COMMENTS OF ARTICLE

Article: Modernization of Height System in Vietnam Using GNSS and Geoid Model

The abstract is not a summary of the article. The author has just introduced about geoid of Vietnam in 2010. The last part of the abstract said that the article presented a new method for dealing with GNSS and geoid model but did not say what the new method was. The abstract should be rewritten according to the abstract of the article, including: Purpose of the research; Research Methods; main research contents; Main research results.

The layout of the article is not in accordance with the general provisions of the international article. The regular article layout includes: 1. Introduction; 2. Research data and research area; 3. Research method; 4. Research results; 5. Conclusion.

The introduction has not been reviewed by related studies that have been done in the world and in Vietnam. Need to answer the questions: How have countries in the world modernized the height system? By what data? and which methods to use? What were the results? What studies have been done in Vietnam on this issue? What data to use? Which method is used? What were the results? From which, what are the issues that need research? The introduction does not include references.

In section 2:

This information is meaningful, but it is necessary to add drawings showing the elevation networks, points of the GNSS network ... The geoid construction information in 2001 was incorrect.

No information on how the height system of Vietnam has been handled? What is the current situation that needs modernization?

In section 3:

In this section, the author only shows what will be done to build the national height system. The author did not analyze and indicate which part of the article 8 studies.

In section 4:

Information in the first part of section 4.1 should be presented in the introduction.

The following section of section 4.1 is a free adjustment algorithm for the example model network. Why not the theoretical basis of the method or the empirical network?

The symbols in equation (1) and in the explanation do not match the symbols in figure 2

In equation (3), what are f and v?

Why choose a four-parameter model according to Heiskanen and Moritz (1967)?

In the sentence "System of equations (15) is solved with the following conditions:"

(15) is not true, must be (10).

Concluding section:

The first conclusion is not drawn from the research contents.

References are quite few and old, the latest is 2013. In recent years, there have been many studies on this issue in the world, which need additional.

The important problem of the problem is to determine the height anomalies correctly. The article has not covered that problem yet.

What are the new issues of the article? This is important to clarify.