REVIEW OF THE SCIENTIFIC SUPERVISOR OF THE FINAL GRADUATION WORK

Topic of the final graduation work Model	ing of Arctic L	acustrian Eco	system
Under Climate Change			
Author (student)Ying Yang			
Educational program Cold Regions Environmen	ntal Landscape	s Integrated Sc	iences (CORELIS)
Class Level: Master's program			
Scientific Supervisor_Dr.Fedorova Irina Viktoro	ovna, Associate	e Professor	
Professional Requirements	Corresponds	Mostly correspond	Not correspond
to be able to correctly formulate and set tasks (problems) of their activities in the performance of work, analyze, diagnose the causes of problems, determine their relevance		+	
to be able to use, process and analyze modern scientific, statistical, analytical information;		+	
own modern methods of analyzing and interpreting the information received, to assess their capabilities in addressing the tasks (problems)		+	
to be able to rationally plan the time of work's performance, determine the correct sequence and volume of operations and decisions in the performance of the task;		+	
be able to evaluate objectively the results of calculations and calculations;		+	
to be able to analyze the results of data interpretation;	+		
know and apply methods of system analysis;		+	
be able to implement interdisciplinary research;		+	
to be able to make independent substantiated and reliable conclusions from the work done		+	
to be able to use scientific literature and a professional orientation		+	
to be able to apply modern graphic, cartographic, computer and multimedia technologies in the study to be able to use cartographic methods using GIS		+	
to be able to use cartographic methods using Gis		+	
Noted advantages of work			
Ying Yang has used modeling in FLAKE in he from different regions. Using climate scenario			_
lakes and to show differences of variation.			
Noted disadvantages of work			

Unfortunately only surface water temperature and ice period	duration are modeled in the work.
Bottom temperature and hydrophysical dynamic in the lakes	could be also quite important for
scientific results caring out.	

The list of reviews are very shot – only 6 articles! The topic of heat flux and ice covering	g change
for lakes are very significant and discussible in current scientific papers. Author can have	e more
overviews as well.	

Supervisor's conclusion	
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Ying Yang is able to work on her tasks detail and carefully. The diploma follows the requirements for the graduate qualification work of the Master, the author can be awarded a Master's qualification on "Ecology and environmental management."

Supervisor _______Fedorova I.V. «_11_» _____June______2022 year.