 circles is shown in Figure 12, and bears little resemblance to the pattern from 1 circle. It comprises 3 components.

2 Circles

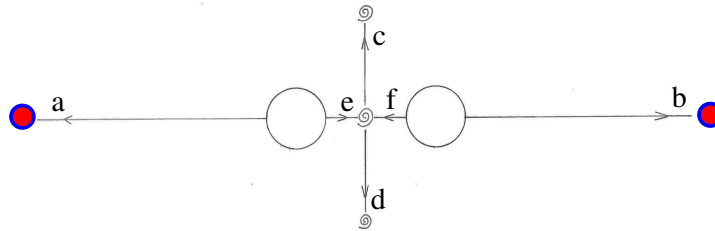


Figure 12

The two dowsable lines **a** & **b** are on the x-axis which passes through the centres of the 2 circles. They have a perceived outward flow, and vary in length as the separation distance between the 2 circles varies. This is shown graphically in Figure 13.

Separating 2 Circles

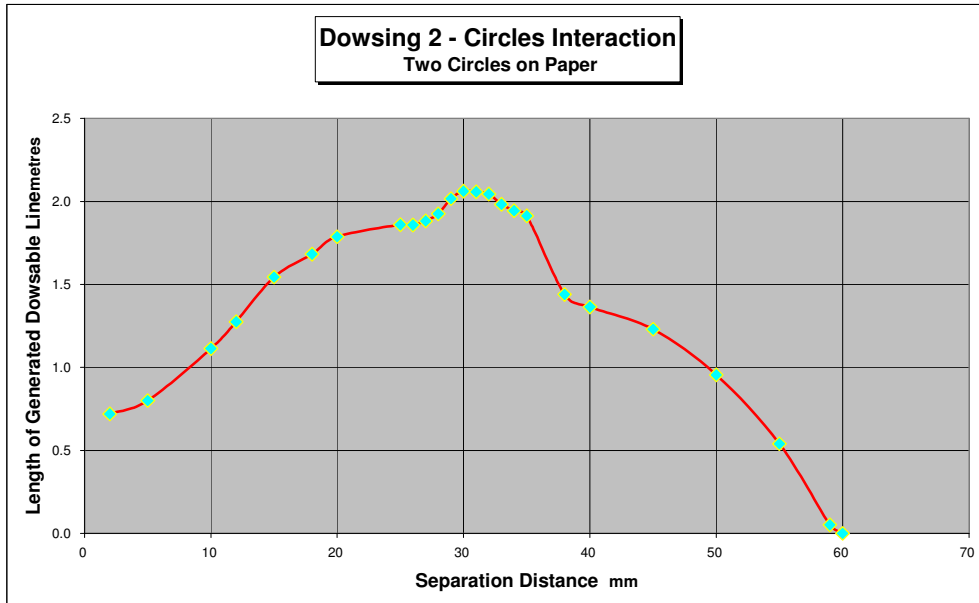


Figure 13

The maximum length of lines **a** & **b** was 2 metres when the 2 circles were at an optimum critical separation distance of 30mms apart. The lines **a** & **b** disappeared when the separation of the 2 circles was equal to or greater than 60mms. This is another example of a 2:1 ratio.

The helices at the ends of lines **a** & **b** bifurcate into a symmetrical pair of “parabola like” shaped lines which end in another helix which also bifurcates. This is shown in Figure 14, and the process continues with ever decreasing parabola lengths. About 6 bifurcations is the practical end of this harmonic series. As usual, individuals obtain different bifurcation lengths, but the same ratios. The bifurcation factor seems 2:1,

but not the Feigenbaum constant of 4.669 that is usually associated with bifurcation in chaos theory. Figure 14 represents the latter.

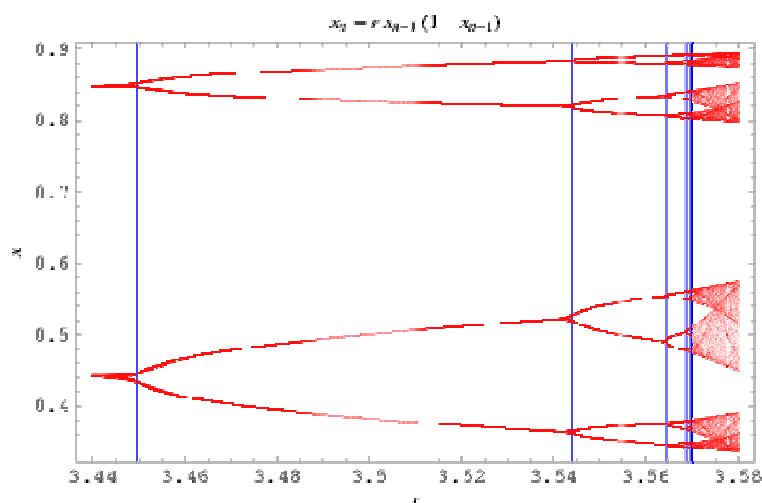


Figure 14

Intriguingly, there is a 5-dimension dowsing response at the 2 points in each vortex where it bifurcates. This is the same as dowsing a half sine wave, or the spirals at the end of radials in a [peace grid](#).

The angle between adjacent helices is about 30° which possibly decreases as the bifurcation evolves. All the above measurements were made on the ground – none involving height. We need vertical vortex angles to see if the angles of the associated conical helices decrease in the series sine 1/3, 1/5, 1/7.....?

Another two dowsable lines **c** & **d**, generated by the 2 circles, are at right angles to the lines **a** & **b**, and are equidistant between the centres of the 2 circles. They have a perceived outward flow, and end in a clockwise spiral, but unlike lines **a** & **b** are almost fixed in length as the circles separate.

The two lines **e** & **f** have a flow toward the centre point between the 2 circles, where they form a clockwise spiral. When the source paper is horizontal, this spiral is a perpendicular vertical vortex. The theoretical considerations for these results are discussed later.

Vesica Pisces

The previous section covered two separated circles. What happens when they overlap? As illustrated in Figure 15, a true vesica pices is a pair of overlapping circles passing through each others centre. The experiments described here are based on 2 circles each of 1inch diameter, drawn on separate sheets of paper placed on the floor, and gradually separated.

Figure 16 illustrates the generalised aura and dowsable lines generated by this geometrical pattern. The two equal circles each have a radius = **r**, a diameter = **d**, and **s** = the separation distance between the centres of the two circles. The aura is shaped liked a pair of lobes, similar to dipole radiation or the aura of a [rotating fan](#). The aura

comprises 9 bands, with the outer boundary drawn in red. The maximum size of the aura equals the diameter, d , of the circles, and is along the line perpendicular to the axis through the two centres of the circles. In addition, there are two variable length lines, L , (maximum length 6.8 metres on the date of measurement), which are either side and also along the line perpendicular to the axis through the two centres of the circles. This line is marked in green, and is the one used for measurement. There is also a beam coming perpendicularly out of the paper from the centre of the vesica pices, with an outward flow and possibly extending to infinity, but this has not been measured.

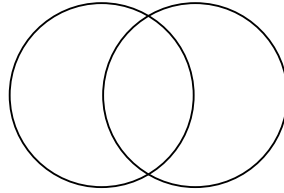


Figure 15

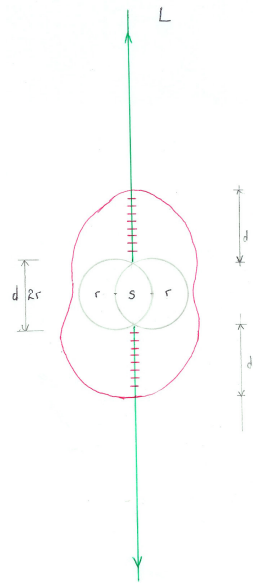


Figure 16

Figure 17 is the graph obtained as the two circles are separated. The y-axis is the length of the line, L , and the x-axis is the ratio s/r . A resonance peak is obtained when the separation distance, s , between the 2 centres of the circles equals r , their radius, i.e. a true vesica pices, when $s/r = 1$.

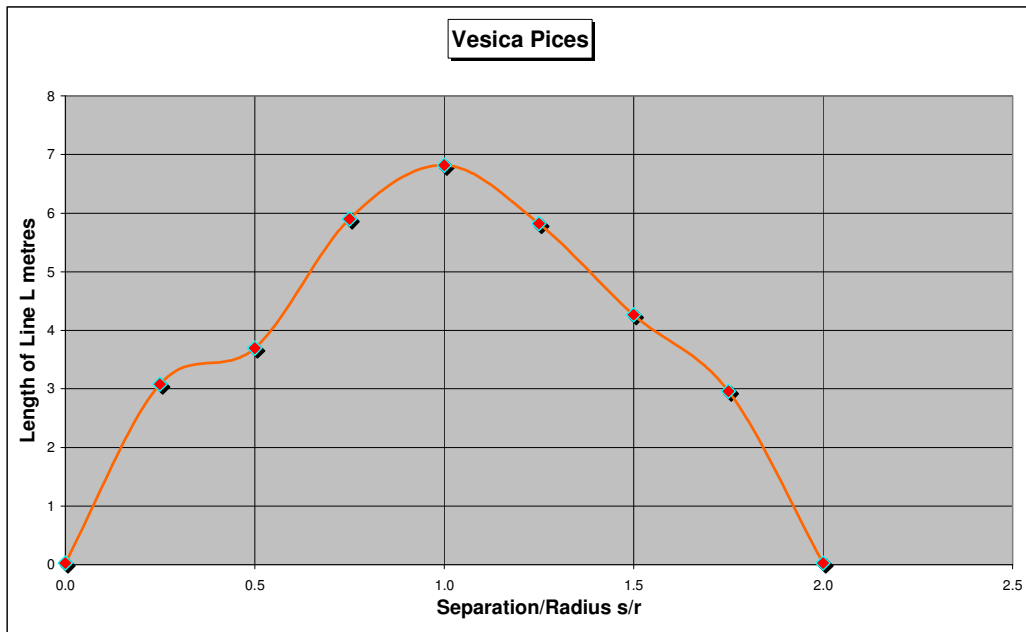


Figure 17

From a theoretical view a single circle produces a spiral with a base diameter 2 x the diameter of the circle. Two separate circles produce a variable line through the 2 centres. The vesica pices seems to be a combination of both.

3 Circles

When 3 circles are aligned so that

1. their centres are in a straight line, and
2. adjacent circles are separated at a distance greater than the sum of their auras, so there is no 2-circle interaction as described above

then a subtle energy beam is formed as in Figure 18

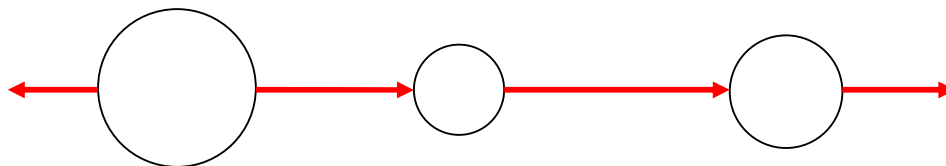


Figure 18

The subtle energy beam always seems to flow out from the largest circle. Unlike 2-circles which produce a finite beam dependent on their separation distance, this beam extends over vast distances, and its formation is not limited by how far the circles are separated.

The 2-circle interaction discussed earlier produces a different subtle energy beam from a 3-body interaction. For example,

- a. the auras of any of the 3-circles do not need to overlap,
- b. the subtle energy beam seems to have infinite length, and
- c. it does not bifurcate.

This simple geometry of 3 circles produces similar effects to astronomical alignments such as new or full moon, or eclipses. More details can be found at [Astronomical Alignments](#) and at [Variations due to Subtle Energy](#).

Half Sine Wave

The half sine wave, Figure 19, is possibly the 2nd most interesting dowsable shape. Irrespective of size, the half sine wave shape appears inert to dowsing. There are no dowsable lines either horizontally or vertically. Of all the geometrical shapes so far studied, the half sine wave is unique in this respect. This may indicate another example of waves, with interference producing a null effect. The consequential theoretical considerations are discussed later.

Half Sine Wave

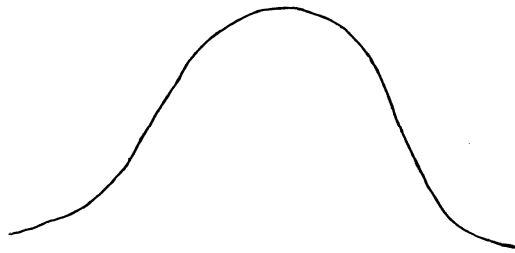


Figure 19

The other unique, unexpected, inexplicable, and “weird” phenomenon, as discovered by Bob Sephton, is that dowsing a half sine wave in the 5th dimension gives a strong pattern. When re-dowsing the half sine wave geometry and specifying the intent in the normal 3 and 4-dimensional space, there is a void as described above. However, if the dowsing intent is asking for a pattern in 5-dimensional space one obtains 4 lines. This pattern is illustrated in Figure 20, and indicates the dimensions. These lines are in the plane of the paper, which can be fixed either horizontally or vertically – the effect and pattern seems identical. There are no lines perpendicularly out of the paper.

Although only measured over a distance of 2.1 metres, these 4 lines appear to be parallel within experimental error, have an outward flow, and seem to go to infinity. Even though the source half sine wave only extended 110mm, the separation distance between the outer lines was 1.35-1.40 metres. As they have different properties to the 4 types of lines generated by, say, banks and ditches, they are being referred to as Type 5 lines. All 4 of these Type 5 lines seem to have the same properties. Unlike Types 1 – 4 lines, they do **not** show a colour on a mager disc.

These experiments have been repeated with the following geometric shapes that produce strong patterns in 3 and 4 dimensional space (presumably the latter indicates stability in time). A dot, angled cross, vertical cross, circle, Bob’s geometry, vesica pisces, and a full sine wave. All of these produce a void when dowsing in 5-dimensional space. This void is in the plane of the paper as well as perpendicular to the paper. It makes no difference if the paper on which is drawn the geometrical shape, is fixed either horizontally or vertically.

Further research is obviously required to explain why a 5-dimensional result is only obtained with a half sine wave, and few other geometries.

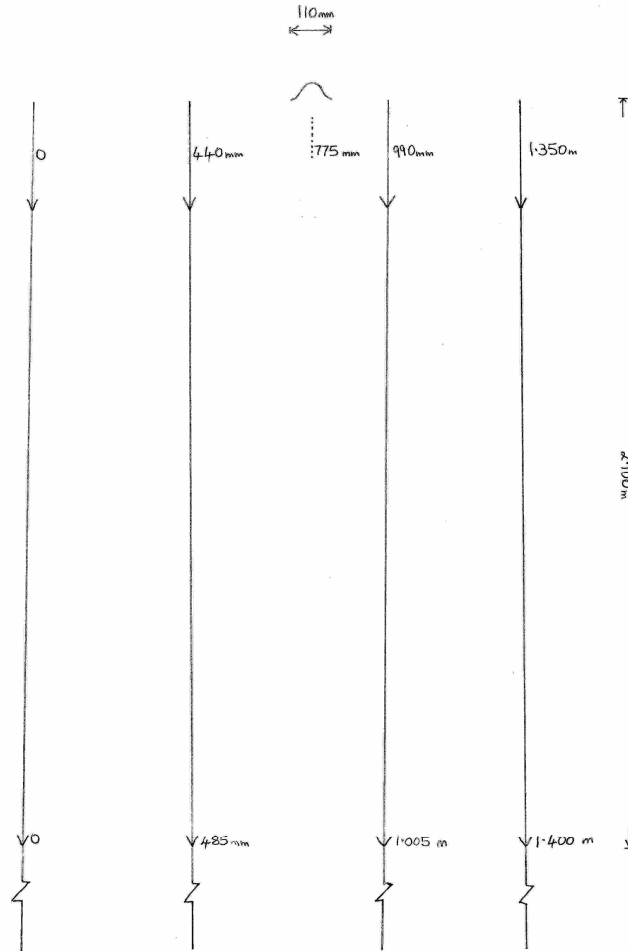


Figure 20

Two Parallel Lines

Although 1 line dowses the same as 1 dot, 2 lines dowse completely differently to 2 dots. Dowsing two lines such as those drawn on a sheet of paper, as depicted in Figure 21, is probably the most interesting of the dowsable geometry described here.

Dowsing 2 Lines



Figure 21

In general, the very complex dowsable pattern produced by a source of 2 parallel lines comprises 17 different lines, concentric cylinders, plus numerous spirals, which fall

into 4 different categories. The pattern is illustrated in Figure 22, with the 2 source lines depicted at the centre.

The Dowsable Fields Produced By 2 Lines

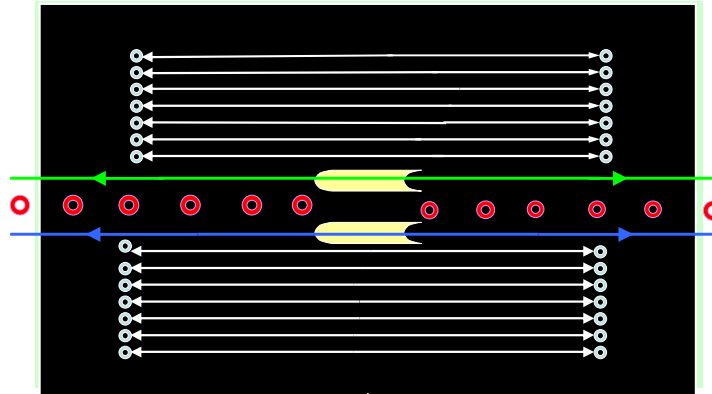


Figure 22

The Dowsable Fields Produced by 2 Lines

Each of the four types of fields that are found when dowsing 2 parallel lines are discussed below.

Type 1 Fields

As can be seen in Figure 22, there are two groups of seven lines, making 14 in total. These 14 lines are parallel to the two source lines. One group of seven lines is to the right of the source whilst the other group of 7 lines is to the left. Each of these 14 lines has a perceived outward flow, but it is debateable what this “flow” actually represents, although it could be a potential difference rather than a flow. As often in earth energies, each line ends in a clock-wise spiral.

Separating 2 Lines

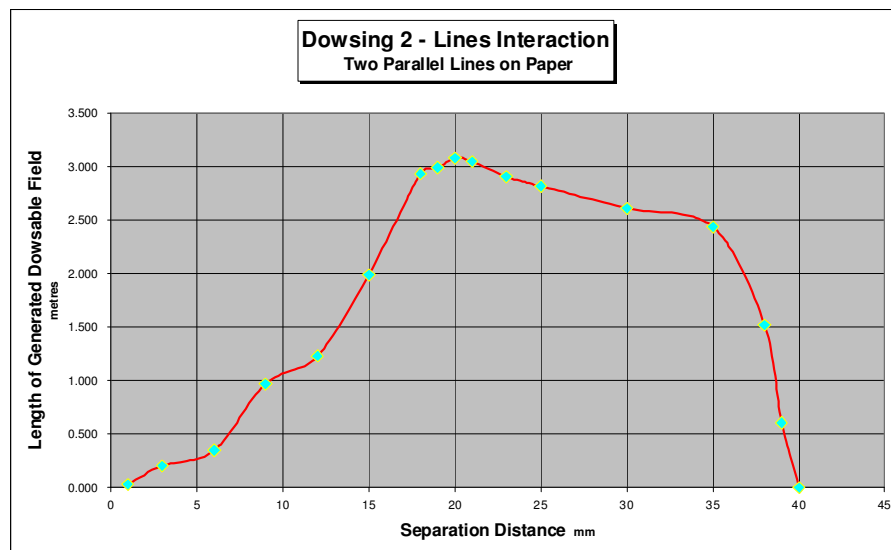


Figure 23

The length of the 14 outer lines is variable, and mainly depends on the separation distance between the 2 source lines, (with perturbations caused by astronomical influences), as shown graphically in Figure 23.

This experiment has been repeated several times over the last few years. Although the shape of the curve may differ slightly, the maximum sized dowsable length of 3m occurs when the 2 lines are 20mm apart. This is the optimum separation distance, when a resonance peak seems to occur. At separation distances equal to or greater than 40mm, the dowsable field disappears suddenly. This is another example of a 2:1 ratio, which is found elsewhere in dowsing.

The two groups of seven lines, as measured on the ground, are, in fact, seven concentric cylinders. The dowser, walking along the ground, initially only detects dowsable points where the cylinders meet the ground. This he then perceives as two sets of seven lines. Subsequent realisation of the three dimensional geometry follows from further research, and leads to Figure 24, which illustrates this effect.

Seven Concentric Cylinders

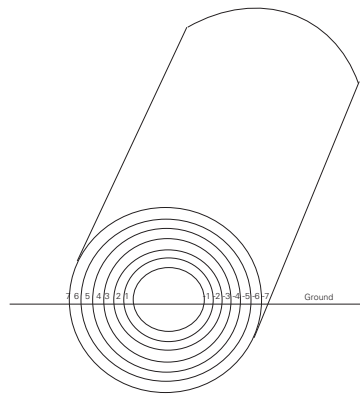


Figure 24

A more advanced feature of these lines is that they give a white reading on a Mager disc, as do the associated terminal spirals. However, it is not clear what this perceived colour represents. Some of the characteristics of these Type 1 lines are summarised in Table 4.

Type 2 Fields

Type 2 lines have very different properties to the Type 1 lines. A Type 2 line runs along the top of the eastern most line, and extends outwards from both ends of the bank. Measured from either end of the source lines, its length is greater than 100 metres in both directions. However, it is difficult to measure distances greater than hundreds of metres whilst keeping focused on the dowsable object. Possibly, this line is perceived to extend to infinity, but it is obviously impossible to prove this statement. The Type 2 line also has an outward perceived flow in both directions.

These Type 2 lines produce a green reading on a Mager disc, and have a rectangular cross-section. In general, the size of the Type 2 dowsable field increases as the source lines separate. Table 4 shows some of the characteristics of these Type 2 fields.

The Colours, Shapes, and Locations of the Lines





Field Type	Location	Colour	Cross-Section	Shape of Cross-Section	Approximate Dimensions metres	Approx. Length metres
Type 1	Either side of source lines	White	Concentric cylinders		Radii 0.1, with axis along centre of source	5
Type 2	Along easterly line	Green	Rectangular		Height above ground 0.5 Width 0.04	100+
Type 3	Along the centre of the source lines	Red	Inverted conical helix		Top of spiral above ground 0.3 Diameter of inverted base 1	100+ Separation between spirals 1
Type 4	Along westerly line	Blue	Diamond		Height above ground 1.6 Width 0.40	100+

Table 4

Type 3 Fields

Unlike the previously described Type 1 and Type 2 lines, the Type 3 field is not a line but a series of spirals running between the source 2 lines, with a void between each spiral. These spirals extend outwards from both sides of the source in an apparent straight line. The length of this Type 3 line is also greater than 100 metres in both directions and the same qualification applies as for the Type 2 lines above.

Viewed downwards, these Archimedean (equally spaced) spirals turn clockwise, and form an arithmetic progression, with a separation distance between adjacent spirals of about 1 metre, depending on the separation of the 2 source lines.

These Type 3 lines produce an indication on a Mager disc of the colour red. The geometry of each spiral may be described as a pair of inverted conical helices, reflected at their apex. A further level of complexity is that each of the “spirals” comprises 7 pairs of inverted conical helices stacked vertically. Some of the characteristics of the Type 3 fields are summarised in Table 4.

Type 4 Fields

The fourth distinctive type of dowsable field runs along the most western of the 2 source lines. It extends outwards from both sides of this line, and as for the Types 2 and 3 lines above, has a length greater than 100 metres measured in both directions from the ends of the source lines. This Type 4 line has a perceived outward flow, and gives an indication on a Mager disc of the colour blue. It has a diamond shaped cross-section. Intriguingly, members of the Dowsing Research Group have reported basic telepathy when standing on these blue Type 4 fields. Some of the characteristics of the Type 4 fields can be seen in Table 4.

Orientation

The Type 2 line always runs along the most easterly source line, whilst the Type 4 line always runs along the most westerly of the 2 source lines. When the 2 source lines are orientated exactly **magnetic** east – west, there is a null point when the Type 2, 3, and 4 lines suddenly disappear. The Type 1 lines do not seem to be affected. The implications of this are discussed in the conclusions.

Angled Cross

Unlike two parallel lines, an angled cross drawn in a vertical plane, as shown in Figure 25, does not produce complex patterns. There are no Type 2, 3, nor 4 fields. What are produced are 4 **horizontal** (Type1) lines emanating from the ends of the source lines. These have an outward flow, with a length of about 6 to 8 metres, depending on time, the day, and the month. These lines end in a clockwise spiral.

In the **vertical** plane through the source (i.e the sheet of paper), four Type 1 lines are observed which are extensions of the source lines. They have an outward flow, are perceived to go to infinity, and have no spirals.

Angled Cross

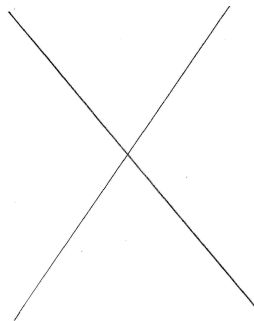


Figure 25

Vertical Cross

A cross in a vertical plane, as depicted in Figure 26 produces one Type1 horizontal line emanating from the centre of the cross. It has an outward flow and is perceived to go to infinity with no spirals. This beam diverges from a 7mm square cross section to 19 cms square over a distance of 11.95 m from source. This is a very small angle of divergence whose arc tan is $1/130.6$, which is very similar to the divergence of the beam emanating from a circle, and is tantalising close to the Fine Structure Constant $=1/137$)

Vertical Cross

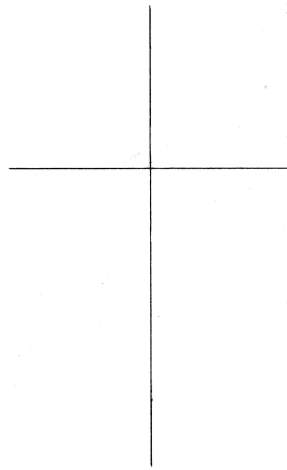


Figure 26

In the vertical plane through the source, four Type 1 lines are dowsed which are extensions of the source lines. They have an outward flow that is perceived to go to infinity without any spirals. Interestingly, turning this cross so it is not vertical loses the above horizontal beam, and produces the same properties as an angled cross in Figure 15. This suggests that either gravity or the vertical stance of the dowser affects results of dowsing geometry. However, if the dowser's intent is to perceive the sloping cross as vertical, or the dowser leans so that the cross seems vertical, or is parallel to the dowser's body, the horizontal line re-appears. This suggests that the mind, and the brain's mechanism that produces sight, may be more relevant than gravity.

Alpha Symbol

When dowsing an alpha symbol (an early Christian symbol) as depicted in Figure 27, several people have reported seeing much energy, and many vivid colours including blue and gold. The pattern comprises three components.

Alpha Symbol

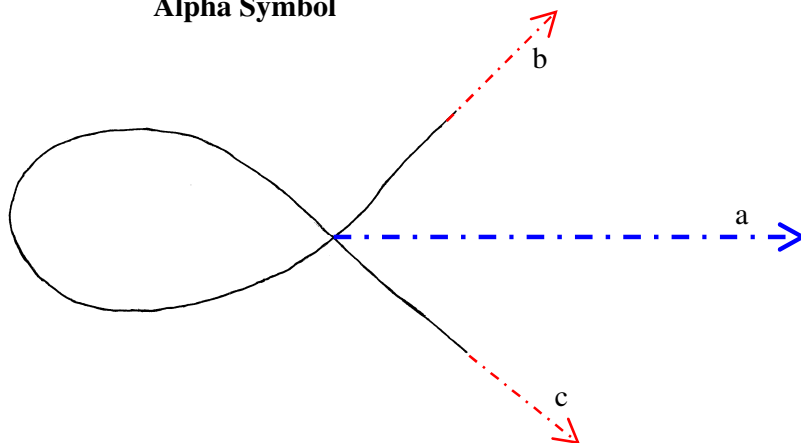


Figure 27

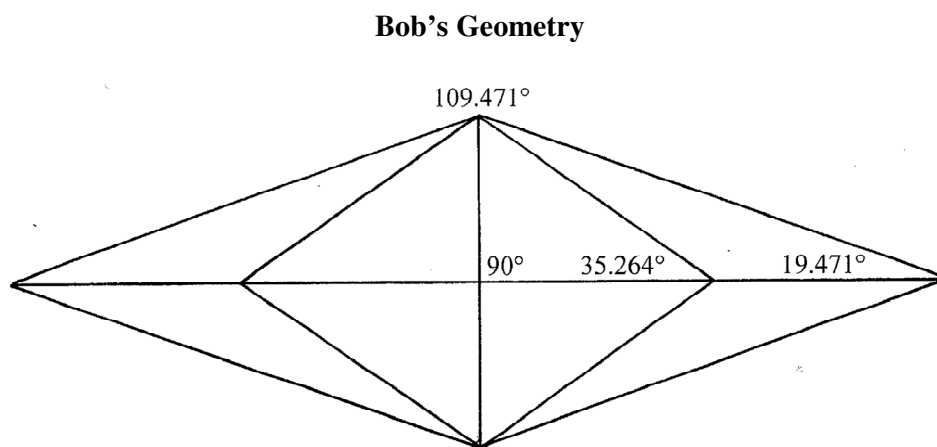
In the vertical plane through the source, (i.e. on the sheet of paper), there is a main beam (a) along the central horizontal axis (Type 1). It has an outward flow, is perceived to go to infinity, has no spirals, and the beam diverges with an angle whose tangent = $1/74.6$, which is about twice the previous value for the circle and cross. There is a dowsing void inside the oval.

In addition, there are 2 x Type 1 lines (b and c) which are extensions of the 2 source lines. They have an outward flow with a length of lines about 6 to 9 metres, depending on time, the day, and the month. These lines end in a clockwise spiral.

Coming perpendicularly out of the paper, a single (Type1) line emanates from the cross-over centre point; i.e. horizontally, towards the observer. It has an outward flow with a length of about 6 to 9 metres, depending on time, the day, and the month. This line ends in a clockwise spiral.

Bob's Geometry

The geometry in Figure 28 contains some of the key angles found in many branches of science. Acknowledgements are due to Bob Sephton who brought attention to the complex dowsing patterns/fields found when dowsing this geometry, which has been observed and measured by over 15 experienced dowsers. A sample of these observations is set out below when this source geometry is laid horizontally on the ground. Figure 29 illustrates the findings. Due to the complexity of the dowsed patterns, a bullet point format has been adopted to improve comprehension.



1. The optimum dowsable effect is obtained when the long axis is aligned with magnetic north.
2. There are 4 spirals both to the north and south of the extended long axis. Their separation forms an arithmetic progression, with an average arithmetic constant of 1.73 metres. See Table 5 below.
3. There are also 4 different spirals both to the north and south (of the extended) long axis. These form a geometric progression, with a geometric constant of 2.08, as shown in Table 5.
4. The short axis also has 4 spirals with similar arithmetic and geometric progressions. The constants average 1.37 and 2.30 respectively, but compared to the long axis there is a greater deviation from the average.

“Bob’s Geometry” x-y Plane (Horizontal) at Ground Level

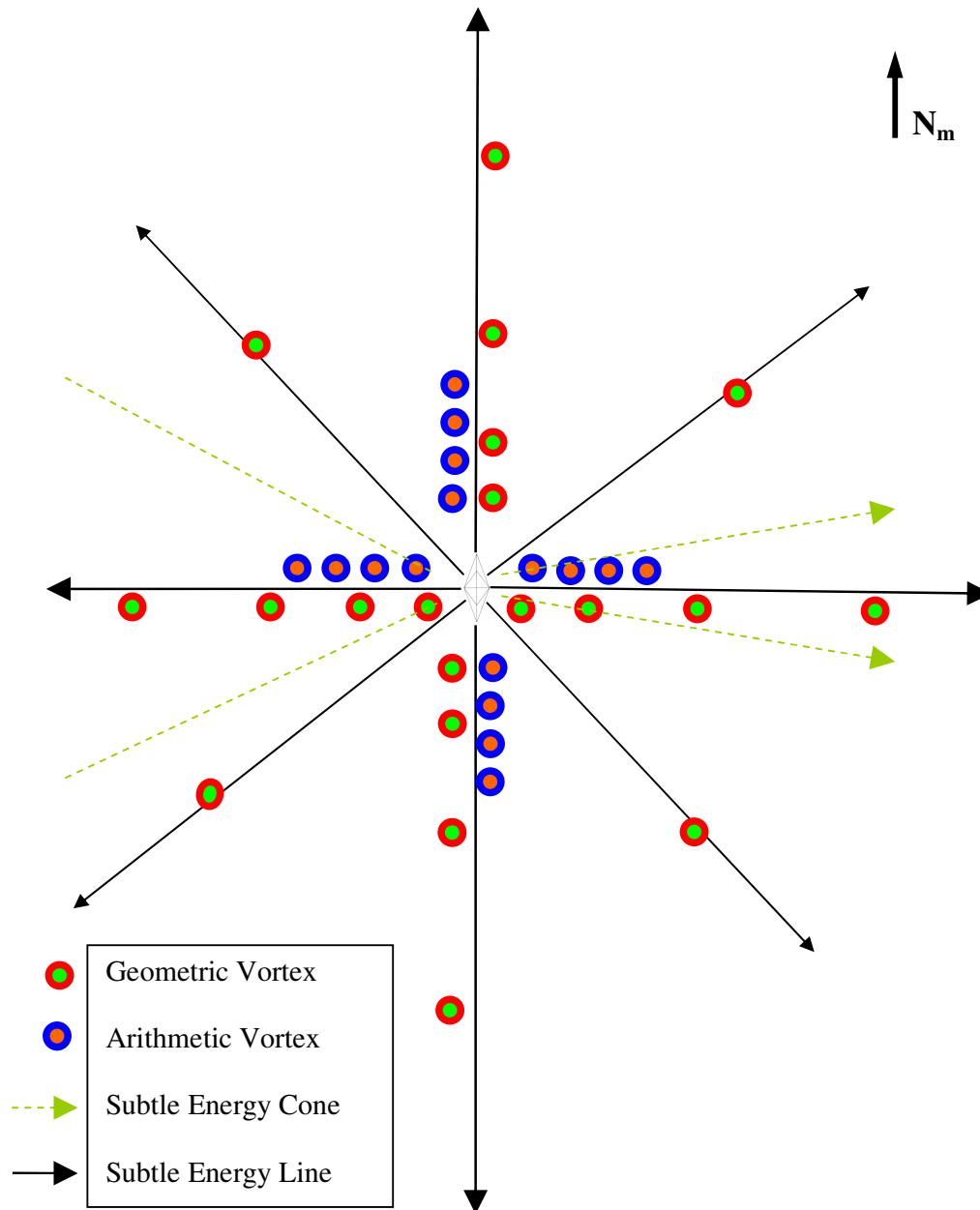


Figure 29

5. Along each axis there are more nodal points than spirals, with at least 7 nodes and possibly a reflection of another 7.
6. Measurements were only undertaken in northerly and easterly directions. Symmetry was not measured in the south or west directions.
7. On each of the 45° lines between the n-s and e-w lines, there is only 1 spiral.
8. This geometry appears to “suck” in subtle energy, and then eject it in a different format.

9. The dowsable subtle energy flow **into** the geometry, from west to east, is dowsed as a cone with a half angle of 30° approx.
10. The dowsable energy coming **out** is a narrow beam with a half angle of 18° (arctan = 1.625/5).
11. The cone angles of the in to out beams are therefore in a ratio of 1:1.66.
12. The out beam angle of 18° is approx half of 35.264° and may be relevant.
13. At the centre of the geometry exists a series of spirals. The height of the conical helix is $\pi \times 1$ megalithic yard (2.72 ft) = 8' 6.5". The apex of the cone is about 2-6" below ground level.

The Alignment and Spacing of the Spirals

Long Axis; South to North

Spiral No.	Arithmetic		Geometric	
	metres	Constant m	metres	Constant
1	2.08		2.1	
2	3.94	1.86	4.46	2.12
3	5.58	1.64	9.24	2.07
4	7.26	1.68	18.98	2.05
Average	1.73		2.08	

Short Axis; West to East

Spiral No.	Arithmetic		Geometric	
	metres	Constant m	metres	Constant
1	1.59		1.31	
2	3.50	1.91	3.74	2.85
3	4.36	0.86	8.19	2.19
4	5.70	1.34	15.23	1.86
Average	1.37		2.30	

Table 5

3 – Dimensions

Banks and Ditches

The remarkable findings are that massive 3-dimensional earth-works, known as banks and ditches, produce exactly the same dowsable pattern as cm. sized 2 parallel lines, which are 2-dimensional. The latter was discussed earlier. This Hyperlink gives further information on [Banks and Ditches](#).

A Sphere

The sphere used as the source object had a 16 cms diameter. Figure 30 is an elevation showing the two dowsable lines generated. These are [Type 4](#) lines passing vertically through the centre of the sphere. One has a vertical upward flow, whilst the other has

a vertical downward flow. The length of these two lines was greater than the height of the room in which the measurements were taken.

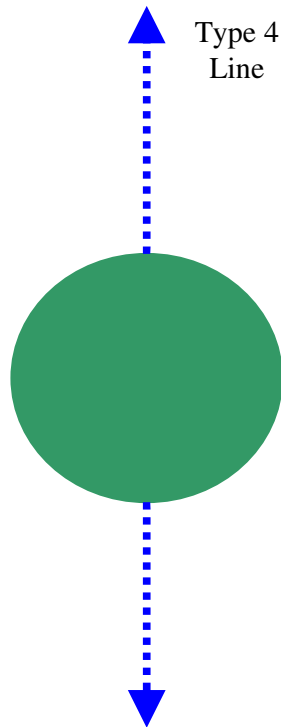


Figure 30

As a sphere is, by definition, symmetrical, the fact that the only dowsable lines are vertical suggests that gravity is involved in their production. This is consistent with the findings for other geometrical shapes.

A Cube

The edges of the source cube measured 6" x 6" x 6", with the base placed horizontally. Figure 31 is a plan view. 14 lines are generated as follows:

- a. 4 x Type 1 lines extending horizontally, about 2.1 metres, from the centre of each vertical face, with an outward flow.
- b. 2 x Type 1 lines extending vertically, about 2.1 metres, from the centre of each horizontal face, with an outward flow.
- c. 8 x Type 4 lines originating from each corner of the cube, in a diagonal direction, extending horizontally, with a perceived outward flow, and giving the impression of an infinite length, but this was only measured up to a length of 50 metres.

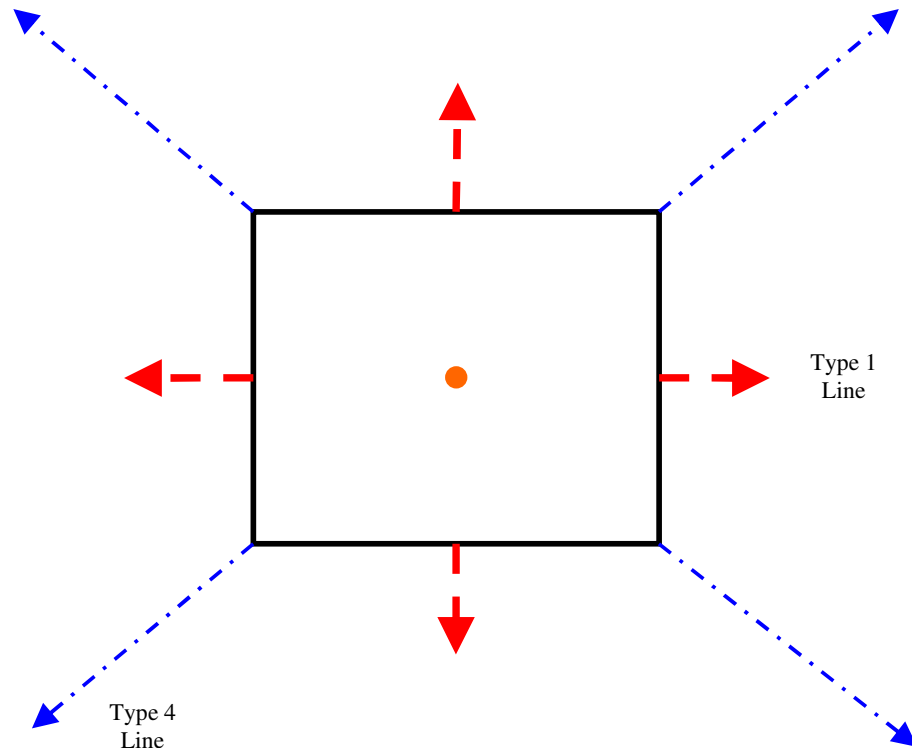


Figure 31

A Pyramid

The pyramid used as the source object has a square base 8 cms x 8 cms, with a height of 10 cms. Its base was placed on a horizontal plane. Figure 32 is a plan view, that illustrates the ten dowsable lines generated. The latter comprise:-

- a. 4 x Type 1 lines originating from the centres of each triangular face, extending horizontally, with a perceived outward flow, and length of approximate 1.53 metres.
- b. 1 x Type 1 line from the centre of the base square, extending vertically downward, also with a perceived outward flow, and a length of 1.53 metres.
- c. 4 x Type 4 lines originating from the corners of the base of the pyramid, extending horizontally, with a perceived outward flow, and a length that gives the impression of an infinite length, but only measured up to a length of 50 metres.
- d. 1 x Type 4 line originating from the apex of the pyramid, extending vertically upwards, with a perceived outward flow, and a length that gives the impression of an infinite length, but only measured up to a length of 50 metres.

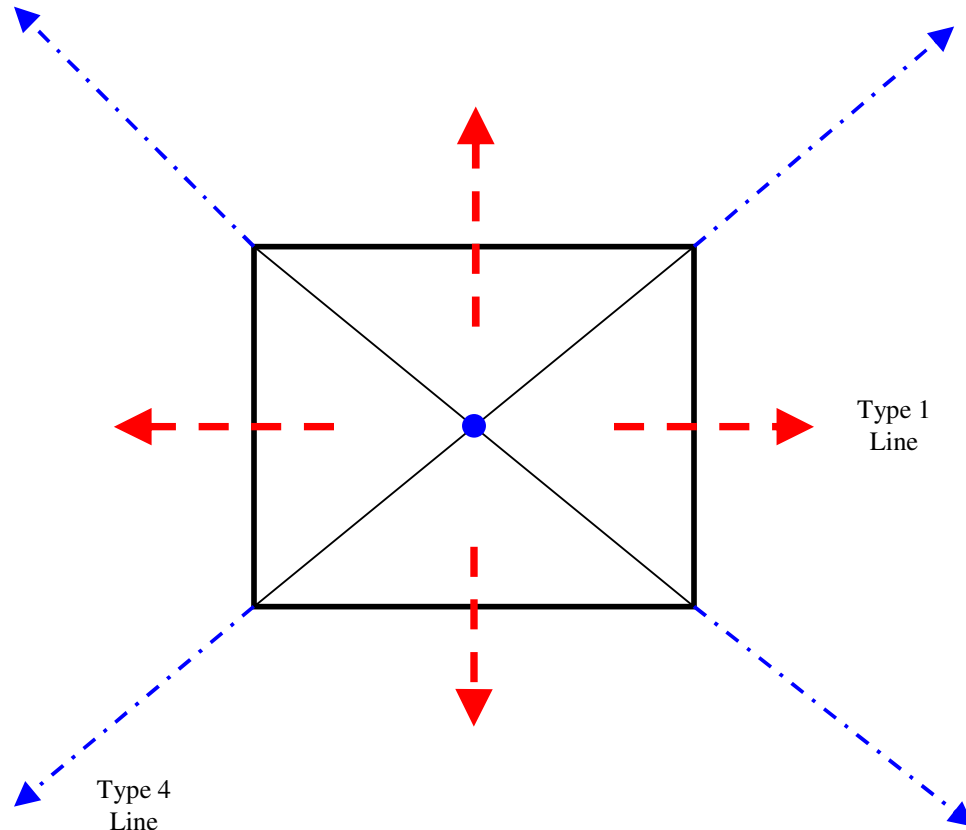


Figure 32

Generalisations, Conclusions, and Basic Theory

Although mathematical transformations and an explanation are still required of the patterns observed when dowsing geometry, the following interim results and interpretations are based on the current state of work in progress. Table 6 provides a cross-reference of the findings for each source geometry. It must be stressed that a blank in the table could mean that the factor has not been measured or observed by the author. It does not necessarily mean that the factor is absent. Similarly, to keep the data manageable, several other factors in the text have not been included in Table 6. These include arithmetic or geometric series; direction of flow; clockwise or anti-clockwise vortices; Mager colours; Type 1-5 characteristics, etc.

Common Factors

It is apparent from Table 6 that short measureable lines are the most common observation, closely followed by very long lines that are too long to measure but give the impression of extending to infinity. Vortices and divergent beams are equally common. The occurrence of 2:1 ratios and resonance is also frequent. Intriguingly, the fact that a 1-dimensional source geometry gives identical observations as a 0-dimensional source, and some 2-dimensional source geometries give identical observations as 3-dimensional objects, reinforces the importance of geometry in the structure of the universe.

	Measureable lines	Very long lines	Diverging Vortices	Diverging beam(s)	2:1 ratio	Resonance	n-1 = n dimension	Scaling	137, 131	Magnetic Gravity	5-dimension	Bifurcation		
1 Dot	√			√	√			√					4	
A Row of Dots in a Straight Line				√	√								2	
A Straight Line	√			√	√			√					4	
3 Dots in a Triangle			√										1	
4 Dots in a Square	√												1	
A Triangle	√					√			√				3	
A Square	√					√			√				3	
1 Circle				√	√	√				√			4	
2 Circles	√			√	√	√	√	√				√	6	
Vesica Pisces	√				√	√	√	√					3	
3 Circles			√		√		√	√	√	√	√		7	
Half Sine Wave												√	1	
Two Parallel Lines	√	√	√	√		√	√	√			√		7	
Angled Cross	√			√									2	
Vertical Cross			√		√					√	√		4	
Alpha Symbol	√		√	√	√								4	
Bob's Geometry			√	√								√	3	
Banks and Ditches	√	√	√			√	√	√				√	7	
A Sphere			√								√		2	
A Cube	√	√	√										2	
A Pyramid	√	√	√										2	
Totals	13	10	10	9	6	5	5	5	3	3	3	3	2	1

Table 6

Magnetism

From the experimental results regarding the importance of magnetic east-west orientation of the geometry comprising 2 parallel lines, it would seem that magnetism is a factor in producing Type 2, 3, and 4 lines. There are no observations indicating that Type 1 lines are affected by magnetism.

These conclusions have been confirmed by repeating the experiments with two parallel source lines after placing them in a Faraday cage to screen out any magnetic effects. For all orientations, the Type 2, 3, and 4 lines are not present

- When both the dowser and the source geometry are in the cage, and
- When only the source geometry is in the cage.

This suggests that magnetism is relevant between the two source lines, and not necessarily between the dowser and the source geometry. Therefore, this discovery supports the theory that the waves causing resonance are emanating from each source line on the paper, as opposed to the image of the 2 lines in the information field, or the brain's model of what is being perceived.

This leads to an unfortunate anomaly, as it has been known for several years that Types 2, 3, and 4 fields are unaffected by screening. For example, it is possible from within a Faraday cage, to detect Type 2 fields from a plant, or transmit mind generated geometric shapes via Type 4 fields to a remote location. However, these irrelevances to screening only apply to single objects, not two objects interacting.

Waves and Phase

The null result from dowsing the geometry that resembles a half sine wave may be a further clue to wave involvement in dowsing geometry. A wave that is a reflection of the half sine wave shape, i.e. the same shape, but 180° out of phase, would produce a null/void interference dowsable pattern. This suggests that the wavelength involved when dowsing this shape may equal the conceptual wave length and amplitude of the source geometry being dowsed. If so, the intent of a dowser generates an associated wave, whose shape, wavelength, phase, and amplitude are determined by the geometry being dowsed.

The above examples relate to dowsing single source objects. The following situations relate to 2 interacting objects.

Interactions, Resonance and Waves

That a resonance peak is obtained is good evidence that dowsing two source objects A & B, such as 2 circles or 2 lines, involves vibrations. In other words, conceptually, when the vibrations perceived to be emitted by each of the two source objects are in phase, resonance occurs. Figure 33 is a general pictorial representation of this standard effect for two objects A and B. When the peaks of the waves emanating from A and B are both superimposed, a larger peak is produced, as in Figure 33a. A half wavelength is used in this simple example, but the same principle applies to other wave forms. Figure 33b illustrates the two waves out of phase, producing a null effect.

Let us make two reasonable postulates:

1. the 2 objects A & B being dowsed are 2 nodal points, and
2. each object is associated with, or is emitting, the same vibrational frequency.

According to standard wave theory, frequency is a function of **wavelength** (λ). As resonance occurs when the wavelengths are superimposed (ie in phase), the optimum separation distance, S_0 , between the two lines is a fraction or an integer (**i**) of a particular wavelength (λ).

$$\text{i.e. } S_0 = i \cdot \lambda. \quad (i)$$

So what is the value of this wavelength? To answer this question, it is instructive to discuss what happens when the two lines are more than 40 mm apart, or the 2 circles are more than 60mm apart. The observations (as in Figures 13 and 23) are that no dowsable fields exist, leading to two possible reasons.

- a) The vibrations are fully out of phase, or
- b) There are no vibrations.

A good clue is that there is only one resonance peak observed whilst the two objects separate. The author has never observed more than one peak, nor is there any partially out of phase effects on separations greater than 40 mm or 60 mm. The only way this could be achieved is if the wave-length (λ) involved was greater than or equal to the maximum separation distance S_{\max} of the two bodies

$$\text{i.e. } \lambda = > S_{\max} \quad (\text{ii})$$

A simple analogy is that it is not possible to obtain a low frequency note on a short organ pipe, or short violin string.

RESONANCE

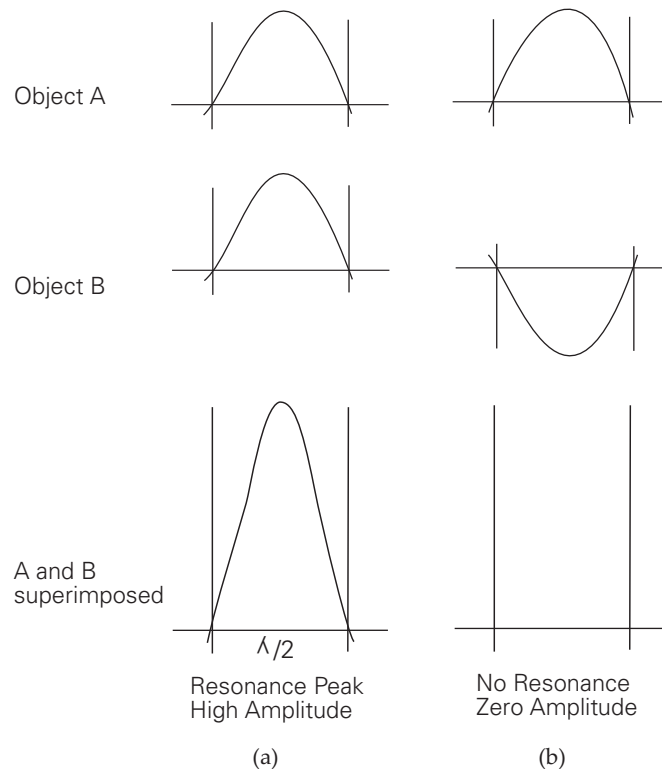


Figure 33

Figure 34 illustrates what would happen if this was not true. In this pictorial example, objects A and B are assumed to be still emitting waves with a wavelength shorter than their maximum separation distance, even though they are at, or have passed, their maximum separation distance. The example in Figure 34 would lead to 3 resonance peaks being detected, which does not tie-up with observations.

Generalising this example; if the associated wavelengths emitted by 2 objects being dowsed, were shorter than the separation distance between the two objects, there would be more than one occasion, as the objects separated, when the waves were in phase, and therefore there would be a sequence of resonance peaks which does not occur.

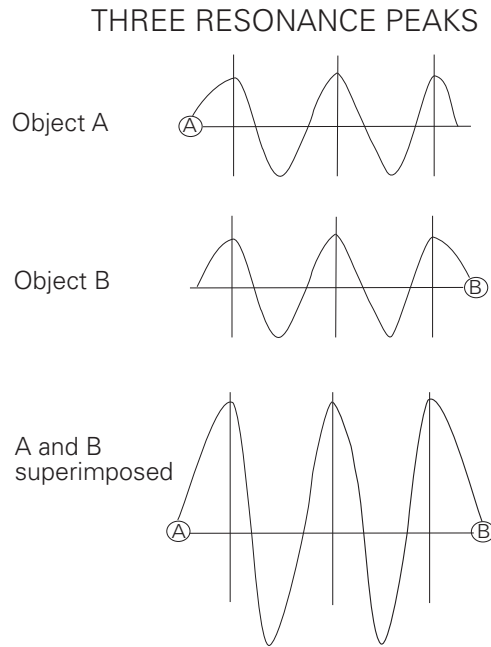


Figure 34

As there is only 1 resonance peak there are no harmonics so mathematically, this is identical to

$$i = 1/2 \quad (\text{iii})$$

Combining formulae (i) and (iii) gives

$$S_0 = \lambda/2 \quad (\text{iv})$$

Combining formulae (ii) and (iv) gives

$$S_{\max} = 2 S_0. \quad (\text{v})$$

This explains the observed 2:1 ratio.

The above analysis eliminates option (a) stated earlier that null results could be due to the waves being out of phase, but supports option (b) that there are no vibrations. In other words, phase is relevant up to S_{\max} , but wavelength is relevant when the separation distances become greater than S_{\max} . This gives a further clue to the mechanism of dowsing and, possibly, why fields seem to stop abruptly and not obey the inverse square law. Great confidence now exists to further this concept to a tentative **set of postulates**:-

1. *The detectable range of a dowsable object is always less than its associated wavelength.*
2. *Two dowsable objects will interact if the distance between them is less than the wavelength of the dowsable field perceived to be associated with those objects.*
3. *There is no perceived interaction between two objects when they are separated by a distance greater than S_{\max} .*
4. *Different source geometries produce different optimum separation distances, S_0 .*

Wave Velocities & Frequencies

Having determined the wavelengths involved, it should now be possible to calculate the associated velocities and frequencies. The standard relationship between wavelength (λ) and frequency (ν) is:-

$$\lambda = c / \nu \quad (\text{where } c \text{ is the wave velocity}) \quad (\text{vi})$$

$$\text{In the case of the 2 lines } S_{\max} = \lambda = 40 \text{ mm} \quad (\text{vii})$$

so

$$c = 0.040 \nu, \text{ in metres per sec.} \quad (\text{viii})$$

$$\text{In the case of the 2 circles } S_{\max} = \lambda = 60 \text{ mm} \quad (\text{ix})$$

so

$$c = 0.060 \nu, \text{ in metres per sec.} \quad (\text{x})$$

To help understand the ramifications of equation (viii), it is helpful to undertake some order of magnitude calculations. Table 7 shows different wave velocities and frequencies that are mathematically correct, assuming the standard wave equation is applicable. The selection of velocities (measured in metres per second) include:- nerve impulses, pedestrian speeds, the uppermost limits of mechanical speeds, 3% and 33% of the velocity of light, the actual velocity of light, and a speed three orders of magnitude greater than the velocity of light.

Velocity of 2 Line Resonance

Equivalent Physical Velocity Description	Velocity c m/sec	Velocity c miles per hour	Frequency ν Hz	Equivalent Physical Frequency Description
Brain Waves - Delta waves	0.04	0.1	1	Sub Audio
Schuman resonance	0.31	0.7	7.8	Sub Audio
Brain Waves - average Alpha waves	0.40	0.9	10	Sub Audio
Brain Waves - Beta waves	0.88	2.0	22	Sub Audio
Running - world record	10.29	23	257	Audio
Nerve Impulses - maximum	100	224	2,500	Audio
Fastest mechanical speeds	100,000	223,700	2,500,000	Medium wave radio
3% speed of light & Leaf Entanglement	1,000,000	2,236,997	25,000,000	VHF radio
33% speed of light	100,000,000	223,699,680	2,500,000,000	Micro waves
Speed of light	300,000,000	671,099,040	7,500,000,000	Micro waves
3 orders of magnitude >speed of light	3,000,000,000	6,710,990,400	75,000,000,000	Micro waves

Table 7

Table 7 suggests the following:

1. For low speed natural phenomena such as nerve impulses, and running, which go up to 100 metres per second, the associated frequencies are equivalent to those within the low audio and sub-audio range. Schuman resonance is included for comparison
2. For velocities of 100,000 metres per second, the associated frequencies are similar to those in the electromagnetic medium wave radio frequency.
3. At 3% and 33% of the speed of light up to the speed of light, the frequencies are analogous to VHF electromagnetic radio and microwave frequencies.

4. At 3 orders of magnitude greater than the speed of light, the frequencies are similar to upper micro wave frequencies.

Which of these orders of magnitude relates to on-site observations and measurements? Although possibly not relevant to dowsing pure geometry, for earth energies, which are normally associated with matter, it is generally accepted that velocities are at the bottom of the range. For example, at Avebury, smaller stones (such as stone 41) have been observed (e.g. by Wessex Dowsters on 4th June 2001 at 11 am) to pulse at a rate of between 60 – 24 times per minute. i.e. 1 – 0.4 times per second.

Similarly, before reaching erroneous conclusions about velocities and frequencies, researchers should be aware that:-

1. Brainwave activity ranges from about 22 Hz for beta waves, via 8-12 Hz for alpha waves, 4-7 Hz for theta waves, and down to 1-3 Hz for delta waves in deep sleep.
2. 7.8 Hz is the Schumann resonance frequency of the Earth's geomagnetic field, and ionosphere, and is the number of times light travels round the Earth in one second.
3. 50 m/sec is an average speed of nerve impulses, but can travel at a rate of between 5 - 100 metres per second.

It is therefore important that dowsters do not interfere with their own experiments, and finish up just measuring their own nervous systems! This concept also has a similarity to the "Uncertainty Principle" which is a facet of quantum physics.

The Way Forward

The following are suggested experiments and theoretical challenges that other researchers may wish to develop.

- 1 Independent research is required to duplicate and substantiate the findings in this paper.
- 2 What are the mathematical transformations that give rise to the observed patterns?
- 3 In particular, why is a cylindrical dowsable field perceived for a two line source? How does the resonance between these 2 lines create and affect the dimensions of the observed cylinder? Why does the length of this cylinder vary from 0 – 3m
 - a) as the lines are separated?
 - b) over the course of a lunar month?

What is the sequence between the mind, the 2 lines, and the Information Field to produce the observed complex pattern?

- 4 If a half sine wave source produces a null effect because the interfering wave emanating from the dowser mimics the geometry of the source, but is 180° out of phase, how could this conceptual mechanism work as the phase or

wavelength would be affected by the varying distance between the 2 nodal points created by the dowser and the source?

- 5 A half sine wave produces a null effect, which is the opposite to a full sine wave which produces a plethora of dowsable patterns: This raises the following queries.
 - a) Why is the dowsing associated with a half sine wave out of phase, but a full sine wave is not?
 - b) Why do no other geometric shapes investigated above give a null effect?
- 6 Does the theoretical explanation for 2-body interaction patterns (e.g. 2 circles) also explain the totally different patterns for single object geometry (e.g. dowsing one circle)?
- 7 When a dowser is observing a single object, such as a circle, is this interaction (i.e. between dowser and source object) the same as the explanation given earlier for 2 circles interacting?
- 8 When a dowser believes he is observing a 2-body interaction (e.g. 2 circles), is this really a 3-body interaction in which the 2 circles are each emitting waves plus waves emitted by the dowser? A similar question applies to observing a single object. In other words, is this an example of the uncertainty principle, with the dowser affecting results, or is the dowser actually creating the effect by becoming a nodal point?
- 9 Are the dowser and the objects being dowsed actively “emitting waves / vibrations” or are they just passive nodes?
- 10 Why are 20mm and 40mm, respectively, the optimum and maximum separation distances for 2 lines? These results seem unusual; dowsing measurements change depending on the time of the day, the day of the lunar month, the month in the year, etc. Are these values universal or personal?
- 11 The above optimum separation distances, S_0 , are for lines and circles. Do other interacting shapes such as two triangles have different values for S_0 ?
- 12 It should be investigated if the divergence angles of some beams are $\arctan 1/137$, or if the similar figure obtained was a coincidence.
- 13 It has been shown that magnetism is a factor in producing certain dowsable lines. Is this just the earth’s magnetic field, or can any magnetism produce the same effect? Can magnetism affect other dowsable results?
- 14 Apart from 2 parallel lines, what other source geometry produces Type 2, 3, and 4 lines that are affected by magnetism?
- 15 It was shown earlier that for Type 2, 3, and 4 fields and magnetism, the interaction between two lines occurred on the source paper. Does this apply only where magnetism is involved, or does it apply in general? Conceptually, are the associated waves perceived to be emanating from each object occur:

- a) On the source paper
 - b) In the information field
 - c) Within the model in the dowser's brain of the perceived dowsing?
- 16 What is the nature of these waves? Are they
- a) Transverse, like water waves, where the variations in the amplitude is 90° to the direction of the wave. (e.g. a "stationary" cork bobbing vertically up and down in water waves).
 - b) Longitudinal, like waves in an organ pipe, where the variations in amplitude are in the direction of the wave.
 - c) Torsional, where the waves twist in a circular motion at right angles to the direction of the wave?

On information dowsing, the indication is obtained that longitudinal waves are the interaction mechanism, with a standing wave created between the 2 source objects that act as nodes. This is supported as the maximum amplitude of the longitudinal waves as measured by dowsing is, as expected, at the centre of 2 equal sized source objects. This requires to be confirmed with different experiments.

- 17 Table 5 contains a range of velocities and frequencies that
- a) Apply if the resonance model adopted for 2-body interaction is correct.
 - b) Are mathematically logical if standard wave theory applies.
- It is necessary to determine experimentally if either or both of the statements are true.

Please contact the author at jeffrey@jeffreykeen.co.uk with any mathematical transformation that provides an explanation for these Dowsing Geometry observations. Alternatively, any relevant experimental results, comments, or suggestions will be appreciated.

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