

Министерство науки и высшего образования Российской Федерации"

Федеральное государственное образовательное учреждение высшего образования"

«Северный (Арктический) федеральный университет имени М.В. Ломоносова»"

"

"

"

"

"

"

"

"

"

"

"

"

"

KK

*

"

/

"

""

"

""

"

. '38652"

"

'4242"

+"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

Архангельск"

САФУ"

4243"

"

УДК 0.01"

ББК 72"

А 43"

"

"

"

<Кузнецова М.Н., Шишкина А.В."

"

"

"

"

"

"

"

"

" " "]Электронный ресурс_<"сборник материалов" КК Всероссийской научно/практической конференции"/ сост."М.Н."Кузнецова, А.В. Шишкина; Сев. (Арктич.) федер. ун/т им. М.В. Ломоносова. –"Электронные текстовые данные. –Архангельск: САФУ, 20210–"; 69"е0'

"

КДР"; 9: /7/483/23755/: "

"

Сборник содержит материалы Всероссийской научно/практической конференции «Актуальные вопросы инновационного развития Арктического региона РФ», филиал САФУ в г. Северодвинске"38–30 ноября 2020"года)."

"

УДК 0.01"

ББК 72"

"

В"авторской редакции0

"

"

"

"

"

Издательский дом им. В.Н. Булатова САФУ"
163060, г. Архангельск, ул. Урицкого, д.56"

"

"

"

"

"

КДР"; 9: /7/483/23755/: "*****© Кузнецова М.Н.,"Шишкина А.В., составители, 2021"

*****© Северный (Арктический) федеральный "

*****университет имени"М.В. Ломоносова, 2021"

" " "

" " "

" 0 0" " " " " " " " 37"

" 0 0' " " " " / " " 42"

" 0 0" " 0 0' " " " " " 47"

" " " " " " " " "

" " " " " " " " "

" 3030' / " " " " " " " 53"

" 0 0" " " " " " " " 58"

" 0 0" " " " " " " " 63"

" 0 0' " " " " " " " 68"

" 0 0" " " " " " " " 73"

URGGFTCO "6222"

" 0 0" " 0 0" " " " " " " 7:"

" 0 0" " " " " " " " 84"

" 0 0" " " " " " " " 89"

" " " " " " " " "

" 3050' " " " " " " " "

" 0 0" " " " " " " " 98"

" 0 0" " 0 0" " " " " " " :4"

" 0 0" " " " " " " " " :8"

" 0 0" " 0 0" " " " " " " ;2"

" 0 0" " " " " " " " " ;8"

" 0 0" " 0 0" " " " " " " 327"

" 0 0" " " " " " " " " 332"

"	"	"	"	"	
" 0 0"	" 0 0'	"	"	"	" 337"
"	"	"	"	"*	+ " "
"	"	"	"	"	" 33; "
"					
" 0 0'	" 0 0"	"	"	"	" 345"
" 0 0"	" 0 0'	"	"	"	" 34; "
"	"	"	"	"	
" 0 0"	" 0' 0"	"	"	"	" 355"
"	"	"	"	"	
" 0 0'	"	"	"	"	" 35; "
"	"	"	"	"	
" 0 0'	"	"	"	"	" 367"
"					
" 0 0"	" 0 0"	" 0 0'	"	"	" 36; "
"	"	"	"	"	"
'3060'		" "		/	
"	"	<"	"	/	
"	"	" "	"		
" 0 ."	" 0 "		"		" 376"
" "	" /				
" 0 0"	" 0 0'	"	"	"	" 37; "
"	"				
" 0 0"	" 0 0'	"	"	"	" 385"
" "	" "	"	"	"	
" 0 0'	"ë	ì"	" "	"	" 38; "
"					
" 0 0'	" 0 0"	"	"	/	" 395"
" /	"				
" 0 0"	" 0 0"	"	"	"	" 39; "
"					
" 0 0"	" 0 0'	"	"	"	" 3: 8"
"	"	"	"		
" 0 0"	" 0 0'	"	"	"	" 3: ; "
"	"	"	"		
" 0 0"	" 0 0'	"	"	" "	" 3; 5"
"	"	"	"		
" 0 0"	" 0 0"	"	"	" "	" 3; ; "
"	"	"	"		
" 0 0"	" 0 0'	"	"	"	" 425"
"	"	" "	"		

" 0 0" " 0 0" " 0 0" " 42;"
 " " " "
 " " "
 " 0 0" " 0 0" " / " 435"
 " " "
 " 0 0" " 0 0" " " " 439"
 " " "
 " 0 ." " 0 " " Y GD/ " 443"
 " " "
 " 0 0" " " " " " 447"
 " " "
 " 0 0" " " " " " 455"
 " " "
 " 0 0" " 0 0" " 0 0" " 459"
 "
 " " "
 " 3070" " " " " "
 " " "
 " 0 0" " 0 0" " " " 464"
 " " " UKGO GP U" UKO CVK" U9/3422" "
 " " "
 " 0 0" " 0 0" " " " " " 46;"
 " " "
 " Y CXG/ " " " " " UKGO GP UPZ"
 " 0 0" " 0 ." " 0 ." " 0 0" 474"
 " " "
 " " "
 " 0 0" " 0 0" " " " ." " 47;"
 " " "
 " 0 0" " 0 0" " " " " " 485"
 " " "
 " " "
 " " "
 " 0 0" " 0 0" " " " " " 492"
 " " "
 " " "
 " 0 0" " 0 0" " " " " " 49;"
 " " "
 " 0 0" " " " " " " " 4: 4"
 " " "
 " " "
 " 0 0" " 0 0" " 0 0" " 4: 8"

"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"
"	'3080'	" "	" "	" "	" "	" "	"
"	" 0 0"	" 0 0"	"	"	"	" 4; 4"	"
"	" 0 0"	"	"	"	"	" 4; 7"	"
"	" 0 0"	" "	" "	"	"	" 4; ;"	"
"	" 0 0"	" 0 0"	"	"	"	" 525"	"
"	" 0 0"	"	"	"	"	" 529"	"
"	"	"	"	"	"	"	"
"	" 0 0"	"	"	"	"	" 533"	"
"	" 0 0"	"	"	"	"	" 536"	"
"	" 0 0"	" 0 / 0"	" "	"	"	"	"
"	" 0 0"	"	"	"	"	" 539"	"
"	" 0 0"	"	"	"	"	"	"
"	" 0 0"	" 0 0"	"	"	"	" 547"	"
"	" 0' 0"	"	"	"	"	" 54; ;"	"
"	" 0 0"	" 0 "	"	"	"	" 553"	"
"	" 0 0"	" 0 0'	"	"	"	" 558"	"
"	" 0 0"	"	"	"	" UNE"	"	"
"	" 0 0"	"	"	"	"	" 562"	"
"	"	"	"	"	"	"	"
"	" 0 0"	"	"	"	" ē	"	" 56; ;"
"	" 0 0"	"	"	"	" i"	"	" 576"
"	"	"	"	"	" OCVNCD"	"	"
"	'3090'	"	"	"	"	"	"
"	"	"	"	"	"	"	"
"	" 0 0"	" 0 0"	" 0 0'	"	"	" 579"	"
"	" 0 0"	"	"	"	"	" 0 0"	" 585"

	" 0 0"	" 0 0"	" 0 0"	
	" 0 0"	" 0 0"	" 0 0"	" "
	" "	" "	" "	" "
	" "	" "	" "	" 589"
	" 0 0"	" 0 0"	" 0 0"	" 595"
	" "	" "	" "	" "
	" 0 0"	" 0 0"	" 0 0"	" 598"
	" "	" "	" "	" "
"				"
	'30 0'	" "	" "	"
		" "	" "	"
	" 0 0"	" "	" "	" 5; 3"
36/37"	" "	" "	" ē	" "
	" 0 0"	" 0' 0"	" 0 0'	" 5; 7"
	" "	" "	" "	" "
	" 0 0"	" 0 0"	" 0 0"	" 5; :"
	" "	" "	" "	" "
	" "			" 5; 4"
	" "	" "	" "	" "
	" 0 0"	" 0 0"	" "	" 5; 7"
	" "	" "	" "	" "
"	" "	" "	" "	" "
	" 0 0"	" "	" "	" 622"
"	" "			" "
	" 0' 0'	" /	" "	" 625"
"	" "			" "
	" 0 0'	" "	" "	" " 628"
"	" "	" "		
	" 0' 0	" "	" "	" 633"
	" *	" "	" ē	" 635"
"	" 0 0"	" 0 0"	" 0 0"	" "
	" "	" "	" "	

"

'403

"	"	" "	"	"	"	"
"	"	"	"	"	"	"
" 0 0'	"	"	"	"	"	" 639"
"	"	" "KP UVCI TCO"	"	"	"	"
" 0 0'	"	"	" "[qwVwdg"I tgcv"Dtkckp<"	"	"	" 643"
"	"	"	"	"	"	"
" 0 0"	" 0 0'	"	"	"	"	". 647"
" "	" "	"	"	"	"	"
" 0 0'	"	"	"	"	"	" 64; "
"	"	"	"	"	"	"
" 0 0'	" "	" "	" "	" "	"	" 657"
"	"	"	"	"	"	"
" 0 0'	/	"	" "	"	"	" 662"
" "	"fch/	"	"	"	"	"
" 0' 0	" "	"	"	"	"	" 666"
" 0 0'	" "	" "	" "	" "	"	" 66: "
"	/	"	"	"	"	"
" 0 0'	"	"	" "	" "	"	" 676"
"	"	"	"	"	"	"
" 0 0"	" 0 0'	"	"	"	"	" 67: "
"	"	" "	"	" jctdci g)" "	"	"
'PCVKQP CN'I GQI TCRJ KE"						
" 0 0"	" 0 0'	"	"	"	"	/ 684"
"	"	" "	"	"	"	"
"	"	"	"	"	"	"
" 0 0"	"	" "	"	" vgcej gt" "	"	" 694"
" "	"	"	"	"	"	"
" 0 0'	"	" "	"	" "	" "	" 698"
"	"ZKZ"	"	"	"	"	"
" 0 0"	" "	" "	"	"	"	" " 69; "
"	"	" "	"	" "	"	"
0 0'	"	"	"	" "	" Nkpi wkukke" 6: 5"	"
ej ctcevgtkukkeu"qh'ur ggej "						
" 0 0"	"	"	"	"	"	" 6: 9"
" "	" "	" "	" "	" "	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
" 0 0' 0 0'	" " 0 0'	" "	" " "é	" "	" " i" " 6; 3"	"

"	"	"	"	"	"	"
" "	" "	"	"	"	"	"
" 0 0'	"	"	"	"	"	" 6; 7"
" "	"	"	"	"	"	"
" 0 0'	"	"	"	"	"	" 6; ; "
"	"	"	"	"	"	"
у́лова"	0' 0'	"	"	"	<	" 724"
" "	"	"	"	"	"	"
" 0 0'	" 0 0'	"	"	" 62/72/ "	" ZKZ	< 72; "
" "	"	"	"	"	"	"
" 0 0'ë	"	ì	"	"	"	" 736"
0 0'	ë	"	"	ì	"	"
" 0 0'	"	"	" ZZK	" "	"	" 73; "
" 0 0'	"	"	"	" "	"	" 745"
" "	"	"	"	"	"	"
"	"	"	"	"	"	"
'460'	"	"	"	/	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
" 0 0' "	"	"	"	"	"	" 749"
<	"	"	"	"	"	"
" 0 0'"'	"	"	"	"	"	" 753"
"	"	"	"	"	"	"
" "	"	"	"	"	"	"
" 0 0'"	" 0 0'"	"	" 0 0'"	"	" 0 0'"	757"
"	"	"	<	"	"	"
"	"	"	"	"	"	"
" 0 0'"	" 0 0'"	"	"	"	"	" 762"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
" 0 0'	"	"	"	" 7/9"	"	" 766"
"	"	"	"	"	"	"
" 0 0'	"	"	"	"	"	" 773"
"	"	"	"	"	"	"
" 0 0'	"	"	"	"	"	." 777"
" "	"	"	"	"	"	"
" 0 0'"	" "	"	"	"	"	" " 77; "
" "	"	"	"	"	"	"
" 0 0'"	" 0 0'	"	"	"	/	785"
"	"	"	"	"	"	"
"	/	"	"	"	"	"
" "	"	"	"	"	"	"
" 0 0'"	" 0 0'	"	"	"	"	" 789"
" "	"	/	"	"	"	"

" 0 0'	"	"	"ë	" ì"	793"
" 0 0	"	"	" "	"	" 798"
"					
" 0 0'	"	" "	"	"	" 7:3"
'ë	"	"	" ì"	"	
" 0' 0' "	" "	"	"	"	" 7:7"
" "	"	"			
" 0' 0'	"	"	"	/	" 7:; "
" "	"	" ."	" "	"	"
"					
" 0 0'	"	"	"	"	" 7;5"
" "	"	"	" "	" "	"
" 0 0'	"	"	"	" "	" 7;7"
" "	"	"	"	" "	"
" "	"	"			
" 0 0'	"	"	"	"	" 822"
" "	"	"	"	"	" "
"	"	"	"		
" 0 0'	"	"	"	"	" " 826"
<	"	" "	" "	" "	
" EŒ0"	"	"	"	" "	" 829"
"	""	"			
" EŒ0'	"	"	"	"	" 834"
"					
" 0 0'	"	"	"	"	" " 838"
" "	" "	" "	/	" "	
" 0 0'	"	"	"	"	" 842"
" "	"	" "	" ."	" "	" "
" "	"	"			
" 0 0'	"	"	"	" "	" 846"
" "	"	"			
" 0 0"	"	"	0 0'	"	" 84;"
" "	" "	" "	"	"	"
"	"	"			
" 0 0'	"	"	"	"	" 855"
"	"	" "	" "	" "	"
" 0 0'	"	/	" "	" "	" 85;"
" "	" ."	" "	" "	" "	"
" 0 0'	" "	" "	"	" 5/7"	" " 865"
" "	" "	" "			
" 0 0'	"	"	"	"	" 869"
" "	"	"	" "		
" 0 0'	"	"	"	*	" 873"
" "	"	"	"		+"

"	"	"	"	"	"	"	"	"	"
"	0 0'	"	"	"	"	"	"	"	877"
"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	882"
"	"	"	"	"	"	"	"	"	
"	0 0'	"	"	"	"	"	"	"	886"
"	"	"	"	"	"	"	"	"	
"	'406'	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	
"	0 0'	"	"	"	"	"	"	"	88;"
"	ı"	"	"	"	"	"	"	"	
"	"7"	"	"	"	"	"	"	"	
"	0 0"	"	0' 0"	"	"	"	"	"	894"
"	"	"	"	"	"	"	"	"	
"	0 0'	/	"	"	"	"	"	"	898"
"	"	"	"	"	"	"	"	"	
"	'407'	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	
"	0 0'	"	"	"	"	"	"	"	89;"
"	"	"	"	"	"	"	"	"	
"	0 0'	"	"	"	"	"	"	"	8; 6"
"	"	"	"	"	"	"	"	"	
"	0 0'	"	"	"	"	"	"	"	8; 2"
"	"	"	"	"	"	"	"	"	
"	0 0'	"	"	"	"	"	"	"	8; 5"
"	"	"	"	"	"	"	"	"	
"	0 0"	"	"	"	"	"	"	"	8; 9"
"	"	"	"EQXIE/3;"	"	<	"	"	"	
"	0 0'	"	"	"	/	"	"	"	925"
"	"	"	"	<"	"	"	"	"	
"	0 0'	"	"	"	"	"	"	"	92;"
"	0 0'	"	"	"	"	"	"	"	935"
"	"	"	"	"	"	"	"	"	
"	0 0'	"	"	"	"	"	/	"	93;"
"	"	"	"	"	"	"	"	"	
"	0 0"	"	0 0"	"	"	"	"	"	944"
"	/	"	"	"	"	"	"	"	

"	0' 0'	"	"	"	/	"	"	948"		
"	0' 0'	"	<	" "	"	"	"	952"		
"	0' 0'	"	"	" "	"	"	"	956"		
"	0' 0"	"	0' 0"	"	"	"	"	/ 95;"		
"	0' 0'	"	"	" "	"	"	"	965"		
"	0' 0'	"	"	" "	"	"	"	96;"		
"	0' 0' 0'	"	"	" "	"	'ë	ì"	96; "		
"	0' 0'	"	"	" "	"	"	"	975"		
/	0' 0'	"	"	" "	"	"	.	979"		
"	0' 0'	"	"	" "	"	"	"	982"		
"	0' 0'	"	"	" "	"	"	"	988"		
"	0' 0'	"	"	" "	"	"	"	992"		
q	q' 0' 0'	g	g"	q g	q "	gq	q	qg"	q g"	998"
q	q q"	"	g	"	"	"	"	"	9; 3"	
"	0' 0'	"	"	" "	"	"	"	9; 6"		
"	0' 0'	"	"	" "	"	"	"	9; :"		
"	0' 0'	"	"	" "	"	"	"	9; 5"		
"	0' 0'	"	"	" "	"	"	"	9; :"		
"	0' 0' 0'	"	"	" "	"	"	"	: 25"		
"	ë	"	"	" "	"	ë	"	"		
"	0' 0'	"	"	" "	"	"	"	: 29"		
"	0' 0'	"	"	" "	"	"	"	: 34"		
"	"	"	'ë	'ë	ì"					

" 0 0' " " " " " " " :39"

" 0 0" " 0 0" " " " " " :42"

" < " " " " " " " :46"

'é 'é i" " " " " " " " :49"

" 0 0' " " " " " " " :55"

"

" 0 0" " " " " " " " :5;"

" 0 0" " 0 0" " 0 0" " " " " :65"

*

/ " 0 0" " " " " " " " :68"

" 0 0" " " " " " " " " :72"

"

" 0 0" " " " " " " " " :76"

" " " " " " " " " "

" 0 0" " " " / " " " " " :7;"

* " " " 'é 'é i i +" " " " " :86"

/ " 0 0" " " " " " " " :8;"

" 0 0" " " " " " " " " " :94"

" " " " " "

" 0 0" " " " " " " " " " " :9;"

" 0 0" " " " " " " " " " " :;5"

" " " " " "

" 0 0" " " " " " " " " " " :;;"

0 " 0 0" " " " " " " " " " " :;4"

"

" 0 0" " " " " " " " " " " ;24"

"

" 48" " " " " " " " " " " "

"

" 0 0" " " " " " " " " " " ;28"

" " " " " " " " " " < "

	'5"	"	"	"	"
"	" 0 0"	" 0 0'	" ë	"	"; 34"
"	" 0 0"	" 0 0'	" ë	"	"; 37"
"	" 0 0'	" ë	" ï"	" 4257"	; 3; "
"	"	"	"	"	
"	" 0 0'	"	"7U"	"	; 45"
"	" 0 0'	"6"	"	"	"; 49"
"	" 0 0'	"	"	" "	"; 53"
"	" "	" "	" "	" "	
"	" 0' 0'	"	"	" "	" ; 57"
"	"	"	"	"	
"	" 0' 0'	"	" S T/	" "	" ; 5; "
"	" "	" "	"	" "	
"	" 0' 0"	" 0' 0'	"	" "	"; 65"
"	"	"	"	"	