

REVIEW OF THE MASTER THESIS BY SCIENTIFIC SUPERVISOR

Topic of the master thesis Features of formation of gas hydrates in Deryugin Basin-Sea of Okhotsk

Author (student) YU ZENGZHAO

Educational program Cold Regions Environmental Landscapes Integrated Science (CORELIS)

Level: Master's program

Scientific Supervisor Alexey A. Krylov, Dr, docent

(Full name, academic title, academic degree)

Reviewer Elizaveta A. Logvina, VNIIOkeangeologia, senior scientist, Dr.

(Full name, place of work, position, academic title, academic degree)

Professional Requirements	5	4	3	2	*
Relevance of the final graduation work topic	x				
The degree of the question's survey completeness and the correctness of the problem's statement		x			
Level and correctness of use in the work of research methods, mathematical modeling, calculations, etc. ;	x				
The degree of work's complexity, application of knowledge of general professional and special disciplines in it;		x			
Clarity, consistency of research and validity of the presentation;	x				
Application of modern software, cartographic using GIS, computer and other technologies;	x				
Quality of work's design (general level of literacy, writing style, quality of illustrations, compliance with the standard);		x			
The volume and quality of the execution of the graphic material, its conformity to the text;	x				
Originality and novelty of the results, research and application solutions		x			
The degree of independence of the work performed;		x			

* - not evaluated (difficult to assess)

Noted advantages of master thesis The Ms thesis provides a good overview of methods for gas hydrates prospecting and mining. YU ZENGZHAO made calculations of the hydrate stability zone in the Deryugin Basin, and showed the dependence of the stability zone thickness on the gas composition. Thus, Yu ZENGZHAO become familiar with the methods of predicting submarine gas hydrates formation areas using the Deryugin Basin as an example.

Noted disadvantages of master thesis: References to figures are not always correctly indicated in the text of the master's thesis. References to literature in the text are also not always placed correctly. It would be worth doing more calculations of the thickness of the hydrate stability zone.

Scientific Supervisor 's conclusion The results of YU ZENGZHAO research meet the requirements for final qualifying works.



Scientific Supervisor _____

«01» June 2022