New approaches for exploring cult buildings: to the issue of introducing energy assessments into a comprehensive research method

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Abstract. This paper deals with the subject of new methods in the study of objects of cult purposes. In author’s opinion data, collected from natural, humanitarian and technical sciences, makes possible introducing additional research parameters into historical research. Integrated approach used in the study of monuments of the past takes into account cartographic, topographical, landscape and other aspects, but ignores their energy impact on the environment. Author suggests using data on energy impact of buildings along with general criterions for some particular historical and cultural studies.

1. Introduction
Heinrich Schliemann was the first archeologist who used a comprehensive approach in archaeological researches. He introduced preliminary analysis of researched place, based on literary works, kept till our time. Thus, on the basis of the text of Homer’s "Iliad" he was able to define the location of Troy and the Minoan palace in Crete. Nowadays new receptions and methods, that sounded fantastical even a decade ago, are used by science. Satellite archeology can be an example of similar research innovations [1]. Recently, with its help a number of considerable discoveries were made, including those made on the territory, which was previously explored before with a help of traditional receptions and technologies. Using it for the last decade, researchers found a new unknown civilization on the border of modern Brazil and Bolivia, and to archeologists, working in Egypt, to find whole city buried under desert sands. In Central Asia aerial photography allowed to find ancient irrigation canals, fortresses and cities, covered by sands. Archeology keeps up to date and implements satellite archeology in an integrated approach for studying megalithic heritage, thereby confirms an aspiration to cross-disciplinary approach in historical researches [2]. However, offered aspects, which require research attention (cartographic, topographical, landscape, etc.), ignore energy parameters of a subject of scientific researches.

2. Results and Discussion
The objective of the research is to reveal patterns in location of cult buildings. According to author taking into account new achievements in natural and humanitarian sciences it is possible to use energy estimates (parameters) in their study. This research is intended to prove the necessity of inclusion of energy parameters in an integrated approach of the analysis of historical monuments, that will expand our ideas of their nature and functionality.

In his work "Symmetry of crystals", which became crystallography classics, academician E.S. Fedorov wrote: «Today the scientific knowledge does not represent separate independent studies, deprived of connection with each another. On the contrary, different areas of science are connected with each other by numerous and tangled threads, and success of one almost always significantly depends on achievements in others…» [3]. Thus, for combination of all known properties and
parameters of the object of the research, it is necessary to find the "thread", connecting each piece of the mosaic into unite, whole picture, satisfying all scientific directions.

On the basis of satellite data author revealed the known pattern in the structure of objects of cult purpose (further O.C.P.) across huge territory of the ancient cultural centers of Eurasia, the Middle East and South America [4]. Human settlements and primarily O.C.P. were purposefully embedded into surrounding hydrocultural space, at the same time river bends acted as key location. The choice of the place of construction of O.C.P. was not accidental as river beds acted as the natural channels of energy influence, transmitting energy of the flowing water in a meander space [5]. For purpose of additional energy storage of water flows new manufactured reservoirs were built, forming new focal points of natural energy storage, serving as a kind of "energy traps" like artifact lakes [6].

The revealed patterns of structure of O.C.P. and construction of special artifact buildings for natural energy focusing and accumulation allow to consider buildings, located in these places, as energy objects of cult purposes (further – E.O.C.P.). In author’s opinion confirmation of this pattern on purpose of E.O.C.P. was obtained by the study of pyramid of Cheops by scientists of the St. Petersburg University IMTO and the Laser center of Hanover. Result of conducted researches made it clear that the well-known pyramid can concentrate electromagnetic energy in itself due to its form, sizes and material. Calculations specify that in a resonant mode the pyramid is capable to concentrate electromagnetic energy in its internal chambers and in space under its base, where the third chamber is located. Computational modeling evaluated that radio waves within a range from 200 to 600 meters will be resonant for the pyramid [7].

Indeed, a detailed examination of pyramids’ location (figure 1) shows that these buildings are located on vast sea cape (a bend of the Mediterranean Sea), and place of construction corresponds to the focal point of energy concentration of the Mediterranean Sea in Fig. 1 corresponds to sector 1. The location of the pyramids of Djoser, Userkaf and Teti in Fig. 1 sector 2, built before the pyramid of Giza, may correspond to the previous focal point of the lower level of the Mediterranean Sea, which nowadays is confirmed by archaeological researches [8].

![Figure 1](image)

**Figure 1.** Cape-«bend» of the Mediterranean Sea. Area 1 corresponds to the pyramids of Giza. Area 2 corresponds to the pyramid of Djoser

Thus, it is possible to consider as a confirmed fact that the pyramid is E.O.C.P. as in terms of pattern of its position in the focus of collecting energy of the sea, and from a point of theoretical calculation of electromagnetic energy concentration.

Russian scientists repeatedly conducted researches on energy evaluation of cult buildings and their influence on the human beings [9]. It was found that some structures (Throne) normalize physiological state of a human body, while others (Tomb) cause an activity state. The Labyrinth structure caused the
state of euphoria in most members of a research expedition. The general state of health of focus group improved in 20 days both in psychoemotional state and in physiological indicators of health [10]. At the same time, it was revealed that many dolmens of the Caucasus are located on a watershed. The flowing underground water created energy in rocks, that was confirmed by a difference of potentials between different sides of dolmens. A big charge accumulation in the form of difference of potentials leads to energy release, that is the discharging in the place of a mountain break, leading to dolmen charging [11]. Thus, dolmens can be also attributed to energy objects of cult purpose. Further studying of megaliths of the Southern Russia showed that the majority of ancient buildings are made of rocks with high content of quartz, which has piezoelectric effect, so influencing electromagnetic field’s voltage around this O.C.P. The result of experiments near megaliths was revelation of weak, but quite registered electromagnetic and acoustic radiation. Therefore, in our opinion, these monuments can also be attributed to the category of E.O.C.P.

The acoustic researches at underground megalithic sanctuary of Hypogeum (Malta), conducted by doctor Ian Cook from the University of California, showed that using a frequency of 110 Hz, which corresponds to resonance frequency in Chamber of the Oracle (the second level of the Hypogeum), results in a sharp shift of activity patterns of brains’ prefrontal cortex, leading to temporary change of brain domination, from left-side to right-side. Respectively, using sound of a particular frequency and amplitude, lead to perception change of surrounding reality of the person, who was at a sanctuary [12]. Therefore, the Hypogeum (Hal-Saflieni), as well as the Ancient Egyptian pyramids and dolmens are attributed to energy objects.

Let's note that in electromagnetic neurology works the effect of improving psychoemotional state and changes in the perception of consciousness under the influence of an electromagnetic field is revealed and proved with arguments. Special attention should be paid to researches of a brain state after impact of electromagnetic radiation (in the form of ultra-high and microwave frequencies) on it [13]. For better understanding of the effect of electromagnetic radiation impact on person the author suggests to use the concept of «insight», understanding it not only as traditional foresight (insight), but also as deep personal transformation, associated with general improvement of cognitive functions of the psyche. As the result a person acquires superconsciousness, that is «the ability to see a situation in multidimensional space, in space and time at once» [14]. Let's note that "insight" is used to characterize super abilities of orthodox monks [15].

3. Conclusion
Thus, in our opinion, the existing methodology of an integrated approach for cult buildings studying is not complete without an object’s energy component, its influence on electromagnetic fields and on the person’s consciousness. Therefore, introduction of an energy component when studying cult buildings will not only allow to expand research opportunities, but also provide new data on unknown abilities of human’s body and a brain.

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