

Crop Formations: Alton Barnes, UK, 1994

Laboratory Code: KS-02-87

Material: Wheat heads and stems, *Triticum aestivum*

Formations: Two separate formations in the east field at Alton Barnes, UK. Site-*1, complex formation, designated "The Eye" in the 1995 CCCS Calendar, Site-*2 is a circle "key" complex (see attached diagrams from Synthia Ramsby-Andrews).

Sample Information: Samples collected by Synthia Ramsby-Andrews, no dates of formation or collection were submitted. These formations were used for EEG experiments designed by Dr. Gale Ramsby, Dept. of Radiology, University of Connecticut Health Center.

Laboratory Results:

Two entirely independent, plant growth parameters were examined in these two sample sets, one the node lengths, and the second, the seed germination and subsequent seedling development. The node lengths (NI) were determined at the penultimate and the apical nodes. Only data from the apical N4 nodes (least mature tissue) will be presented here. The node data are summarized below, along with the 8-day seedling data obtained from the growth chamber tests. In the case of the statistical analyses the node data from the control plants from both sites were analyzed as one sample set, since they were both from the same field.

It should be pointed out that these same two crop formations were used in the EEG experiment involving a computerized field instrument known as an "Interactive Brainwave Visual Analyzer". The field team consisted of Dr. Gale Ramsby, Cynthia-Ramsby Andrews, Masahiro Kahata and Colin Andrews.

Site *1 Formation:

Sample	Node Length mm			8-day Seedling cm		
	Ave.	sd	N	Ave.	sd	N
Controls	3.67	0.47	15	8.26	2.16	20
B-ring edge	4.54*	0.62	7	5.05*	2.11	20
C-center	4.10	0.53	7	6.17	2.65	20
D-ring	3.64	0.53	10	7.10	2.62	19

Site #2 Formation

Sample	Node Length mm			8-day Seedling cm		
	Ave.	sd	N	Ave.	sd	N
Controls	3.67	0.47	15	8.09	1.62	19
B-ring	3.74	0.38	10	5.57*	1.89	20
C-center	5.53*	0.19	6	5.83*	2.53	19
D-ring	5.17*	1.44	7	5.49*	2.11	19
F-radial lay	5.59*	0.66	7	5.55*	2.27	20

*-P<0.05

Conclusions:

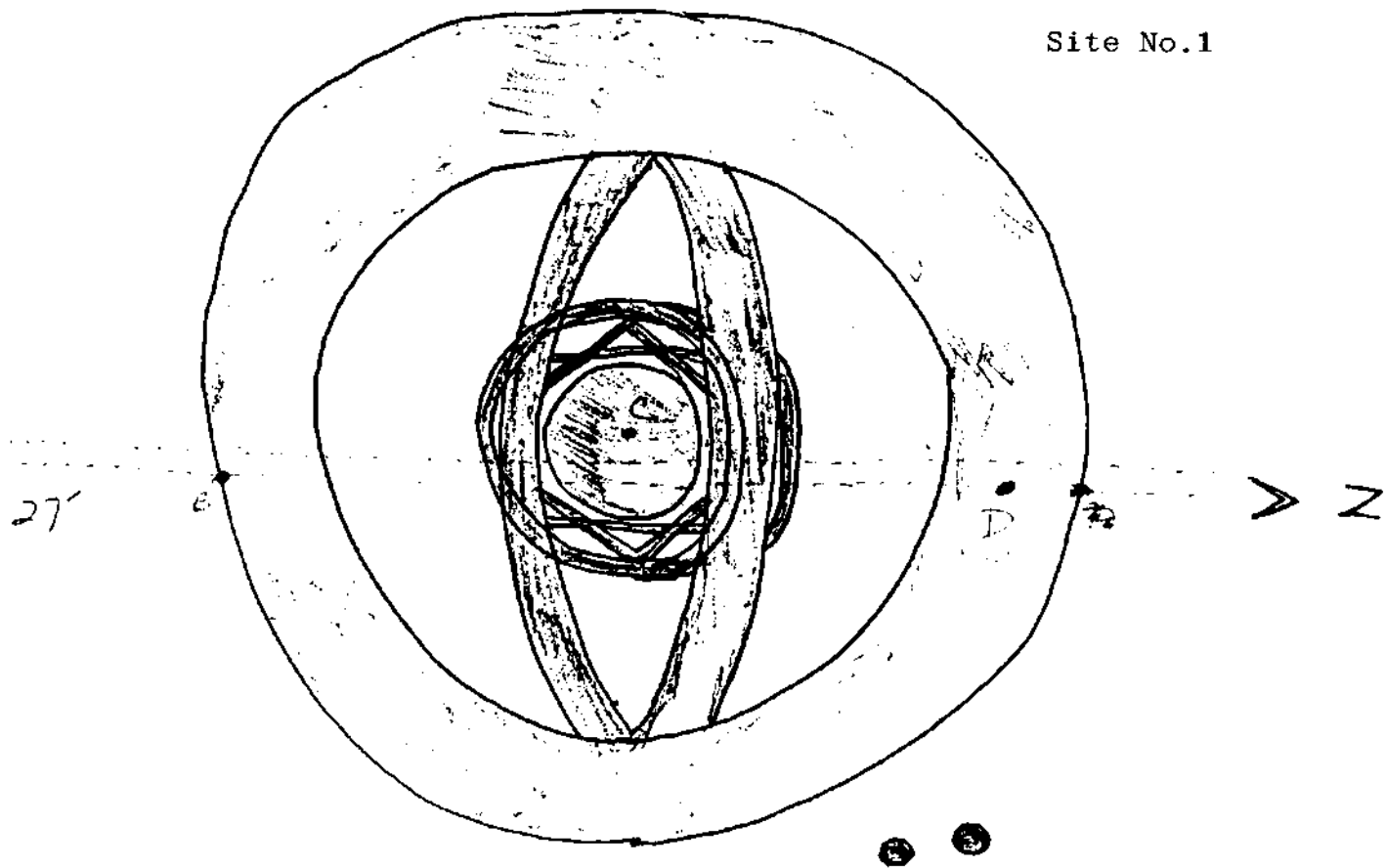
On Sept. 6, 1994, a letter report was sent to Dr. Gale Ramsby, in which the node size data were analyzed. From these results it was quite apparent that both sample sites were in the genuine category (high energy input), although at that time there were reports that Site #2 was a hoax. Since this site had a high percentage of expulsion cavities (none were found in the controls) this clearly placed it as a genuine crop formation listing.

In the above table the seedling growth data simply provide "icing on the cake", so to speak. For example, in most of those samples where the nodes have been significantly expanded the seedling growth has been significantly reduced. The high heat energy inputs, probably microwave in nature (see reports No. 24 and 30, discussing Beers Law) have not only expanded the nodes, but have also caused a pronounced reduction in the viability of the developing seeds on the plants within the formations.

W.C. Levengood
Pinelandia Biophysical Lab.

John A. Burke
Am-Tech. Laboratory

Site No.1



Site No.2

