



At dusk, boating in the ocean-like reed fields. photographed in Zhaoquanhe Reed Fields, Panjin, Liaoning

Theme : What can be done to protect the Water Environment ?

August 10(Thu), 2023

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Organizer : Liaoning Provincial Government (China), Toyama Prefectural Government (Japan)

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Program

Chinese Standard Time

M > August 10, 9:00~12:00	[CST] (Group Introduction and Presentation)		
Agenda	Outline		
9:00 – 9:10 Opening Ceremony	Opening address		
	Region and Member introduction * <u>Only explanation</u> of materials <u>from Secretariat</u>		
9:10 – 9:50	Presentation on Cultural thing/ Attractions		
Presentation on	(7 min./municipality)		
cultural thing/	①Toyama Prefecture, ②Gangwon-do,		
Attractions	③Dundgovi province, ④Altai Territory		
9:50 – 11:00 Presentation on activities	Presentation on environmental activities (7 min /municipality)①Liaoning Province,②Yamagata Prefecture,③Chungcheongnam-do④Primorsky Territory,⑤Khabarovsk Territory,⑥Tomsk Oblast		
11:00-11:30	Answering quiz on Environmental conservation		
Environment Quiz			
11:30-12:00	Free communication among participants		
Interaction			

< AM > August 10, 13:00~16:00 [CST] (Group Activity)

Agenda	Outline		
	Working in group and Creating a Poster Works on the web		
	<theme> "ideal society/country/world in 2050"</theme>		
	Presentation on Poster Works		
13:00-15:30	①Liaoning Province	2 Yamagata Prefecture	
Hands-on Activity	③Toyama Prefecture	④Gangwon-do	
	⑤Chungcheongnam-do	⑥Dundgovi province	
	⑦Altai Territory	8 Primorsky Territory	
		Tomsk Oblast	
15:30-16:00	Declaration on Environment 2023		
	* Presentation by Liaoning province students		
Closing Ceremony	Closing Address		

List of Participants

Member/Students

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Liaoning Provin	ice			
柴子凡		Zifan Chai	Liaoning Province Shiyan High School	Liao_Stu_Zifan
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何作滢		Zuoying He	Liaoning Province Shiyan High School	Liao_Stu_Ellen
战馨怡		Xinyi Zhan	Northeast Yucai Foreign Language School	Liao Stu Serena
曹宏光			Northeast Yucai Foreign Language School	Liao Stu Hank
E/4/6				
JAPAN				
Yamagata Prefe	ecture			
佐藤 里々和	恵	SATO Ririho	Sakatahigashi high school	Ymgt_Stu_Ririho
佐藤 里桜		SATO Rio	Sakatahigashi high school	Ymgt_Stu_Rio
川上 学理		KAWAKAMI Mari	Sakatahigashi high school	Ymgt_Stu_Mari
伊藤 晴香		ITO Haruka	Sakatahigashi high school	Ymgt_Stu_Haruka
奥山 愛理		okuyama Airi	Sakatahigashi high school	Ymgt_Stu_Airi
Toyama Prefect	ture			
酒井 玲奈		SAKAI Rena	Toyama University of International Studies High School	Tym_Stu_Rena
元井 叶夢		MOTOI Karen	Toyama University of International Studies High School	Tym_Stu_Karen
吉川 泉咲		YOSHIKAWA Misaki	Toyama University of International Studies High School	Tym_Stu_Misaki
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REPUBLIC OF KO	DREA			
Gangwon-do				
김도희		Kim do hee	Hambaek high school	Gang_Stu_Ddohee
김윤수		Kim Yun Soo	Hambaek high school	Gang_Stu_Munsu
신혜인		Shin hye-in	Hambaek high school	Gang_Stu_Nyein
황선웅		Hwang seon ung	Hambaek high school	Gang_Stu_Ung
심영현		Sim young hyun	Hambaek high school	Gang_Stu_Hyun
Chungcheongn	nam-do			
김규리		Kim Kyu Ri	Cheonan Shinbang Middle School	Chung Stu Kyuri
김채연		Kim Chae Yeon	Cheonan Shinbang Middle School	Chung_Stu_Chaeyeon
성지원		Sung Ji Won	Cheonan Shinbang Middle School	Chung_Stu_Jiwon
이서윤		Lee Seo Yoon	Cheonan Shinbang Middle School	Chung_Stu_Seoyoon
임근태		Lim Geun Tae	Cheonan Shinbang Middle School	Chung_Stu_Geuntae
MONGOLIA				
Dundgovi provi	nce			
Шинэхүүгий	ін Оюунмаа	Oyunmaa Shinekhuu	Tsegts Bilig school	Dund_Stu_Oyunmaa
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Галбадрахь	ін Эмүжин	Emujin Galbadrakh	Tsegts Bilig school	Dund_Stu_Emujin
Баатарсүрэ	нгийн Бүжин	Bujin Baatarsuren	Tsegts Bilig school	Dund_Stu_Bujin
DU001411 =====				
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Republic of KOREA			
Gangwon-do			
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Region and member introduction

 $<\!$ Note>

①Liaoning Province

2)Yamagata Prefecture

③Toyama Prefecture

④Gangwon-do

⑤Chungcheongnam-do

6 Dundgovi province

7 Altai Territory

8 Primorsky Territory

(9)Khabarovsk Territory

Tomsk Oblast

Liaoning Province (China)

About Shenyang, China









City Glimpses

Shenyang is a city that is both old and young, with the historic Shenyang Imperial Palace, the Grand Marshal's Palace of the Republican era, and the ¹⁰ modern pedestrian street - Middle Street.

Liaoning Province Shiyan High School is known for its high promotion rate, which means it is one of the best schools in Liaoning. This is a famous school with a strong humanistic background, outstanding nurturing function, glorious tradition and excellent school spirit.









Unique facts



15 thousand square kilometers: twice of Ireland; 42 million population



An important place for archaeology: the place where the first bird flew, the first flower bloomed



The capital of Qing dynasty



A place where minor ethnic group gather

14



The hometown of the first Chinese Olympic athlete and 32 Olympic champions, Which is the most in China





Liaocai(local cuisine of Liaoning) is one of the eight regional cuisines in China. A place to eat barbecue, dumplings and roost

Interesting points of Liaoning

Center of industries



Waters in Liaoning

Liaoning has diverse water ecosystems: rivers, lakes and oceans. Yalu river: separates North Korea and China Hun River: the mother river of Shenyang Liao River: in Chinese, Liaoning means "Wish it peaceful forever to Liao river" Red Beach: a famous wetland that attracts many tourists and contributes to a better environment.



North-East Yucai Foreign Language school

Activities:

- Cultural festival
- Mini Marathon
- Spring outing
- Cherry blossom festival









Self introduction

- Cao Hongguang, call me Hank
- a tech geek, sports geek and an outgoing guy!



 looking forward to use the unique viewpoint and knowledge to analyze and solve challenges of our environmental problems!







Known as Eastern Ruhr, Shenyang is an important industrial base and serves as the transportation and commercial hub of Northeast China. It is the birthplace of the Qing Dynasty and has over 1,500 historical and cultural sites, including 3 World Cultural Heritage sites. Apart from technology and culture, cuisines in Shenyang are unique because of influence from its neighbours Russia and Korea





The Past and History 20

Xinle Cultural Site

helps fill in the gap of early human activity in the downstream of the Liao river, providing important archaeological evidence about the varied origin of Ancient Chinese Civilization



The Past and History 21

Mother of the Qing Dynasty and Manchu Culture

Shenyang was the first capital of the Qing Dynasty,Nurhachi relocated his entire administrative infrastructures to the city and constructed the Mukden Palace and named the city as Shengjing, which was derived from the Manchu word Mukdembi(to rise)



The Past and History 22

Industrial Center of the China

the hub of the heavy industrial complex of the southern region of China's Northeast. The chief manufactures are machinery and fabricated metals. Rolling stock, machine tools, wire and cables, cement, electrical equipment, chemicals and chemical fertilizers, and pharmaceuticals are produced there.



The Present

Wellbeing

Ranks 6th in China's happiest city National Forest City

Life here could be modern and colorful with the Beer Festival, the Ice and Snow Festival and art performances at the Liu Laogen Stage. One could enjoy his day by climbing the Qipan Mountain or running along the River.



The Present

Culture

People native to Shenyang speak the <u>Shenyang dialect</u>, a variant of <u>Northeastern Mandarin</u> that is really funny. Just like their accents, Shenhangers are easygoing and confident.



The Present

Food

Shenyang has classic <u>northeastern Chinese cuisine</u>. Traditional meals in the region are <u>suan cai</u> (also known hinese sauerkraut), stewed chicken and mushroom, and <u>meat pie</u>. Korean food like cold noodles, barbecue and rice cake are also popular.

Northeast Yucai Foreign Language School

Northeast Yucai Foreign Language School is an international school established in 1998 by Northeast Yucai School and Kansai Language Institute of Japan.

The school is characterized by its unique backgrounds. Students could learn English as well as Japanese.

The world cultural festival and foreign langu

great fun.*In* April, the campus is covered in a shade of pink by cherry blossom and magnolia flowers, In autumn, the blazing red maple leaves will never fail to fascinate you. We have a really beautiful campus



petition are all

Yamagata Prefecture (Japan)

About YAMAGATA, Japan



Yamagata is famous for its fruit, especially cherries. Yamagata is full of nature. One example is Mt.Chokai (2,236m) located in the northern of Yamagata. Also, in the Shonai area there is the famous island Tobishima



About Sakata Higashi High school

Our school is about 100 years old, and now has over 500 students. It was recognized as Super Science High school (SSH) 3 years ago. Every year, 2nd graders work on a research project by themselves, and 3rd graders do presentations about it in English.

Toyama Prefecture (Japan)

Introduction of Toyama & Member

Toyama **Population:** 1,009,050 <u>Area</u>: 4,248 km² 33



Our High School



School Uniform







yellow tail (or buri)

firefly squid (or *hotaru ika*)

glass shrimp (or *siroebi*)



seaweed (called kombu)



Toyama Black



Masuzushi



Kurobe Dam



Snow Valley





Mikurumayama Festival

Gangwon-do (Korea)



Gangwon-do (Gangwon State) Introduction

Jeongseon County covers an area of 1219.58 square kilometers. It flourished as a coal town until the late 1970s. At one time, coal production accounted for 28% of the country's total, and limestone reserves (25% of the country's total) reached 10 billion tons.













It is a public high school located in Sindong-eup, Jeongseon-gun, Gangwon-do. The lesson is sincerity, creation, and edification is forsythia. And the tree is juniper.

Chungcheongnam-do (Korea)

Dundgovi Province (Mongolia)
About Dundgovi, Mongolia

Dundgovi (*Middle Gobi*) is one of the 21 provinces of Mongolia. It is located in the south of the country, approximately 245 kilometers south of Ulaanbaatar. Its capital is Mandalgovi. Dundgovi is the second least populated Province in Mongolia.



About climate

Dundgovi province is situated in the south of the country about 240 kilometres or 150 miles from capital city Ulaanbaatar. It consists largely of semi-arid steppe and low hills. Temperatures in the summer may top 32 °C or 90 °F, while winter temperatures may dip below –30 °C or –22 °F. Precipitation is scarce, and air humidity is low. Seasonal climatic problems include spring

sandstorms and winter zud.





Flag and Coat of arms Dundgovi province

About local economy

The province's main industry is animal husbandry and livestock products (such as wool, cashmere). The Dundgobi province is also noted among Mongolian locals for its *airag* (fermented horse milk), a traditional Mongolian alcoholic drink.





Fermented horse milk

Altai Territory (Russia)





Altai Region is located in the south-east of Western Siberia, on the border of continental Asia

Highway Russia-Mongolia-Kazakhstan

Central Asia-Trans-Siberian Railway

International airlines







Tourism

Primorsky Territory (Russia)

Primorsky kray

Primorsky kray is an amazing and unique place, which is located in largest country on the Earth next to the biggest ocean – the Pacific Ocean. The capital is Vladivostok.

Primorsky Krai is an amazing place in Russia that combines many types of animals, plants. It is rich in its flora and fauna. Our region is rich in its history and traditions, people and religions. We are waiting for you to visit us!





Kavalerovo

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We are from the small village of Kavalerovo, located in the Primorsky Territory.

The main attraction of Kavalerovo is the Dersu Uzala rock, popularly called "The Rock of Love". Our region is very beautiful and it is very difficult to say about it in a nutshell, so we have prepared a video film. But first, in a few words about our team.





The rock of Dersu Uzala is the hallmark of the Kavalerovsky district. And as a symbol it was placed on his coat of arms. A unique geological object, a natural monument.





Culture and traditions

Maslenitsa is an old Slavic holiday that symbolizes the coming of spring and saying farewell to winter. People celebrate it every year in Russia for the whole week before Easter.

In ancient times Maslenitsa was helping folk to understand the changing of seasons. The holiday has overgrown with lots of traditions and rituals that (have saved?) nowadays. There is few of them.





Khabarovsk Territory (Russia)



Khabarovsk Krai





Lake Bolshoy Suluk



Khekhtsyr Ridge



Belichy Island

Khabarovsk Krai is located in the Far East of Russia. The administrative center is the city of Khabarovsk. Khabarovsk Krai was formed on October 20, 1938. In 2023 our region celebrates 85 years since its formation.

It is washed by the Sea of Okhotsk in the northeast and east and the Sea of Japan in the southeast.

There are a lot of beautiful natural places for eco-tourism in Khabarovsk Krai



Strait of Tartary 59



The Manoma River

Tomsk Oblast (Russia)



ABOUT THE REGION

4

AREA OF TOMSK REGION 314,400 km²



TOMSK (GMT +7)

NOVOSIBIRSK

AVERAGE TEMPERATURE

July +24⁰C



~~~

**VLADIVOSTOK** o

(GMT +10)

#### POPULATION

### TOMSK REGION 1,068,304 residents as of January 1, 2022

72% are urban dwellers

Average age is **38 years** 

## сту ог томsк 591,528 <sup>residents</sup>

<mark></mark>

Every **tenth** resident is a student

### FOUNDED IN

1604

## **SCIENCE AND EDUCATION**

NNRPERTE

Tomsk ranks 3th in the NATIONAL RATING **OF SCIENTIFIC** AND TECHNOLOGICAL **DEVELOPMENT OF REGIONS** 

>62 000

students from 88 different countries and 81 Russian regions

> 18% are international students







#### **RESEARCH INSTITUTES OF THE SIBERIAN BRANCH OF THE RUSSIAN ACADEMY OF SCIENCES**

## **9** research institutes

**TOMSK RESEARCH MEDICAL CENTER OF THE RUSSIAN** ACADEMY OF SCIENCES

is the largest of its kind in the country

## TOURISM



• rural life farmsteads

• wilderness • Vasyugan swamp ecological trails



• oldest city in Siberia • wooden architecture

health tourism

• oldest city in Siberia wooden architecture

• moose and bear hunting Siberian fishing

• water travel

• folk festivals • sports events • festivals • forums

#### **Presentation on cultural thing/ Attractions**

 $<\!$ Note>

①Toyama Prefecture

②Gangwon-do

③Dundgovi province

(4) Altai Territory

⑤Primorsky Territory \*material only

# **Toyama Prefecture** (Japan)





Introduction of Toyama and our club activity Karen Rena Misaki Anju

## **Basic Information**

of Toyama





## **Toyama area 4,248 km<sup>2</sup> = 1,640mi<sup>2</sup>**

## Toyama population =1,009,050

















## In the past 30 years

### Seismic Intensity 3+ was 28 times Seismic Intensity 4+ was 5 times



## Food in Toyama











#### yellow tail (or *buri*)



glass shrimp (or *siroebi*) <sup>87</sup>



#### firefly squid (or hotaru ika)



seaweed (called kombu)





## Toyama Black

### Masuzushi

88

### History (since 1883)







 height 186m

width 492m

water
storage
200 million
cubic cm

### Kurobe Dam ~*in Tateyama Kurobe*~



### Snow Valley 92 in Tateyama~




#### Festival float



#### Mikurumayama Festival ~in Takaoka~

# UNESCO CLUB











#### **Beach clean**





# Thank you for listening!

# Gangwon-do (Korea)

Beautiful Jeongseon Let me Introduce Jeongseon

### Gangwon-do (Gangwon State)

# Jeongseon's food

#### Kotdeungchigi



#### Ingredients for cooking

- ✓ 300g buckwheat flour
- 3 tablespoons of makjang
- ✓ gat kimchi
- ✓ 2 potatoes
- ✓ half pumpkin

#### Kotdeungchigi



#### Making

- 1. Mix buckwheat flour and push it with a rolling pin and cut it into 0.5cm thick pieces.
- 2. Put makjang in boiling water, put potatoes, and boil buckwheat dough.
- 3. Eat pumpkin and chopped kimchi on top of the noodles.



#### Millet Pancake



#### Ingredients for cooking

- ✓ 1 cup of glutinous rice flour
- ✓ 100g of ogapi leaves
- ✓ 100g of oak sprouts

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- ✓ Salt
- ✓ sugar

#### Millet Pancake



#### Making

- 1. knead sorghum powder
- 2. Add the red bean paste and make it into a half-moon
  - shape with a diameter of 10cm.
- 3. Bake the dough in perilla oil



# Jeongseon Arirang



#### **Origins of Arirang**

Jeongseon Arirang is a local folk song distributed in Yeongseo and Yeongdong regions of Korea and has been handed down for a long time, and is also called Arari.



#### Let's listen to Arirang



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#### Jeongseon Arirangn Theater

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- Arirang Center : 51, Asan-ro, Jeongseon-eup, Jeongseon-gun, Gangwon State
- Jeongseon Arirang Cultural Foundation: 033-560-3016



#### Jeongseon Arirangn Theater

- Regular performances: 4.2 to 11.27 every year (market days ending on the 2nd and 7th)
- Special performance: Contact us for largescale visits
- Admission fee: KRW 5,000 per person (refund of gift certificate)
- Home page: <u>www.jacf.or.kr</u>

# **Jeongseon Tourist Site**

#### Time capsule park

#### Introduction

Created by using the filming location of the movie 'Strange Girl'. Jeongseon's Time Capsule Park was created as a symbolic and unique tourist attraction for Jeongseon-gun residents



#### Time capsule park





#### Introduction

Cha Tae-hyun and Jeon Ji-hyun promised to meet again three years later in the movie "Strange Girl," which was released in 2001 and caused a Korean Wave craze in China, Hong Kong, and Japan, and was built in "Saebijae," Jodong-ri, Sindong-eup, Jeongseon-gun.



#### Introduction

The total length of the Hwaam Cave is about 1,803m, and on February 26, 1980, it was designated as Gangwon-do Monument No. 33, and on November 1, 2019, it was designated as Natural Monument No. 557.







#### Introduction

It takes about an hour and a half to watch. The entire process from the discovery of gold veins to the collection of gold ores was reproduced, and the entire process from the production of gold ores to the production and use of gold products was exhibited.





# **Festival**

#### Jeongseon Arirang Festival

#### Introduction

A festival of nature, people, and Arirang to preserve and develop succession of Jeongseon Arirang





#### reference

 the public Hometown Jeongseon https://www.jeongseon.go.kr/tour

## Beautiful Jeongseon Thank you for your aftention



# Dundgovi Province (Mongolia)

# **TOURIST ATTRACTIONS** AND **TRADITIONAL FESTIVAL**

# Dundgovi Province, Mongolia



### **TSAGAAN SUVRAGA – WHITE STUPA**

Tsagaan Suvraga (or White Stupa ) and also known as mini Grand Canyon , which was once a seabed that featured a sedimentary structure that was created over millions of years , in the landscape of Mongolia.





## **IKH GAZRIIN CHULUU**

Ikh Gazriin Chuluu is the largest part of the granite area of Mongolia. Located in Govi-Ugtaal and Bayanjargalan soum of Dundgovi province, Ikh Gazriin Chuluu is a beautiful rock formation in the gobi desert. There are over 40 caves in the area and they are easy to access and close to each other, making it ideal for hiking.





### **ONGI MONASTERY**

**Ongi Monastery** is the collective name for the ruins of two monasteries that face each other across the Ongi River in Saikhan-Ovoo district of Dundgovi Province, in south-central Mongolia. The Barlim Monastery is located on the north bank of the river while the Khutagt Monastery sits on the south bank. The older southern complex consisted of various administrative buildings as well as 11 temples.







### **SAND DUNES OF UUSH**

Uush Mankhan is an area with sand dunes that have healing "magical effects". Former Prime Minister of Mongolia, late J.Narantsatsralt has also praised its curative properties, highlighting that it is one of the select few places with sands with such effects in the world. The sands of these particular dunes are said to relieve pain in the kidney and joints.





## **Uush Mankhan** Sand Dune



#### 3000 traditional artists perform in Ikh Gazriin Chuluu

In 2019, an arts and cultural festival "The Sun over the Placid World" was successfully organized at the Ikh Gazriin Chuluu Nature Reserve. The festival involved three thousand traditional long song singers and horse head fiddle (musical instrument Morin Khuur) players.







# Altai Territory (Russia)

#### Altai Region, Russia



Altai Region is located in the south-east of 128 Western Siberia, on the border of continental Asia Project done by Yaroslava Karaseva, Barnaul, Altai krai
# An ore-mining region



Kolyvanskaya grinding factory



Kolyvanskyi stonecutting plant



The Museum of the history of a stone-cutting industry



The Queen of vases from Revnevskaya jasper. Hermitage



Bottled mineral water



Curing muds

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# An agricultural region







Barnaul Bent-like Forest 400 km long

Altai settlers1865

The monument "To settlers of the Altai from grateful descendants"



For 200 years Altai wheat is the standard of quality in the market







The largest flax field in the country



Leader in Siberia in sunflower production

# A food-producing region



In the plant world, the king is ginseng, and in the animal world the top product is deer antlers. Altai Krai is the largest producer of reindeer antler products in Russia



Famous cheese "Sovetskyi" was invented in Altai

The largest head of cheese in Russia is made by cheese makers in the Altai Territory. It weighed 721 kg



Wild and blooming Altai is the leader in Siberia and the leading region in the Russian and international markets in the production of high-value mountain, field, meadow, taiga honey

# A multi-national region



Interregional Festival "Crossroads of Cultures"

Representatives of more than 140 nationalities live in Altai Region - Russians, Germans, Ukrainians, Kazakhs, Belarusians, Armenians, Tatars, Mordovians, Azerbaijanis, Kumandins and many others







The monument to a famous director, actor, writer and screenwriter 132



The all-Russian Festival "Shukshin Days in Altai" is an integral part of Russian culture

# A cultural region



Interregional festival "Siberian Maslenitsa" in the village of Novotyryshkino, near the federal resort town of Belokurikha





Spring holiday "Blossoming of maralnik". Guests visit music, sports and creative venues, master classes, craft rows, a fair of traditional Altai cuisine

# A traditional region



The Day of Siberian Field



The Day of Varenyk



Master classes and competitions with prizes at the Altai Cheese Day



The production of felt boots is handmade



Honey, honey gingerbreads, pancakes, pies, buns with honey at the Honey Fair

# The region of peace and harmony



Center for Aesthetic Education "Pesnohorki". Studying, preservation and restoration of the traditions of Russian folk culture



Children's art school "Tradition". Folklore, arts and crafts of the Russian population of the Altai Territory These organizations preserve and support their national cultures, history and native languages in Altai:

- Society of Lithuanian Culture
- Armenian Cultural Center
- Center of National Culture of Chechens and Ingush
- Belarusian autonomy
- Jewish autonomy
- Center of Tatar Culture
- Center of Kazakh culture
- Azerbaijan cultural center
- Ukrainian community
- Organization "Polish House"
- Center of Altai national culture and others.



# Come to Altai Region! We will be glad to welcome you!

# **Primorsky Territory** (Russia)



Primorsky krai is an amazing and unigue place, which located in largest country on the earth next to biggest ocean- the pacific ocean. The capital is Vladivostok

# Primorsky krai



The fantastic Primorsky aquarium with an area of more than 37,000 square meters is located on the Russian island. The total volume of water in the aquarium is almost 25,000 cubic meters. 135 aquariums for 500 species of fish and mammals are installed in the main building. It is the wonderful place for spending time with friends or family.





 Another interesting place is in Vladivostok. this is a museum in a submarine . Which contains a lot of things of the last century. S-56 is a Soviet diesel-electric torpedo submarine of the World War II IX-bis "Medium" series. Now installed on the Ship embankment.

- The next attraction is located at a distance of about 341 miles from Vladivostok in the Dalnegorsky district .The Rudny Lighthouse of the 3rd class is installed 2 cables (370 m) south of Cape Briner, which is the southern entrance cape of Rudnaya Bay on the northwestern shore of the Sea of Japan. The harmonious and original view of the lighthouse on a rock above the sea is very popular with tourists and photographers.
- The view of the lighthouse from the sea against the background of Two Fingers rocks is fascinating





- Terneysky district is located in the northeast of the region, on the coast of the Sea of Japan. The largest district in the territory of the krai: the area is 27,730 square kilometers.
- On the territory of the Terneysky district is the northernmost and easternmost points of Primorye. Most of the area is covered with forests, the Sikhote-Alin Nature Reserve is located on the territory. The area has a significant tourist potential.
- There are many interesting natural sites, despite their inaccessibility, attracting tourists from all over Primorsky Krai. The most famous are the waterfalls on the Amgu River, the springs of mineral waters Amginskoye and Teply Klyuch, the rapid river Kema, which attracts water tourists. In the area there are several mountain ranges exceeding 1,700 m, a lake plateau with high-altitude lakes Saturn Lake, Nodal, Eagle's Nest, a picturesque seashore.





Primorsky Krai is an amazing place in Russia that combines many tipes of animals, plants. It is rich in its flora and fauna. Our region is rich in its history and traditions, peoples and religions. We are waiting for you to visit us!



# Culture and traditions Maslenitsa

Maslenitsa is an old Slavic holiday that symbolizes the coming of spring and saying farewell to winter. People celebrate it every year in Russia for the whole week before Easter.

In ancient times Maslenitsa was helping folk to understand the changing of seasons. The holiday has overgrown with lots of traditions and rituals that (have saved?) nowadays. There is few of them.



An important attribute and even a symbol of Maslenitsa is pancakes – a culinary product baked from liquid dough. This dish represents of the Sun. That's the reason why it represents fertility and renewal. Each family necessarily bakes it every Maslenitsa. There is even a competition of eating at speed.

Another tradition is climbing a pole for a prize. Old Slavs thought that the ones who passed the challenge get blessing from gods. In our century this competition isn't much meaningful, but still counts one of the most favourite between Maslenitsa lovers because it makes feel excitement and gives a chance to bravest and strongest win a prize.





One more popular game is fisticuffs. Men do a fighting bordering with a simple fun and real duel. It's believed that such playing tempera the spirit.

The last main ritual thing of Maslenitsa is the Scarecrow. It's dressed as a big doll which is made of straw and other improvised material. On the last day of the holiday it must be burned. In that way people finally see off the Winter cold and meet the warm, awakening of nature.

Maslenitsa appeared many centuries ago, but still continues to live. We are saving our traditions by celebrating it.

They pass down from generation to generation.





#### **Presentation on activities**

 $<\!$ Note>

①Liaoning Province

②Yamagata Prefecture,

③Chungcheongnam-do

④ Primorsky Territory,

⑤Khabarovsk Territory

6 Tomsk Oblast

# Liaoning Province (China)

#### Activity summary material

1 Municipal name

Liaoning Province, Shiyan High School

- 2 Presenter name(affiliation name) Zifan Chai(Liaoning Province Shiyan High School)
- 3 Activity name

#### **Protecting Beisha River**

- 4 Activity period 7.16.2023. 8:00-12:00
- 5 Activity place Sujiatun District
- 6 Number of participants in the activity 50
- 7 Background of starting the activity

I have always been very concerned about river pollution because rivers are closely related to our health. Beisha River is the mother river of Sujiatun, which was polluted by wastewater discharged from chemical plants for a long time. Before I participated in the activity, I looked through the information about the prevention and control of the pollution of Beisha River to have a preliminary understanding of the situation.

- 8 Abstract of presentation(including charts)
  - 1 Introduction of Beisha River
  - 2 Promote awareness of environment protection in local community
  - 3 Test water quality with reagents
  - 4 Record of a promotional video calling for environmental protection
  - 5 Take pictures
  - 6 Summary





### Protecting Beisha River

Zifan Chai 2023.08

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# Content

壹 Introduction of Beisha River

贰 Environmental Protection Practical Activity

叁 Testing Water Quality

异 Recording Environmental Protection Video

任 Cleaning up Riverbank Trash

路击 Summary





# Introduction of Beisha River

The Beisha River is located in Sujiatun District, Shenyang City, Liaoning Province, China. With a main river length of 117 kilometers and a drainage area of 1485 square kilometers, it used to be a clear-watered and fishabundant river. However, starting from the 1990s, rapid developments in industry, agriculture, and urbanization led to the deterioration of water quality in the Beisha River, resulting in ecological degradation of the river.

Recognizing the urgency of the situation, Sujiatun District took proactive measures in the 21st century to address these issues. These measures included the construction of sewage treatment facilities, installation of pollution interception pipelines, dredging and ecological restoration of the riverbed, maintenance of riverbanks, and rectification of sewage discharge outlets. These comprehensive efforts were aimed at improving the overall water quality and ecological health of the Beisha River, learning from past mistakes and fostering a more sustainable future

壹

Since 2020, Sujiatun District also continued to carry out "into a hundred villages, into ten thousand households, thousands of families to adopt the North Shah River" volunteer activities, and jointly protect the water environment, the North Shah River ecological environment continues to improve. 2021 to June 2023, the average value of the water quality reached the standards of class III surface water.









# **Environmental Protection Practical Activity**



On July 16, 2023, nearly 50 environmental volunteers from institutions including Liaoning Experimental High School and Northeast Yucai School participated in the "Guarding the Beisha River" social practice activity.

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### **Environmental Protection Practical Activity**

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Despite a light drizzle that started in the sky, it did not dampen the enthusiasm of the volunteers for participating in the event. Zhang Zhiyong, the president of the Shenyang Environmental Volunteers Association, introduced the volunteers to the basic situation of the Beisha River, explained the activity process, and encouraged the students to regularly engage in environmental volunteer services such as protecting the mother river.



## **Environmental Protection Practical Activity**

The volunteers entered the Chenxiang Farmers' Market in Sujiatun District, distributing advocacy materials for protecting the Beisha River and raising environmental awareness among residents, becoming participants and advocates for safeguarding the Beisha River!





Following the methods taught by our instructor, the volunteers conducted water quality measurements for the Beisha River.

幺





### **Testing Water Quality**

Next, along with our classmates, we added various water testing reagents to the beaker beside the grassy area. By comparing the colors with a reference card, we concluded that the phosphorus content in the water was slightly high, indicating that our conservation efforts need to continue.



### **Recording Environmental Protection Video**



In order to better advocate for environmental protection and expand our impact, each volunteer recorded a video related to the main theme of this activity. We urged everyone to take individual actions to protect the Beisha River and preserve our green ecological environment.





The volunteers arrived at the Chenxiang section of the Beisha River, where they picked up scattered plastic bottles and other waste along the riverbank, and meticulously cleaned up the hidden white litter within the grass.  $\mathbf{T}$ 



### Summary



Participating in this public welfare activity has truly broadened our horizons and helped us realize the significance of water and environmental conservation. As high school students, we should and have the capability to contribute to environmental protection through our daily actions, ultimately working towards the construction of a greener and 162 re sustainable planet.







# Yamagata Prefecture (Japan)
#### 1 Municipal name

Yamagata Prefecture (Sakata city)

- Presenter name(affiliation name)
  Rio Sato, Ririho Sato, Mari Kawakami, Airi Okuyama, Haruka Ito (Sakata Higashi High School)
- 3 Activity name Sakata Higashi High School Activity
- 4 Activity period 2 years
- 5 Activity place Miyaumi beach, Tobishima island, Sakata city
- Number of participants in the activity
  153 students and 10 teachers.

#### 7 Background of starting the activity

When we were in 1st grade, we researched ocean garbage and ocean pollution. We learned that microplastics and plastic garbage are the biggest causes of sea pollution. To make the environment of the Shonai coast better, we cleaned plastic garbage at Miyaumi beach.

#### 8 Abstract of presentation(including charts)

Sakata is a port city and it has flourished as an important place for trade. Ocean garbage is a serious problem for us because we live close to the sea and beaches are important as tourist attractions.

Cleaning the garbage, we realized that human activities are causing pollution in the ocean. We wondered what other pollutants could be in the environment. So, we cultured bacteria in the intestinal tract of fishes which were caught along the Shonai coast to find whether drug-resistant bacteria were present or not.

We are going to share the result of our activities and what we should do from now to conserve the marine environment.







# Sakata Higashi High School Activity Introduction

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### Index

- 1. Introduction of Our Area
- 2. Clean-up activity on Miyaumi Beach
- 3. An example of human-induced marine pollution :

Drug-resistant Bacteria

4. Conclusions

## **Introduction of Our Area**

### Yamagata Prefecture

- The western edge touches the sea.
- Famous for beautiful nature and delicious fruits.

### Sakata City

As a **port city**, it has traded with many towns in Japan.

### Sakata's problem 📥 Ocean garbage

### Sakata Higashi High School

- A "Super Science High School"
- It offers a Science and Mathematics Inquiry course and an International Inquiry course.
- Many opportunities to learn how to solve social issues.





## Clean-up activity on Miyaumi Beach

Much of the garbage we picked up was made of plastic and came from land. (ex. plastic bottles, bags, and syringes)

The plastic was small and we had a hard time picking it up.

We realized that human activities such as garbage are causing pollution in the ocean.







### An example of human-induced marine pollution : Drug-resistant Bacteria

- becoming a big problem in the world $\rightarrow$ may become a big problem in Japan, too

 especially in fish farms (people put antibiotics in the fish food) and medical institutions (doctors use antibiotics when they operate)

 they leak out to the environment through sewage from intestines of recovered patients

• We cultured bacteria in the intestinal tract of fishes which were caught along the Shonai coast to find whether drug-resistant bacteria were present or not





## Result of Research of Drug-resistant Bacteria



We cultured bacteria from fish intestines with antibiotics





None of them was gram-negative, which has drug-resistance.

In our experiment, drug-resistant bacteria were not detected, but we have to keep alert and should not use antibiotics too much

## Conclusions

Water and land pollution is the direct result of human activities,

but we can work together and do various activities to protect the aquatic environment.

This is a good example of human activities having a positive impact on the environment.



# Chungcheongnam-do (Korea)



### **Correlation between thermal power plants and water pollution**

## Chungnam Cheonan Shinbang Middle School With Gongju University



# PD님 동영상



Dangjin Thermal Power Plant



Chungcheongnam-do has 70% of all thermal power plants in Korea. So, we investigated the Dangjin Thermal Power Plant and decided to collect samples of the beach near the Dangjin Thermal Power Plant, the river in Cheonan, and the river Gapsa in Gongju.

### experimental group



the beach near the Plant



the river in the eonan

### control group



the river Gapsa in Gongju



First, We were designing experiments with a professor of Gongju University and investigated the surrounding areas.



# We visited beaches, rivers of Cheonan, and Gapsa and collected samples.

## **Prepare for DO measurement.**



Add 1 ml of manganese sulfate solution and 1 ml of potassium iodide-sodium iodide solution to a 300 ml sample and shake it.





## **Prepare for COD measurement.**



Add 1 ml of 10% sodium hydroxide and 10 ml of potassium permanganate solution to a 300ml sample.





### Let's listen from the citizens!



We were also curious about the opinions of civil society, so we interviewed citizens living near the Dangjin Thermal Power Plant.

## Let's listen from the citizens!

| Stakeholders                               | Position   | belief                                                                                                                                                                                                                          | value              |
|--------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Worker at a thermal power plant            | opposition | If a thermal power plant disappears, jobs will disappear,<br>so no thermal power plant should be shut down                                                                                                                      | Economy            |
| Restaurant owner                           | opposition | Since the creation of thermal power plants, government<br>subsidies and customers have increased, so thermal<br>power plants should not disappear economically                                                                  | Economy            |
| Owner of a clam farm                       | agreement  | Since the creation of a thermal power plant<br>The amount and quality of the clams have been hit<br>hard. For ecosystems and clams to be harvested, power<br>plants that cause soil and water pollution<br>It has to disappear. | Economy<br>ecology |
| Citizen<br>(Chungcheongnam-do<br>reidents) | agreement  | I hope the fine dust gets worse due to the thermal power plant and disappears                                                                                                                                                   | Social<br>health   |







We did an experiment at Gongju University with the professor and college students.

## **DO(dissolved oxygen) measurement**



Add sodium thiosulfate(Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) and starch solution to 200 ml of brown precipitate to make it blue. Then, measure DO by adding sodium thiosulfate until it becomes clear.

## **COD(chemical oxygen demand) measurement**





Heat the samples for 60 minutes, add 1 ml of potassium iodide(KI) solution and cool it down. Add 1 drop of sodium azide(NaN<sub>3</sub>) and add starch solution and sodium thiosulfate for COD measurement.



## COD : Dock > Cheonan > Gapsa DO : Gapsa > Cheonan > Dock

### Result

Daehomok, Dock : beaches nearby Dangjin Thermal Power Plant / Dock is the closest from Dangjin Thermal Power Plant

|           | <b>DO</b><br>(dissolved oxygen) | salinity | <b>COD</b><br>(chemical oxygen<br>demand) | рН   | Wather<br>temperatuer |
|-----------|---------------------------------|----------|-------------------------------------------|------|-----------------------|
| Cheonan   | 8.90                            | 0.01     | 6.4                                       | 7.37 | 24.1                  |
| Daehomok* | 9.05                            | 2.77     | 7.2                                       | 8.17 | 28.4                  |
| Dock*     | 7.84                            | 2.71     | 7.2                                       | 8.07 | 25                    |
| Gapsa     | 8.60                            | 0.01     | 6.4                                       | 6.31 | 19.5                  |

COD: Daehomok = Dock > Gapsa > Cheonan

D O: Daehomok > Cheonan > Gapsa > Dock

Let's compare the dock, river in Cheonan, Gapsa. The water was contaminated in the order of dock, Gapsa, and river in Cheonan. But water was clear in the order of stiver in Cheonan, Gapsa, and Dock.

### Why are they different from the hypothesis?

### Why was Gapsa more contaminated than Cheonan?

There are many organic matter such as leaves in Gapsa. So, the organic matter would have affected.

### Why was Cheonan cleaner than Gapsa?

There was heavy rain before collecting samples. And river in Cheonan might be clean because it is under constant management by City Hall.

### Why does Daehomok have high DO value?

In Daehomok, there are many seaweed. So, they photosynthesize and make oxygen.

## Result

### Daehomok, Dock : beaches nearby Dangjin Thermal Power Plant / Dock is the closest from Dangjin Thermal Power Plant

|           | <b>DO</b><br>(dissolved oxygen) | salinity | COD<br>(chemical oxygen<br>demand) | рН   | Wather<br>temperatuer |
|-----------|---------------------------------|----------|------------------------------------|------|-----------------------|
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| Daehomok* | 9.05                            | 2.77     | 7.2                                | 8.17 | 28.4                  |
| Dock*     | 7.84                            | 2.71     | 7.2                                | 8.07 | 25                    |
| Gapsa     | 8.60                            | 0.01     | 6.4                                | 6.31 | 19.5                  |

DO and COD values of the beach are relatively contaminated, and there is a weak relationship between by-products and water pollution.

However, it is difficult to say that water of Dock is completely contaminated water thanks to the weather factors, government management, and development of science.



We focused on the next of the SDGs objectives.



- A project is designed to find out the correlation between thermal power plants and water pollution.
- As a result, only a weak relationship between thermal power generation and water quality was found.
- However, in this process, we realized the importance of water and the importance of water management and water conservation.
- we will protect water on a personal and policy level.



- When we were preparing for this project, we agreed to close the thermal power plant should be closed.
- However, our thoughts changed after interviewing residents near the thermal power plant in Dangjin.
  - Step-by-step energy conversion is needed for climate and sustainable Dangjin City.

-



- Finally, we're going to talk about the most emerging climate crisis in the world.

- The climate crisis, which causes various environmental problems, including water pollution, cannot be solved by personal practice, regional practice, or one national practice.

- It is most important and necessary to respond together around the world to cope with the climate crisis

- We hope this presentation will be the starting point and the network will continue to operate



## **THANK YOU!**

We would like to thank Chungcheongnam-do and Gongju University. And Thank you for listening our presentation.



# **Primorsky Territory** (Russia)

### 1 Municipal name Primorsky Territory

2 Presenter name(affiliation name) Ekaterina Shardakova

> Municipal Budgetary General Education Institution «Secondary General Education School 3» Kavalerovo, Kavalerovsky Municipal District, Primorsky Krai

3 Activity name

Monitoring of Common Plant and Animal Species in the Shallow Littoral Zone of the Sea of Japan: The Case Study of Vladimir Bay's Creeks in the Sea of Japan

- 4 Activity period From 2019 to 2021.
- 5 Activity place

The Nord-Ost Bay and the bay of the Rudanovsky Bay Peninsula of the Vladimir Sea of Japan.

- 6 Number of participants in the activity
- 7 Background of starting the activity

At the moment, the coasts in the Primorsky Territory are polluted with artificial waste. However, sea coasts play an important role not only in human life, but also in the functioning of terrestrial and aquatic biogeocenoses. That is why measures to monitor their condition are necessary to preserve the unique ecosystems of the sea coasts. The information obtained as a result of monitoring will help to determine the impact of anthropogenic load on marine ecosystems.

8 Abstract of presentation(including charts)

**Object of research:** mass species of plants and animals of the shallow zone of the Vladimir Bay of the Sea of Japan.

**Subject of research:** species diversity and quantitative composition of mass species of plants and animals of the shallow-water zone of the Vladimir Bay of the Sea of Japan.

**The purpose of the work:** to monitor the species diversity and quantitative composition of mass plant and animal species in the shallow littoral zone of the Vladimir Bay of the Sea of Japan for use in environmental education of the population.

#### Tasks:

1. To identify and summarize information about the species composition of animals and plants of the littoral of the Peter the Great Bay of the Sea of Japan from scientific sources.

- 2. To study methods for monitoring mass species of plants and animals of the shallow zone of the littoral of the Sea of Japan.
- 3. To lay test sites for collecting field material in the shallow zone of the Nord-Ost bays and the Rudanovsky Peninsula.

- 4. To determine the species and quantitative composition of the mass species of plants and animals of the shallow-water zone of the Nord-Ost bays and the Rudanovsky Peninsula.
- 5. Compare the results of field research monitoring 2019-2021.
- 6. To develop a virtual ecological and tourist route using the ISI-TRAVEL application and a booklet with a description of the biological diversity of the studied bays for environmental education of the population of Primorsky Krai.
- This work was carried out within the framework of the international project "Ocean without Borders" from 2019 to 2021. The methodology was developed by the JEAN International Foundation (Japan Environmental Acton Network) in Tokyo.

#### **Research methods**

- 1. Work with literary sources.
- 2. Observation.
- 3. Analytical method.
- 4. Mathematical method.
- 5. Working with determinants.
- 6. Photographing.
- 7. Information and communication technologies.

#### Choosing the place and time of the study

The technique is suitable for littoral with solid types of soil. It is not applicable on sandy beaches. The type of soil is assessed visually.

Research should be carried out at low tide, in the first half of the day.

It is necessary that there is no strong wind on the day of the collection, which will create unrest at sea and interfere with the collection of organisms.

Only living organisms are subject to study and collection, and not parts of shells and remains.

The bay of the Rudanovsky Peninsula perfectly suited us in terms of parameters.

Vladimir Bay is a bay of the Sea of Japan on the southeastern coast of Primorsky Krai. Conducting research on the coast, we measured the length and width of the selected

area, determined the type of soil – stones, measured the temperature of water and air.

On the littoral of the bay, such animals and plants as Japanese Sea natica in the amount of 28,000, sea Zostera in the amount of 15% (projective coverage), etc. were found.

According to the results of the study, 13 species of animals and 4 species of plants were found. Also, during the study, a large amount of anthropogenic garbage was found.

#### Nord-Ost

A small closed bay of Nord-ost was chosen as the place of research, suitable in all respects. It is located on the Vatovsky Peninsula, Vladimir Bay of the Sea of Japan.

In the shallow zone of the littoral, plants and animals such as Nucella Heiseana were discovered – the species was discovered both in 2019 and in 2020 in small numbers. In 2021, it was not detected; Ball–bearing coralline - studies have shown a decrease of 5% in 2020 and an increase of 30% in 2021 of this plant species.

According to the results of 2019, 2020 and 2021, a total of 11 represented animal species and 7 plant species were identified in the shallow littoral of the Yuzhnaya Bay (Nord-Ost).

The results of our research have been sent to the Center for Environmental Cooperation in the Northwest Pacific (Japan) to summarize, analyze and inform all interested organizations at the international, national, regional, as well as local levels that are developing measures to prevent pollution and clean up marine debris from coasts, water areas through the joint efforts of all countries in the region. For more reliable information, a number of more studies are required. The work will continue in the future. All-Russian competition of research and desigen work for schoolchieldren «Aerobatics»

Research

MONITORING OF COMMON PLANT AND ANIMAL SPECIES IN THE SHALLOW LITTORAL ZONE OF THE SEA OF JAPAN: THE CASE STUDY OF VLADIMIR BAY'S CREEKS IN THE SEA OF JAPAN.

Performed by: Ekaterina Shardakova, a student of grade 11, the Municipal Comprehensive Secondary school Nº 3, town Kavalerovo.

Project Manager: Arzamasova Alexandra Andreevna, teacher of biology, MBOU secondary school № 3, town Kavalerovo.

Kavalerovo 2023

### RELEVANCE OF THE TOPIC

At the moment, the coasts in the Primorsky Territory are polluted with artificial waste. However, sea coasts play an important role not only in human life, but also in the functioning of terrestrial and aquatic biogeocenoses. That is why, in order to preserve the unique ecosystems of the sea coasts, the measures to monitor their condition are needed.



- The object of the study: widespread species of plants and animals in the shallow zone of the Vladimir Bay of the Sea of Japan: Nord-Ost Bay and the Rudanovsky Peninsula.
- **The subject of the study:** species diversity and quantitative composition of mass species of plants and animals in the shallow water zone of the Vladimir Bay of the Sea of Japan.
- The location of the study: the Nord-Ost bay and the Rudanovsky Vladimir peninsula of the Sea of Japan.
- The study period is from: 2019 to 2021.
- The purpose of the work: to monitor the species diversity and quantitative composition of common plant and animal species in the shallow littoral zone of the Vladimir Bay of the Sea of Japan for use in environmental education of the population.

### BIODIVERSITY OF THE BAY OF THE RUDANOVSKY PENINSULA IN THE VLADIMIR BAY OF THE OLGINSKY MUNICIPAL DISTRICT OF PRIMORSKY KRAI



- Vladimir Bay— Bay of the Sea of Japan on the southeastern coast of Primorsky Krai.
- The bay of the Rudanovsky peninsula was ideal for us in terms of parameters.

### **Study:**

- Measuring the length and width of a selected area
- Determining the type of soil
- Air temperature measurement
- Water temperature measurement








# ANIMALS AND PLANTS



Nucella heiseana Found in a single copy.

Pugettia

quadridens

Quantity: 10





Natica clausa var. janthostoma Deshayes

Quantity: 28000

Ctenodiscus crispatus (Retzius)

Type: Echinoder mat

Quantity: 15

Ephidium oregonense

Kind:elphidium oregonense var. Recens stschedrina Quantity: 820000



## Sargassum

Quantity: 3%





Patiria pectinifera Quantity: 32 Phaeophyta Quantity: 10%



Strongylocentrot us intermedius

Quantity: 56



Nipponacmea moskalevi Quantity: 72



Tegula rustica (gmelin) Found in a single copy.



Apostichopus japonicus

Quantity: 1



Pagurus middendorffii Quantity: 23



Corallina pilulifera post, et rupr.

Quantity: 55%



Metridium senile Quantity: 27



Pagurus pectinatus Found in a single copy.



Zostera marina Quantity: 15% COMPARATIVE CHARACTERISTICS OF THE BIODIVERSITY OF YUZHNAYA BAY (NORD-OST) OF THE OLGINSKY MUNICIPAL DISTRICT OF PRIMORSKY KRAI FROM 2019 TO 2021



- A small closed bay, Nord-Ost, was chosen as a research site, suitable in all respects.
- It is located on the Watovsky Peninsula, the Vladimir Bay of the Sea of Japan

| Date                                            | Water area                | The coast where<br>the study took<br>place, geographic<br>coordinates | Plot length | Plot Width | Lot type | Anthropogenic<br>load(the presence<br>of garbage, other<br>traces of human<br>presence) | Weather                                        | Temperature                    |
|-------------------------------------------------|---------------------------|-----------------------------------------------------------------------|-------------|------------|----------|-----------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|
| 06.10.2019<br>from 10:00<br>to 13:00            | Bay of Vladimir, NORD-OST | 43.88N 135.48 E                                                       | 10 meters   | 10 meters  | stones   | Garbage, no people<br>(off season)                                                      | Cloudy - CLEAR,<br>Wind - WEAK<br>NORTH - EAST | Air 18*C,<br>Water<br>13*C     |
| 10.17.2020<br>from 10:00<br>to 13:00            |                           |                                                                       | 10 meters   | 10 meters  | stones   | Garbage, no people<br>(off season)                                                      | Cloudy - CLEAR,<br>Wind - WEAK<br>NORTH - EAST | Air17.4<br>*C,Water<br>11.6 *C |
| November<br>04, 2021 -<br>from 9:00 to<br>12:00 |                           |                                                                       | 10 meters   | 10 meters  | stones   | Garbage, no people<br>(off season)                                                      | Cloudy - overcast                              | BoAir<br>12*C<br>Water<br>7*C  |

# ANIMALS AND PLANTS



Tegula rustica (Gmelin)

Discovered in a single specimen in 2019



Natica clausa var. Janthostoma deshayes

Approximately 32,000 fewer detected in 2020 and down 60,000 in 2021



Ischnochiton hakodadensis Pilsbry

Found in both 2019 and 2020 in small numbers. Not found in 2021.



**Ctenodiscus crispatus** (Retzius)

Twice as many were discovered in 2020 compared to 2019. Not detected in 2021





# Elphidium oregonense

var. Recens stschedrina

In 2019 - 360,000. Research shows that in 2020 they were discovered more than 200,000, but in 2021 it decreased by 20,000.

## Nucella heiseana

Were discovered in 2019 and 2020 in small numbers. Not found in 2021.





# Hemigrapsuspenicillatus

Coastal brush crab This species was found in a single specimen in 2020

# Patiria pectinifera

This species was discovered in a single copy in 2020



# Balanus balanus (Linne)

This species was discovered in a single specimen in 2019.



# Olivella borealis

This species was discovered in a single copy in 2020.



#### Homalopoma sangarensis

It was discovered in 2020, in 2019 and 2021 this species was not observed



Corallina pilulifera Post, et Rupr.

Studies have shown a 5% decrease in 2020 and a 30% increase in 2021 for this plant species.



#### Sargassum

Studies show 10% increases in 2020 and 15% decreases in 2021







### Zostera marina

Hasn't changed in three years

#### Bossiella cretacea

In 2019 - about 10 shrubs. In 2020 and 2021, this plant was not found.

Saccharina (Laminaria) Japanese

In 2019 there are about 30 kstarniks. In 2020 and 2021, this plant was not found.

#### Ulva lettuce sea lettuce

A significant increase in the number of ulva lettuce sea lettuce in 2020 and a decrease in 2021.



## Colpomenia peregrina

This species was discovered in a single specimen in 2019.



#### Comparative characteristics of plants (projective coverage) 2019-2021



Comparative characteristics of plants

The results of our research have been sent to the Center for Environmental Cooperation in the Northwest Pacific (Japan) for generalization, analysis and informing all interested organizations at the international, national, regional, and local levels that develop measures to prevent pollution and clean up marine debris coasts and water areas by joint efforts of all countries of the region. For more reliable information, more research is required. The work will be continued in the future.

Ecological tourist route "In the search of treasures on the coastal zone of the Sea of Japan"

#izistory <u>https://izi.travel/browse/14c66bf1-1933-</u> 4878-a7d1-e95365b7f1d3?lang=ru



Booklet "Atlas key to animals and plants of the bays of the Rudanovsky Peninsula and Nord-Ost

<u>«https://cloud.mail.ru/public/Egyb/JddRLjm</u> <u>LA</u>



# Khabarovsk Territory (Russia)

#### Activity summary material

- 1 Municipal name Khabarovsk Territory
- Presenter name(affiliation name)
  Bogdana Starkova
  Municipal autonomous institution of additional education in Khabarovsk
  "Children's Ecological and Biological Center"
- 3 Activity name

# To learn about conifers that widely distributed in the Far East of Russia, the conifer needle external and internal structure

- 4 Activity period Autumn 2022.
- 5 Activity place Khabarovsk
- 6 Number of participants in the activity 1
- 7 Background of starting the activity Conifer needle anatomy research
- 8 Abstract of presentation(including charts)
- ① Conifers of the Far East of Russia. Coniferous leaves anatomical structure
- ② There are 27 species of coniferous trees (or conifers) and shrubs in the forests of the Far East of Russia. The Far East has the richest species composition of conifers than any other region of our country.
- 39 plants across five species of the Pine family grow on the territory of the Municipal autonomous institution of additional education in Khabarovsk
   "Children's Ecological and Biological Center". These are mostly young plants. The oldest plantings are from 1998. I collected samples of needles for research.
- ④ The most important distinguishing feature of conifers from deciduous ones is their leaves (or needles). At first sight, the needles of different types of conifers are the same. But they are quite different from each other in number, size and structure.

- 5 Ayan spruce (picea jezoensis). The needles are short (10-12 mm long), stiff, sharp. The life span of needles is up to 10 years.
- 6 The wax shell called cuticle is clearly visible on the needles of spruce. Ayan spruce cuticle is the thickest one.
- White-bark fir or Khingan fir (Ábies nephrolepis). The needles are flat, not spiny,
  1-3 cm long, shiny on top, soft, slightly forked at the ends, with sharp tips. The life span of needles is up to 10 years.
- ⑧ The cut of the fir needle has an oval form that slightly flattened on one side.
- ④ Gmelina larch or the Dahurian larch (Lárix gmélinii). The needles are annual, light green, smooth, with two longitudinal blue-gray stripes on the bottom. The needles grows in bundles of 20-30 needles up to 25 mm in length. By autumn, the needles turn yellow and fall down. Gmelina larch has the softest and thinnest needles.
- 1 The cut of the larch needle has the form of a semicircle, with one smooth edge.
- ① Scots Pine or Baltic Pine (Pinus silvestris). The needles are long up to 5-7 cm with a thin longitudinal stripe. They usually grow in bundles of two needles. They have a bluish-green color. The needles are with sharp tips, slightly flattened. The life span of needles is up to 3 years.
- ① The cut of Scots Pine needle is similar to the cut of the larch needle. It has a semicircle, but one side of it is not straight, but concave.
- (3) Korean Cedar or Korean Pine (Pinus koraiensis). Needles are up to 15-20 cm long. The life span of needles is 2 4 years.
- (1) The cut of Korean Pine needle has the form of an almost a regular triangle.
- (b) Observing the needles of coniferous trees with a microscope, I made a conclusion that needles have similarities and differences. All needles are very different in shape.
- (f) Coniferous and deciduous forests have a water protection function. Forests preserve the natural state of water resources. Conifers release oxygen. The forest inhabitants feed on coniferous trees seeds. It is very important to preserve coniferous trees. Thanks for your attention!



# Conifers of the Far East of Russia. Coniferous leaves anatomical structure

Bogdana Starkova Khabarovsk There are 27 species of coniferous trees (or conifers) and shrubs in the forests of the Far East of Russia. The Far East has the richest species composition of conifers than any other region of our country



Ель аянская (picea jezoensis)

Пихта белокорая или почкочешуйная (Ábies nephrolepis)

Лиственница гмелина (Lárix gmélinii) Сосна обыкновенная (Pinus silvestris)

Сосна кедровая корейская (Pinus koraiensis) The most important distinguishing feature of conifers from deciduous ones is their leaves (or needles). At first sight, the needles of different types of conifers are the same. But they are quite different from each other in number, size and structure





Ayan spruce (picea jezoensis)



The needles are short (10-12 mm long), stiff, sharp. The life span of needles is up to 10 years





# Ayan spruce (picea jezoensis)



The wax shell called cuticle is clearly visible on the needles of spruce. Ayan spruce cuticle is the thickest one



# White-bark fir or Khingan fir (Ábies nephrolepis)

The needles are flat, not spiny, 1-3 cm long, shiny on top, soft, slightly forked at the ends, with sharp tips. The life span of needles is up to 10 years



# White-bark fir or Khingan fir (Ábies nephrolepis)



The cut of the fir needle has an oval form that slightly flattened on one side



# Gmelina larch or the Dahurian larch (Lárix gmélinii)

The needles are annual, light green, smooth, with two longitudinal blue-gray stripes on the bottom. The needles grows in bundles of 20-30 needles up to 25 mm in length. By autumn, the needles turn yellow and fall down. Gmelina larch has the softest and thinnest needles

# Gmelina larch or the Dahurian larch (Lárix gmélinii)



The cut of the larch needle has the form of a semicircle, with one smooth edge





The needles are long up to 5-7 cm with a thin longitudinal stripe. They usually grow in bundles of two needles. They have a bluish-green color. The needles are with sharp tips, slightly flattened. The life span of needles is up to 3 years





# Scots Pine or Baltic Pine (Pinus silvestris)



The cut of **Scots Pine** needle is similar to the cut of the larch needle. It has a semicircle, but one side of it is not straight, but concave





Korean Cedar or Korean Pine (Pinus koraiensis)

Needles are up to 15-20 cm long. The life span of needles is 2 - 4 years









# Korean Cedar or Korean Pine (Pinus koraiensis)



The cut of **Korean Pine** needle has the form of an almost a regular triangle











Observing the needles of coniferous trees with a microscope, I made a conclusion that needles have similarities and differences. All needles are very different in shape







# Thanks for your attention!





# Tomsk Oblast (Russia)

#### Activity summary material

1 Municipal name

#### Tomsk Region Administration

- 2 Presenter name(affiliation name) <u>Odnoral Grigoriv</u>, MAOY SFML, <u>Pervushina Daria</u>, MBOU «Seversk lyceum»
- 3 Activity name

Cleaning of bodies of water from garbage. Environmental protection

- 4 Activity period September 2022 – June 2023
- 5 Activity place Seversk, Tomsk region
- 6 Number of participants in the activity 200
- 7 Background of starting the activity Preservation of water bodies from pollution
- 8 Abstract of presentation(including charts)

#### Children and youth stand for the preservation of clean water

Our youth takes the main role in the development of any region and country. They are the main resources of the future.

On the 20th of April 2022 a schoolgirl from Sevastopol, Diana Krasovskaya, proposed to make a movement that would unite children from all over Russia. In December 2022 All-Russian public-state movement of children and youth (RMCY) 'Movement of the First' was created.

The objectives of RMCY 'Movement of the First' are to promote public policy in the interests of children and youth, to participate in the upbringing of children and their career guidance, to get involved in the organization of their leisure activities, to make possibilities for their overall development and self-realization, to prepare children and youth for a full life in our society.

This movement works in twelve areas. One of them is ecology and protection of the environment: 'Take care of the Planet!' Everyone cares about how our world looks. Thus, this means that each member of the Movement can make a difference

in the world we live in.

In Seversk, branches of the 'Movement of the First' have already opened in every school. Each student has an opportunity to join the Movement and take part in projects or come up with their own initiative.

The Movement inherits traditions of ecological events in our town. A lot of environmental and educational work is being held in Seversk, in which students take an active part.

Activists of the Movement make ecological groups and hold ecological events such as quest games, lessons, and quizzes, cleaning days, planting trees and helping animals, and handing over waste papers.

Members pay special attention to water objects: Tom river and 'The Lake complex of the village Samus' ZATO Seversk' is an especially protected natural area, which is a unique natural complex with leisure and educational potential.

Activists of the Movement from the lyceum of Samus pay a lot of attention to the protection of their native land. They do a lot of educational work among villagers such as ecological events, games, and excursions.

In 2023, the pupils of Seversk and the village of Samus actively participated in the marathon '10 facets of patriotism' of the RMCY 'Movement of the First'. One of the tracks of this marathon is 'Pure Games'. Participating teams based on their primary department organize an ecological game on sports garbage collection and sorting.

Seversk is rich in traditions in the field of environmental education.

For example, on September 8, 2022, the twentieth annual municipal environmental action 'Clean Coast' was held on the banks of the Tom' River. Children from 13 schools in the city responded to the call to clean the Seversk beach from glass and garbage.

The Environmental Education Center 'Green Orbit' of the Samus Lyceum also joined the action.

Along with practical activities, a large number of educational events are held: discussions with the involvement of employees of the city administration and cultural institutions, holidays, and game classes that are aimed at attracting attention to the problems of environmental protection and water resources.

The task of environmental protection is one of the most urgent for the modern world. And the activists of the 'Movement of the First' understand the importance of environmental education and the development of environmental culture, the importance of daily practical affairs. We have a lot of work ahead of us, and each of us must take care of natural resources, do everything possible for this and encourage others to do so. And then we will be able to preserve this wonderful world.



# Children and youth stand for the preservation of clean water

Prepared by: Odnoral Grigoriy, PervushinaDaria, AndolshchikAleksey, ShaidukElizaveta, Zotov Denis

Supervisog2 Andolshchik Mariia Sergeevna, Efimova Anna Vladimirovna







On the 20th of April 2022 a schoolgirl from Sevastopol, Diana Krasovskaya, proposed to make a movement that would unite children from all over Russia. The President of our country supported this initiative.

In December 2022 the first congress was held. All-Russian public-state movement of children and youth 'Movement of the First' was created.



- 1. Education and knowledge. 'LEARN AND KNOW!'
- 2. Science and technology. 'DARE AND OPEN!'
- 3. Labor, profession and own business. 'FIND A VOCATION!'
- 4. Culture and art. 'CREATE AND INSPIRE!'
- 5. Volunteering and volunteerism. 'DO GOOD!'
- 6. Patriotism and historical memory. 'SERVE THE FATHERLAND!'
- 7. Sports. 'REACH AND WIN!'
- 8. Healthy lifestyle. 'BE HEALTHY!'
- 9. Media and communications. 'TELL ABOUT THE MAIN THING!'
- **10. Diplomacy and international relations. 'BE FRIENDLY!'**
- **11. Ecology and nature protection. 'TAKE CARE OF THE PLANET!'**
- 12. Tourism and travel. 'OPEN THE COUNTRY!'







Первые

In Seversk, branches of the 'Movement of the First' have already opened in every school. Each student has an opportunity to join the Movement and take part in projects or come up with their own initiative.






Activists of the Movement from lyceum of Samus pay a lot of attention to the protection of their native land. They do a lot of educational work among villagers such as ecological 238



# **Environmental action 'Clean Coast'**





Первые®

























## **Environment Quiz**

| <Note $>$ |  |  |  |
|-----------|--|--|--|
| Q1.       |  |  |  |
| Q2.       |  |  |  |
| Q3.       |  |  |  |
| Q4.       |  |  |  |
| Q5.       |  |  |  |
| Q6.       |  |  |  |
| Q7.       |  |  |  |

### Hands-on Activity

#### 1 Outline

- Each group will create a poster on the web.
- Using "Google slide" software, which can be operated by many people in one time \*If you cannot use this software (Google slide), you can create a poster with Power Point etc.
- Activity-time : 13:10-14:40(CST)/90min
  - <Reference>

Chinese Standard Time

13:10-13:20 Decision of theme/title

- 13:20-14:30 Production/Drawing
  - illustration creating
  - image/photo searching on WEB
  - placement examination, decoration
- 14:30-14:40 Examination of the content of explanation
- 14:40-15:30 Presentation
  - Each group will explain their work (poster) in English.
  - Q&A about works in English

#### 2 Theme

"ideal society/country/world in 2050"

- 3 Google Slide URL
  - Each participant should access the URL in the table below for each municipality.
  - You can edit at the same-time. Please make a poster while exchanging opinions with everyone.

| Municipality Name    | Google-Slide URL                                                                                      |  |  |  |
|----------------------|-------------------------------------------------------------------------------------------------------|--|--|--|
| Liaoning Province    | https://docs.google.com/presentation/d/1T11amry/5QoJ9mCSHx0xOdXwGzPLQy/2zjRCqpsHPoDM/edit?usp=sharing |  |  |  |
| Yamagata Prefecture  | https://docs.google.com/presentation/d/151YjRDs4dlbqjrO6d1GUjoYrE7tDc9xqbUgSuLPIN9s/edit?usp=sharing  |  |  |  |
| Toyama Prefecture    | https://docs.google.com/presentation/d/11r9w-mX5pPfYKtVJ1uygBfCmAbnj39T0xac0By_wrDg/edit?usp=sharing  |  |  |  |
| Gangwon-do           | https://docs.google.com/presentation/d/10KrHqTCXd5KJqATvjxwRGzkzs-OmNqvZTQi1YaQ7KWledit?usp=sharing   |  |  |  |
| Chungcheongnam-do    | https://docs.google.com/presentation/d/1BL4JYXfnwtq9u1MlfM56Ua3zMljVz+md34V3uFKvRA/edit?usp=sharing   |  |  |  |
| Dundgovi Province    | https://docs.google.com/presentation/d/1YwnXAAz9jMgvUqes5nsshVNAPyEjOlf7dYUlimXwIE/edit?usp=sharing   |  |  |  |
| Altai Territory      | https://docs.google.com/presentation/d/1ptlF5BeU8KTUaFAAmXBdQzXG5Q4VAaXHZpJzS0Fz4DY/edit?usp=sharing  |  |  |  |
| Primorsky Territory  | https://docs.google.com/presentation/d/15SJxb3cSEq0ad3hBwWDGh52MYgsFRBKRFl6G8gr9X_Y/edit?usp=sharing  |  |  |  |
| Khabarovsk Territory | https://docs.google.com/presentation/d/1xq7EEtz28w_88SRiAWA7v3gv2NjoRia3eaHpKHkmxg/edit?usp=sharing   |  |  |  |
| Tomsk Oblast         | https://docs.google.com/presentation/d/1WeHndEWYzXetDaTNQgxktsw_HjwhZQTuptl8YWuHo/edit?usp=sharing    |  |  |  |
| (for TEST)           | https://docs.google.com/presentation/d/1SN3YWUVzCqpjvhcYeDvdKaCCc_qe8ccHsVaeypzsRgM/edit?usp=sharing  |  |  |  |

#### 4 Notice/Points to remember

- ① Vertical and horizontal are free.
- ② You must include the "Slogan/ Message" that matches the theme on the poster.
- ③ The poster will be upload to NPEC website, and may be used as an environmental conservation material.
- ④ Please avoid the contents that make you imagine a specific company name, product name.
- 5 Don't use COPYRIGHTED Images/Pictures