A GEOMYTHOLOGICAL APPROACH OF THE POSEIDON’S BIRTH.

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ABSTRACT

The Argon Field (= πεδίο = pedion, in greek) is a small plain in the north part of the much larger Tripolis plain of Central Peloponnisos (Greece). It extends west of Mountain Artemision, which is dedicated to Goddess Artemis (Diana), between Sajas village and that of Nestani, at the province of Mantinia. The whole area of Mantinia is well-known since the prehistoric times and, as it is reported by Pausanias, it is mentioned in Greek Mythology.

Pausanias (Arcadica, § 7-8) mentions – among others – the following:

The word “argon” means “slow cultivation”, so that “Argon field” means a field of slow cultivation because of occasional flooding during wintertime, caused by water coming from the surrounding mountains and the karstic springs flowing from the margins, consisting mainly of multifolded cretaceous limestones (Pindos geotectonic unit). The Argon field would have probably turned into a lake, if the water had not been drained through a ground rift. In this case, the rift is apparently the cave – sinkhole of Nestani, which is located at the lowest topographic point of the whole field. After a few days (based on modern tracing experiments) the water reappears from this sinkhole in a submarine system of karstic springs in the Argolic gulf, that in ancient times were known as Dini, located near Kiveri village. The modern name of the springs is Mikros Anavalos or Aghios Georgios Springs.

The subsurface hydraulic communication between the Nestani Sinkhole and Dini springs was known to ancient greeks.

According to Greek Mythology when Goddess Rhea, one of the mythical Titans, gave birth to the Greek god Poseidon, she left him near a sheepfold next to a spring, which is known since then as Arna Spring (sheep = ἀρνί = arni, in greek). Rhea didn’t present the baby, Poseidon, to his father, Cronus, who was another mythical Titan, as she was afraid of him. At that time, Cronus was the head of the Titans, but fearing for a revolt of his children, he was eating them straight after their birth. That is why Rhea told him that she hadn’t given birth to a child, but to a colt (small horse) instead (horse = ἵππος = hippos, in greek). In this way, Poseidon survived and became one of the most important legendary Gods of the greeks later.

A locality is known next to Dini submarine system of kastric springs at the Argolic Gulf, named Genesion or Genethlion (= birthplace), which is considered to be Poseidon’s birthplace. Here, in this place, the ancient inhabitants of Argos used to sacrifice horses, whereas not far away from Nestani, at the small village of Milia, the ruins of a small temple dedicated to Hippios (Horsey) Poseidon have been excavated during the last decades.

* Dimitris passed away (10/11/2003) just before the last serial of the paper after a road accident (16/10/2003), when he was just 31 years old.
Poseidon is depicted in many pictures, statues, mosaics etc. In a mosaic, Poseidon comes out from the water on a chariot pulled by four horses.

A main question is how Poseidon arrived from a mountainous area to the Argolic Gulf. A geo-mythological interpretation is that a god such as Poseidon, who was responsible for whatever happened in the water (sea, lakes, ground water etc.) and the earth interior (crust, lithosphere), could not follow a mountainous path, for instance the path over mountain Artemision. On the contrary, for such a god it would be much easier to follow the subsurface water-way through the sinkhole of Nestani village, that is the pathway connected to a subterranean water flow, which reappears to the surface from the bottom of the sea and in this case to the surface of the Argolic Gulf, through Dini spring.

In the case of this myth the hydrogeological conditions of the area are directly connected to the mythological action. This is one more evidence that Poseidon is not a God imported from another culture, but a native one.

1 INTRODUCTION

The Argon Field is a small basin extended just after the exit of the Artemision tunnel, towards Tripolis (Central Peloponnisos).

It is a small polje in the NE part of the biggest Arcadian Plateaus. The Arcadian plateau, which is a much larger basin, is surrounded by relatively high mountains with a mean altitude of about 650 m. and consists of many smaller poljes.

The Argon Field from a hydrological point of view is a closed system, whereas from a hydrogeological point of view is an open one, as the surface and/or groundwater are drained through sinkholes of the margins, or those of the bottom.

The margins and the older palaeo-surface of the bottom consist of alpine limestones. Above the bottom, a relatively thick sequence of younger, post-alpine clastic sediments has been deposited.

Argon Field extends between two relatively high mountains, mt. Artemision in the East as well as Lykeion and a smaller one, mt Alision, in the North.

The watershed of Artemision is the border between the Prefecture of Argolis and the Prefecture of Arcadia.

Pausanias has written a lot about the Argon Field, Nestani, Mantinia etc. (Figure 1a). In free translation Pausanias indicates the following (Figure 1b): "...Entering the region of Mantinia, after crossing Artemision mountain (today we cross Artemision through the homonymous tunnel of the national road Corinth-Tripolis) we are in the Argon Field, that is called in this way because it cannot be cultivated. The reasons are related to rainwater that drains the surrounding mountain slopes and floods the field, making it inappropriate for cultivation. If rainwater had not disappeared trough a ground rift, the Argon Field could have been transformed into a lake."
In Figure 2 we can see the Argon Field flooded, as a result of heavy rainfall during winter of 2003, whereas in Figure 3 a part of the plain is depicted with a snake-like furrow, where water flows towards the Nestani cave-sinkhole through it (see Figure 4).

The “ground rift” of Pausanias is the sinkhole of Nestani, located at the margins of the field, just below the cemetery of the village.
2 THE WATER ROUTE

Water from Nestani sinkhole, comes to Dini Spring.

Dini is the ancient name of a submarine group of karstic springs at the bottom of the Argolic Gulf, near Kiveri village. The actual name of the springs is that of “Micros Anavalos” and “Saint George Springs”.

Next to the Dini springs, which are located some metres away from the coastline, two well-known places are located. The first one is called Genesion, whereas the second one is known as Apovathmi.

The ancient Argeans used to sacrifice horses to God Poseidon at the place of Genesion, whereas, it is said that Danaos and his 50 daughters disembarked at Apovathmi, when they returned from Egypt. One of his daughters was Amymone that Poseidon met and fell in love with, when she was sent in search of water by her father, during a dry period, in order to provide Argos with drinking water. Due to his love for Amymone, Poseidon stroke the rock with his trident and water appeared at the area of Lerna.

The underground hydraulic connection, which was known to ancient Greeks, was verified with tracing experiments during the eighties. In Figure 6 the connection between the sinkhole of Arcadia Plateau and the three major karstic springs of Argolis is depicted schematically, based on tracing experiments.

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Figure 5. Dini Spring (Anavalos) and the location of Apovathmi and “Genesion”, where Poseidon appeared.

Figure 6. The connection between the sinkhole of Arcadia Plateau and the three major karstic springs of Argolis is depicted schematically, based on tracing experiments (modified after Zojer et al., 1986).
3 THE GEOLOGY OF THE AREA

Two main geotectonic units outcrop around the Argon Field, named **Pindos** and **Tripolis units**.

3.1 Pindos Unit

The thin-bedded Upper Cretaceous limestones are multifolded. On the small mountain **Alision** at the western margins of the Argon Field, a tectonic inversion is observed. In this case, the flysch sediments are overlain by the Cretaceous limestones of the Arcadian Nappe.

3.2 Tripolis Unit

It consists mainly of neritic carbonates. From a tectonic point of view, the geotectonic unit of Tripolis is overthrust by the geotectonic unit of Pindos.

Figure 7. Geological map of the area.
4 MYTHOLOGY

While Titan Rhea (the mother of all Great Gods) was pregnant, she found herself somewhere near Mantinea (=Ptolis = Nestani?), where she gave birth to God Poseidon. At that time, Cronus, Poseidon’s father, was eating his children, because he was afraid they were going to overturn him. So Rhea left the baby near a spring, next to a sheep-pen, in order to protect him and told Kronos that she gave birth to a colt (baby-horse) instead. This spring was Arna (“arni” means sheep, in greek). Milia village is located behind Arna spring., there is a temple dedicated to “Ippios (horsey) Poseidon” in Milia. Mantinea village is located further to the west.

4.1 God Poseidon

Poseidon is one of the six Great Gods of ancient Greeks. He was the God of the sea and all water, springs and the protector of flora.

According to the myth, he was able to provoke tempests or calm the sea by using his trident, which was his main characteristic. He created gulfs, straits and isthmuses (he was called “Isthmios” and “Porthmios”). By this trident he was also able to create springs and lakes (he was called “epilimnios”, “limni” means lake in greek) and could change the water quality (he was called “phytalmios”).

Poseidon was also the God of the interior of the Earth. He could move the Earth and cause earthquakes, that’s why he was called “seisihthon”, “gaioseistis” etc. (both of these words mean “he who moves the Earth”).

4.2 The Geomythological approach – The Proposal of Geomythological interpretation of Poseidon’s birth

Taking into account all the above mentioned and also that:

1. at Genesion, next to Dini, where the water from Argon Pedion ends up through the Nestani sinkhole, the ancient Argeans sacrificed horses to Poseidon,
2. that in Milia there is the temple of Ippios Poseidon and
3. that in a roman mosaic (Brado Museum, Tunis) Poseidon rises from the sea on a chariot pulled by 4 horses, then there can be no doubt that the emerging point of Poseidon has to be the greatest area of Dini and Genesion.

The Great Question: How can a God of springs, lakes and seas – a God - protector of water in general, and at the same time a God of the interior of the Earth to move from his birthplace, Nestani village, to his main action places, the Saronic gulf, the Aegean sea and the rest of the Hellenic area?

Is it possible that he moved over the mountains – mountain Artemision– as Artemis or Pan would do? No, it isn’t. Poseidon must have used the Nestani sinkhole to arrive to Dini, i.e. he used the route of the Argon Pedion waters.

5 GENERAL CONCLUSIONS

Some people may think that all the above-mentioned are a great story, but what do all these really mean? Is Greek Mythology nothing more than a tale?

Greek Mythology is not a product of imagination of the imaginative Greeks, but the encrypted physical and geological evolution of this area.

The hydrogeological conditions of the greatest area are directly connected to the actions of a God of the prehistoric Greeks. Poseidon could never be the creation of a different nation, adopted by the Greeks. He is an autochthonous God.

Poseidon may not be the first inhabitant of Mantinea Prefecture, but he is certainly the most famous of the prehistoric Mantineians and, why not, the Ptoleans (the inhabitants of Ptolis).

But, we have to note that not even one of today’s inhabitants of Nestani is aware of its prehistory, with the exception of a few “initiated” ones. That is really a pity!!
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