

REPORT

on activities devoted to the International Day of Ozone Layer Preservation

This year Ozone Center of Kyrgyzstan organized a number of activities for celebration of World Ozone Day including special contest among school pupils interested in environment protection. During these activities information on depletion of ozone layer, Montreal Protocol on substances that Deplete the Ozone Layer, sustainable development and environment protection were disseminated.

“Montreal Protocol. 32 years and healing” were the official motto of all activities. The aim of all organized actions were to give as more information on value of the Montreal Protocol, protection of ozone layer, the Kigali amendment and impact of UV radiation to general public, children, students and teachers so they can contribute to preservation of ozone layer and climate change mitigation through dissemination of information about these issues.

Ministry of Education and Science of Kyrgyz Republic issued an order on preparing and conducting activities dedicated to World Ozone Day at secondary and vocational schools and universities during September 2019. And all activities was organized jointly with Ministry of Education and Science, State Agency on Environment Protection and Forestry and Republican children and youth center of ecology, tourism and local history.

Literature

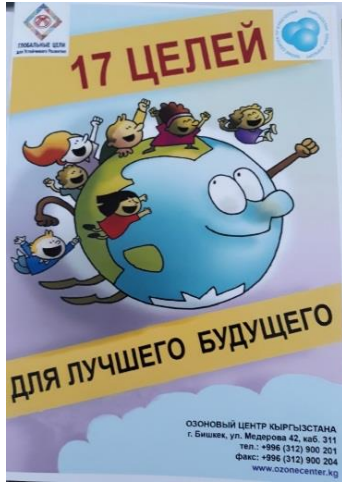
To conduct all activities devoted to Ozone Day special literature was developed and printed. Theses published materials were handed over among the participants and included information of Montreal Protocol, ozone depleting substances, the state of ozone layer and sustainable development goals and a brochure containing information on technical aspects of use of CO2 as a refrigerant was developed and published.

Posters: «Sustainable development goals and Montreal Protocol on Substances Depleting the Ozone Layer», «Behavior lines for sustainable development» on Russian and Kyrgyz languages, «Safety is on the first place» on Russian and Kyrgyz languages, «Circular Economy», «Combating plastic pollution», «Sustainable consumption for sustainable development», «World ozone Day» and roll-up « World ozone layer preservation day ».






Comics book “17 steps for better future”, booklets “5 steps of future ecologist” in Russian and Kyrgyz languages, brochures “Nowadays state of the ozone layer” and “Green refrigeration technologies on CO₂” and board games “Ozzy Ozone” in Russian and Kyrgyz languages. Children and teachers can find useful information about how to achieve sustainable development goals protecting environment and preserving the natural resources and information on measures of protection from excessive UV radiation, selecting goods without ozone depleting substances.



ШАГ 4. Экономь энергию и воду
Безводно мы используем продукты, продукты, воду, энергию. С каждым днем их использование на земле планеты и города увеличивается. Нам важно помнить, что будущее поколение тоже имеет право воздуха и достать жить на этой планете. Поэтому мы должны позаботиться о том, чтобы не истощить ресурсы, воды и энергии для своей жизнедеятельности. Экономь ресурсы не приобретаешь лишнего. Все товары и техника – это природные ресурсы. Делай осознанный выбор. Экономь энергию: используй энергосберегающие технологии, контролируй использование энергии у себя дома и в школе!

ШАГ 5. Уменьши количество пластика
Пластик разлагается более 300 лет, при этом оно продолжает накапливать вред. Представь себе, что останется после нас. В Кыргызстане пластик стал широко использоваться всего около 20 лет. Сегодня пластиком облепели леса, реки, степи. Пластик, практически весь пластик, который мы используем, попадает на свалку и остается там долгие годы, либо разлагается с ветром по природным территориям. Поэтому важно дать бой пластику! Уменьшить количество использованного пластика в нашем обществе!

- Постарайся не использовать одноразовые пластиковые предметы: стаканчики, тарелочки, тарелки;
- Минимально используй пластиковую упаковку;
- Всегда носи сумку или многоразово используемый пакет;
- Сертифицированный Сабайерский экологический музей в отдаленный павет или месяц. В собранном состоянии его забуют инициативщики и передадут в пункт приема

ВЕСМИРНЫЙ ДЕНЬ ЗАЩИТЫ ОЗОНОВОГО СЛОЯ - 2019
Молодежь и природа – общее будущее

ПЯТЬ ШАГОВ ЮНОГО ЭКОЛОГА

Нужно экономить энергию и воду!!!



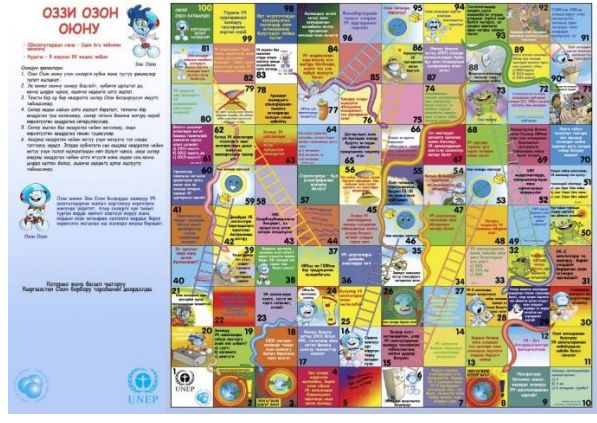
4 кадам: Суу менен энергияны үнөмдөдүлө
Күн сайын биз ар кандай азык-түлүк ар кандай заттарды жана суу менен энергияны жашоубуздун колдонубуз. Буларды колдонууну сапы шаарыбыздан жана планетибиздин дон узаккагы карган чечке келет.

5 кадам: Пластикти сактап аздай
Пластик 300 жылга гана чейин. А бул пластикти кун сайын колдонуубуз. Биздин айлана кучурамыз даярада кандай заттарды жана энергияны колдонуубуз? Келе, жазыныбызга Зыялы гана болду! Азыр, кичинекей, пластикалар, даярдыларга пластиктер абдан көп. Биз колдонгон бардык пластикти ышакка коюу керек. Пластикти колдонууну жакшы билебиз. Ал кандай колдонгон жакшы билебиз. Шамаалы болуучу пластиктер уулу, табитибизди булгайт. Ошондуктан, пластиктерди каршы кылуу керек.

Бүткүл дүйнөлүк озон катмарын коргоо күнү - 2019!
Жаштар жана жаратылыш – жалпы келечектеш

Жаш экологдун беш кадамы

Энергия менен сууну үнөмдөйөзсүң!



Activities devoted to World Ozone Day

Activities started before 16th of September – World Ozone day, in the beginning of July to spread information among children and teenagers on good behavior on the beach while taking sunbathe and how to preserve from excessive solar UV radiation. Representatives of Ozone Center taught children, resorting at children camps, on measures of protection from UV radiation and organized large-scale information campaign devoted to World Ozone Day.

July 15-21, 2019 Representatives of Ozone Center conducted the information campaign “Protection from the sun -2019” at children camps of Issyk-Kul oblast. The

objective of the campaign was to give detailed information to children, supervisors and management of children camps on depletion of ozone layer and further impact of UV radiation on human health and ways to protect oneself from UV radiation.

The agenda included short lecture about the ozone layer and UV radiation, watching the educational movie “Protection from UV radiation”, demonstration of poster “Safety is on the first place” and comics book “17 steps to better future”, playing ground game Ozzy Ozone and quiz. Comics book “17 steps to better future”, playing ground game Ozzy Ozone. Comics book and board game Ozzy Ozone were handed over to actively participating children. More than 2000 children took part at the information campaign from different summer camps of Issyk-Kul oblast and learnt about good behavior while resting on the Issyk-Kul lake all of them got information about impact of UV radiation and related diseases such as melanoma, carcinoma and eye cataract. They learnt to choose appropriate clothes, sunscreens and sunglasses.

Children summer camp “Ulan”, number of children 300.



Children summer camp “Sputnik”, 210 children



Children summer camp “Mayak”, 350 children



1) Children summer camp “Orlenok”, 200 children



Children summer camp “Den Sooluk”, 140 children



Children summer camp “Dzherzhinets”, 500 children



Children summer camp “Kelechek”, 480 children



On September 16, 2019, at school-gymnasium No. 69, Bishkek, the seminar devoted to World Ozone day were held for schoolteachers of Pervomaiskiy region. During the seminar lecturers gave a presentations about protection of ozone layer, Montreal Protocol and Kigali amendment, Education for Sustainable development, Montreal Protocol and SDG, Green Pack: Glaciers of Central Asia, Green Steps: multimedia educational resource.

Following printed special materials were distributed among participants: Posters “Behavior lines for sustainable development”, “Safety is on the first place”, “Montreal protocol and Sustainable Development Goals”, “Sustainable consumption for sustainable development”, “Combating plastic pollution”, “Circular economic” and “World Ozone Day”, brochures “Modern state of the ozone layer”, leaflets “5 steps of young ecologist”, comics book “17 steps for better future” and CD containing educational software. Management of the school organized little contest for the best picture, the best poem, the best essay about the ozone layer preservation. The authors of the best work were awarded by special awards.

School pupils listened to the lecture about the ozone layer and methods of protection from UV radiation and played ground game *Ozzy Ozone*, they attended short quiz about the ozone layer. School pupil were handed over comics book “17 steps for better future” and board game *Ozzy Ozone*. In total a number of teacher participated the seminar was 28

teachers of Pervomaiskiy region, Bishkek, and 30 school pupils of school No.69. All teachers got certificates.







16-18 September, 2019, at Kyrgyz State University of Geology of Mining and Natural Resource Development named after U.Asanaliev a seminar “16th of September International day for the Ozone Layer Preservation” was held. Main aim of the seminar was to rising the awareness of teachers, who teach environment related subjects, and students about the role of the ozone layer and negative impact of excessive solar UV radiation on the living species, plants and on human organism. To teach students be proactive in solving local, regional and global environmental problems. 9 teachers and 43 students participated in activities. Students got leaflets “5 steps of future ecologist”, brochures “Modern state of the ozone layer” and guides “The ozone layer of the Earth’s”.



September 17, 2019, Ozone Center of Kyrgyzstan organized an open lecture at vocational school No.93, Bishkek, devoted to World ozone Day. Representatives of Ozone Center gave detailed information on the Montreal Protocol, its history, achievements and future realization of Kigali Amendment. Short movie about the ozone layer, its functions and value for humankind and consequences of the ozone layer depletion and method of protection from UV radiation. The following posters were distributed: Posters “Behavior lines for sustainable development”, “Safety is on the first

place”, “Montreal protocol and Sustainable Development Goals”, “Sustainable consumption for sustainable development”, “Combating plastic pollution”, “Circular economic” and “World Ozone Day”, brochures “Modern state of the ozone layer”, leaflets “5 steps of young ecologist” and comics book “17 steps for better future”. About 30 students attended the seminar.



September 17, 2019, Ozone Center and State Agency on environment protection and forestry organized a seminar for teachers of Issyk-Ata region at Budenovka secondary school. The main subjects of the seminar were preservation of the ozone layer, the Montreal protocol and Kigali Amendment, education for sustainable development, behavior lines for sustainable development, Green Pack: the Glaciers of Central Asia and Green Steps: multimedia educational resource. Teachers were handed over posters “Lines of behavior for sustainable development”, “Circular Economy”, “Combating plastic pollution”, “Safety is on the first place” and “Sustainable consumption for Sustainable development”, CD containing multimedia educational software, comics book “17 steps for the better future” and brochures “Modern State of the Ozone Layer”. Participants got certificates.



Ozone center jointly with State Agency on Environment Protection and Forestry organized a contest “the Best poster/picture”, “the Best Poem” and “The Best Essay” about the ozone layer among the school pupils of Budenovka secondary school. The winners got different books as an award.





School pupils and teachers prepared interesting short performances about the depletion of the ozone layer. They told about anthropogenic influence on ozone layer and its consequences and invited to make action to preserve ozone layer and climate. The created poems and songs about ozone layer and its value to human health and other ecosystems.





30 pupils of the Budenovka school listened a lecture about ozone layer and its depletion, played ground game Ozzy Ozone and got board game Ozzy Ozone. In total about 65 teachers from Issyk-Ata region participated the seminar.





On September 18, 2019, Ozone Center organized an open lecture at vocational school No.97, Bishkek. Representatives of Ozone Center told about the Montreal Protocol, Kigali Amendment and achievements of Montreal Protocol. They explained the functions of ozone layer, the evolution of the depletion and recovery of ozone layer and ODS phase out. The impact of UV radiation on human body and the methods of protection were discussed with students. Following printed materials were distributed: “The Montreal Protocol and Sustainable development goals”, “Safety is on the First Place”, “World ozone day” and “Sustainable consumption for sustainable development”, leaflets “5 steps of future ecologist” and brochures “Modern state of the Ozone Layer” for students and teachers. Teachers of the vocational school and 25 students attended the seminar.



On September 24, 2019, at Kyrgyz-Uzbek vocational school, Osh city, Representatives of Ozone Center organized open lecture devoted to World Ozone Day. They gave information on the Montreal Protocol, Kigali Amendment, ODS, evolution of the ozone layer, and dangerous effect of the UV radiation and results of ODS phasing out. Following materials were distributed: “The Montreal Protocol and Sustainable development goals”, “Safety is on the First Place”, “World ozone day”, leaflets “5 steps of future ecologist”, comics book “17 steps for the better future” and brochures “Modern state of the Ozone Layer” and “Green refrigeration technologies on CO₂” for students and teachers. Teachers of the vocational school and 35 students attended the seminar.



On September 25, 2019, at Osh Technological University named after Adyshev, Osh city, an open lecture devoted to World Ozone Day were held. Representatives of Ozone Center gave information on the Montreal Protocol, ODS, evolution of the ozone layer and dangerous effect of the UV radiation and results of ODS phasing out. Following materials were distributed: “The Montreal Protocol and Sustainable development goals”, “Safety is on the First Place”, “World ozone day”, leaflets “5 steps of future ecologist”, comics book “17 steps for the better future” and brochures “Modern state of the Ozone Layer” for students and teachers. Teachers of the vocational school and 21 students attended the seminar.





On September 27, 2019, at Jalalabad State University, Jalalabad city, representatives of Ozone Center organized open lecture devoted to World Ozone Day. They gave information on the Montreal Protocol, Kigali Amendment, impact of ODS and phasing out, depletion of the ozone layer, ozone holes, and dangerous effect of the UV radiation and results of ODS phasing out. Following materials were distributed: “The Montreal Protocol and Sustainable development goals”, “Safety is on the First Place”, “World ozone day”, leaflets “5 steps of future ecologist”, comics book “17 steps for the better future” and brochures “Modern state of the Ozone Layer” and “Green refrigeration technologies on CO₂” for students and teachers. Teachers of the ecology faculty and 27 students attended the seminar.



Conclusions

The activities, devoted to the World Ozone Day, was successful, all participants learned about global environmental problem – depletion of the ozone layer and related negative effect of the UV radiation on human health, the results of the Montreal Protocol in phasing out ODS. The distributed materials contained general information of the role of the ozone layer, sustainable development and alternatives to ODS. All together about 2250 schoolchildren (summer camps and secondary/vocational schools), 83 teachers and 100 university students attended the activities.

Assistant of Ozone Center

Kamilia Mukhanova