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SECOND MEETING OF THE CONFERENCE  
OF PARTIES TO THE VIENNA CONVENTION  
FOR PROTECTION OF THE OZONE LAYER

Nairobi, 17-18 June 1991  
Items 4 and 5 of the provisional agenda

REPORT OF THE EXECUTIVE DIRECTOR OF THE UNITED NATIONS  
ENVIRONMENT PROGRAMME (UNEP) TO THE CONFERENCE  
OF THE PARTIES TO THE VIENNA CONVENTION  
AT ITS SECOND MEETING

Addendum

OUTCOME OF MEETINGS THAT BEAR ON THE VIENNA CONVENTION

Report of the Executive Director

1. The present addendum summarizes the outcome of the First Meeting of the Ozone Research Managers, which was held in Geneva from 13 to 15 March 1991, the recommendations of the Bureau of the Vienna Convention for Protection of the Ozone Layer with regard to the outcome of the First Meeting of the Ozone Research Managers, and the recommendation of the Ad Hoc Working Group of Legal Experts on Non-compliance with the Montreal Protocol regarding the proposal to amend Article 9 of the Vienna Convention.

I. THE FIRST MEETING OF THE OZONE RESEARCH MANAGERS  
(Geneva, 13-15 March 1990)

2. The meeting identified several high-priority, broad scientific objectives to guide future work on the ozone layer. These objectives may be summarized as follows:

(a) To characterize the chemical and meteorological conditions leading to stratospheric ozone loss, and to establish the existence (or not) of a threshold chlorine loading for ozone depletion in the Arctic;

(b) To improve the current generation of models of atmospheric chemistry and transport of chemicals;

(c) To improve knowledge of the lower stratosphere and its chemical and dynamic coupling with the upper troposphere;

(d) To delineate the climatology of ultraviolet (UV) radiation to provide a basis for evaluation of biological and human effects of ozone depletion and, consequently, to increase spectral measurements of UV radiation and other atmospheric variables;

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(e) To improve understanding of the effects of UV-B and UV-A radiation on living systems.

3. The Ozone Research Managers identified the following research areas and suggested goals and an approach as to how these goals might be met:

1. Systematic measurements;
2. Polar ozone;
3. Halocarbon lifetimes and degradation products;
4. Trace gas fluxes;
5. Aerosols and heterogenous chemistry;
6. Model development;
7. Climate issues;
8. Impacts.

General recommendations

4. The meeting:

(a) Welcomed the recent increase in co-ordination of research and systematic observations, and recommended that such co-ordination should be expanded in the future;

(b) Encouraged the Parties to the Convention to consider training and technical assistance for developing countries;

(c) Recommended that the World Meteorological Organization should continue to provide guidance and infrastructure for the maintenance and calibration of existing Global Ozone Observing System (GO<sub>3</sub>OS) stations;

(d) Recommended that the Secretariat should continue to collect information, within the framework of the Convention, on national research activities and to distribute the information widely;

(e) Recommended that efforts should be made to improve data-management practices and transfer of information on ozone and precursor gases;

(f) Recommended that emission data on trace gases of anthropogenic origin should be compiled and made available to researchers;

(g) Recommended that funding agencies co-ordinate their actions in order to secure systematic funding for these projects.

5. The Ozone Research Managers considered the formats for reporting of data that were prepared by the Secretariat in accordance with decision 2 of the First Meeting of the Conference of Parties to the Vienna Convention. The meeting of Ozone Research Managers recommended that:

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(a) Parties report production/consumption, as specified under the Montreal Protocol as amended in London;

(b) Parties set up a process, such as the establishment of an expert task group or the naming of a rapporteur, to recommend procedures for estimating emission of Annex I substances in to the atmosphere. Procedures should be favoured which minimize requirements for submission of new data by Parties and which take advantage of emission inventories compiled in connection with climate change studies (e.g. by the Intergovernmental Panel for Climate Change, OECD);

(c) HFCs should be added to the above list from Annex I of the Vienna Convention.

## II. RECOMMENDATIONS OF THE BUREAU WITH REGARD TO THE OUTCOME OF THE FIRST MEETING OF THE OZONE RESEARCH MANAGERS

6. The First Meeting of the Bureau of the Vienna Convention, held in Geneva from 18-19 March 1991, considered the recommendations of the Ozone Research Managers and agreed with them.

7. The Bureau decided to suggest to the Second Meeting of the Conference of the Parties that: (a) More observation and measurements should be undertaken with regard to both ozone levels and levels of ultraviolet radiation and (b) financing should be considered for the establishment of 12-15 GO<sub>3</sub>OS stations, estimated to cost \$5 million.

8. The Bureau also suggested that in the next biennial budget proposal, funds for regional and/or global meetings for research and systematic observations should be explicitly provided and funds for the participation of developing countries at these meetings should also be included.

## III. RECOMMENDATION OF THE AD HOC WORKING GROUP OF LEGAL EXPERTS ON NON-COMPLIANCE WITH THE MONTREAL PROTOCOL

9. In accordance with the suggestion of the Bureau of the Conference of the Parties to the Montreal Protocol and the Bureau of the Second Meeting of the Parties to the Montreal Protocol, the Ad Hoc Working Group of Experts on Non-compliance with the Montreal Protocol (Geneva, 8-10 April 1991) was requested to consider the issue of amending Article 9 of the Vienna Convention.

10. In light of the Working Group's heavy agenda for its three-day meeting and the fact that no documents had been received by the Working Group relating to this request, the Working Group decided that the issue would not be discussed at that meeting. The Working Group expressed its readiness to tackle this problem at its next meeting, if so requested by the meetings of the Parties to the Vienna Convention and the Montreal Protocol. The Working Group has also requested the Secretariat to prepare a note outlining the problem that led to the adoption of decision II/16 by the Second Meeting of the Parties to the Montreal Protocol.

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