

**No. 18881**

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**UNITED STATES OF AMERICA  
and  
CANADA**

**Memorandum of Understanding on co-operation in a 1979  
High Plains co-operative experiment in weather  
modification. Signed at Ottawa on 11 June 1979 and at  
Washington on 20 June 1979**

*Authentic text: English.*

*Registered by the United States of America on 30 May 1980.*

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**ÉTATS-UNIS D'AMÉRIQUE  
et  
CANADA**

**Mémorandum d'accord relatif à la collaboration dans le  
cadre du projet expérimental de coopération de 1979  
dans la région des Hautes Plaines. Signé à Ottawa le  
11 juin 1979 et à Washington le 20 juin 1979**

*Texte authentique : anglais.*

*Enregistré par les États-Unis d'Amérique le 30 mai 1980.*

## MEMORANDUM OF UNDERSTANDING<sup>1</sup> BETWEEN THE BUREAU OF RECLAMATION OF THE UNITED STATES OF AMERICA, THE ATMOSPHERIC ENVIRONMENT SERVICE AND THE NATIONAL RESEARCH COUNCIL OF CANADA ON COOPERATION IN THE 1979 HIGH PLAINS COOPERATIVE EXPERIMENT

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The Bureau of Reclamation (BOR) of the United States Department of the Interior, the Atmospheric Environment Service (AES) and the National Research Council (NRC) of Canada affirm their mutual desire to cooperate in the field of weather modification research consistent with the spirit and applicable provisions of the Agreement between the United States of America and Canada relating to the Exchange of Information on Weather Modification Activities, signed March 26, 1975.<sup>2</sup>

Accordingly, AES, NRC and BOR agree that such cooperation will continue with Canadian participation in the 1979 High Plains cooperative experiment (HIPLEX) conducted by BOR.

1. The objective of this cooperative research is to study methods of increasing rainfall on the High Plains. The experiment and measurements will take place in the vicinity of Miles City, Montana.

2. In conducting the 1979 HIPLEX, BOR will use its best efforts to carry out the following responsibilities:

- (a) Involve AES and NRC in the research planning and data analysis for the 1979 HIPLEX;
- (b) Provide Canadian scientists with Montana HIPLEX data stored in the project data bank on a request basis;
- (c) Act as a liaison between Canadian scientists and the BOR contractors;
- (d) Provide office and, subject to availability, aircraft hangar facilities for Canadian personnel stationed in Miles City during the field programme.

3. In participating in the 1979 HIPLEX, AES and NRC will use their best efforts to carry out the following responsibilities:

- (a) Provide an NAE Twin Otter (CF-POK-X) equipped to make microphysical and dynamical measurements for cloud physics/weather modification research; the aircraft would be stationed in Miles City, Montana, for four weeks in June/July 1979;
- (b) Provide a ground based minicomputer system in Miles City, Montana, for the field period; this system would enable preliminary analysis and equipment checks to be performed;
- (c) Provide approximately five professional (scientific) and six technical personnel to direct the Canadian research component, operate equipment, and analyze data while the Twin Otter is stationed in Miles City;

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<sup>1</sup> Came into force on 20 June 1979 by signature, in accordance with paragraph 10.

<sup>2</sup> United Nations, *Treaty Series*, vol. 977, p. 385.

- (d) Provide a preliminary report summarizing the Twin Otter data within three months of the completion of the field project and a detailed scientific analysis report within 18 months;
- (e) Organize and host a workshop during the 1979/80 winter to discuss and analyze results of the programme;
- (f) Provide data inventory information on data collected by the Canadian aircraft to the Bureau of Reclamation within 30 days following the end of the field season; provide, where possible, a copy of the final archived data, on 9-track magnetic tape in coded format with full documentation to the Bureau within 60 days following the end of the field season.
4. AES/NRC and BOR will use their best efforts to arrange free customs clearance for equipment required in this project, subject to the laws and regulations in force in their respective countries.
5. AES/NRC and BOR will cover the cost of their respective responsibilities including salaries, transportation of equipment and personnel travel. It is not envisaged that funds will be exchanged between the United States and Canadian sides.
6. Results of experimentation in this project will be made available in general through publication in appropriate journals or other established channels.
7. Each agency may release public information regarding its own portion of the project. With regard to portions of the project involving the other agencies, public information may be released only after suitable coordination amongst the agencies. Where possible, such releases will be exchanged prior to publication. It is understood that AES, NRC and BOR will each have the right to use, disclose or duplicate such releases for their own purposes.
8. It is understood that the ability of AES, NRC and BOR to carry out their responsibilities pursuant to this Memorandum is subject to the availability of appropriated funds.
9. The United States and Canadian sides will each designate an official who will coordinate participation in the 1979 HIPLEX.
10. This Memorandum will enter into force upon signature.

Signed at Wash., D.C., on June 20, 1979, in two copies, for the Bureau of Reclamation of the United States Department of the Interior:

*Signature:* [Signed]

*Name:* R. KEITH HIGGINSON

*Title:* Commissioner of Reclamation

*Date:* June 20, 1979

Signed at Ottawa on June 11, 1979, in two copies, for the Atmospheric Environment Service and the National Research Council of Canada:

*Signature:* [Signed]

*Name:* A. E. COLLIN

*Title:* Assistant Deputy Minister

*Date:* June 11, 1979

For the National Research Council:

*Signature:* [Signed—Signé]<sup>1</sup>

<sup>1</sup> Signed by F. R. Thurston—Signé par F. R. Thurston.