

1 Scientific papers supporting the theory of a former landmass in
the Atlantic Ocean

SCIENTIFIC PAPERS

SUPPORTING THE THEORY OF A FORMER LANDMASS IN THE ATLANTIC OCEAN

Survey Group Denmark

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Introduction

The purpose of this script is to draw attention to scientific data confirming the theory of a former existence of a landmass in the Atlantic Ocean close to the Mid-Atlantic Ridge. On the basis of these facts combined with our unique source of information we wish to argue for a maritime expedition to localize and investigate this sunken landmass.

The level of deep sea archaeological science is now advanced enough to make such an enterprise successful. We possess the necessary sources of information and we are looking for sponsors and partners with the right deep sea equipment, know how and motivation.

Our deep sea archaeological project is managed by Survey Group Denmark.

Motivation

Our coming survey expedition is based upon mainly a unique Danish source of information giving the location, culture etc. of a former Atlantic island and how and when it was destroyed. This source points out latitudes and longitudes for a limited area within which the former coastline of the island can be found. See map in menu option Spiritual Source.

Besides this we know of the location of the main town, its buildings, houses and temples. We have precise drawings of its huge main temple still unknown to the public. See menu option Atze's Account, Atze's Temple.

Our main historical source is Plato's accounts on Atlantis. Our scientific sources consist of different fields of science. Besides we include legends of floods and deluges, language, human types and point out common culture between Central America and the Mediterranean for instance pyramids.

Who we are

We have worked on this project for many years using all possible spare time. We are all three Danish citizens.

Martin Laungaard, 51, educated electrician and experienced filmmaker having produced and directed films and documentaries.

Frank Laungaard, 65, a database advisor and programmer. He is educated teacher in mathematics/physics and chemistry/biology. Frank has worked with film previously.

Carsten Skaarup, 66, teacher, bachelor in the science of religion, author, done documentaries, educated at Danish Documentary Film School.

Jesper Nissen, 47, IT manager and Ceo. Holds a master of theoretical physics at Copenhagen University.

Collaborators

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We cooperate with, among others:

Bo Krogh, Senior Surveyor, Director.

Antoon Kuijpers, John Boserup, Kaarina Weckström all geologists
at GEUS (Geological Survey for Greenland and Denmark).

Leo K. Johannsen, 3D animator.

Soeren Hyldgaard, film composer.

Freddy Christensen, managing director F.C. Rov.

Kristian, surveyor and roV expert.

All based in/near Copenhagen, Denmark.

Michael Johansson, general manager, DeepTech AB, Sweden

Besides:

Ronnie Glud, professor, geo marine biologist.

Fatima Abrantes, geologist at INETI, Portugal.

Geology

Geological evidence

(All underlined texts are highlights done by Ocean Islands Survey Group)

In 1936, Charles S. Piggot's famous U.S. Geological Survey of deep core soundings indicated that the Mid-Atlantic Ridge reached above the surface of the ocean 10,000 to 20,000 years ago. Different sediment deposits on each side of the Ridge showed that the Ridge once separated two currents moving in opposite directions. Heavy deposits of volcanic ash on both slopes were dated at 12,000 years ago (Piggot, 1937) (1) Commenting on this oceanographic study, Swedish oceanographer Hans Pettersson wrote:

"The topmost of the two volcanic strata is found above the topmost glacial stratum, which indicates that this volcanic catastrophe or catastrophes occurred in postglacial times . . . It can therefore not be entirely ruled out that the Mid-Atlantic Ridge, where the sample originated, was above sea level up to about ten thousand years ago and did not subside to its present depth until later." (2)

Piggot's soil samples consist of stratigraphic cores of 9 feet 10 inches in length, and Piggot noted that they frequently included two zones very rich in volcanic ash. Professor Pettersson (1944) wrote:

"This ash must have originated in enormous volcanic eruptions of the volcanoes in the West Indies or, more likely, on the central ridge of the Atlantic . . ." (Pettersson 1944).

Regarding artefacts Pettersson also confirms that there have been some findings:

"A weak pointer in this direction was a single link of a thin copper chain dredged up with the mud at a Monaco station southwest of Santa Maria" (an island in the Azores group). (Pettersson 1944).

Evidence of a former landmass in the Atlantic is to be found in Professor Hans Pettersson: "The Ocean Floor", 1954. Pettersson is director at Oceanografiska Institutet, Göteborg, Sweden.

Deep sea deposits from the "Albatross" Swedish Deep Sea Expedition, 1947-1948. Scientific leader Hans Pettersson:

"...in the equatorial Atlantic Ocean, the Romanche Deep, 7,500 meters at that point. Although the sediment in the upper levels was largely fine grained and intercalated with thin dark streaks rich in organic remains ... but there were in certain levels very peculiar layers of sand. They consisted of angular fragments of mafic rocks which must have come from the substratum, that is, from the nearby Mid- Atlantic Ridge." (3)

"A very different type of deep-sea sand is found about 1,500 nautical miles farther west, slightly north of the equator. Here, from a depth of about 4,400 meters, the core-sampler brought up a core nearly nine meters long, the uppermost parts of which consisted of fairly homogeneous, fine-grained, deep-sea clay. In the lower part several layers of sand were found which mineralogical examination showed to be not mafic but of continental origin, that is, derived from a coastal shelf of some continent or large island. (Pettersson, 1954, p.95-96).

Most surprising of all, in the lowest stratum of this sand were found vegetable remains twigs, nuts, and bark fragments of dicotyledonous bushes or trees, bespeaking still more emphatically a continental or island origin. Finally, in the uppermost part of the same core Phleger and his co-workers (of Scripps Institution of Oceanography in La Jolla, (now in San Diego)) found a "displaced fauna" consisting of benthonic shallow-water foram shells which apparently had lived in depths of 100 to 200 meters." (Pettersson, 1954, p. 96-97).

Pettersson's conclusions to these findings:

"... One is at a loss to explain how these products of a coastal shelf and supramarine vegetation could have been carried to the position of the find at lat. 7 29' N., long. 45 1' W.

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... The mystery of the deep-sea sand in this part of the equatorial Atlantic Ocean cannot be considered solved." (Pettersson, 1954, p 97-98).

Dr. Otto Mellis at Mineralogical Department, University of Stockholm, was also surprised by the layers of sand in core sediments from the Romanche Deep. He did a study of the origins of the deep-sea sands in core 238, of the Albatross Expedition in the Atlantic Ocean at lat. S. 00° 07', long. W. 18° 12'; depth 7315 m. The layer of sand was in the middle of the core between 687 and 669 cm

Mellis discusses different possibilities regarding origin, transportation and sedimentation. He concludes that its origin is most likely products of erosion from the Mid-Atlantic Ridge when it was more or less above sea level and that it was formed as beach sand produced on a coast line, not in the deep ocean.

... "liegt es nahe, den Ursprungsort des Romanche-Sandes auf den Mittelatlantischen Rücken zu suchen."

... "Auf Grund dieser Überlegungen muß der Romanche-Sand als eine küstennahe Bildung aufgefaßt werden."

... "Es ist sehr wahrscheinlich, das der Romanche-Sand eine kurze Zeit Strandgebilde gewesen ist." (4)

If Mellis is right the coast must have sunk and turned into deep ocean.

In 1948 Dr. Ewing, one of the bitter opponents of an Atlantic landmass, sailed up and down the Mid-Atlantic Ridge during the Woods Hole Oceanographic Expeditions to the Mid-Atlantic Ridge. Numerous samples of tremolite asbestos were brought up. Ewing made this significant comment:

"Such rock is generally considered typical of continents and not of ocean basins." (5)

Important also was the discovery of "beach like terraces" beneath two miles of ocean water. Ewing cautiously observed:

"It is, of course, extremely radical speculation to identify these level stretches more than two miles below the sea surface as former beaches. Such a theory would require the obvious but almost incredible conclusion that the land has subsided two miles or else the sea has risen by that amount." (Ewing 1948).

According to Ewing, long flat stretches were detected 2 to 20 miles wide and hundreds of miles long. These beach-like areas were always covered with thick sediments, indicating a long period of deposition, although occasionally separated by mountainous "higher ground" exhibiting no such sediments. (The Central Highland of the Ridge occasionally approaches four-fifths of a mile from the sea surface.) Ewing observed that deep ocean basins never have thick sediments--which are the result of surf action and river deposition--it is actually shorelines that display thick sediments. More evidence of just how recently such a landmass existed turned up during an expedition the following year.

The follow-up expedition in 1949 turned up numerous core samples from these terraces. These cores contained two different strata of beach sand: The older estimated to be 225,000-325,000 years of age, and the younger 20,000-100,000 years old (Ewing 1949), (6)

Another significant fact is that the deposits were found to be well-sorted by surf action into the usual pattern of shoreline beaches familiar to geologists (Miller & Scholten, 1966 (7). Ewing's conclusion was:

"Sometime in the distant past this sand found deep beneath the ocean must have been located on a beach, at or near the surface of the sea" (Ewing, 1949).

During this second Woods Hole Mid-Atlantic Ridge Expedition Dr. Ewing once again dredged up continental type rocks. Sample after sample containing large masses of sial were brought up all along the Mid-Atlantic Ridge. It became obvious that granite and sedimentary rocks "which originally must have been part of a continent" were abundant (Ewing, 1949).

Dr. Bruce Heezen, oceanographer with the Lamont-Doherty Geological Observatory, observed that this type of rock indicates "possible sunken land masses". (Heezen, Tharp & Ewing, 1959), (8)

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Other geologists have guardedly admitted that the Azores Islands (Central Atlantic) are composed chiefly of continental material, some even conceding that there might be enough continental material (sial) in the mid-Atlantic to make up a landmass the size of Spain (de Camp, 1970), (9)

Dr. Rene Malaise states that many of the terrain features of the Mid-Atlantic Ridge, particularly the canyons, could not have been created by the underwater currents, but were formed when the land was above the sea level. (10).

Hans Pettersson comments on his statement:

"I have now to take up a highly controversial point regarding the bottom currents and their effect on the sediment.

... The present evidence, we may conclude, hardly affords clear proof that turbidity currents have played any dominant part in sculpturing the ocean floor. Both their extension over the deep ocean bottom and their velocities on steep slopes appear to have been overestimated by Heezen and Ewing." (Pettersson, 1954, p. 147, 150).

Here Professor Pettersson says that the finding of beach sand in cores, if explained as caused by deep sea erosion (action of turbidity currents), is overestimated. Accordingly the main cause must be a former presence of land.

Prof. N. Zhiron, a Russian chemist, reported in 1970 sand beaches and coral at depths of 2 miles south of the Azores. Confirmed evidence exists that sections of the Mid-Atlantic ridge have been above sea level in the past and [fresh-] water diatoms have been found 2 miles down in the Azores area dated 10,000 to 12,000 BC. (Zhiron 1970), "Atlantis," *Progress Publishers, Moscow.* (11)

Flat-topped Atlantis, Cruiser, and Great Meteor Seamounts.

Source: Bruce C. Heezen, Maurice Ewing, D. B. Ericson, and C. R. Bentley at the Lamont Geological Observatory (Columbia University), Palisades, N. Y.

"The Atlantis, Cruiser, and Great Meteor seamounts rise from a broad ridge or plateau, which extends from the Mid-Atlantic ridge at 37°N, 32°W, southeast to Great Meteor seamount at 30°N, 28°W. The Atlantis seamount, briefly explored in 1947 and 1948, was found by echo sounding and submarine photography to have a fairly flat bedrock summit area at about 180 fathoms or 329 m (one fathom = 1,828 m), covered in some cases by cobbles and in other cases by current-rippled sand. Its slopes are covered with sand or ooze symmetrically rippled at 400 fathoms (732 m) and marked by slump features in 570 fathoms (1043 m). A small piece of volcanic agglomerate was dredged from 400 fathoms (732 m) on the north slope. About a ton of flat pteropod limestone cobbles was dredged from the summit area. One of the cobbles gave an apparent radiocarbon age of 12,000 years +/- 900 (J.L. Kulp). The state of lithification of the limestone suggests that it may have been lithified under subaerial conditions and that the seamount may have been an island within the past 12,000 years. Oxygen isotope paleotemperature measurements made by C. Emiliani give evidence that the depth of deposition was less than the present depth of the seamounts. The Cruiser and Great Meteor seamounts studied in 1952 have larger flatter summits at 150 (274 m) and 165 fathoms (302 m) depth. Photographs of the sandy summits do not show ripples or cobbles. Symmetrical ripples were photographed on the slopes in depths of 1200-1400 fathoms (2196 m to 2562 m). A reversed seismic refraction station was made on Cruiser seamount. These youthful "guyots" may have originated as volcanoes which were later capped by limestone and more recently have sunk beneath the sea." (12)

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Professor of geology Charles Hapgood at New Hampshire University says regarding seamounts with the common characteristics of being flat-topped:

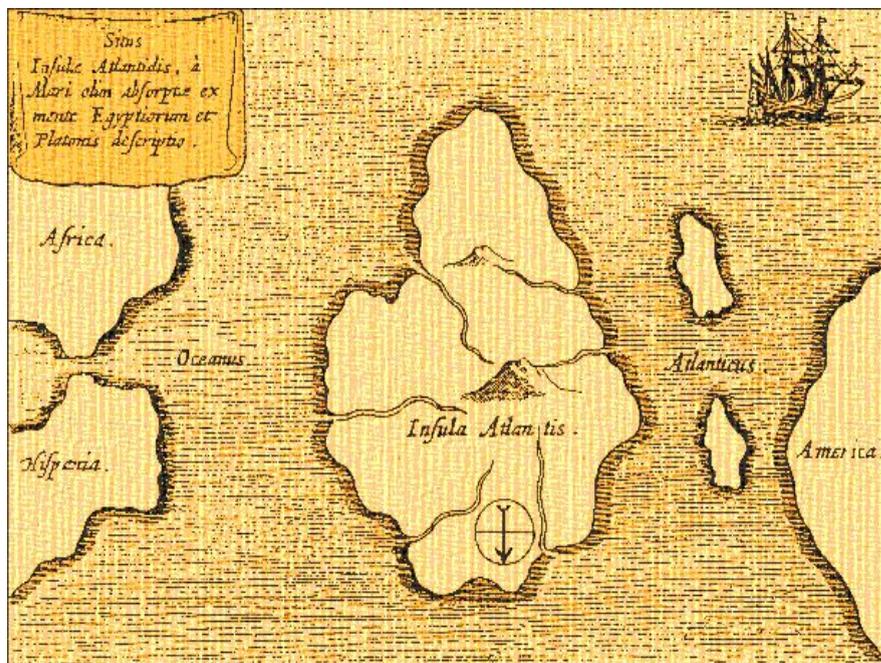
“Apparently their tops were made flat by the action of the sea at the time they were at the sea level. Now the flat tops are submerged anywhere from a few hundred feet to three miles below sea level.”

“When these seamounts were first discovered, they were explained in accordance with the theory of the permanence of the ocean basins. It was proposed that as the sediments gathered in enormous thickness on the ocean floor through hundreds of millions of years, the floor actually gave way and sank, taking the seamounts down below the sea. This theory was undermined, of course, by the recent discovery that no such thick layer of sediments exists on the ocean floors, but that, on the contrary, the layer of sediments is in some places extremely thin or even virtually nonexistent.”

Hapgood continues regarding the time when the flat-topped seamounts were above sea level:

“Another line of evidence helps to dispose completely of this explanation of seamounts. Foraminifera are minute protozoa that live in the sea. Their species vary from differences in the depth and temperature of the water in which they live, and those of past geological periods, found in fossil state, differ from living species. Studies of fossilized foraminifera from the tops of some of the seamounts have revealed that they are much younger than the seamounts themselves.” (13)

Professor Charles Hapgood also reported that a large unknown Atlantic Island appears on an ancient map (the famous Piri Rei map from 16. century).



Athanasius Kirchers map from 1669. Seen from the north.

In the upper corner: “Site of Atlantis, now beneath the sea, according to the belief of the Egyptians and the description of Plato.” The original map is said to have been taken from Egypt by the Romans, probably around 30 B.C.

The Atlantis Basin

The region south of the Azores Islands has an irregular bathymetry reflecting the presence of numerous structural highs bounding a central basinal area, the Atlantis Basin. *“The internal character and geometry of the interpreted seismic megasequences suggest that the Atlantis Basin is filled with a mixture of volcanic, organic, calcareous and siliciclastic sediments, which is to some extent similar to that of the Madeira Abyssal Plain.”* (14)

Major seamount groups are found south of the Azores: The Atlantis, Plato, Tyro and Cruiser seamount groups. “Most seamounts show a characteristic guyot or tablemount morphology denoted at or near sea level.” (T.M. Alves et al., 2004, pp. 204.)

“We consider that the calculated values underline the presence of two main types of structure in the region south of the Azores: Abyssal hills and larger volcanic seamounts Contrasting with the latter abyssal hills, larger volcanic structures (i.e. Atlantis, Plato and Tyro seamount groups) should sign areas of off-axis volcanism. Their relatively high apparent height and characteristic width values may denote constructional volcanism, confirming Tuzo's and Smooth's (1990) assumption that the multiple volcanic highs in the Atlantis-Meteor region were generated during distinct phases of rejuvenated volcanism.” (T.M. Alves et al., 2004, pp 213.)

MAR as volcanological laboratory

Prof. Hans Pettersson, scientific leader of the “Albatross”, says: ...*“and we can well conceive of the deep-sea bottom as a volcanological laboratory on a gigantic scale.”* (Pettersson 1954, p. 146), (3). He is being proven right also by this article:

“In-situ study of the eastern ridge-transform intersection of the Vema Fracture Zone”:

“Fourteen dives of the submersible Nautilie have been carried out at the eastern intersection of the Vema Fracture Zone with the Mid-Atlantic Ridge ...

...Recent volcanic activity is not restricted to the central volcanic ridge but is widespread across the whole nodal basin area. ...The extensive volcanism is suggestive of a magmatic production phase in the intersection area. Extremely fresh pillowed lava forms have been observed at the RTI inside-corner high, indicating possible off-axis volcanism.” 14 February 1990. Earth and Planetary Science Letter.

It is based on a deep sea dive and written by a broad line of researchers: Vassilios Mamaloukas-Frangoulis^a, Jean-Marie Auzende^b, Daniel Bideau^b, Enrico Bonatti^c, Mathilde Cannat^a, José Honnorez^d, Yves Lagabrielle^{e-1}, Jacques Malavieille^f, Catherine Mével^g and H. David Needham^b.

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Géologie, rue Blessig, 67084 Strasbourg Cedex, France ^eURA Géodynamique, Sophia Antipolis, 1 avenue

Albert Einstein, 06560 Valbonne, France ^fUSTL, Laboratoire de Tectonique, place Eugène Bataillon, 34060

Montpellier Cedex, France ^gUniversité Pierre et Marie Curie, Laboratoire de Pétrologie, UA040736, 4 place Jussieu, 75252 Paris Cedex 05, France.

The long traditional speculations and theories by individuals of all professions on the legendary Atlantis have also caught interest by some geologists.

Recently Marc-André Gutscher at Center National de la Recherche Scientifique, Institut Universitaire Européen de la Mer in Plouzané, France has investigated this subject.

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He seeks to explain the legend of Atlantis narrated by Plato in terms of geological phenomena. Based on numerous geological similarities between Plato's description of Atlantis and the paleoisland Spartel in the western Straits of Gibraltar, he asks if Spartel could be the lost Atlantis? His research is done by means of core samples, high-resolution bathymetric data, sea level data etc.

Part of his conclusion:

"... Thus, these new bathymetric data, taken alone, do not confirm the Spartel Bank hypothesis; rather, they render it highly unlikely. However, taking into account strong tectonic subsidence due to great earthquakes, and the sudden destruction by a great tsunami, the Spartel Bank hypothesis may be viable. Although the catastrophic destruction described by Plato is consistent with the geological and tectonic history of the Straits of Gibraltar, this does not imply that Atlantis ever existed. It simply means the account is geological plausible ... (15)

Keith McKenzie, Emeritus Professor of Geochemistry at Pennsylvania State University, comments on material from the Deep Sea Drilling Project as seen in this quotation from Hutton Commentaries website by William Hutton, last updated May 8, 2003:

"Incidental, almost, to Keith's efforts to buttress one of his points about a former emergent continent in the Atlantic ocean is the material that he summarizes on former shallow water or emergent sites sampled by the Deep Sea Drilling Project (DSDP). The sampling sites are currently underwater in the region of the Mid-Atlantic Ridge (MAR). Locations for three of these sites (Keith, M., 2001, table 1, "Evidence for a Plate Tectonics Debate," Earth-Science Reviews, 55 pp. 235-336) are shown by large red dots on figure 6, in a relief map of the Azores. The red dots are rather large because, while the sampling coordinates that are listed give degrees north latitude, they do not give degrees west longitude. It is understood, however, that the samples were taken in the vicinity of the MAR axial valley, clearly visible on Figure 6.

Here's what was found:

- *at point A, at a depth of 12,802 ft: highly vesicular basalt, weathered and oxidized basalt, and a major gap in the basal sedimentary section that indicates sub aerial erosion*
- *at site B, at a depth of 12,440 ft, basaltic pebbles and weathered and oxidized basalt were found.*
- *at site C, in 12,313 ft of water, once again basaltic pebbles and weathered and oxidized basalt were found*

All of the above findings are strong indicators of a formerly emerged MAR. And they suggest that this volcanic terrain has sunk a minimum of 12,300 ft since being exposed to the atmosphere. Note that Keith's Table 1 lists six additional MAR sampling sites - to the south of those plotted on our Figure 6 and on down to the equator. Two of these sampling sites show ridge tops flattened by wave erosion, one revealed Tertiary-age shallow water sediment, and another revealed Cretaceous-age shallow water sediment. A final, rather startling finding consists of canyons and a trellis drainage system, quite possibly formed sub aerially at a depth greater than 9800 ft. The MAR location is between 26° and 27°N."

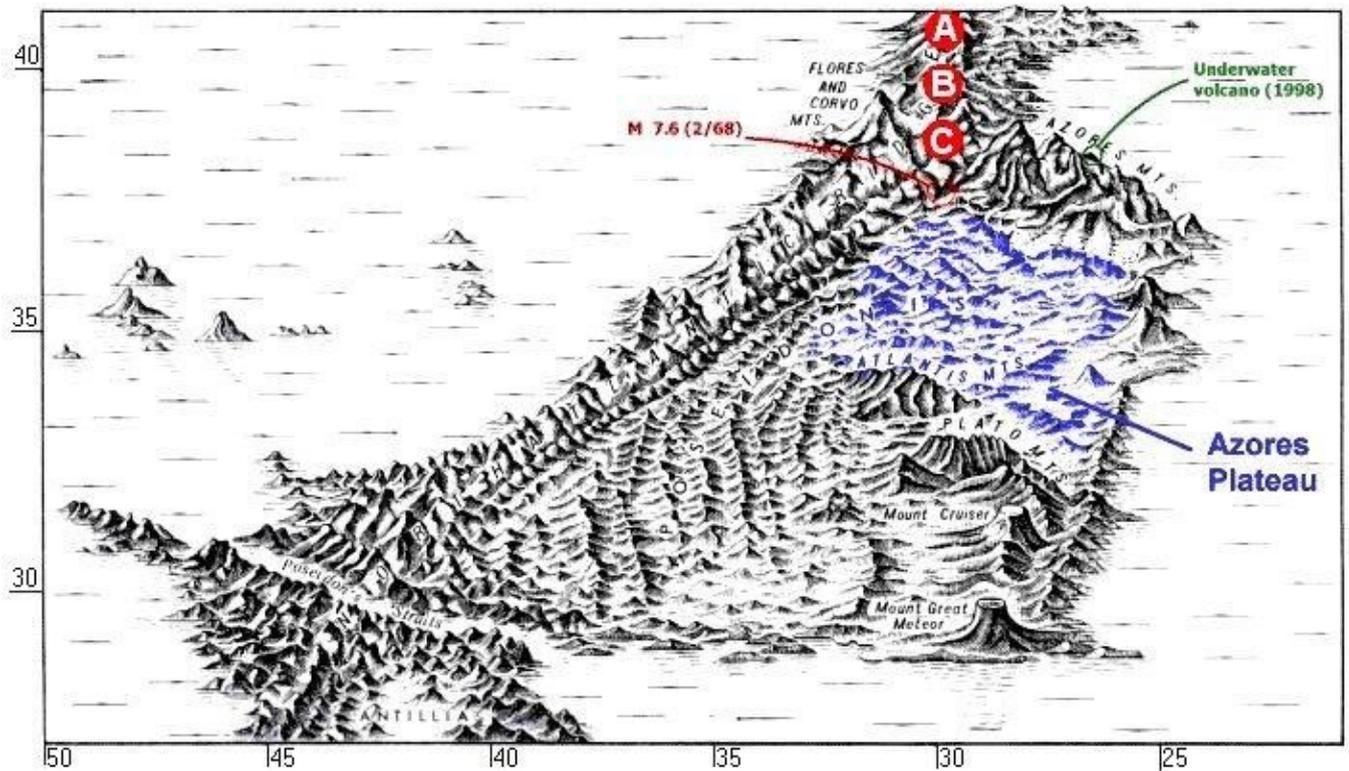


Fig. 6. Physiographic diagram of the Azores region, based on a diagram by B. Heezen and M. Tharp.

Biology

Biological evidence

In 1957 Dr. Kolbe was commissioned with the investigation of the diatoms contained in the seabed cores obtained by the Albatross Expedition 9 years earlier.

Dr. Kolbe is research associate at the paleobotanical department of the Swedish Museum of Natural History and lecturer in diatomology at the University of Stockholm.

Diatoms are autotrophic plants and the main component of marine plankton. The life-circle of the diatoms is restricted to the upper strata of the ocean as their nutrition is dependent on the light.

Dr. Kolbe says:

"One of the most interesting observations was the unexpected presence of many fresh-water diatoms in certain cores taken by the Albatross parallel to the coastline of Equatorial West Africa at a great distance off the coast." (c. 900 km) (16)

"My own investigations of the numerous cores collected by the Swedish Deep-Sea Expedition in the equatorial belt of the Pacific and Indian oceans did not reveal a single specimen of fresh-water species, except in the close vicinity of continents or large islands.

The novelty of the present observations lies in the constant occurrence of fresh-water diatoms in Atlantic deep-sea cores, the large number of individuals, and the relatively great variety of species. More than 60

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fresh-water species, belonging to various ecological groups, were observed: Plankton and benthonic forms, species typical for habitats rich in nutrients and even for some poor in nutrients, most forms being common cosmopolites – that is, species of world wide distribution.” (Kolbe 1957, p.1053).

Dr. Kolbe continues:

“An observation concerning another group of objects of nonoceanic origin may be pointed out: The regular and rather frequent occurrence of silicified epidermal cells belonging to terrestrial plants (Cyperaceae and Gramineae) in many cores ... They are to be found in fresh-water sediments and sometimes in near-shore marine deposits but, to my knowledge, are not known in deep-sea sediments. In Atlantic cores they occurred together with Melosira granulate and were almost as common as this form.” Science, vol. 126, p. 1054. (Kolbe 1957, p. 1054).

Kolbe discusses three possible explanations for the presence of fresh-water diatoms in the depth of the Atlantic far from their present day natural habitats. They are briefly:

- 1) Transport from rivers and lakes in Africa by sea currents (potamic transport) -
- 2) Transport by wind and sea currents i.e. taken up ashore by the trade winds and blown into the sea (aeolian transport) -
- 3) The diatoms lived at their place of deposition and had their origin in lakes or other fresh-water habitats located in a part or parts of a former continent. According to Malaise's hypothesis this continent was Atlantis. (Kolbe 1957, p. 1055).

Dr. Rene Malaise theorized that parts of the Ridge must have existed as large islands up to the end of the last Ice Age or later. He also believes that these landmasses must have had fresh-water lakes in order to account for the existence of fresh-water animals. The species were all recent species, indicating that the fresh-water lake was in existence within the last 10.000 to 15.000 years. (Malaise, 1956), (17)

Commenting on Malaise' theory, Kolbe writes: *“I think that Malaise's theory explains the phenomenon in a far more plausible way than the hypothesis of Rigby and Burckle. (Rigby and Burckle: Turbidity Currents and Displaced Fresh-Water Diatoms, commented by R.W. Kolbe. (18)*

Also Professor Hans Pettersson comments on this find:

“A remarkably find by Kolbe in two cores from the equatorial Atlantic is the occurrence of typical fresh-water diatoms in considerable numbers. Since this find was made in localities several hundred miles from the coast of northwest Africa, the origin of these fresh-water diatoms is puzzling.” (19)

12 Core samples from a specific area in the Atlantic Ocean.

Survey Group has studied hundreds of cores from a vast area of the Atlantic Ocean. We have chosen 2 cores for further analysis with the hope of finding proofs of land such as diatoms and pollen. The Danish Geological Institute, GEUS analysed the 2 samples, and sent us the following text and diagram.

“Hello Frank, Carsten and Martin

We have now looked at the samples for diatoms and pollen.

The samples were highly calcareous and high calcium carbonate content in sediments dissolves diatoms after deposition. This appears to be what's happened with these samples as unfortunately there were no diatoms (although there would have been plenty in the water column) due to this.

There is pollen in the samples, especially in the samples below 40 cm depth (in both cores) but not in great concentrations. I did a fairly quick estimate of concentrations (see table below). For comparison, marine cores off the Iberian Margin will give concentrations at least in the 1000's and often in 10,000's but some marine cores (eg Greenland fjords) also only give concentrations in the 1000's. Pollen analysis at these latitudes show much higher concentrations during the last glacial period and this is also seen in marine cores

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off West Africa. It's possible that the samples below 40 cm may be pre-Holocene (i.e. glacial) and the sample with low concentrations at 30-33 cm the only Holocene sample.

Although there are some pollen types I don't recognize as I haven't analyzed samples from this region before, it is significant that there is no dominant pollen taxa. Isolated islands, such as the Azores, do not have large numbers of species and I would expect to see a dominance of one or two pollen taxa if there was land relatively close. All pollen types can be transported long distances, taxa such as *Betula* (birches) and especially *Pinus* (Fyr) can be transported many thousands of kilometers. There is *Betula* in these samples but no *Pinus* which in itself is interesting but doesn't help us much.

In summary, it's not impossible that there has been land in this area but these samples are not conclusive. Any further analysis should though, concentrate on samples above 40 cm as the sedimentation rate appears to be very low.

I hope this helps and I'm sorry the results are not more definitive.
Best wishes
Catherine (Antoon and Kaarina)."

Core	Depth cm	Pollen / Spores	Lycopo-diu m spike (K2)	Concentrations	Identified taxa
AT153-152P	42-45	8	72	308,6	<i>Alnus</i> , Poaceae (flowers, grass)
VM17-163	30-33	1	49	56,7	Chenopodaceae (flowers), <i>Betula</i> (birch), Spores, Dinos
VM17-163	57-60	11	37	825,8 - K1	<i>Betula</i> , Spores
VM17-163	100-103	6	44	378,8 - K1	Spores, Cyperaceae (flowers/plants in poor soil), Poaceae (flowers, grass), charcoal

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Catherine Jessen
Geological Survey of Denmark and Greenland (GEUS)
Department of Marine Geology and Glaciology

Let's repeat Catherine Ann regarding the low concentrations of diatoms in the samples:

The samples were highly calcareous and high calcium carbonate content in sediments dissolves diatoms after deposition. This appears to be what's happened with these samples as unfortunately there were no diatoms (although there would have been plenty in the water column) due to this.

Although the conclusions are not definitive, there is more to the samples than already said. In a conversation after our meeting with Antoon Kuijpers, Kaarina Weckström and Catherine Ann Jessen, we agreed with the latter, that the following facts were surprising:

- * The cores showed no dominant taxa – (isolated islands as the Azores have limited number of species, so one would expect a dominance).
- * There was no pollen from pine but from betula – (pine is carried much longer by wind than betula).

Besides this, Ocean Islands Survey Group finds the following interesting:

- * There was charcoal. According to Catherine Ann charcoal was transported from Africa forest fires. We find that explanation unlikely because of 1) the distance and 2) charcoal was only in one sample.
- * The fact that there is betula in the Azores, but not in the core samples, is very interesting. (Could the betula pollen in Azores come from a sunken land mass?). Catherine Ann says the betula pollen could come from Africa (2-3000 km away). We do not agree, as pollen from betula sticks to moisture in the air long before it reaches far out across the ocean. This is also why we doubt charcoal can be transported from Africa.

So far for the analysis regarding diatoms, pollen and spores.

Let us have a look at the visual description of the cores, done by Lamont-Doherty Earth Observatory of Columbia University.

Visual Core Description for AT153-152 (East of MAR)

Underlined = organic material = sign of former land.

Date redescribed: 11 November 1971 Redescribed by: C. Franck GENERAL: Foraminiferal marl (moderate orange pink) and foraminiferal chalk (pinkish gray); hard, dry and cracked. Carbonate content moderate to high. Coarse fraction consists primarily of planktonic foraminifera, with benthonic foraminifera, diatoms, ostracods, sponge spicules, echinoid spines, quartz, Radiolaria and plant debris. 0-40 cm: Foraminiferal marl, moderate orange pink (5 YR 8/4), hard, dry and cracked. Carbonate content moderate. Coarse fraction 20%, consisting primarily of planktonic foraminifera, with ostracods, diatoms, sponge spicules, quartz and benthonic foraminifera. Basal contact a sharp change in color and texture. 40-166 cm: Foraminiferal chalk, pinkish gray (5 YR 8/1), hard, dry and cracked. Carbonate content high. Coarse fraction 20%, consisting primarily of planktonic foraminifera, with diatoms, echinoid spines, benthonic foraminifera, sponge spicules, Radiolaria, quartz and plant debris.

Commentary from the geologists on the question: What are clear indications of land in this sample?

Benthic foraminifera and small animals that prefer shallow water; if you can find them in deep sea sediment, it indicates sunken land.

- *Planktonic foraminifera.*

- *Plant debris.*

Visual Core Description for VM17-163 (East of MAR) Date described: 27 July 1965 Described by: L. Burkle 0-140cm.: Lutite and foraminiferal lutite, moderate yellowish-brown (10YR5/4). Some burrow tracks present. Burrowing rather intense between 57-70 cm. Few manganese micronodules. Foraminifera present;

foraminifera may amount to 30% of the sample in the top 5 cm. Carbonate content greater than 30%. The lutite fraction amounts to about 90% and the sand salt fraction about 10%. Bottom contact is sharp, marked by a color change. 140-152 cm.: Lutite, grayish-orange (10YR7/4) Burrow mottling present throughout. Few manganese micronodules present. Foraminifera present. Carbonate content amounts to greater than 30%. Lutite fraction amounts to 90% and sand-silt fraction about 10%. Bottom contact is sharp, marked by a color change. 152-163 cm.: Lutite and foraminiferal lutite similar to the 0-140 cm. layer. The bottom contact is moderately sharp, marked by a color change. 163-213 cm.: Lutite similar to the 140-152 cm. layer. Bottom contact is moderately sharp, marked by a color change. 213-221 cm.: Lutite, moderate yellowish-brown (10YR5/4) very well burrowed. Few manganese micronodules. Foraminifera present. Carbonate content greater than 30%. Lutite fraction amounts to about 90% and silt fraction about 10%. Bottom contact is sharp marked by a color change. 221-332 cm.: Lutite and foraminiferal lutite very pale orange (10YR8/2) to grayish orange (10YR7/4). Burrow tracks present. These zones tend to alternate with zones in which there is little burrowing activity. Few manganese micronodules present. Foraminifera present. Carbonate content greater than 30%. Lutite fraction amounts to about 90% and silt fraction about 10%. Bottom contact is sharp marked by a change in sediment type. 332-341 cm.: Foraminiferal sand, grayish-orange (10YR7/4). Foraminifera make up about 80% of layer. Bottom contact is sharp and marked by a change in sediment type. 341-348 cm.: Lutite similar to the 213-221 cm. layer. Bottom contact is gradational and marked by a color change. 348-357 cm.: Lutite, similar to the 140-152 cm. layer. Bottom contact is gradational and marked by a color change. 357-369 cm.: Lutite, similar to the 221-332 cm. layer. Bottom contact is moderately sharp and marked by a color change. 369-380 cm.: Lutite, similar to the 213-221 cm. layer. Bottom contact is sharp and marked by a color change. 380-401 cm.: Lutite, similar to the 221-332 cm. layer. Bottom contact is moderately sharp and marked by a color change. 401-407 cm.: Lutite, similar to the 140-152 cm. layer. Bottom contact is moderately sharp and marked by a color change. 407-416 cm.- Lutite, similar to the 213-221 cm. layer. Bottom contact is gradational and marked by a color change. 416-428 cm.- Lutite, similar to the 140-152 cm. layer. Bottom contact is moderately sharp and marked by a color change. 428-443 cm.- Lutite, similar to the 213-221 cm. layer. Bottom contact is gradational and marked by a color change. 443-468 cm.- Lutite, similar to the 221-332 cm. layer. Trigger Weight Date described: 21 August 1966 Described by: W. Ruddiman 0-22 cm Foraminiferal lutite, moderate yellowish brwn (10YR5/4), homogenous and structureless. Sand fraction about 10%, of which 3/4 is foraminifera, 1/4 calcite fragments. Silt fraction about 10%, lutite about 80%. Carbonate content about 20%-25%.

Indications of land:

- Borrowing (small animals)
- Foraminifera
- Charcoal

Ice coring

Deep ice coring in West Antarctica and Greenland

This data set contains the amount of volcanically-derived sulfate deposited on the West Antarctic Ice Sheet and recorded in the SDM-A ice core over the last 98 ka years.

Age of sample was determined by using SDM-A:11.6-98.1: March 06 2002 time scale. Each sample is approximately 10 years at 11.6 ka with a consistent increase in the time covered by each sample to around 120 years/sample at 98.1 ka years ago. The volcanic sulfate record is "derived by applying a robust spline analysis on the sulfate time series (Zielinski et al., 1997)."

Preliminary data set generated for WAISSCORES web site only.

NB. DO NOT USE THESE DATA AFTER June 2002 (revision for newer/correction data)

(It was not possible for us to get newer/corrected data, so we have to use these for now.)

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

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parameter 1: Age in years before 1950
parameter 2: Total sulfate in ppb
parameter 3: Volcanic sulfate based on robust spline analysis

Antarctica cores

Note: The time scale is years counted from 1950. It is only presented here within the years 13.703 to 14.301 before 1950.

Antarctica core: See detail and scientific sources:

ftp://sidads.colorado.edu/pub/DATASETS/AGDC/waiscores/zielinski/volcanicSO4_SDMA11_98ka.txt

Par 1

Par 2

Par 3

Age in years before 1950	Total sulfate in ppb	Volcanic sulfate based on robust spline analysis
13703.82	90.33	0
13707.72	82.1	0
13727.6	85.44	0
13743.11	79.87	0
13757.21	77.44	0
13779.03	92.18	0
13787.19	87.04	0
13796.61	67.21	0
13809.81	75.72	0
13817.73	58.71	0
13843.08	87.66	0
13856.8	72.39	0
13873.56	88.79	0
13881.99	69.55	0
13893.94	62.08	0
13902.36	90.6	0
13912.84	70.03	0
13928.21	93.27	0
13944.32	79.73	0
13964.66	75.81	0
13978.07	79.84	0
13987.27	94.78	0
14000.02	75.93	0
14015.05	101.37	0
14027.99	79.02	0
14035.19	73.13	0
14042.38	85.53	0

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

14049.58	74.73	0
14056.78	71.09	0
14063.98	143.41	64.89
14073.35	113.54	40.98
14080.67	83.68	0
14088.1	65.12	0
14098.51	65.5	0
14110.41	72.4	0
14120.26	64.52	0
14138.64	62.61	0
14147.84	74.23	0
14157.01	61.77	0
14166.16	99.24	32.77
14175.31	65.68	0
14183.7	77.28	0
14192.12	66.08	0
14200.71	95.81	0
14209.29	66.93	0
14217.87	71.51	0
14229.58	73.73	0
14238.31	69.98	0
14247.84	111.89	34.72
14254.99	95.23	0
14262.14	69.11	0
14269.28	73.4	0
14276.12	51.65	0
14282.97	62.48	0
14294.37	74	0
14301.97	75.05	0

The total maximum counting error in years for age 14.075 (before A.D. 2000) is 169 years, according to Rasmussen et al.: A new Greenland ice core chronology for the last glacial termination, *Journal of Geophysical Research*,” vol. 111, pag.13, table 4, published 21. March 2006.

Comments

According to the unique sources available to Ocean Islands Survey Group the Atlantic landmass disappeared c 12.000 BC. i.e. c 14.008 years ago.

Related to the timescale above: 14.008 years + (2008-1950) = 14.066 years. Approximately this year in the timescale a huge volcanic eruption happened.

This cataclysm is confirmed by the sudden rise in SO₄ by 64,89 for the year 14063.

Ashes from volcanic eruptions usually stay in the same hemisphere as the erupting volcano(es). Only if the volcanic activity is happening close to the equator or is unusually forceful the sulphuric acid (SO₄) from it will show in the ice cores in both hemispheres i.e. in the cores from the Antarctic as well as those from Greenland.

Such an extraordinary forceful volcanic activity must have happened in the years 14063 to 14073 (minus 50 years) as we see high values of SO₄ in both time scales). Sulphuric acid from the same catastrophe is also seen in ice cores in the Northern hemisphere in Greenland, but in a bigger scale. (See the Greenland time scales below for the years 14.057 to 14.082).

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

So according to the ice cores results the spreading of SO₄ happened in different ways for Antarctica compared to Greenland. In the Southern hemisphere the jet streams are weaker than in the Northern, so the passat winds carried the sulphur across the Aequator down to Antarctica. This happened in a more intense and direct way, and for a shorter period about 10 years as the time scales show.

Regarding Greenland the passat winds transported sulphur for about 25 years in a constant and steady flow. This indicates that the location of the megavolcano(es) was in the Northern Hemisphere.

The catastrophe must have been extraordinary forceful to be able to exceed the jet streams in the Northern hemisphere, provided the also existed about 14.000 years ago.

Could this be the mega event that sank the former landmass we are talking about?

Due to the amount of SO₄ from the many volcanoes the climate on earth most likely became colder for a period, because the pollution of air and atmosphere lowered the warmth from the sun. Animal life and plant life was probably also influenced. If the temperatures continued to drop, this could have caused the latest ice age.

GISP2 Volcanic markers

References:

Zielinski, G.A., and G.R. Mershon. 1997. Paleoenvironmental implications of the insoluble microparticle record in the GISP2 (Greenland) ice core during the rapidly changing climate of the Pleistocene-Holocene transition. *Geological Society of America Bulletin* 109:547-559.

Zielinski, G.A., R.J. Fiacco, P.A. Mayewski, L.D. Meeker, S.I. Whitlow, M.S. Twickler, M.S. Germani, K. Endo, and M. Yasui. 1994. Climatic impact of the A.D. 1783 Asama (Japan) eruption was minimal: Evidence from the GISP2 ice core. *Geophysical Research Letters* 21:2365-2368.

Hempel, L., and F. Thyssen. 1992. Deep radio echo soundings in the vicinity of GRIP and GISP2 drill sites, Greenland. *Polarforschung* 62:11-16.

Palais, J.M., M.S. Germani, and G.A. Zielinski. 1992. Interhemispheric transport of volcanic ash from a 1259 A.D. volcanic eruption to the Greenland and Antarctic ice sheets. *Geophysical Research Letters* 19:801-804

Palais, J.M., K.C. Taylor, P.A. Mayewski, and P.M. Grootes. 1991. Volcanic ash from the 1362 A.D. Oraefajokull eruption (Iceland) in the Greenland ice sheet. *Geophysical Research Letters* 18:1241-1244.

Data description:

This file contains the volcanic sulfate record in the GISP2 core on the Meese/Sowers timescale. Each sample is approximately bi-annual for the last ~12,000 years with a consistent increase in the time covered by each sample to around 50 years/sample at 110,000 years ago. The volcanic sulfate record is derived by applying an empirical orthogonal function (EOF) analysis on the entire glaciochemical time series (Mayewski et al., 1997a). EOF 5 was found to explain 12% of the variance in the sulphate record, but it did not significantly explain the variance in any other chemical species. The excellent correlation in the EOF time series and the volcanic sulfate record for the last 9000 years, based on sulphate residuals over a robust spline (Zielinski et al., 1994a) indicates that EOF5 is an indicator of volcanic sulfate deposition over the last 110,000 years.

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AGE refers to the age in yr BP, as described above. Total sulfate is the total measured sulfate concentration in ppb. Volcanic sulfate is the calculated total sulfate, based on empirical orthogonal function analysis (EOF 5). parameter 3: Volcanic sulfate based on empirical orthogonal function analysis (i.e., EOF-5)

Greenland cores

Note: The time scale is years counted from 1950. It is only presented here within the years 13.701 to 14.301. before 1950.

Greenland core: See detail and scientific sources:

http://nsidc.org/data/gisp_grip/data/gisp2/chem/volcano.dat

DATA:

age (yr)	total sulfate (ppb)	volcanic sulphate
13701.80	45.10	0
13706.00	38.20	0
13710.00	59.20	0
13714.00	48.30	0
13718.00	38.90	0
13722.00	48.80	0
13726.10	43.30	0
13730.30	55.10	0
13734.50	43.40	0
13738.70	55.80	0
13742.90	38.30	0
13746.90	43.70	0
13750.70	96.40	27
13754.50	49.10	0
13762.10	40.40	0
13769.70	77.40	0
13773.50	66.40	0
13777.30	87.30	12
13781.10	52.20	0
13785.00	50.60	0
13789.00	65.70	0
13793.00	85.90	16
13797.00	59.30	0
13805.10	63.40	0
13809.30	64.70	0
13813.50	160.00	86
13817.70	64.70	0
13821.90	68.90	3

13826.	67.90	0
		
00		
13830.00	67.90	11
13834.00	91.00	20
13838.00	117.00	43
13842.00	159.00	92
13846.00	77.40	7
13850.00	56.80	0
13854.00	66.20	0
13858.00	62.90	0
13862.00	37.10	0
13866.20	68.50	9
13870.60	58.60	0
13875.00	53.50	0
13879.40	75.00	7
13883.80	73.30	31
13888.30	95.30	49
13892.90	90.10	21
13897.50	83.60	3
13902.10	49.00	0
13906.70	57.10	0
13911.20	67.30	0
13915.60	64.90	1
13920.00	70.50	0
13924.40	52.80	0
13928.80	49.00	0
13932.90	50.60	0

13936.70	55.60	0
13940.50	52.10	0
13944.30	67.40	0
13948.10	95.70	23
13952.20	60.30	0
13956.60	58.90	9
13961.00	40.60	0
13965.40	37.10	0
13969.80	99.20	25
13974.10	86.70	36
13978.30	95.30	41
13982.50	77.90	38
13986.70	114.00	41
13990.90	137.00	45
13995.10	97.90	7
13998.00	62.80	0
14000.00	244.00	149
14002.00	76.40	0
14004.00	81.90	7
14006.00	81.10	13
14008.00	97.30	0
14010.00	78.90	10
14012.00	41.60	0
14016.00	79.80	0
14022.00	95.10	0
14034.00	90.60	0
14040.00	132.00	2
14045.90	127.00	2
14051.70	88.40	0
14057.50	153.00	13
14063.30	193.00	86
14069.10	168.00	80
14074.10	188.00	82
14078.30	138.00	66
14082.50	166.00	69
14086.70	58.80	0
14090.90	69.70	0
14095.10	49.30	0
14099.30	60.50	0
14103.50	74.20	9
14107.70	88.10	12
14111.90	77.00	13
14115.90	66.80	0
14119.70	78.80	8
14123.50	102.00	33
14127.30	70.30	10
14131.10	87.20	36
14134.60	60.80	0
14137.80	54.90	0
14141.00	61.50	0
14144.20	79.90	0
14147.40	113.00	39

14150.90	167.00	104
14154.70	69.00	14
14158.50	97.10	28
14162.30	127.00	41
14166.10	145.00	66
14169.90	215.00	71
14173.70	143.00	0
14177.50	72.40	2
14181.30	75.60	6
14185.10	104.00	41
14188.90	71.10	16
14192.70	65.90	2
14196.50	126.00	40
14200.30	99.60	38
14204.10	99.40	28
14207.70	67.70	15
14211.10	119.00	58
14214.50	166.00	91
14217.90	113.00	41
14221.30	95.90	31
14225.00	96.90	45
14229.00	81.70	35
14233.00	74.90	5
14237.00	140.00	77
14241.00	82.80	22
14244.80	73.50	30
14248.40	78.20	21
14252.00	81.20	17
14255.60	112.00	56
14259.20	95.00	44
14262.90	131.00	75
14266.70	108.00	49
14270.50	86.40	28
14274.30	206.00	147
14278.10	141.00	81
14281.60	85.60	28
14284.80	64.80	27
14288.00	85.40	29
14291.20	102.00	49
14294.32	74.10	21
14297.71	88.70	31
14301.40	112.00	40

The total maximum counting error in years for age 14.075 (before A.D. 2000) is 169 years, according to Rasmussen et al.: A new Greenland ice core chronology for the last glacial termination, *Journal of Geophysical Research*,” vol. 111, pag.13, table 4, published 21. March 2006.

Comments

According to the sources available to Ocean Islands Survey Group the Atlantic landmass disappeared app. 12.000 BC. i.e. 14.008 years ago.

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

Related to the time scale above: $14.008 \text{ years} + (2008 - 1950) = 14.066 \text{ years ago}$. Approximately this year in the timescale a huge volcanic eruption happened.

This cataclysm is confirmed by the sudden rise in SO₄ by 86/ 80/ 82/ 66/ 64 for respectively the years 14063/ 14069/ 14074/ 14078/ 14082.

Ashes from volcanic eruptions usually stay in the same hemisphere as the erupting volcano. Only if the volcanic activity is happening close to the equator or is unusually forceful the sulphuric acid (SO₄) from it will show in the ice cores in both hemispheres i.e. in the cores from the Antarctic as well as those from Greenland.

Such an extraordinary forceful volcanic activity must have happened in the years 14063 to 14082 (high values of SO₄ in both time scales). Sulphuric acid from the same catastrophe is also seen in ice cores in the Southern hemisphere in Antarctica, but in a smaller scale. (See the Antarctica time scales above for the years 14.063 to 14.073).

So according to the ice cores results the spreading of SO₄ happened in different ways for Antarctica compared to Greenland. In the Southern hemisphere the passat winds carried the sulphur across the Equator down to Antarctica in a more intense and direct way, and for a shorter period about 10 years as the time scales show.

Regarding Greenland the passat winds transported sulphur for about 25 years in a constant and steady flow. The catastrophe must have been extraordinary forceful to be able to exceed the jet streams in the Northern hemisphere, provided they also existed about 14.000 years ago.

This indicates that the location of the megavolcano(es) was in the Northern Hemisphere.

Could this be the mega event that sank the former landmass we are talking about?

Due to the amount of SO₄ from the many volcanoes the climate on earth most likely became colder for a period, because the pollution of air and atmosphere lowered the warmth from the sun. Animal life and plant life was probably also influenced. If the temperatures continued to drop, this could have caused the latest ice age.

History / Culture

The classical philosopher and writer Plato (427 BC-347 BC) has described an oral account in detail about a big island in the Atlantic that disappeared in just one night. It was given to him through Solon (640 BC-599 BC) who heard it from Egyptian priests and passed it on orally to three persons till Plato heard it and wrote it down.

This is Plato's basic information:

- Atlantis was an island –

- It was situated in The Atlantic Ocean -

- It was bigger than Libya and Asia (Asia Minor) combined –

- The royal capital lay on a plain between the mountains and the sea –

- The minds of the kings were saturated with truth, gentleness and grandeur, but they degenerated -

- Atlantis went under about 9.000 years ago i.e. to day about 11.500 years ago -

The reason of this cataclysm was a decline and collapse of the culture in Atlantis, says Plato in his dialogue "Critias". (20).

According to Plato there is no doubt that a big number of individuals succeeded in fleeing in boats and reached the shores of both sides i.e. Africa and Central America.

Common features in the cultures on both sides of the Atlantic Ocean indicate a common origin coming from the middle of the Atlantic. It seems to be a highly developed culture that disappeared way before the culture of Mesopotamia arose.

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The most obvious common features are:

Pyramids – Flood and deluge legends – Languages – Words – Human types – Animal and plant life.

The pyramids

The pyramids are the most clear and weighty evidence of common features. Step pyramids are found nowhere else but in Egypt and in Mexico and South America except some minor ones in Iran called ziggurats. The pyramids in these two parts of the world are so alike that you cannot avoid thinking of a common origin, which could be a landmass in the ocean between.

Flood and deluge legends

You can find legends of floods on both sides of the Atlantic, actually in great parts of the world. They appear in legends of various kinds and in tales of the creation of the world.

The Epos of Gilgamesh is one of the oldest dating back to the 2nd millennium BC. It is a poem about the Babylonian hero Gilgamesh. In the New Testament (1 Mos. 6-8) there is a younger version that might be derived from Gilgamesh.

In the East flood legends have been found by the peoples of Babylon and Chaldea in India, Media and Greece and by the Jews, the Sumerians and other places.

In the West we find legends by the peoples of Mexico, Guatemala, Honduras, Peru and many Indian tribes of North America.

The Mexican document on the creation of the world, Codex Vaticanus (named after the place it is kept i.e. the Vatican), tells us about the 4 ages of time before our time. The 4th age of time disappeared in a flood.

The Mexican version of Noah (the one with the ark) is named Coxcox or Tezpi. Paintings of Coxcox have been found at the Aztecs, Miztecs, Zapotecs and other peoples, Donnelly says in his book "Atlantis – The Antediluvian World" 1882.

He narrates that the Toltecs have their own flood legend described by the native Mexican historian Ixtlilxochitl.

In one of the few preserved old Mexican scriptures the head of the god Quetzalcoatl is pictured together with the flood legend.

The Indian tribe Makushi in the northern part of Amazons talks of the legendary Makonem, the Prince from the Age of the Flood.

In Greek legends are mentioned a deucalic flood only survived by Deucalion and his wife.

Language

When the first explorers reached Central America they wondered how Europeans with a Basque dialect could communicate with the native peoples.

Accounts of how Europeans, the Basques, could entertain themselves with South American natives are found in history books from the 15th century.

A. Braghines, a well studied Atlantologist, says "*When in Guatemala, I often heard about one Indian tribe, living in the Peten district (northern Guatemala): this tribe speaks a language resembling Basque, and I have heard of an occasion when a Basque missionary preached in Peten in his own idiom with great success.*" (21).

Some quotations from other researchers:

F.W. Farrar says in Families of Speech: "*The unique language of the Basques' is not related to the rest of the European languages, but to the languages of the original inhabitants of the great opposite continent (America) and to their language alone.*" (22).

Kenneth Katzner writes in The Languages of the World, 1975:

"Basque stands alone among the languages of Europe. Despite many efforts, no connection between Basque and any other language has ever been proven. Structural similarities with certain languages in Asia have been noted, but as yet it must be considered a completely isolated and independent language."

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

“As the only non-Indo-European language of Western Europe, Basque would appear to be the sole survivor of languages spoken there before the Indo-Europeans arrived.” (23)

Words of the two completely separated races, the Mayans in Central America and the Hebrews in the Middle East, according to Marius Frandsen: “Atlantis – Realitet eller Utopi,” (24).

Maya-Indian language	Hebrew language	English
Been	Ben	Son
Batz	Bath	Daughter
Abagh	Abba vor pappa	Father
Molo	Maloc	King
Elab	Elab	God
Chanam	Chanan	Sad
Chic	Chi	More
Chabin	Chabic	Rich
Votan	Votan	To give

Names of cities

Ptolemaeus (Ptolemy), ancient geographer, astronomer mentions in “Geographia” five towns in Asia Minor. In Central America you can find 5 towns with the same place names:

Central America	Asia Minor
Chol-ula	Chol
Cholua-can	Colua
Zuivan	Zuivana
Colima	Cholima
Xalisco	Zalissa

Are these words and names accidental or do they originate from the same language?

Human types

Professor Retzius says in “Smithsonian Report”:

“With regard to the primitive dolichocephalae of America I entertain a hypothesis still more bold, namely, that they are nearly related to the Guanches in the Canary Islands ... We find one and the same form of skull in the Canary Islands, in front of the African coast and in the Caribbean Islands, on the opposite coast, which faces Africa. The color of the skin on both sides of the Atlantic is represented in these populations as being of a reddish-brown.” (25).

The Guanches lived in caves, they were not able to build ships and thus leave the Canary Islands.

Animal and plant life

There are many species of butterflies and ants in the Azores that exist only in Central America; The professors Heer and Unger support of botanical reasons the theory that some time during the tertiary period, an Atlantic continent did exist, as this is the only reasonable explanation of the likeness between the Miocene (c 10-25 million years ago) flora of Central Europe and what today exists in the eastern America.

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

Prof. Franz Unger:

“Es ist nicht zu läugnen, daß die tertiäre europäische Flora sowohl mit der nordamerikanischen Flora übereinstimmt, als zugleich anklänge die Flora der Atlantischen Inseln zeigt, die ja auch ihren gegenwärtigen vegetabilischen Character nach ebenso zu Amerika als zu Europa hinneigen.” (26).

Plato’s dialogues on Atlantis are known as THE source.

Fewer people know that another famous classical writer did mention the word Atlantis a generation before Plato :

The Greek Historian Herodotus (c.484 BC – c.425 BC) thus living BEFORE Plato (427BC -347 BC), writes in Greek about the Atlantic Ocean, which he calls the Atlantis Sea:

τὸ δὲ ἐν τῶν στομάτων τοῦ Ἀράξεω ῥέει διὰ καθαροῦ ἐς τὴν Κασπίην θάλασσαν. ἡ δὲ Κασπίη θάλασσα ἐστὶ ἐπ’ ἐωυτῆς, οὐ συμμίσγουσα τῇ ἐτέρῃ θαλάσῃ. τὴν μὲν γὰρ Ἕλληνας ναυτίλλονται πᾶσαν, καὶ ἡ ἔξω στηλέων θάλασσα ἡ Ἀτλαντὶς καλεομένη καὶ ἡ Ἐρυθρὴ μία τυγχάνει ἐούσα.

Herodotus: "History", book I, 202, Clio

It is not difficult to recognize the word "Atlantis" in the text above.

The classical Greek writer Homer was right regarding the location of the old town of Troy, which was found by the amateur archaeologist Heinrich Schliemann in 1872.

This has been confirmed today: The paleogeography of the ancient harbour of Troy was investigated using modern sedimentological techniques and was found to correspond closely to the Homeric accounts. (Kraft et al, 2003, Geology, 31, p. 163-166).

Is Herodotus also speaking the truth here regarding an Atlantic landmass?

Herodotus' world map from 450 BC

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

R. Cedric Leonard, educated in anthropology and classical culture, at Oklahoma City University, calls attention to the viewpoints by the Greek scholars Diodorus and Herodotus regarding a lost landmass in the Atlantic:

"Diodorus' "Atlanteans" were without doubt the survivors of the cataclysm and, finding themselves in North Africa, evidently retained memories of being ruled by the gods, "whose source was the ocean [i.e., the Atlantic]". It is more than interesting that Herodotus (450 B.C.) had already called these people "Atlanteans," and the ocean to the west of them the "Atlantis Sea" nearly a hundred years before Plato. And it is also curious that a people calling themselves "Atlanteans" happened to be living precisely in the area that survivors of such a catastrophe should be expected!"

Cedric concludes:

The point here, which cannot be gainsaid, is that Atlantis was known before Plato--so well-known that the sea outside Gibraltar was commonly called the Atlantis Sea in Herodotus' time. It had acquired that name because Atlantis had once occupied that area. (27).

Diodorus Siculus, a classical geographer:

"The Egyptians themselves were strangers who in very remote times settled on the banks of the Nile, bringing with themselves the civilization of their mother country, the art of writing and a polished language. They had come from the direction of the setting sun, and were the most ancient of men". (28).

After Plato died many classical writers have mentioned a disappeared island empire in the Atlantic, among others Aelian in "Varia Historia", 3 chapter18, Proclus, Greek philosopher, Marcellus, Roman consul, Diodorus Siculus, Greek historian (see above), besides Crantor, Plutarch, Pausanias, Theophrastus of Lesbos, Theopompus of Chios, Timagenes, and Aelianus.

From Plato: Critias:

Of great interest is what Plato says after concluding the description of the capital city of the Atlanteans:

"I have given you a pretty complete account of what was told me about the city and its original buildings; I must now try to recall the nature and organisation of the rest of the country. To begin with the region as a whole was said to be high above the level of the sea, from which it rose precipitously; the city was surrounded by a uniformly flat plain, which was in turn enclosed by mountains which came right down to the sea. The plain was rectangular in shape, measuring three thousand stades in length and at its midpoint two thousand stades in breadth from the coast. This whole area of the island faced south, and was sheltered from the north winds." (Critias. 117e-118a)

From Plato: Timaios:

"...from it [Atlantis] travellers could in those days reach the other islands, and from them the whole opposite continent which surrounds what can truly be called the ocean." (Tim. 24e-25a)

Mythology

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

Plato is the absolute historical authority of the former existence of an Atlantic landmass, which he called Atlantis. But before him was the Greek father of history, Herodotus, as seen above.

Other completely different legendary sources, much more recently, stem from The Azores. One of these is the following

O reino da Atlantida (The Realm of Atlantis)

In the Atlantic Ocean opposite the Pillars of Heracles, where Jupiter is situated today, was the mighty kingdom of Atlantis. Within Atlantis were ten kingdoms that were all under the supervision of Poseidon. The people of Atlantis behaved in an exemplary manner; they were not corrupt. All of Atlantis was like a pleasurable dream.

The earth produced valuable trees. There were mines with precious metals. Because of the incredible climate there was a fertile agriculture. Houses and palaces pleased the people. There were roads and bridges and the economic freedom left room for many artists and philosophers.

It was not hard for the Atlanteans to defend their realm against intruders envying them, and wanting to conquer mighty Atlantis. Thus they made themselves ready to defend their territory, their dignity weakened, and for the first time they felt like expanding their territory. The mighty army of Atlantis spread all over the known world and conquered nations and peoples. Agitated with their triumph they led vanity and pride rule and were attracted to corruption, a luxurious life and disrespect towards the gods.

Zeus called the gods for a meeting to punish the degenerated people of Atlantis. As a consequence of this the earth shook violently and the sky went dark as if it was night. Forests were burned down and the ocean demanded soil and ate towns.

The kingdom of Atlantis and its wealth disappeared for ever into the grandeur of the ocean. Nine of the highest mountains of this beautiful kingdom were not flooded. Later on minor islands and remains of this continent were populated. They are called the Azores and because of their mild climate and scenic beauty they remind us of Atlantis.

Translated from the Portuguese into Danish by Danilo. From the Danish into English by Carsten Skaarup.

This is an excerpt from an interview with chief editor Frank Joseph of Ancient American Magazine:

Interviewed by Linda Moulton-Howe:

- *Frank, where do you think all of this is headed?*

I know exactly where it is headed ... That discovery is going to be made. That's where it's headed, hopefully in our life time, but I would say definitely in the 21st century Atlantis will be found. I am really confident that is going to happen.

- *What happens to the academic world then?*

It is stood on its ear because the academic world has been demanding for the last 100 years that anybody who believed in Atlantis believes in fantasy, they don't know what they are talking about, they are very unscientific. And beyond that, they say civilization just began 5,000 years ago very slowly in Mesopotamia between the Tigris and Euphrates. Well, all of that is going to have to be thrown out! We are going to be

looking at something completely different now. In other words, all of the textbooks, our entire concept of where we came from is going to have to be changed."

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Abstract of scientific areas

Geology

Expeditions/analyses

1.

Charles S. Piggot:

U.S. Geological Survey, 1936. Deep core soundings at Mid-Atlantic Ridge.

Different sediment deposits on each side of the Ridge showed that the Ridge once separated two currents moving in opposite directions. Heavy deposits of volcanic ash on both slopes were dated at 12,000 years ago. Piggot, 1936 (1)

. . . *"It can therefore not be entirely ruled out that the Mid-Atlantic Ridge, where the sample originated, was above sea level up to about ten thousand years ago and did not subside to its present depth until later."* Pettersson, 1944 (2)

Professor Hans Pettersson comments:

"This ash must have originated in enormous volcanic eruptions of the volcanoes in the West Indies or, more likely, on the central ridge of the Atlantic ..."

Pettersson also confirms that there have been some findings:

"A weak pointer in this direction was a single link of a thin copper chain dredged up with the mud at a Monaco station southwest of Santa Maria" (an island in the Azores group). (2)

2.

Professor Hans Pettersson: "The Ocean Floor", 1954.

Deep sea deposits from the "Albatross" Swedish Deep Sea Expedition, 1948.

"...in the equatorial Atlantic Ocean, the Romanche Deep, 7,500 meters at that point. Although the sediment in the upper levels was largely fine grained and intercalated with thin dark streaks rich in organic remains ..." Pettersson, 1954 (3)

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

Most surprising of all, in the lowest stratum of this sand were found vegetable remains twigs, nuts, and bark fragments of dicotyledonous bushes or trees, bespeaking still more emphatically a continental or island origin. Finally, in the uppermost part of the same core Phleger and his co-workers (of Scripps Institution of Oceanography in La Jolla, (now in San Diego)) found a "displaced fauna" consisting of benthonic shallow-water foram shells which apparently had lived in depths of 100 to 200 meters." (Pettersson, 1954).

Petterssons conclusions to these findings:

"... One is at a loss to explain how these products of a coastal shelf and supramarine vegetation could have been carried to the position of the find at lat. 7 29' N., long. 45 1' W." (Pettersson, 1954).

3.

Dr. Otto Mellis at Mineralogical Department, University of Stockholm, was also surprised by the layers of sand in core sediments from the Romanche Deep. He concludes that its origin is most likely products of erosion from the Mid-Atlantic Ridge, when it was more or less above sea level, and that it was formed as beach sand produced on a coast line, not in the deep ocean. Mellis, 1958 (4)

4.

Dr. Maurice Ewing:

Woods Hole Oceanographic Expeditions to the Mid-Atlantic Ridge, 1948.

Numerous samples of tremolite asbestos were brought up. Ewing:

"Such rock is generally considered typical of continents and not of ocean basins." Ewing 1948, (5)

Important also was the discovery of "beach like terraces" beneath two miles of ocean water. Ewing cautiously observed:

... "Such a theory would require the obvious but almost incredible conclusion that the land has subsided two miles or else the sea has risen by that amount." (Ewing, 1948).

Another significant fact is that the deposits were found to be well-sorted by surf action into the usual pattern of shoreline beaches familiar to geologists. Miller & Scholten, 1966 (7). Ewing's conclusion was:

"Sometime in the distant past this sand found deep beneath the ocean must have been located on a beach, at or near the surface of the sea." Ewing, 1949 (6)

It became obvious that granite and sedimentary rocks *"which originally must have been part of a continent"* were abundant (Ewing, 1949).

Dr. Bruce Heezen, oceanographer with the Lamont-Doherty Geological Observatory, observed that this type of rock indicates *"possible sunken land masses"*. Heezen, Tharp & Ewing, 1959 (8)

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

... some (geologists) even conceding that there might be enough continental material (sial) in the mid-Atlantic to make up a landmass the size of Spain. De Camp, 1970 (9)

5.

Bruce C. Heezen, Maurice Ewing, D. B. Ericson, and C. R. Bentley:

Flat-topped Atlantis:

...*"One of the cobbles gave an apparent radiocarbon age of 12,000 years +/- 900 (J.L. Kulp). The state of lithification of the limestone suggests that it may have been lithified under subaerial conditions and that the seamount may have been an island within the past 12,000 years."*

...*"These youthful "guyots" may have originated as volcanoes which were later capped by limestone and more recently have sunk beneath the sea."*

Heezen, Ewing, Ericson & Bentley, 1954 (10)

6.

Professor of geology Charles Hapgood:

Seamounts with the common characteristics of being flat-topped:

"Apparently their tops were made flat by the action of the sea at the time they were at the sea level. Now the flat tops are submerged anywhere from a few hundred feet to three miles below sea level."

...*"Studies of fossilized foraminifera from the tops of some of the seamounts have revealed that they are much younger than the seamounts themselves."*

Hapgood, 1958-1999, (11)

7.

T.M. Alves et al., 2004:

The Atlantis Basin:

"The internal character and geometry of the interpreted seismic megasequences suggest that the Atlantis Basin is filled with a mixture of volcanic, organic, calcareous and siliciclastic sediments ..."

... *"Most seamounts show a characteristic guyot or tablemount morphology demotion at or near sea level."* T.M. Alves et al., 2004 (12)

8.

Geologist Marc-André Gutscher: Could the island Spartel be the lost Atlantis described by Plato?

Part of his conclusion:

"... Although the catastrophic destruction described by Plato is consistent with the geological and tectonic history of the Straits of Gibraltar, this does not imply that Atlantis ever existed. It simply means the account is geological plausible ..."

Gutscher, 2005 (13)

Biology

9.

Swedish Deep-Sea Expedition, Albatros, 1947-1948:

Dr. Kolbe says:

“One of the most interesting observations was the unexpected presence of many fresh-water diatoms in certain cores taken by the Albatross parallel to the coastline of Equatorial West Africa at a great distance off the coast.” (c. 900 km).

“My own investigations of the numerous cores collected by the Swedish Deep-Sea Expedition in the equatorial belt of the Pacific and Indian oceans did not reveal a single specimen of fresh-water species, except in the close vicinity of continents or large islands.

The novelty of the present observations lies in the constant occurrence of fresh-water diatoms in Atlantic deep-sea cores, the large number of individuals, and the relatively great variety of species.

“An observation concerning another group of objects of nonoceanic origin may be pointed out:

The regular and rather frequent occurrence of silicified epidermal cells belonging to terrestrial plants (Cyperaceae and Graminear) in many cores ... They are to be found in fresh-water sediments and sometimes in near-shore marine deposits but, to my knowledge, are not known in deep-sea sediments. In Atlantic cores they occurred together with Melosira granulate and were almost as common as this form.” Science, vol. 126, p. 1053-54. Kolbe 1957, (14)

10.

Dr. Malaise theorized that parts of the Ridge must have existed as large islands up to the end of the last Ice Age or later. He also theorized that these landmasses must have had fresh-water lakes in order to account for the existence of fresh-water animals. The species were all recent species, indicating that the fresh-water lake was in existence within the last 10.000 to 15.000 years. Malaise, 1956 (15).

Hans Pettersson says:

“A remarkably find by Kolbe in two cores from the equatorial Atlantic is the occurrence of typical fresh-water diatoms in considerable numbers. Since this find was made in localities several hundred miles from the coast of northwest Africa, the origin of these fresh-water diatoms is puzzling.” Pettersson, 1954 (17).

11.

Prof. N. Zhirov, a Russian chemist, reported in 1970 sand beaches and coral at depths of 2 miles south of the Azores. Confirmed evidence exists that sections of the Mid-Atlantic ridge have been above sea level in the past and [fresh-] water diatoms have been found 2 miles down in the Azores area dated 10,000 to 12,000 BC. Zhirov 1970, (19).

Ice coring

Antarctica core: See detail and scientific sources:

ftp://sidads.colorado.edu/pub/DATASETS/AGDC/waiscores/zielinski/volcanicSO4_SDMA11_98ka.txt

According to the unique sources available to Ocean Islands Survey Group the Atlantic landmass disappeared c 12.000 BC. i.e. c 14.008 years ago.

Related to the timescale above: 14.008 years + (2008-1950) = 14.066 years.

Approximately this year in the timescale a huge volcanic eruption happened.

This cataclysm is confirmed by the sudden rise in SO₄ by 64,89 and 40,98 for the years 14063 and 14073.

parameter 1: Age in years before 1950

parameter 2: Total sulfate in ppb

parameter 3: Volcanic sulfate based on robust spline analysis

Age in years before 1950	Total sulfate in ppb	Volcanic sulfate based on robust spline analysis
14000.02	75.93	0
14015.05	101.37	0
14027.99	79.02	0
14035.19	73.13	0
14042.38	85.53	0
14049.58	74.73	0
14056.78	71.09	0
14063.98	143.41	64.89
14073.35	113.54	40.98
14080.67	83.68	0
14088.1	65.12	0
14098.51	65.5	0
14110.41	72.4	0
14120.26	64.52	0
14138.64	62.61	0

Greenland core: See detail and scientific sources:

http://nsidc.org/data/gisp_grip/data/gisp2/chem/volcano.dat

The time scale is years counted from 1950.

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

Data:

age (yr) total sulfate (ppb) volcanic sulphate

age (yr)	total sulfate (ppb)	volcanic sulphate
14002.00	76.40	0
14004.00	81.90	7
14006.00	81.10	13
14008.00	97.30	0
14010.00	78.90	10
14012.00	41.60	0
14016.00	79.80	0
14022.00	95.10	0
14034.00	90.60	0
14040.00	132.00	2
14045.90	127.00	2
14051.70	88.40	0
14057.50	153.00	13
14063.30	193.00	86
14069.10	168.00	80
14074.10	188.00	82
14078.30	138.00	66
14082.50	166.00	69
14086.70	58.80	0
14090.90	69.70	0
14095.10	49.30	0
14099.30	60.50	0
14103.50	74.20	9
14107.70	88.10	12
14111.90	77.00	13
14115.90	66.80	0
14119.70	78.80	8

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Ashes from volcanic eruptions usually stay in the same hemisphere as the erupting volcano. Only if the volcanic activity is happening close to the equator or is unusually forceful the sulphuric acid (SO₄) from it will show in the ice cores in both hemispheres i.e. in the cores from the Antarctic as well as those from Greenland.

Such an extraordinary forceful volcanic activity must have happened in the years 14063 to 14073 (high values of SO₄ in both time scales).

History / Culture

The classical philosopher and writer Plato (427 BC-347 BC) has described an oral account in detail about a big island in the Atlantic that disappeared in just one night.

This is Plato's basic information:

- Atlantis was an island –
- It was situated in The Atlantic Ocean -
- It was bigger than Libya and Asia (Asia Minor) in all –
- The royal capital lay on a plain between the mountains and the sea –
- The minds of the kings were saturated with truth, gentleness and grandeur -
- Atlantis went under about 9.000 years ago i.e. to day about 11.500 years ago –

Common features in the cultures on both sides of the Atlantic Ocean indicate a common origin coming from the middle of the Atlantic.

The most obvious common features:

- Pyramids –
- Flood and deluge legends –
- Languages –
- Words –
- Human types –
- Animal life and plant life.

The Greek Historian Herodotus (c.484 BC – c.425 BC) thus living BEFORE Plato (427BC -347 BC), writes in Greek about the Atlantic Ocean, which he calls the Atlantis Sea:

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Mythology

This legend from the Azores serves as a representation for the big amount of mythological material in many languages regarding a former ocean island in the Atlantic:

O reino da Atlantida (The Realm of Atlantis)

In the Atlantic Ocean opposite the Pillars of Heracles, where Jupiter is situated today, was the mighty kingdom of Atlantis. Within Atlantis were ten kingdoms that were all under the supervision of Poseidon. The people of Atlantis behaved in an exemplary manner; they were not corrupt. All of Atlantis was like a pleasurable dream.

The earth produced valuable trees. There were mines with precious metals. Because of the incredible climate there was a fertile agriculture. Houses and palaces pleased the people. There were roads and bridges and the economic freedom left room for many artists and philosophers.

Everyone enjoyed the richness of their kingdom, not forgetting the act of war.

It was not hard for the atlanteans to defend their realm against intruders envying them, and wanting to conquer mighty Atlantis. Thus they made themselves ready to defend their territory, their dignity awoke, and for the first time they felt like expanding their territory. The mighty army of Atlantis spread all over the known world and conquered nations and peoples. Agitated with their triumph they led vanity and pride rule and were attracted to corruption, a luxurious life and disrespect towards the gods.

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1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

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Super abstract of scientific areas

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The Mid-Atlantic Ridge:

The discovery of "beach like terraces" beneath two miles of ocean water. *This sand found deep beneath the ocean must have been located on a beach.*

Granite and sedimentary rocks *which originally must have been part of a continent were abundant.* Ewing, 1949 (6). This type of rock indicates *"possible sunken land masses"*. Heezen, Tharp & Ewing, 1959 (8)

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Flat-topped Seamount Atlantis:

The state of lithification of the limestone suggests that it may have been lithified under subaerial conditions and that the seamount may have been an island within the past 12,000 years." Heezen, Ewing, Ericson & Bentley, 1954 (10)

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The Atlantic Ocean:

Unexpected presence of many fresh-water diatoms in certain cores taken by the Albatross parallel to the coastline of Equatorial West Africa at a great distance off the coast (c. 900 km).

Objects of nonoceanic origin: silicified epidermal cells belonging to terrestrial plants (Cyperaceae and Gramineae) in many cores.

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This fact disproves the theory that Plato himself invented the story.

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The unique material

All the above mentioned scientific data from the different areas are collected to confirm the actuality of our unique material.

The 16 pieces of text below form the basis of this unique material.

The texts stem from a small group of Danish researchers in the beginning of the 20th century. Their work covers a vast range of subjects, whereas this subject is only a small fraction. It was published in 1920.

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It must be said though that the full perception of the culture of this landmass, its fall and destruction etc. cannot be understood separated from their work as a whole.

Regarding the description of a sunken landmass, its location, culture and destruction, we shall leave it to the reader to evaluate the relevance of this material.

For a better general view this text is divided into 16 parts. Most parts are given one or several numbers, referring to the same number in the scientific papers' text. This is done to show their match.

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

1. The second empire that perished was a large island in the Atlantic Ocean, the so-called Atlantis. In the remote past this island was connected with the southern part of North America, but through volcanic activity it became separated from the mainland. (1, 2, 4, 5, 6, 7, 8, 10, 25, 26)
2. The shape of the island can reasonably well be compared to a diagonally elongated, inverted Latin "S" - the upper curve at the right, and the lower at the left. The island's northernmost point extended to about latitude 40 degrees North, longitude 34 degrees West. The island extended south to about latitude 25½ degrees North, and west to longitude 47 degrees West, latitude 27½ degrees North, and eastward to about longitude 28 degrees West. An imaginary line from the town of Plymouth in England to the centre of the island of Trinidad would cut through the length of the island and touch its easternmost and southernmost points. Thus, the larger half of the island would lie west of this line. The position given is only an approximate one, since the coastline of the sunken island is constantly changing due to major or minor upheaval and subsidence in the ocean floor; investigations that might be undertaken would show it to be within the indicated area. (2, 11, 12, 13, 14, p 10: Physiographic diagram)
3. The area of the island was 5/6 that of the Iberian peninsula. The Azores, located North North East and East of the island, were uninhabited at that time, but they had been connected with it in a more remote past. (4, 9, 11)
4. Some minor groups of islands were situated between the Azores and the Iberian peninsula; there were also some small islands South West and South East of the Atlantic island, but all of these have now disappeared. (4)
5. This island empire was destroyed about 12,000 B.C. by subsidence of the ocean floor in conjunction with violent volcanic eruptions. (1, 2, 4,)
6. Earthquakes and volcanic activity ravaged the entire island for about ten months until the final catastrophe completely destroyed and obliterated the rich and cultured empire within a few hours. The final eruption created a flood, the effect of which reached far and wide. The memory of this flood is still retained in the ancient legends of many peoples. (20, p. 18: Flood and deluge legends).
7. Polytheism predominated here also, but at that time without human sacrifice. However, animals were sacrificed throughout the island. The inhabitants were sun and fire worshippers. The people were generally at a high cultural level. The priests had quite an advanced knowledge of astronomy - several were [astrologers](#) or magi - and were able to distinguish between the planets and the fixed stars and to calculate approximately the eclipses of the sun and the moon; however, they attributed these phenomena to the intervention of an evil spirit.
8. The art of printing made its first primitive appearance on this island, the priests having managed, by a form of hectography, to produce multiple copies of the written accounts. For this purpose an extract of crushed animal and fish bones was used, which after careful distillation was poured into flat earthenware moulds. Closely woven fabrics of plant fibres were used, since neither papyrus nor parchment was known at the time. Impressions were made with a printing ink consisting mainly of burnt bone mixed with some adhesive substance. Pictographic text was mostly used, though ideographs were used in some places.
9. Agriculture, hunting, fishing and a certain amount of animal husbandry were known. Several of the merchants traded with the surrounding islands and the nearest mainland coasts. The production by hand of clay utensils was widespread. (p. 22: Plato: Timaios)
10. Basins, bowls and vases were often engraved with ornamental animals and leaves, whose outlines were filled in with brilliant colours. Gold, copper and to some extent silver were all known and used for jewelry and finer utensils, as well as for inlays in the carved wooden images of the gods. Many such images were hewn in stone or formed out of various metallic alloys. The art of building was especially highly developed. Lyrical poetry was coming into being, especially in the form of religious hymns that were intoned by the priests to the

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

accompaniment of the beating of cymbal-like copper plates at the sacrificial rites. The cult of death was known over the entire island.

11. The island was divided into three realms that had a common sovereign ruler. In one of the realms the succession to the rulership descended by both the male and the female lines. The supreme ruler was in addition the chief servant of the temple.

12. On this island the eldest of the Youngest (a special religious person) was incarnated for the third time, as prince and high priest.

13. He was greatly loved by the people for his humane and gentle rule, he made several religious and ethical laws, but his attempts to abolish polytheism did not succeed. His incarnation on this island left few traces upon the culture of the people, since he died in the same year that the island disappeared into the sea. His memory lived with those who escaped the destruction by fleeing and was preserved through many generations. He was regarded as a divine emissary.

14. Some of the islanders who survived the catastrophe fled via the intervening islands to the coast of North Africa and slowly, through several generations, migrated as nomads eastward to the valley of the Nile, where they settled. Legendary accounts can be found in ancient Egyptian scriptures telling of a God of the Light who for a time assumed human form. These accounts refer to the incarnation of the eldest of the Youngest on the vanished island. (27, 28, p. 18: Pyramids)

15. A few individual islanders fled to the Iberian Peninsula and were assimilated by the people living there; others reached Central America, where they encountered descendants of the Titi huans (or Mlawayans). After long and bloody conflicts they succeeded in seizing territories extending from the peninsula now known as [the Yucatan](#), over the Isthmus of [Panama](#) to the northwestern coast of South America. From there they spread northward to large areas of Mexico and southward and south westward along the coast to the lands that are now known as Peru and the upper part of Chile. (21, 22, 23, 24)

16. The culture that they brought with them became greatly influenced by that of the Titi huans, especially with respect to idolatry and the associated human sacrifice. The people from the island kingdom gradually merged with the Titi huans, their culture degenerated and their descendants, the Nahuacans, Aztecs, Incas, Toltecs and several other tribes whose names are only remembered in ancient Indian legends, never attained the high cultural level of the Island people. (24)

Conclusion

This part of the unique material, which is presented here, was produced in the years 1913-17 and published in 1920 in the Danish.

At that time the Mid-Atlantic Ridge and plate tectonics were not yet discovered.

Accordingly we have two different sources of information from a different time period on the same subject: The possibility of a former landmass in the Atlantic Ocean.

The two sources supplement and confirm each other in several basis areas:

- A former landmass did exist
- It disappeared 10.000 to 15.000 years ago
- Historical texts from both sides of the Atlantic Ocean refer to an Atlantic landmass
- Similar cultural manifestations (pyramids, mummies, language etc) are found on both sides

1 Scientific papers supporting the theory of a former landmass in the Atlantic Ocean

The scientific papers include several citations by scientists wondering how evidence of land could be found in core samples way out in the Atlantic Ocean. Some of them even conclude that here must have been land.

It seems clear that a closer investigation of the Atlantic Ocean bottom on basis of this report has a good chance of success, revealing artefacts from a former culture.

Ocean Islands Survey Group does possess relevant additional material for this purpose.

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