



**The State Agency of Environment and Forest Protection**

**National Ozone Unit of The Kyrgyz Republic**

# **R E P O R T**

**on celebration of the International Ozone Day 2017**

**BISHKEK 2017**

## **Introduction**

The International Ozone Day 2017 and 30<sup>th</sup> anniversary of Montreal Protocol was celebrated in Kyrgyz Republic as elsewhere in the world in order to raise awareness about negative effects of the ozone layer depletion. To celebrate this day, NOU of Kyrgyz Republic organized activities such as open lectures, environmental action and seminars in Bishkek, Osh and Karakol cities.

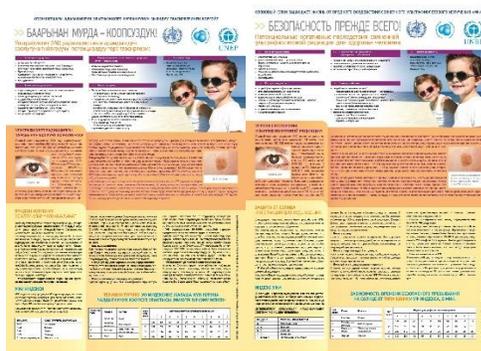
NOU of Kyrgyzstan made several efforts this year for celebrating the International Day for the Preservation of the Ozone Layer including communication via the national television, a special contest for school pupils interested in the environment, and inviting various experts and government officials. Effective speakers and experts (from Ministry of Education and Science of the Kyrgyz Republic and The State Agency of Environment and Forest Protection, Republic Children and Youth Center for Ecology, Local History and Tourism, Issyk-Kul Regional Children and Youth Center for Creativity), who are directly involved in educational sector and environment protection were invited to organize the seminars. The invited experts contributed a lot to this celebration by giving lectures about sustainable development and protection of the environment and assisting in preparing of activities.

“30 years: caring for all life under the sun” was a motto for all events and activities of this year, the motto was selected by the executive secretariat of the Montreal Protocol for 197 member countries. The main goal of these events was to spread information about the depletion of the ozone layer and the Montreal Protocol among students, pupils, teachers and public, so they can contribute to preservation of ozone layer by distributing information about phasing out of ozone depleting substances.

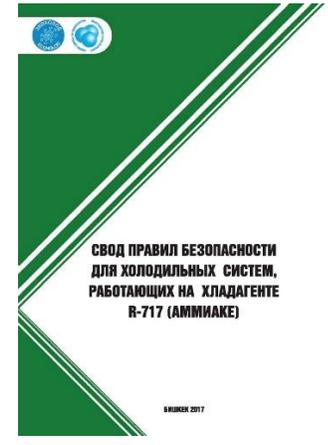
### **1. Dissemination materials**

In order to make activities, devoted to 30<sup>th</sup> anniversary of Montreal Protocol and International Day for Preservation of Ozone Layer, more successful and sustainable following materials were published for dissemination. These materials were distributed among participants of activities, organized by NOU Kyrgyzstan and they help to obtain general knowledge about the Montreal Protocol, ozone depleting substances, negative effects of UV radiation and protection from UV radiation. Several technical books can be useful for experts in the fields of refrigeration and air conditioning, since they content valuable knowledge about use of ODS and alternatives to ODSs.

**1. Posters** “Sustainable development goals and Montreal Protocol on Substances that Deplete the Ozone Layer”, “30<sup>th</sup> anniversary of Montreal protocol”, “Lines of behavior for sustainable development”, “Safety is in the first place”, a banner “International Day of preservation of the Ozone layer” and a roll-up “30<sup>th</sup> anniversary of Montreal protocol”, in Russian and Kyrgyz languages.



2. Brochures “The Montreal Protocol and Human Health” and “Protection from harmful ultraviolet radiation” was published in Russian language. These brochures describe how total ozone in the stratosphere protects the Earth from overexposure to UV radiation and what consequences to the health from UV radiation are. Coloring book ‘In the sunny day play, but not play too much’ in Russian language and table game “Ozzy Ozone” in Kyrgyz language were published for children and pupils, so they can learn how to behave in sunny day and how to preserve the ozone layer. Several technical books were printed for experts in refrigeration fields; they are “Guidelines for certification of experts in refrigeration techniques and air condition”, “Automobile conditioners”, “Safety rules refrigeration systems working on refrigerant R-717 (ammonia)”.



3. In honor of International day for Preservation of the Ozone Layer, the UN Secretary General's message was demonstrated at schools, universities, mass media, and placed on web-site of Ozone center. It was also distributed among participants of all activities.

4. T-shirts, caps and bags was made for dissemination. Bags, with logo of 30<sup>th</sup> anniversary of The Montreal Protocol, was used to give published materials to participants. School pupils got T-shirts and caps with the same logo and general rules of protection form the UV radiation on the back site of the t-shirts.





## 2. State awards for partners of National Ozone Unit of the Kyrgyz Republic

On the honor of 30<sup>th</sup> Anniversary of the Montreal Protocol, the State Agency of Environment Protection and Forestry under the Government of Kyrgyz Republic prepared awards to officers of Kyrgyz NOU and to its partner organizations. Since they have invaluable contributed to realization of the State Program on phasing out of ODS, raising awareness of general public on environmental issues, scientific investigation into climate change and the ozone layer depletion. In total 34 experts received Honorary Certificates and Awards for Excellence in Environment Protection.





### **3. Activities devoted to 30<sup>th</sup> anniversary of Montreal Protocol and World Ozone Day 2017**

**1. On 24-28<sup>th</sup> of July 2017** the representatives of Ozone center conducted the information campaign, under logo of “Caring for all life under the Sun”, in children’s summer camps of Issyk-Kul oblast, it was dedicated to 30<sup>th</sup> anniversary of Montreal Protocol.

The main aim of the information campaign was to spread information about the climate change, negative effects of ultraviolet radiation in the sun light, as well as to acquaint children with the methods of protection against harmful UV radiation.

The program consisted of introductory lecture “Ozone and climate: methods of adaptation to the implications of climate change and protection against harmful UV radiation”; watching educational movie “UV protection”; presentation of poster “Safety is in the first place”, playing the game “Ozzy Ozone” and quiz. Gifts, such as colored comic “Ozzy Ozone”, children book “Sun and my friend Muk”, working book “Protect yourself from the sun” were distributed among children from summer camps. More than 2300 children participated the campaign.

There were spread out about 100 posters “Safety in the first place” in Russian and Kyrgyz languages during the activities, these posters contained information on UV index, methods of protection against UV radiation and implication to the human health from excessive exposure to UV radiation, also to brochures “Protection from ultraviolet radiation” was given to counselor.

**A list of children summer camps and number of children that took part in the information campaign:**

**1) Children’s camp “Ulan” (Toru Aigyry village, Issyk-Kul oblast):**

Number of children: 342 (13 groups)

Number of posters: 10



**2) Children's recreation camp “Mayak” (Toru-Aigyr village, Issyk-Kul oblast)**

Number of children: 250

Number of posters: 10



**3) Children's camp “Kelechek” (Issyk-Kul oblast, Kosh-Kol village)**

Number of children: 625 (20 groups)

Number of posters: 10



**4) Children’s camp “Jetigen” (Issyk-Kul oblast, Bosteri village)**

Number of children: 200

Number of posters: 10



**5) Children's Health Center "Sputnik" (Issyk-Kul oblast, Sary-Oi village)**

Number of children: 86

Number of posters: 10



**6) Children's health center "Orlenok" (Issyk-Kul region, Sary-Oi village)**

Number of children: 143

Number of posters: 10



**7) Children's Health Center "Zhalyn" (Issyk-Kul region, Sary-Oi village)**

Number of children: 217

Number of posters: 10



**8) Children's Health Center "Barchyn" (Issyk-Kul oblast, Sary-Oi village)**

Number of children: 52

Number of posters: 10



**9) Children's health camp "Dzerzhinets" (Issyk-Kul oblast, Chok-Tal village)**

Number of children: 460

Number of posters: 10



Senior camp counselors have shown considerable interest in this campaign, noting the importance of it for children. They recommended carrying out this campaign during the summer season for all streams of children. There were suggestions from camp counselors that would be very effective to organize workshop or training on this subject for the directors and camp counselors of children's summer camps.

**2. On 14<sup>th</sup> of September 2017**, students and teachers of Kyrgyz National Agrarian University named after K.I. Skryabin participated in the seminar “Caring for all life under the Sun” devoted to 16 September – International day for preservation of the ozone layer. During the action associate professor Kurmanjan Osmonova told about Vienna Convention and The Montreal Protocol on Substances, that Deplete the Ozone Layer, global environmental problems including the ozone layer depletion. She also told about scientists and other experts from all over the world, who contributed to phasing out of ODS, including methyl bromide in food production. At the end posters “Line of behaviors for the sustainable development of society”, brochures “Protection from UV radiation”, information leaflets “Brief primer on the Montreal Protocol”, “Montreal Protocol on Substances that Deplete the Ozone Layer, 2017: A success in the making” and “Extract From The Scientific Assessment Panel Report, Twenty questions and answers about the ozone layer: 2017 update” were disseminated to all students and teachers. About 80 students and 10 teachers participated in this action.



**3. On 15<sup>th</sup> of September 2017**, NOU of Kyrgyzstan arranged the seminar at the No. 93 professional Lyceum in Bishkek to celebrate the International Day for the Preservation of the Ozone Layer. The representatives of NOU told about the Montreal Protocol, its history, and current achievements. They also showed movies about the Ozone Layer, its role for human, and about consequences of the ozone layer depletion. At the end posters “Lines of behaviors for the sustainable development”, brochures “Protection from UV radiation”, posters “Sustainable

development goals and Montreal Protocol on Substances that Deplete the Ozone Layer”, information leaflets “Brief primer on the Montreal Protocol”, “Continuing and future challenges facing the ozone layer protection effort”, “Montreal Protocol on Substances that Deplete the Ozone Layer, 2017: A success in the making”, “Extract From The Scientific Assessment Panel Report, Twenty questions and answers about the ozone layer: 2017 update”, “Key achievements of the Montreal Protocol to date” were distributed to all students and teachers. Teachers of the lyceum and about 50 pupils attended the event.



**4. On 15<sup>th</sup> of September 2017**, an open lecture under the motto “Caring for all life under the Sun” devoted to the International day of the ozone layer protection were held at Kyrgyz State Technical University named after I.Razzakov. Representatives of NOU told to students about the Montreal Protocol and the ozone layer. They explained how the Protocol acts and protects the ozone layer. The main aim of this event was to raise awareness about the depletion of ozone layer, and protection from over exposure to UV radiation. Moreover, students learnt about alternatives to ODS with low global warming potential. After the event, all participants got brochures “Protection from UV radiation” and “The Montreal Protocol and Human Health”, posters “Safety is in the first place” and some technical books “Safety rules refrigeration systems working on refrigerant R-717 (ammonia)” and leaflets about the Montreal Protocol.



**5. On 15<sup>th</sup> of September 2017**, seminar under the motto “Caring for all life under the Sun” devoted to the International day of the ozone layer protection were held at Bishkek Mountain Multidisciplinary College. During the seminar, all participants learnt about the Montreal Protocol, the importance of ozone layer for all species, including human being. Lecturer also told about ozone depleting substances: production, use and disposure. Following information materials were distributed among participants: Brochure “Protection from UV radiation”, leaflets: “Brief primer on the Montreal Protocol”, “Continuing and future challenges facing the ozone layer protection effort”, “Montreal Protocol on Substances that Deplete the Ozone Layer, 2017: A success in the making. 54 students and 12 university teachers took part in the seminar.



**6. On 15<sup>th</sup> of September 2017**, Institute of Mining and Mining Technology at Kyrgyz State Technical University named after I.Razzakov held a seminar about Montreal protocol and Ozone layer preservation devoted to the 30<sup>th</sup> anniversary of the Montreal Protocol. During the seminar participants learnt about the Montreal Protocol treaty and ozone depleting substances, how the ozone layer depletion affects human health and other living organisms. In addition, lecturers told about how people can contribute to recovery of ozone layer and about alternatives to ODS. All participants got brochures “Protection from UV radiation”, posters “Safety is in the first place” and leaflets about the Montreal Protocol.



**7. On 15<sup>th</sup> of September 2017**, a seminar for teachers was held in secondary school No. 84, devoted to 30<sup>th</sup> anniversary of Montreal Protocol and World Ozone Day 2017. During the seminar lecturers told about “Protection of Ozone layer”, “Education for sustainable development”, “Lines of behaviors for the sustainable development of society”, “Green Package: Glaciers of Central Asia” and “Green Steps: multimedia educational tool”. Following information materials were distributed to participants: Posters “Lines of behavior for the sustainable development”, “Safety is on the first place”, information leaflets about achievements of the Montreal Protocol. About 30 pupils of the 6<sup>th</sup> grade listened the lecture about the Ozone Layer depletion and protection from UV radiation, after the lecture pupils played a game “Ozzy Ozone” and attended quizzes. Coloring books “In sunny day play, but do not play too much” and table game “Ozzy Ozone” were given to these pupils. There were about 35 teachers from Lenin region of the Bishkek city and 30 pupils of the 6<sup>th</sup> grade from high school No.84.



**8. On 16<sup>th</sup> of September 2017**, NOU of Kyrgyzstan organized environmental action devoted to International day for preservation of ozone layer at Children Camp “Stroitel” where 40 school pupils participated. They learnt about ozone layer, why it is important for human health, and how to protect themselves from dangerous over exposure to UV radiation. Here pupils got T-shirts and caps with a logo of 30<sup>th</sup> anniversary of Montreal Protocol and short information about how to protect from UV radiation. During the action pupils played active games with quizzes about the ozone layer, they also attended game “Ozzy Ozone” and creative studios, where they painted plaster figurines and made origami. Coloring books “In sunny day play, but do not play too much” and table game “Ozzy Ozone” were given to every pupil, so they can continue their education about protection from harmful UV radiation and distribute these information among their friends. Children launched balloons into the sky as a symbol of the ozone layer recovery.



**9. On 19<sup>th</sup> of September 2017**, seminar under the motto “Caring for all life under the Sun” devoted to the International Day for Preservation of the Ozone Layer were held at Osh Technological University named after A.Adyshev. The representatives of NOU Kyrgyzstan gave information on the Montreal Protocol and its role in phasing out of ODS. They also told about alternatives to ODS, the recovery and re-use of refrigerants, Standards and Codes related to use, production and disposal of refrigerants. Participants got brochures “Protection from UV radiation”, “The Montreal Protocol and Human Health”, posters “Safety is in the first place” and “Lines of behavior for the sustainable development”, technical books “Safety rules in refrigeration systems working on refrigerant R-717 (ammonia)”, “Automobile conditioners”, “Guidelines for certification of experts in refrigeration techniques and air conditioning”, and leaflets about the Montreal Protocol.



**10. On 20<sup>th</sup> of September 2017**, seminar under the motto “Caring for all life under the Sun” devoted to the International day of the ozone layer protection were held at Professional Lyceum No.11 in Osh city. The representatives of NOU Kyrgyzstan gave information on the Montreal Protocol and its role in phasing out of ODS. They also told about problem of the ozone layer depletion, chemicals that deplete the ozone layer, and their alternatives. Brochures “Protection from UV radiation” and “The Montreal Protocol and Human Health”, posters “Safety is in the first place” and Posters “Lines of behavior for the sustainable development”, technical book “Safety rules refrigeration systems working on refrigerant R-717 (ammonia)”, and leaflets about the Montreal Protocol were distributed among the participants.



**11. On 20<sup>th</sup> of September 2017**, NOU of Kyrgyzstan and State Agency of Environment and Forest Protection organized a seminar for teachers at Issyk-Kul regional center of children and teenagers creativity. The seminar had the motto “Caring for all life under the Sun” and was devoted to 30<sup>th</sup> anniversary of Montreal Protocol and World Ozone Day 2017. The main topics of the seminar were “Protection of Ozone layer”, “Education for sustainable development”, “Lines of behaviors for the sustainable development”, “Green Package: Glaciers of Central Asia” and “Green Steps: multimedia educational tool”. Teachers participants got teaching books OzonAction Education Pack: A guide for primary school teachers, posters “Lines of behavior for the sustainable development”, “Safety is on the first place”, brochures “Protection from UV radiation” and “The Montreal Protocol and human health”.





NOU together with Issyk-Kul regional center of children and teenagers creativity had organized the competition of the Best Poster, the Best Picture and the Best poem about Ozone Layer Preservation. Pupils from different schools of the Issyk-Kul region took part in the competition, after 20 winners were selected. Winners got different books, t-shirts and caps as a prize.





All 20 pupils listened the lecture about the Ozone Layer depletion and protection from UV radiation, after the lecture pupils played a game “Ozzy Ozone” and attended quizzes, they also attended creative studios, where they painted plaster figurines. At the end of the activities coloring books “In sunny day play, but do not play too much” and table game “Ozzy Ozone” were given to pupils. There were 63 teachers and 20 pupils of the 3<sup>rd</sup>-9<sup>th</sup> grade from all parts of Issyk-Kul region the seminar.



### Conclusion

In general, the activities dedicated to 30<sup>th</sup> anniversary of the Montreal Protocol and the International Day for Preservation of the Ozone Layer were held in a positive way, the participants received key information related to protection from excessive exposure to UV radiation, the handouts also contained basic knowledge on the ozone layer, the Montreal Protocol on Substances that Deplete the Ozone Layer, sustainable development and alternatives to ODS.

In total about 2450 school pupils (including summer camps and secondary schools), 106 schoolteachers, 24 university teachers and 260 students took part in these activities.

These events were described in websites, newspaper and television:

- <http://knau.kg/ru/>
- <http://ekois.net/o-meropriyatiyah-posvyashhennyh-30-letiyu-monreal'skogo-protokola-po-veshhestvam-razrushayushhim-ozonovyj-sloj/>
- <https://bilim.akipress.org/ru/news:1404245>
- <https://news.avtogid.kg/2017/09/20/mezhdunarodnyj-den-zashhity-ozonovogo-sloya/>
- [https://www.facebook.com/pg/RCE-Kyrgyzstan-159843337407406/photos/?ref=page\\_internal](https://www.facebook.com/pg/RCE-Kyrgyzstan-159843337407406/photos/?ref=page_internal)
- <https://www.facebook.com/Государственное-агентство-охраны-окружающей-среды-и-лесного-хозяйства-КР-271979216162577/>
- State official newspaper of the Kyrgyz Republic “Erkin Too”, No. 101(2826), 12<sup>th</sup> of September 2017
- Kyrgyz Television and Radio Company
  - 18.09.2017 “Insanat” programme
  - 16.09.2017 news
  - 19.09.2017 news

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