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## The age of zircon from crustal granitoids of the Vovcha and Huliaipole blocks: the history of the Earth crust formation of the Azov domain of the Ukrainian Shield

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*The studied area comprises the junction zone of the Huliaipole granite-greenstone block with the Vovcha and Remivka granulite-granit blocks. The Vovcha and Remivka blocks are composed of Archean quartz-feldspathic gneisses (>80%), also containing remnants of high-metamorphic rocks of the West-Azov series. The Huliaipole Block is composed of rocks of the West-Azov series and a Mesoproterozoic granite-greenstone complex (3.2–3.0 Ga), which includes the Kostivtsiv greenstone structure and TTG rocks of the Shevchenko complex. Granitoids are widespread in the area. Archean TTG rocks of the Shevchenko Complex were formed by partial melting of a mafic protolith. The later granitoids of the southern part of the Vovcha block and Dobropillya Complex are still poorly studied. According to petrological data, granitoids of the Dobropillya Complex were formed due to high degree (>50%) melting of the older crust, which consisted of granitoids and metamorphosed ultramafic and mafic rocks. In the Dobropillya granitoids, inherited zircon significantly prevails and, therefore, it is hard to determine the time of crystallization of these rocks. Seventy-nine LA-ICP-MS determinations of U-Pb isotope ages were performed on zircon from granite-porphry of the Vovcha block. The age of this rock has been estimated by the modal 207Pb/206Pb age of the main zircon population as 2840±10 Ma. A small amount of older (up to 3624 Ma) grains has also been detected. Seventy-six LA-ICP-MS U-Pb age determinations were performed on zircon from granodiorite of the second intrusive phase of the Dobropillya massif. In this rock, four main zircon populations can be distinguished. The two oldest peaks (3905 and 3435 Ma) correspond to zircons inherited from an ancient protolith. The main zircon population has a weighted average 207Pb/206Pb age of 2847±20 Ma. Thus, the main zircon populations in the crustal granitoids of both the Vovcha and Huliaipole blocks have an age of 2.8–2.9 Ga. Granitoids of this age have not yet been found in this area and, therefore, there is no clear interpretation of their source. The Archean crust, from which the crustal granitoids of the Vovcha and Huliaipole blocks might have been melted, also included Eoarchean (3.9 and 3.8 Ga), Paleoarchean (3.6–3.2 Ga), and Mesoproterozoic (3.15–2.95 Ga) rocks. A small group of younger (2350–2135 Ma) zircons reflects the influence of Paleoproterozoic processes, either partial loss of radiogenic lead or the crystallization of a new zircon population. The obtained geochronological data indicates that the Early Precambrian crust of the west-Azov block was formed from 3.9 to 2.1 Ga.*

**Keywords:** crustal granite; West Azov; Vovcha block; Huliaipole block; Dobropillya massif; zircon; U-Pb age LA-ICP-MS method.

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## **Table of Contents Vovcha Ferma**

1. Understanding the eBook Vovcha Ferma
  - The Rise of Digital Reading Vovcha Ferma
  - Advantages of eBooks Over Traditional Books
2. Identifying Vovcha Ferma
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Vovcha Ferma
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vovcha Ferma
  - Personalized Recommendations
  - Vovcha Ferma User Reviews and Ratings
  - Vovcha Ferma and Bestseller Lists
5. Accessing Vovcha Ferma Free and Paid eBooks
  - Vovcha Ferma Public Domain eBooks
  - Vovcha Ferma eBook Subscription Services
  - Vovcha Ferma Budget-Friendly Options

6. Navigating Vovcha Ferma eBook Formats
  - ePub, PDF, MOBI, and More
  - Vovcha Ferma Compatibility with Devices
  - Vovcha Ferma Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Vovcha Ferma
  - Highlighting and Note-Taking Vovcha Ferma
  - Interactive Elements Vovcha Ferma
8. Staying Engaged with Vovcha Ferma
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Vovcha Ferma
9. Balancing eBooks and Physical Books Vovcha Ferma
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Vovcha Ferma
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Vovcha Ferma
  - Setting Reading Goals Vovcha Ferma
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Vovcha Ferma
  - Fact-Checking eBook Content of Vovcha Ferma
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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