CROP CIRCLES: BASIC POSTULATES

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The Contents:

1.   Introduction

„Crop Circles" - a term, marking drawings, formed by ensemble bent and put to the land the stalks of the wheats, barley, corns, soybean, reed and others plants.

Distinguish „Crop Circles", appeared by natural way (without direct participation of the human), and „Crop Circles", created by the human.

„Crop Circles", appeared by natural way, differ from „Crop Circles", created human (**1**).

The Persons, improving technology and technology of the creation „Crop Circles", steadily shortens the differences between created by people „Crop Circles" and „Crop Circles", which appear the natural way.

For instance, years ten (**1**) ago, one of the distinguishers of the created human „Crop Circles" was shown dog-leg (the fracture) put to the land the stalks of the plants.

In „Crop Circles", appeared by natural way, the stalks of the plants are drived away and put (**9**) to the land without dog-leg (the fracture).

At our days, in created human „Crop Circles", technically possible stowage of the plants to the land without dog-leg (the fracture) of the stalks (**4, 5**).

The Longing of the human to design of the drawings, to look like of the creations of the nature, it is possible only to greet.

However, good intentions of the people, creating in greater amount „Crop Circles", turn the unjustified consuption of time, power and money on searching for amongst ensemble „Crop Circles" that of them, which appear the natural way.

At our time activity people, creating „Crop Circles", so great that amount, created human„Crop Circles" in over and over again (**10**) exceeds the amount „Crop Circles", appearing natural way.

So, searching for „Crop Circles", appearing natural way, all more remind searching for of the needle in stack the hay.

The Motives and Reasons, stimulating people to improve the technique and technology of the creation „Crop Circles", the known (at least once, creator „Crop Circles") and is described in lot of the works (**4, 9, 10, 17**).

The Created by human, „Crop Circles" are not a riddle of the nature.

The Appearing natural way „Crop Circles" - a riddle of the nature, which humankind tries to solve (explain) during three ages (**2, 8, 9**), but can be and long.

In works (**2**) of the naturalists 17-19 ages are described drawings in „Crop Circles", having form of the ring, circle, spirals, as well as square, surrounded by the ring (**Fig.1.**).

They Are Mentionned and more complex drawings on the form.

In 17-19 ages were absent, typical for our time, motives and reasons, stimulating our contemporary to imitate the nature in creation „Crop Circles".

The Observations of the naturalists 17-19 ages - convincing witness validity of the origin in „Crop Circles" natural way drawing in the form ring, circle, spirals, as well as square, surrounded by the ring (**Fig.1.**).
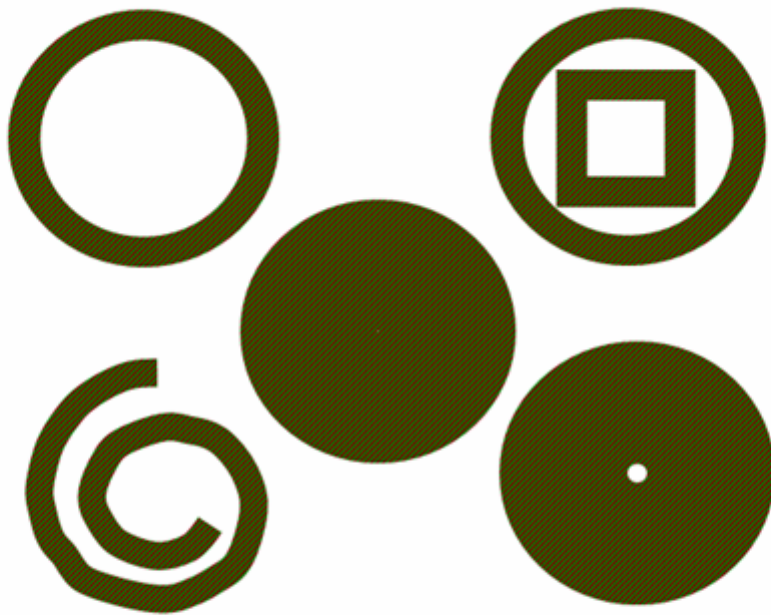
Fig. 1.
In works of the naturalists 17-19 ages are described drawings in „Crop Circles",
having form of the ring, circle, spirals, as well as square, surrounded by the ring.

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2.   The Contents of the explanations of the origin „Crop Circles”.

Exists the number of the explanations (**11, 10, 17**) of the origin „Crop Circles” natural way.
„Crop Circles” appear on border of the section two environment - gaseous (atmosphere) and hard (the mountain sort).
The Contents of the explanations of the origin „Crop Circles” includes:
- the description of the events, which postulates as primary, i.e. such events in surrounding environment (hard or gaseous), which, according to explanation, required for arising „Crop Circles”;
- the description of the composition and interactions of a parts of the basic mechanism of the origin „Crop Circles”.
The Primary events define the composition and interaction of the parts of the basic mechanism, creating „Crop Circles”.
The Explanation of the origin „Crop Circles” perfectly, if it gives the answers to the following questions:
- an events in what from environments (hard or gaseous) are primary (required for arising „Crop Circles”)?
- what composition of the basic mechanism, creating „Crop Circles”?
- what interaction of a parts of the basic mechanism, creating „Crop Circles”?
- what mathematically described basic mechanism and as accounting way to define the size and form drawing in „Crop Circles”?

3.   The Events in gaseous environment (atmosphere), postulates as primary.

In gaseous environment (atmosphere) appear available to visualization, including in places of the appearance „Crop Circles”, all the manner of atmospheric curl and electromagnetic phenomenas (the lightnings, fireballs, plasma and etc), which capable to create in atmosphere annular figures.
Annular drawings in „Crop Circles” (**Fig.1.**), on the form correspond to the flat sections the annular figures, created in gaseous environment (atmosphere) atmospheric curl and electromagnetic phenomenas.
Silently suppose, what is a correspondence to sufficient reason for postulates phenomenas in gaseous ambience (atmosphere) as primary events, required for arising drawing in „Crop Circles”.
In this connection, appeared the direction of the studies, in which as primary events (required for arising „Crop Circles”) postulates the all the manner of atmospheric phenomenas.
In the studies, in which atmospheric phenomenas postulates as primary events, have contributed the significant contribution to solving by mankind of the next secret of the nature - a mechanism of the origin „Crop Circles”.
Accepting events in gaseous environment (atmosphere) as primary, possible as basic mechanism, creating „Crop Circles”, use the mechanisms, designed on base of the beliefs about atmospheric curl (including electromagnetic, termal, chaotic mechanisms).
For instance, in some works as basic mechanism, creating „Crop Circles” natural way, postulates the meteorological phenomenas - an all the manner of air curl - tornado, dusty curl (**16**) and others, generated especial weather condition, difference of the temperature and moisture in different layer of atmosphere, particularity winds and relief to terrain (**11, 15**).
In the other work (**6, 12, 13, 21, 22**) basic mechanism, creating „Crop Circles”, is postulated in the manner of electromagnetic phenomenas in atmosphere (the lightnings, fireballs, plasma and etc.).
In these work is expected that electromagnetic phenomenas in atmosphere create the drawing from the stalks of the plants:
- or way of the electrodynamical influences on the stalks of the plants, bending and putting them to the land;
- or way of the creation in atmosphere of the air curls, which bend the stalks of the plants and put them to the land.
Herewith silently is taken that ability electrodynamical influence to create in fluid and gas environments the annular figures spreads and on environment, formed by ensemble of the plants.
Mechanics of the formation on surfaces of the land the annular and the other figures from plants, at electrodynamical influence on the stalks of the plants, does not open.
In study, acknowledging electromagnetic phenomenas in atmosphere by basic mechanism of the creation „Crop Circles”, is postulated that source of the electromagnetic phenomena:
- or exists primordial in atmosphere in the manner of lightnings, fireball, plasmas and etc;
- or his create in atmosphere by the meteoroid, by the solar wind, by the cosmic ray and by the other astronomical phenomenas;
- or his create physico - a chemical processes, appearing at infiltration of the atmospheric precipitation in deep mountain sorts;
- or he appears when moving, in depths aquifer, the water stream and flow (**5, 6**).

4.   **Value and defect of the studies, postulates atmospheric phenomenas as primary event.**

The Main dignity of the studies, postulates atmospheric phenomenas as primary events, consists in that, that corresponding to atmospheric phenomenas repeatedly observed watchers in places of the appearance „Crop Circles".
The Main defect of the studies, postulates atmospheric phenomenas as primary events, - incompleteness to theories, in which is absent the mathematical description supposed relationship between atmospheric phenomenas and drawing on surfaces of the land.
In study, postulates atmospheric phenomenas as primary events, ability of the basic mechanism, formed from atmospheric phenomenas (the atmospheric curl, electromagnetic phenomenas in atmosphere), create on surfaces of the land drawings is not motivated by drawings, which got by accounting way.
Postulate basic mechanism of the creation „Crop Circles" in the manner of electromagnetic phenomenas in atmosphere or in the manner of meteorological phenomenas, hitherto, coming from description of the basic mechanism, not to manage the accounting way to get the drawings in the manner of ring, circle, spirals, square, surrounded by the ring, as well as in the manner of triangle, polygonal figure, stars and others geometric figures.
The Studies, postulates atmospheric phenomenas as primary events, do not reveal the mechanical engineer of the formation on surfaces of the land annular and the other figures from plants, at contiguity of the air curl with surface, on which sprouts the ensemble of the plants.
Besides, under such approach not reveal mechanism of the stowage stalks plants in several layers, each of which is put toward different from other (**7, 9, 10**).
In relationship with said, explanations, postulates atmospheric phenomenas as primary events, not perfect.
The mentioned defect, sometimes, are used opponents for acknowledgement of the statement about impossibility of the origin „Crop Circles" natural way.

5.   **The Necessities proof to abilities of the basic mechanism to create the drawings in „Crop Circles".**

The Multiple groups of the people successfully create the drawings „Crop Circles" and incomparably people less research the natural processes of the origin „Crop Circles" (**BLT**, **KOSMOPOISK** and others.).
The Convictiom suppressing majority of the researchers „Crop Circles" in that, that atmospheric phenomenas - primary, modest technical equipping and financial possibilities of the researchers, - reason that, that data acceptance about „Crop Circles" is usually limited by measurement physical characteristic on surfaces of the land and observation of the physical phenomenas in atmosphere in places of the appearance „Crop Circles" (**12**).
The Measurement physical characteristic on surfaces of the land and observation of the physical phenomenas in atmosphere, in places of the appearance „Crop Circles", not always sufficient for faultless conclusion of the expert about validity of the origin „Crop Circles" natural way (**12**).
More so, does not manage to install validity of the natural origin „Crop Circles" on photogaph.
Necessary forming motivations by expert natural origin „Crop Circles" are:
- postulates basic mechanism, supposedly capable to create the drawings in „Crop Circles";
- a mathematical description of the basic mechanism, allowing define the accounting way a form drawing;
- a conformity observed drawing with drawing, got by accounting way;
- a conformity of the observed phenomenas with ability of the basic mechanism to create the similar phenomenas.
The Supposed ability postulate basic mechanism to create, mentionned in **17-19** ages, drawings in the form ring, circle, spirals, square, surrounded by the ring, (**Fig.1.**), changes in theoretically proved ability of the basic mechanism to create the mentionned drawings if, with use the mathematical description of the basic mechanism, accounting way are received drawings, having form ring, circle, spirals, square, surrounded by the ring.
The Drawings in the form ring, circle, spirals, square, surrounded by the ring, got by accounting way, with use the mathematical description of the main mechanism, - a necessities proof to abilities postulate basic mechanism to create the natural way drawings in „Crop Circles".

6.   **The Events in hard environment (the mountain sort).**

The Ability of the physical processes in hard environment (the mountain sort) create the annular and the other forms not so demonstrative as in gaseous (atmosphere) to environment.
The Events in hard environment (the mountain sort) hidden from watcher, residing on surfaces of the land.
So, in explanations of the origin „Crop Circles" of event in hard environment (the mountain sort) long time were not considered as primary.
The Russian physicist A.OL'KHOVATOV (**12,17**) has expected that events in hard environment (the mountain sort) play the important role in creation „Crop Circles".

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A.OL'KHOVATOV supposes that „Crop Circles" come up for result of the exchange energy between terrestrial cortex and atmosphere.

However, mechanism of the exchange A.OL'KHOVATOV not reveal.

Usually, study „Crop Circles" consists in checkup and measurement physical characteristic on surfaces of the land and does not be accompanied the study of the processes in mountain sort under „Crop Circles".

However, the well-known that influence of the deep processes in mountain sort, is an event, causing on surfaces of the land change the relief to terrain, landslide, collapses, downfall, earthquakes and others phenomenas.

The Deep processes, under which decay the mountain sorts in bowels of the earth, create electromagnetic and sound phenomenas in the land and in the atmosphere, light and optical phenomenas (**3, 14**).

The electromagnetic, sound and light phenomenas are mentioned by the witness of the origin „Crop Circles" (**11**).

Impossible understand and explain origin „Crop Circles", leaving aside tense-deformed condition of the mountain sorts and processes in them.

The Essential defect of the system postulate, used in earlier mentionned explanations, is concluded in that, that in this system is not enclosed structure and mycrostructure mountain sort, mechanical stresses in mountain sort, and their influence on process of the creation on surfaces of the land „Crop Circles".

7. Abilities, which must possess the basic mechanism.

Considering all aforesaid, the basic mechanism of the origin „Crop Circles" must be constructed, thereby that this mechanism was capable:

creates such influence on ensemble of the plants, under which their stalks, bending without dog-leg (the fracture), lies to the land;

put the stalks of the plants to the land, forming of them, mentionned in **17-19** ages, drawing in the form ring, circle, spirals, square, surrounded by the ring;

put stalks of the plants to land, forming of them drawing in the manner of triangle, polygonal figure, stars and others the geometric figures;

create the laminated stowage of the plants, under which in nearby layer stalks plants are put in different directions.

8. The Composition and Interaction of the parts of the basic mechanism in mountain sort.

Postulation phenomenas in hard environment (the mountain sort) as primary event, in composition of the basic mechanism, supposedly capable to create „Crop Circles", possible include instant appearing in mountain sort mycrocracks, network mycrocanals, which spread to surfaces of the land from cavity mycrocrack, and stream atmospheric air, rushing with high velocity on mycrocanals with surfaces of the land in cavity mycrocrack.

In mountain sort quick change the mechanical stresses can be a reason of the instant origin to cavities mycrocrack.

The Conditions in cavities instant appeared mycrocrack close to condition of the vacuum.

From cavity instant appeared mycrocrack network spreads to surfaces of the land airpermeable mycrocanals.

When crossing the network airpermeable mycrocanals with surface of the land, on surfaces of the land appear the mycrooutfall an mycrocanals.

From unlimited atmospheric space, through appearing the mycrooutfall, on the mycrocanal in the cavity of the mycrocrack the streem of the atmospheric air rushes with the high velocity.

Herewith, in local area superficial layer of the air, adjoining to the mycrooutfal, instant fall the pressure of the air.

The Instant fall of the pressure of the air in local area superficial layer of the air, adjoining to the mycrooutfall, acts upon plant, rising within local area, causing decompression in the meat of the plants, breakup surface shell, bend and stowage stalk plants to the land.

The Joint influence of the local change the pressure of the air, corresponding to ensemble the mycrooutfalls, on ensemble of the plants puts the stalks of the plants in drawing, which outlines repeat the deskside and the sequence of the origin the mycrooutfalls to the network of the mycrocanals on surfaces of the land.

The fall of the pressure of the air in the superficial layer air, adjoining to ensemble the mycrooutfalls, causes arising the air curl on drawing „Crop Circles".

The Action of the basic mechanism in mountain sort, which capable to create „Crop Circles", generates the accompanyinging phenomenas in the manner of air curls and electromagnetic phenomenas in atmosphere on revenge of the origin „Crop Circles".

These are an air curl and electromagnetic phenomenas in atmosphere create the mechanism in atmosphere, action which possible to observe by the naked eyes.

Accessibility of the observation for the mentionned mechanism in the atmosphere masks the action of the basic mechanism in mountain sort, which creates „Crop Circles".

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The Explanations, in which events in mountain sort postulates as primary, translates the meteorological and electromagnetic phenomenas, appearing in the atmosphere above the „Crop Circles", from the category of the postulating phenomenas (the reasons) in category of the effect or the accompanying phenomenas.

Under such approach it manages to create the holistic mechanism, in which events in mountain sort turn out to be to be connected with event in atmosphere on revenge of the origin drawing in „Crop Circles", and in which events in mountain sort capable to create of the atmospheric phenomenas, which observed when arising the „Crop Circles".

9.   The Ability of the basic mechanism in mountain sort, create not only „Crop Circles", but also other natural   phenomenas in depth of the land.

The Basic mechanism, in the manner of forming in mountain sort mycrocrack, from the cavity which the network of the air permeable mycrocanals spreads in the mycrostructure mountain sort, can appear in the terrestrial depths.

Depending on depths of the origin mycrocrack, the phenomenas changes in the mountain sort, caused action of the basic mechanism.

Outwardly different phenomenas can be created, on miscellaneous depth in mountain sort, alike main mechanism in mountain sort.

Other word, on miscellaneous depth in mountain sort can appear the natural phenomenas related with „Crop Circles".

In particular, phenomena „Crop Circles" related phenomenas of the outburst of coal and gas, sandstone and gas, potassium salts and gas in the face (**19**).

Finding the natural phenomenas related with „Crop Circles" increases our beliefs about process, occurring in bowels of the earth.

10.   Basic postulates of the mechanism in mountain sort, capable to create the „Crop Circles".

Geographically place of the appearance majority of the „Crop Circles" gravitate to places of the output on terrestrial surface the pore mountain sorts (the chalk, limestone etc.), which arrays is penetrated by network of the rifts (**Fig.2.**).

The pore structure of the mountain sorts creates the collection of the rifts and the mycrocells.

The Network of the rifts separates the massif of the mountain sorts on monoliths.

The Monoliths of the mountain sort, on which are located the „Crop Circles", consist of the hard components, and from the cavities of the mycrocells.

The Cavities of the mycrocells distributed (regularized or partly regularized) in the hard component of the monolith.

The Cavities of the mycrocells are filled by the air.

The Air (the gas), filling the cavity of the mycrocells, is insulated the hard wall of the cavities and the film of the capillary- disengaged water from the air (the gas), filling the cavities nearby of the mycrocells.

The Rifts in the mountain sort forms of the open network channels, communicating with the nearland stratum of the air on mountain sort and with the aquifer at the deep of the mountain sort.

Openning network channel will add the mountain sort a characteristic to permeability, including the characteristic of water and air permeability.

The Atmospheric precipitation on the open network channels get into bugle sort, supplying the aquifer at the deep mountain sort.

The Level of the water in the aquifer in the mountain sort subject to seasonal, annual and perennial fluctuations, which is caused by change amount atmospheric precipitation, as well as consuption of underground water on watering of the plants, on water-supply the population and on necessities industrial production.

The water level Fluctuation in the aquifer changes the values and sharing the mechanical stresses in the mountain sort, and, hereunder, enlarges or slows origin and velocity of the growing in monolith of the tensile stresses.

Exist other (for instance, change the temperature of the monolith, moon attraction, tectonic processes, moving the mountain sort comparatively star and sun) processes in the mountain sort, which also change the values and sharing the mechanical stresses in in the monolith of the mountain sort, and, hereunder, enlarge or slow origin and velocity of the growing in the monolith of the tensile stresses.
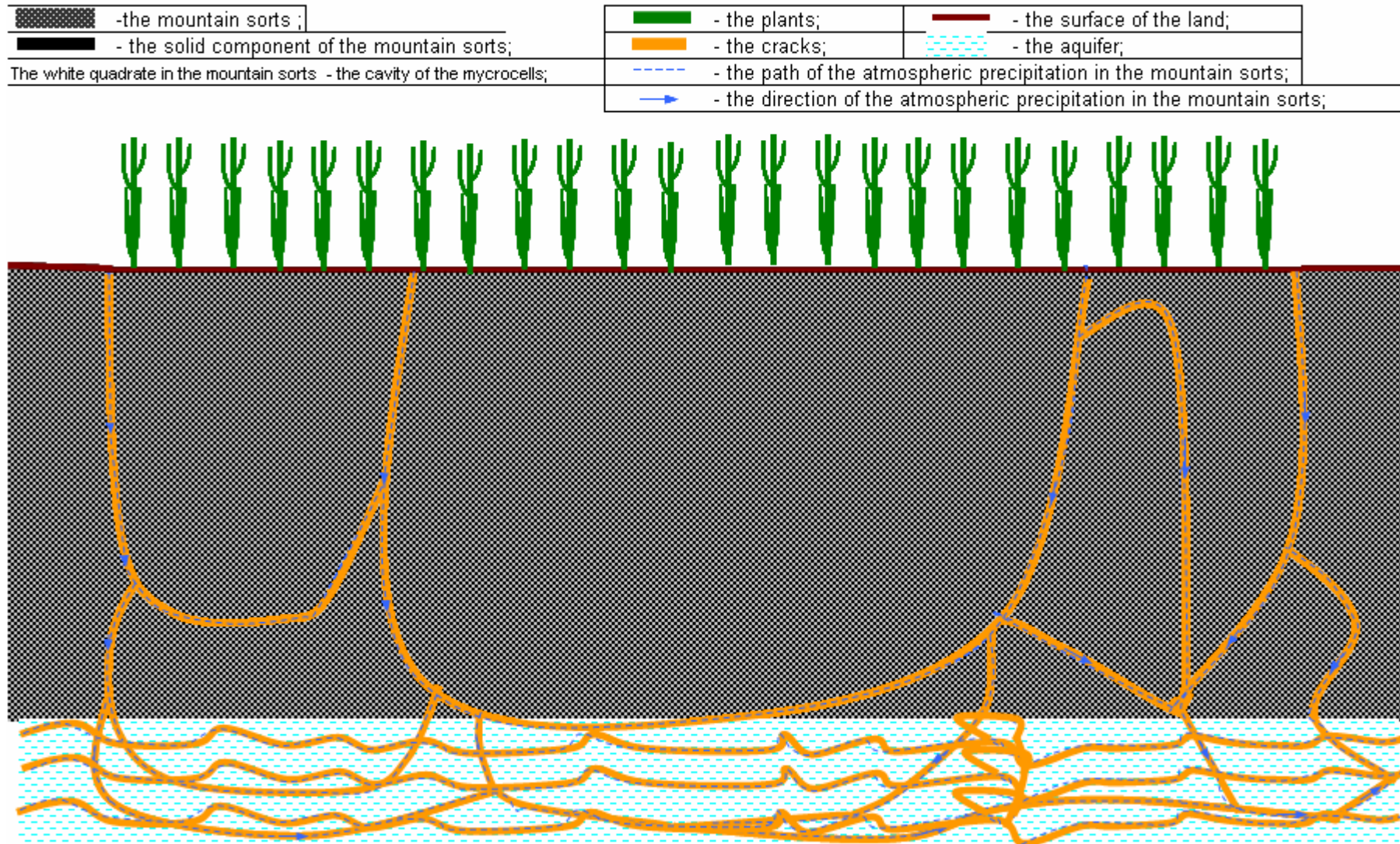
The Influence of the specified processes is on bugle sort capable to create in the monolith of the mountain sort of the tensile stresses, which exceed the limit to toughness of the monolith on tensile.

In mountain sort at excess of the limit to toughness of the monolith on tensile appear the instant destructions of the monolith and quick change the mechanical stresses in the mountain sort.

Quick change the mechanical stresses and instant mycrodestruction in the monolith of the mountain sort generate the electromagnetic radiation of the mountain sort, which capable to create in the atmosphere light and electromagnetic phenomenas (**14**).

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Fig.2.

Plants on surface of the mountain sorts (the chalk, limestone etc.), which arrays is penetrated by network of the rifts.

▓ -the mountain sorts ;	
▬ - the solid component of the mountain sorts;	
The white quadrate in the mountain sorts - the cavity of the mycrocells;	

▬ - the plants;	▬ - the surface of the land;
▬ - the cracks;	░ - the aquifer;
- - - - - - the path of the atmospheric precipitation in the mountain sorts;	
→ - the direction of the atmospheric precipitation in the mountain sorts;	

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Light and electromagnetic phenomenas, created in atmosphere by electromagnetic radiation of the mountain sort, can precede or accompany the appearance „Crop Circles", as well as reveal itself certain time after after arising on mountain sort „Crop Circles".

The Electromagnetic radiation of the mountain sort, appearing under quick change the mechanical stresses and instant mycrodestruction in the monolith of the mountain sort, actuates in the atmosphere objects, responding on change of the electromagnetic field (the mycroparticles, metereoroid, plasmoid, fireballs and others), and promotes their displacement to the „Crop Circles" or from them.

Besides, the electromagnetic radiation of the mountain sort capable to change magnetization of the ground in „Crop Circles" and around them, break work measuring and others the instrument.

In monolith of the mountain sort, at excess of the limit to toughness of the monolith on tensile, instant appears the cavity of the mycrocracks (mycrodestruction), condition in which close to condition of the vacuum (**Fig.3.**).

If, after instant arising the cavities of the mycrocrack, in monolith of the stresses of the tensile exceed the stresses of the monolith on toughness, that the cavity of the mycrocrack will dilate to that times while the sresses in monolith will not become limit less to toughness of the monolith on the tensile.

Under mycrodestruction of the monolith, the instant origin and the value to differences of the pressures in the cavity of the mycrocrack (the vacuum) and nearby (with the mycrocracks) mycrocells (the pressure is or more atmospheric) can turn out to be to be sufficient for destruction (the breakdown) of the wall (the film capillary-disengaged water), separating the cavities of the mycrocrack and nearby mycrocells with her.

After destruction (the breakdown) of the wall (the film capillary- disengaged water), separating the cavities mycrocrack and mycrocells, the pressure of the air in cavities of the mycrocell instant decreases before value, meeting the terms vacuum in the cavities of the mycrocrack.

Herewith instant appears the difference of the pressures in the cavity of the mentioned mycrocell and another, nearby, with mentioned, the mycrocell.

If the instant origin and the value to this differences of the pressures turn out to be to be sufficient for destruction (the breakdown) of the wall (the film capillary- disengaged water), separating cavities these mycrocells, that pressure of the air (the gas) in cavities other mycrocell instant decreases before the value meeting the terms of the vacuum.

The Direction of the spreading of the destruction (the breakdown) of the wall (the film capillary- disengaged water), separating mycrocells, changes in accordance with change to space characteristic of the mycrostructure of the monolith of the mountain sort.

The Particularities of the mycrostructure and of other physical characteristic of the monolith of the mountain sort are formed when forming the monolith of the mountain sort in ancient sea and following displacement in bowels of the earth.

The Described process of the spreading the destruction (the breakdown) wall (the film capillary- disengaged water), separating of the mycrocells, creates in the monolith of the mountain sort the airpermeability network 0f the mycrocanals.

The airpermeability network of the mycrocanals communicates with the cavity of the mycrocrack and with near land stratum of the air (atmosphere) on monolith of the mountain sort.

The stream of the atmospheric air from the near land stratum of the air, through, instant openning on surfaces of the land, the mycrooutfalls of the airpermeability network of the mycrocanals, with high velocity rush on the airpermeability network of the mycrocanals in the cavity of the mycrocrack.

The Pressure of the air in the near land stratum of the air, on, instant openning on surfaces of the land, the mycrooutfalls of the airpermeability network of the mycrocanals, instant greatly decreases (falls).

Herewith, instant appears the essential difference (the jump) between pressure in the near land stratum of the air (on instant opened on surfaces of the land the mycrooutfalls of the airpermeability network of the mycrocanals) and pressure water solution inwardly fabric of the stalks of the plants, rising on surfaces of the land on monolith of the mountain sort.
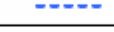
The Instant jump of the pressure, appearing on thick external shell of the plants, separating water solutions (juice) of the plants from external atmosphere, sprains (softens) and breaks the shells of the plants.
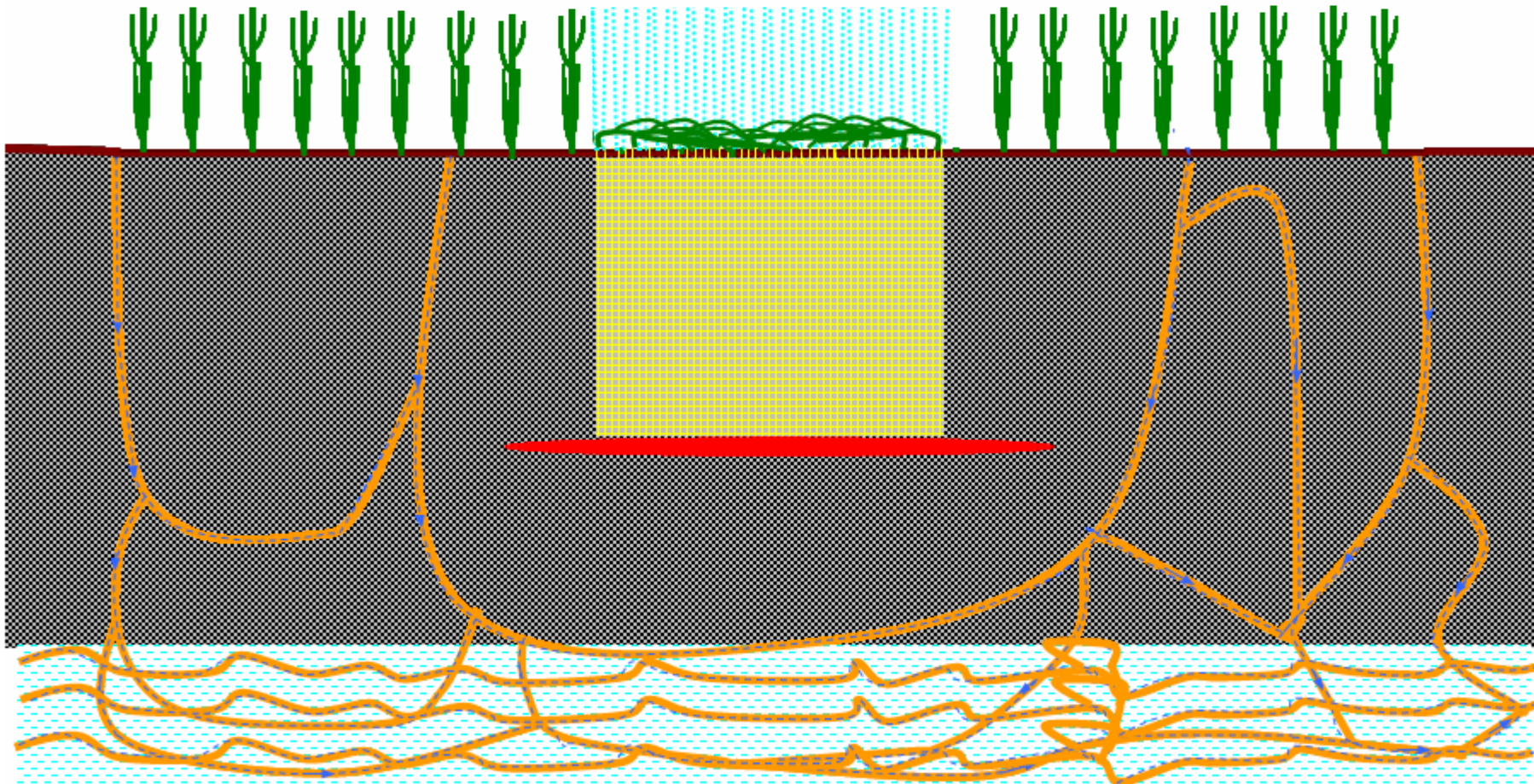
The Sprain and breakup external shell plants decompression water solution is accompanied under the instant jump of the pressure on the internal fabric plants, which softens and enlarges the volume of the internal fabric plants, creates in themof the cavitation phenomenas.

The stream of the atmospheric air, spreading with high velocity on the airpermeability network of the mycrocanals, wrest from wall of the hard mycroparticles.

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Fig.3

The stalks of the plants, bent and put to the land streem atmospheric air, form the drawing of the „Crop Circles".

- the airpermeability network of the mycrocanals;	-the stream of the air;	- the mycrooutfall ;
-the mountain sorts;	- the plants;	- the surface of the land;
- the solid component of the mountain sorts;	- the cracks;	- the aquifer;
The white quadrate in the mountain sorts - the cavity of the mycrocells;	- the path of the atmospheric precipitation in the mountain sorts;	
- the cavity of the mycrocrack;	- the direction of the atmospheric precipitation in the mountain sorts;	

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The Take-off hard mycroparticles and slide them with high velocity along wall of the mycrocanals, as well as passing with high velocity the air stream along of the wall mycrocanals electrify and warm the walls an mycrocanals.

Electrifying of the enormous internal surface wall to networkof the mycrocanals creates in monolith of the mountain sort and in his vicinities the electromagnetic radiation, complementing earlier appeared electromagnetic radiation (when change the mechanical stresses and under the mycrodestructure in the monolith of the mountain sort).

The Heating to the enormous internal surface wall of the network of the mycrocanals raises the temperature of the monolith of the mountain sort, as a whole, and surfaces of the land, in particular.

Instant appearing in the mycrooutfall, directed in deep of the land, the speediest streem of the atmospheric air, instant lowerring pressure of the air on surfaces nearest to stalks, softens the stalk fabrics, bend and consecutively puts the stalk to the land.

The Direction and sequence of the stowage stalks correspond to the sequences of the origin and spreading the mycrooutfall on surfaces of the land. The stalks of the plants, bent and put to the land streem atmospheric air, form the drawing of the „Crop Circles".

The Drawing of the „Crop Circles", formed bent and put to the land the stalks of the plants, corresponds to the desksides of the location and the sequences of the origin on surfaces of the land of the mycrooutfall of the airpermeability network of the mycrocanals.

The Outflow in the deep of the land of the ensemble streams air forms in the near land stratum of the air on monolith of the mountain sort of the air curl. The Air curl disappears with cessation of the outflow stream air in the deep of the land.

11.   System of the equations for calculation of the sizes and the forms drawings, created on surfaces of the land by basic mechanism in mountain sort.

The Mathematical description of the basic mechanism in mountain sort, creating on surfaces of the land „Crop Circles", and calculation drawing are realized in work (**18,19,20**).

Taking into consideration work (**18,19,20**), possible system of the equations, describing of the network of the mycrocanals, in monolith of the mountain sort, writes as:

$$\nu_s = \mathrm{Int}[(\mathbf{1\text{-}1/\zeta})^s \bullet (N_{zm}/\boldsymbol{\zeta})], \text{ where } \boldsymbol{\zeta>1,\ z \leq s\ ,\ s = 0,1,2,3,\ \ldots,\ \ N_{zm} \leq N_{01};}$$

$$\mathbf{R}_{\nu s} = (\boldsymbol{\gamma} \bullet D_f) \bullet [(\nu_s/\boldsymbol{\varphi}_f)^{1/3}];$$

$$\mathbf{x}_{(s+1)} = \mathbf{x}_s + (-1)^s \bullet \mathbf{R}_{\nu s} \bullet \cos(\boldsymbol{\varphi_0 + \varphi_1 + \varphi_2 + \ldots + \varphi_s}) \bullet \cos(\boldsymbol{\beta_s});$$

$$\mathbf{y}_{(s+1)} = \mathbf{y}_s + (-1)^s \bullet \mathbf{R}_{\nu s} \bullet \sin(\boldsymbol{\varphi_0 + \varphi_1 + \varphi_2 + \ldots + \varphi_s}) \bullet \cos(\boldsymbol{\beta_s});$$

$$\mathbf{z}_{(s+1)} = \mathbf{z}_s + \mathbf{R}_{\nu s} \bullet \sin(\boldsymbol{\beta_s});$$

$$\mathbf{n}_i = \sum_{s=0}^{i} \nu_s;$$

$$\mathbf{N_h}^* \leq (N_{zm} - \mathbf{n}_i) < 2 \bullet \mathbf{N_h}^*;$$

где

$$(\mathbf{x}_{(s+1)})^2 + (\mathbf{y}_{(s+1)})^2 \geq (\boldsymbol{\rho}_0)^2 \text{ при } (\mathbf{-z}_0) \leq \mathbf{z}_{(s+1)} \leq (\mathbf{z}_0)\ ;$$

$$\boldsymbol{\varphi_i} = \boldsymbol{\varphi_{00}(i)} \bullet \chi_{\varphi i}\ ,\ (i=1,2,3,\ \cdots,\ s)\ ;$$

$\mathrm{Int}[(\mathbf{1\text{-}1/\zeta})^s \bullet (N_{zm}/\boldsymbol{\zeta})]$ – rounds a number $([(\mathbf{1\text{-}1/\zeta})^s \bullet (N_{zm}/\boldsymbol{\zeta})])$ down to nearest integer;

$\mathbf{RAND_{\varphi}(i)}$ – retuns a random number greater than or equal to 0 and less than 1, evenly distributed (changes or recalculation);

$$\boldsymbol{\beta_i} = \boldsymbol{\beta_{00}(i)} \bullet \chi_{\beta i}\ ,\ (i=1,2,3,\ \cdots,\ s);$$

$$\chi_{\varphi i} = \begin{cases} \textbf{1,} \text{ in the event of ranked distribution ensemble cavities of the mycrocells in monolith of} \\ \quad \text{the mountain sort;} \\ \\ \textbf{(1-2·RAND}_{\varphi}\textbf{(i))} \textbf{,} \ \textbf{(}_{i=1,2,3, \dots, s}\textbf{)}, \text{ in the event of partly ranked distribution ensemble} \\ \quad\quad\quad\quad\quad\quad\quad\quad \text{cavities of the mycrocells in monolith of the mountain sort.} \end{cases}$$

$$\chi_{\beta i} = \begin{cases} \textbf{1,} \text{ in the event of ranked distribution ensemble cavities of the mycrocells in monolith of} \\ \quad \text{the mountain sort;} \\ \\ \textbf{(1-2·RAND}_{\beta}\textbf{(i))} \textbf{,} \ \textbf{(}_{i=1,2,3, \dots, s}\textbf{)}, \text{ in the event of partly ranked distribution ensemble} \\ \quad\quad\quad\quad\quad\quad\quad\quad \text{cavities of the mycrocells in monolith of the mountain sort.} \end{cases}$$

$\varphi_f = \varphi - \varphi_{\tau}$ – porosity of the monolith (the attitude of the volume of the pore space of the monolith to volume of the whole monolith);

D_f – an average size of the microcells in monolith;

γ – factor of the formatting the spreading breakdown in space;

$\textbf{RAND}_{\beta}\textbf{(i)}$ – retuns a random number greater than or equal to 0 and less than 1, evenly distributed (changes or recalculation);

N_{zm} – potential (the natural number or zero) i-ouch node point breakdown, z-number of the cycle, under which breakdown spreads on i- ouch mycrocells, which the centre complies with i-ouch node point, m- number i-ouch mycrocells in z- ohm cycle (for univariate path z=0);

N_h^{*} – critical importance (the natural number or zero) of the potential, such that at value of the potential (N_{zm}) smaller, than specified critical importance, spreading breakdown from microcells, characterized by potential (N_{zm}), impossible and mycroduct from specified mycrocells in nearby mycrocells does not appear;

x_0 , y_0 , z_0 – cartesian orthogonal of the coordinate by initial especial the node point, considered univariate area to paths breakdown, in monolith;

$x_{(s+1)}$, $y_{(s+1)}$, $z_{(s+1)}$ – a cartesian orthogonal of the coordinate (s+1) - ouch especial the node point to paths breakdown in monolith;

ρ_0 – a radius of the mycrocrack;

(z_0), $(-z_0)$ – most and the least coordinate to surfaces (the borders) of the mycrocack on axis z.

The System of the equations allows to define the unknown functions $x_{(s+1)}$, $y_{(s+1)}$, $z_{(s+1)}$.

In system of the equations the independent parameter:

$$\zeta \, , N_{zm} \, , D_f, \gamma, \, \varphi_f, \, x_0, \, y_0, \, z_0, \, \varphi_0, \, \varphi_{00}(i), \, \beta_0, \, \beta_{00}(i), \, \rho_0, \, N_h^{*}.$$

The Decision of the specified system of the equations allows to define the size and deskside to network of the mycrocanals in monolith of the mountain sort.

The Parameters x_0 , y_0 , z_0 are a coordinate of the point (of the source mycrocells) on surfaces of the source mycrocrack.

The Parameters φ_0 , β_0 are a coordinate corners in source point with coordinate x_0 , y_0 , z_0.

The Parameters ζ , $D_f, \gamma, \, \varphi_f, \, N_h^{*}$, $\varphi_{00}(i), \, \beta_{00}(i)$ characterize the characteristic of the monolith of the mountain sort.

The Potential N_{zm} characterizes the characteristic instant forming source mycrocrack to create of the mycrocanal in monolith of the mountain sort. The Potential N_{zm} is a function of the value and velocities of the change the mechanical stresses in monolith of the mountain sort, which break his mycrostructure, creating of the source mycrocrack.

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Fig. 4.
By the accounting way are received drawings, having form ring, circle, spirals, square, which is surrounded by the ring. This form of the drawing was mentioned in 17-19 ages.
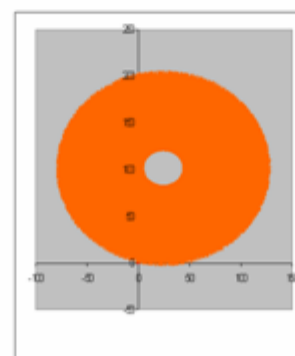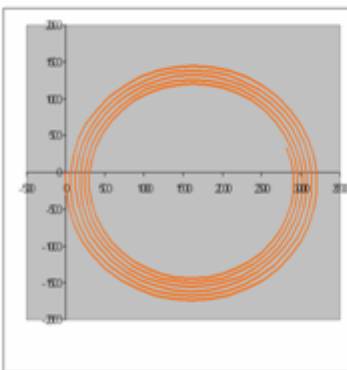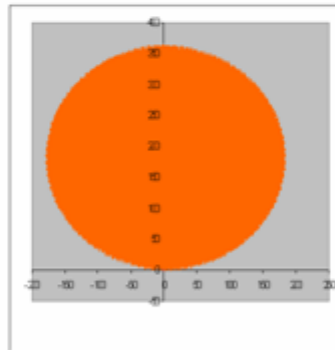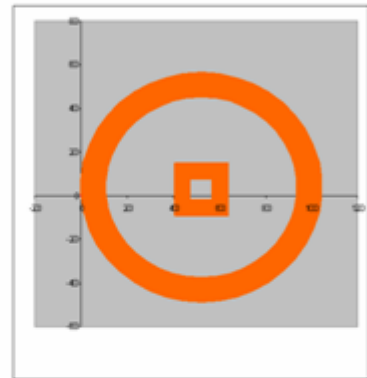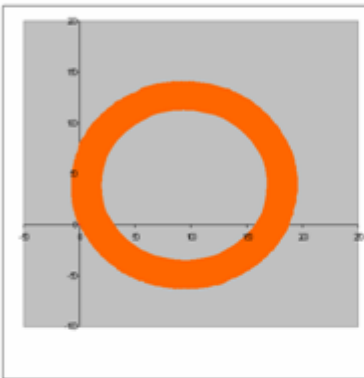
Fig. 5.
By the accounting way are received drawings, consisting of crooked laying one on other, thereby that nearby curves have a different direction.
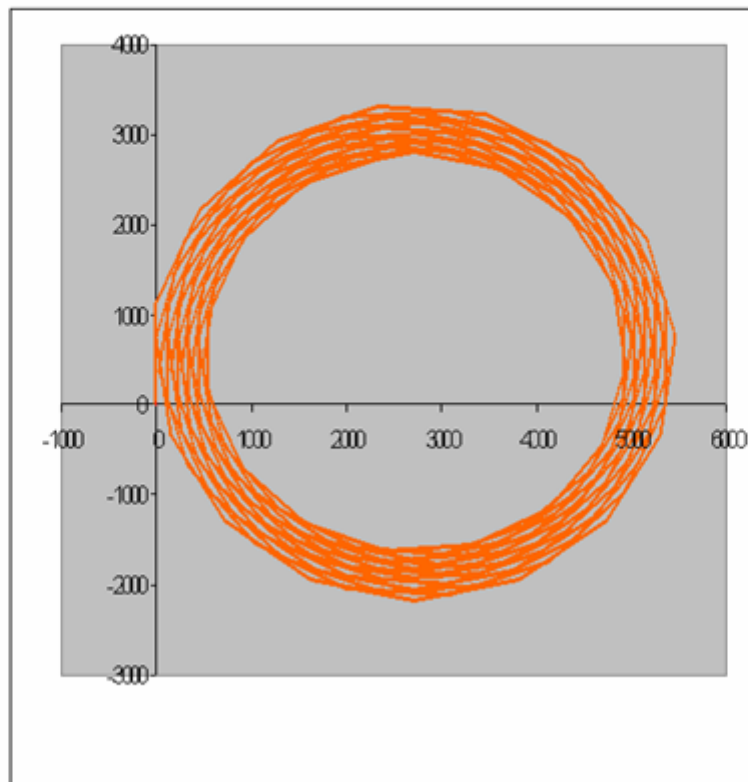
Fig. 6.
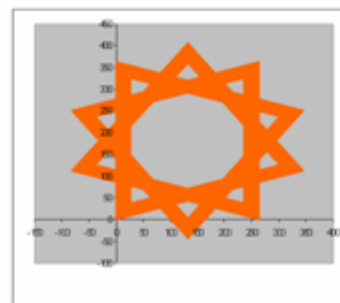By the accounting way are received drawings, having form of the triangle, square, polygonal figure, stars.
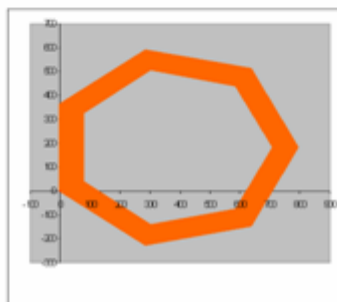

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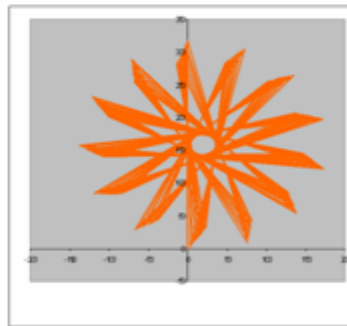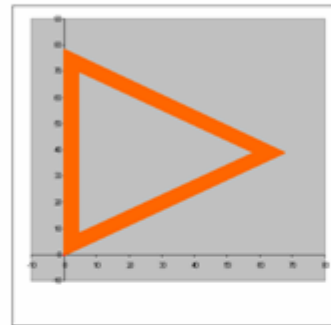(Solodovņika Nataļja)
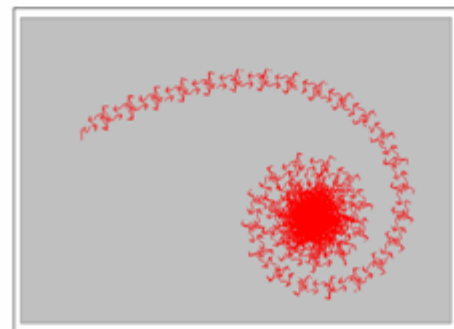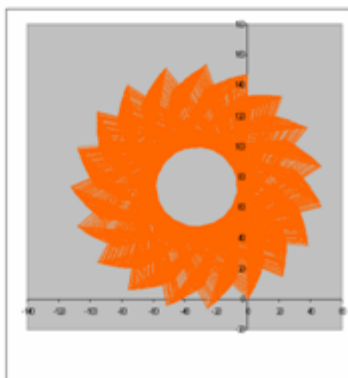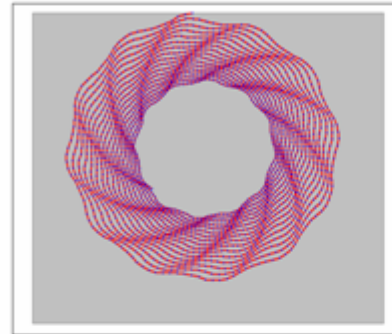«CROP CIRCLES: BASIC POSTULATES».

Fig. 7.
By the accounting way are received drawings, having form of the square, "three-dimensional" spirals, service mark with letter H in the centre, "three-dimensional" stars and "galactic" spirals

The Specified system of the equations is used for the numerical calculation of the sizes and configuration of the figures, formed on surfaces of the land by the mycroutfall of the network of the mycrocanals, appeared between mycrocrack in monolith of the mountain sort and atmosphere.

The Accounting way are received drawings in „Crop Circles", having form ring, circle, spirals, square, which is surrounded by the ring (**Fig.4.**).

The Form got calculation drawing is befitted form drawing, mentionned in **17-19** ages.

Consequently, accounting way is shown that basic mechanism in mountain sort, described by said system of the equations, capable to create on surfaces of the land drawings, having form drawing mentionned in **17-19** ages.

Moreover, by theaccounting way are received drawings, consisting of crooked laying one on other (**Fig.5.**), thereby that nearby curves have a different direction.

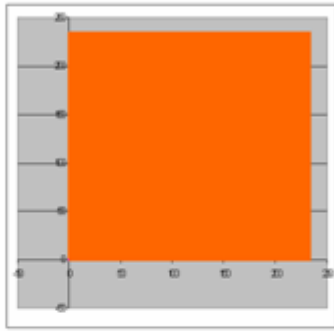By the accounting way are received drawings, having form of the triangle, square, polygonal figure, stars (**Fig.6.**).

By the accounting way are received drawings, having form of the square, "three-dimensional" spirals, service mark with letter **H** in the centre, "three-dimensional" stars and "galactic" spirals (**Fig.7.**).

12. The Basic mechanism in mountain sort- variant of the natural computer.

The System of the equations, used at calculation of the sizes and the forms drawing, appearing in „Crop Circles" such a that under corresponding to task parameter, characterizing characteristic of the monolith of the mountain sort, can be received drawings, having practically any one of published the forms. This pertains both to drawing of the natural origin, and to drawing created person.

All, that human can picture, by bending and putting on surface of the land of the stalks of the plants, nature able picture also.

The Basic mechanism in mountain sort, consisting of instant appearing in mountain sort of the mycrocrack, network of the airpermeabilite mycrocanals, which spread to surfaces of the land from cavity of the mycrocrack, and from the stream of the atmospheric air, rushing with high velocity from the surfaces of the land in the cavity of the microcrack on the microcanals, presents itself variant of the natural computer, which creates on the field of the wheat, barley, corns, soybean, reed and the other plants drawings from, bent and put to the land, stalks.

In this computer the mechanical stresses in mountain sort and the instant appearing cavities of the mycrocrack form the power supply unit, the network of the airpermeabilite mycrocanals, on which races the stream air, forms the processor, the mycrooutfalls, the stalks of the plants and the fall of the pressure of the atmospheric air near of the mycrooutfalls form the monitor of the natural computer.

The Program for such computer nature created the millions of the years.

The Adjusting of the parameters in the program of the computer, the nature changes on our eye, by the changing hereunder form and sizes drawing in „Crop Circles".

Change of the adjusting parameter, contributed by the nature in the program, is caused by the changes to the surrounding environment:
- a global warming;
- an increase the consuption of underground water on watering, on water-supply of the population and industry;
- by the tehnogenic contamination of the underground water;
- a change to the technologies of the cultivating and processing of the farmlands;
- an increase the load on mountain sorts in connection with intensive construction industrial and residential of the buildings, laying of the roads;
- an increase to intensities of the moving the transport.

On principle of the action computer device, created by the humanity, closer whole to natural computer are found all the manner of pneumatic and jet controlling systems (**23**), created in past age.

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