1. INTRODUCTION

The Pripyat-Europeaian Rift System is the largest rift system in the East European Craton. The Pripyat Rift is the south-western part of the rift system. It is covered by Devonian and Carboniferous sediments and is the site of several major volcanic centers. The Pripyat Rift is a major tectonic feature of the Eastern Europe, and its geological evolution is of great interest to volcanologists and geologists.

The main aims of this study are:
1. Determination of the tectonic setting and the volcanic history of the Pripyat Rift.
2. Identification of the volcanic rocks and the petrological characteristics of the rift.
3. Analysis of the geochemistry and mineralogy of the volcanic rocks.

2. GEOLOGICAL SETTING

The Pripyat Rift consists of several parts, which are rift marginal areas (the Zholobov saddle, the Pripyat Graben, the North Pripyat Shoulder, and the Pripyat Shoulder). The rift marginal areas are characterized by a series of volcanic centres, which are composed of a variety of rock types, including basaltic, andesitic, dacitic, and rhyolitic rocks.

3. METHODS

During our research, we have studied more than 100 rock samples. The most common methods used in our research include petrographic analysis, geochemical analysis, and mineralogical analysis. The petrographic analysis was carried out using a polarizing microscope. The geochemical analysis was performed using ICP-MS and ICP-OES techniques. The mineralogical analysis was carried out using X-ray diffraction techniques.

4. ROCK STUDY

We have identified a variety of volcanic rocks in the Pripyat Rift, including basaltic, andesitic, dacitic, and rhyolitic rocks. The volcanic rocks are characterized by a variety of petrographic and mineralogical features, which are indicative of their tectonic setting and volcanic history.

5. CONCLUSIONS

Our research has provided new insights into the tectonic and volcanic history of the Pripyat Rift. We have identified a variety of volcanic rocks, which are characterized by a variety of petrographic and mineralogical features. The volcanic rocks are indicative of a variety of tectonic conditions and volcanic processes, which have affected the Pripyat Rift over its geological history.

6. FURTHER WORK

Future studies on the Pripyat Rift will focus on understanding the tectonic and volcanic processes that have affected the Pripyat Rift over its geological history. We will also focus on understanding the geochemical and mineralogical evolution of the volcanic rocks, which will provide new insights into the tectonic and volcanic history of the Pripyat Rift.

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