

No. 16816

**UNITED STATES OF AMERICA
and
ICELAND**

**Memorandum of cooperative mapping arrangements (with
annex). Signed at Washington on 10 November 1976**

Authentic text: English.

Registered by the United States of America on 10 July 1978.

**ÉTATS-UNIS D'AMÉRIQUE
et
ISLANDE**

**Mémorandum d'accord pour l'établissement en commun de
relevés cartographiques (avec annexe). Signé à
Washington le 10 novembre 1976**

Texte authentique : anglais.

Enregistré par les États-Unis d'Amérique le 10 juillet 1978.

MEMORANDUM¹ OF COOPERATIVE MAPPING ARRANGEMENTS BETWEEN THE DEFENSE MAPPING AGENCY AND LAND- MAELINGAR ÍSLANDS (ICELAND GEODETIC SURVEY)

I. PURPOSE

The purpose of this arrangement is to provide for joint collaboration and the coordination of effort between Landmaelingar Íslands (hereinafter indicated as the Iceland Geodetic Survey) (IGS) and the Defense Mapping Agency (DMA) in the production and maintenance of topographic mapping of Iceland.

II. OBJECTIVE

1. The objective of this arrangement is to produce large scale topographic line map coverage of selected areas and revised medium and large scale topographic line maps of selected areas of Iceland.

2. Specific details covering the materials and services to be furnished by each party to this arrangement will be as stated in Annex A which is made a part hereof.

3. This arrangement is prefaced on the understanding that all plans for accomplishment of this joint program are necessarily subject to the availability of funds and production capacities of the IGS and DMA.

4. All DMA personnel present in Iceland in furtherance of this arrangement will be accorded the rights, privileges and benefits of the Annex on the Status of U.S. Personnel and Property of 8 May 1951.²

III. SCOPE

This arrangement provides for the procurement, as may be required, of aerial cartographic photography for areas of Iceland designated for large scale mapping plus aerial cartographic photography, if deemed necessary, for the revision of 1 : 250,000 scale topographic line maps. It also provides for field survey and field classification or field edit as required for the production of large scale mapping.

IV. THE RESPONSIBILITIES

1. The IGS will be responsible for:

- a. Procuring aerial cartographic photography, as required, for the production of large scale maps and for the revision of medium scale maps;
- b. Recovering or establishing and photo-identifying all basic and supplemental control required for the proper execution of photogrammetric compilation;
- c. Performing field classification surveys or field edits of the compilation manuscripts (or color proofs) to verify map content of all maps to be published;
- d. Maintaining on a continuing basis, the maps produced as a result of this arrangement;
- e. Furnishing or loaning to the DMA the following products or sets of data required to support the joint collaborative mapping efforts of this arrangement:
 - (1) Loan of any original aerial cartographic film negatives acquired by the IGS as a part of this arrangement for duplication by the DMA, for the preparation of appropriate photogrammetric materials;

¹ Came into force on 10 November 1976 by signature.

² United Nations, *Treaty Series*, vol. 205, p. 173.

- (2) One set of photo-identified control;
 - (3) One set of field classification, or field edit data, as appropriate;
 - (4) Appropriate control data (description, position and sketch) annotated on the aerial photography;
 - (5) Printed copies and reproduction material of each map prepared under this arrangement;
- f. Obtaining necessary clearances for entry and exit, free of customs duties, of all supplies and equipment provided by the DMA for the execution of this program.
2. The DMA will be responsible for:
- a. Assisting as may be necessary in procuring aerial cartographic photography for those areas selected for large scale mapping and for the revision of 1 : 250,000 scale maps. Specific financial arrangements will be mutually agreed upon by both parties to this arrangement;
 - b. Producing new 1 : 25,000 and 1 : 50,000 scale maps for the selected areas of Iceland;
 - c. Assisting, as may be necessary, by providing or loaning equipment; providing supplies or materials; and by providing on-the-job-type training to IGS personnel;
 - d. Assisting, as may be necessary, in the reduction of newly established geodetic or mapping control, established by the IGS to support the collaborative mapping program;
 - e. Providing the IGS with:
 - (1) Printed copies and reproduction material of each map prepared by the DMA under this arrangement;
 - (2) Copies of reduced control data prepared by the DMA under this arrangement.

V. RELEASE OF MATERIALS:

The release of materials or any information received through the arrangements that are a part of, or that result from, this memorandum may be restricted. Release of restricted material or information to any third nation or to any non-governmental entity or individual in his private capacity is not authorized without the express written authorization of the agency or government which provided the information and/or of whose territory it concerns. Requesters in these categories will be referred to the responsible producing agency.

VI. SUPERSESIONS

This memorandum supersedes the Cooperative Mapping Arrangement between the U.S. Army Map Service and the Landmaelingar Islands (Icelandic Survey Department), dated 21 January 1959.

[Signed]

BRAGI GUOMUNDSSON
Director
Iceland Geodetic Survey

Signed at Washington, D.C.
Date: 10 November 1976

[Signed]

S. D. CRAMER
Vice Admiral, USN
Director
Defense Mapping Agency

Signed at Washington, D.C.
Date: 10 November 1976

ANNEX A

COOPERATIVE MAPPING ARRANGEMENTS BETWEEN THE DEFENSE MAPPING AGENCY AND
LANDMAELINGAR ÍSLANDS (ICELAND GEODETIC SURVEY)

I. This Annex A comprises the materials and services to be supplied or loaned in implementing the Cooperative Mapping Arrangement and, as such, constitutes a part of this arrangement.

II. As a means of reference, the Annex is subdivided into four categories as follows:

- A. Aerial Cartographic Photography of Iceland
- B. Mapping at 1 : 25,000 and 1 : 50,000 scales
- C. Mapping at 1 : 250,000 scale
- D. Control Data

A. *Aerial Cartographic Photography of Iceland*

1. The IGS will:

- a. Accomplish 6-inch focal length precision aerial cartographic photography of areas of Iceland for which the existing mapping photography is not adequate. The photography will be flown at 15,000-18,000 feet;
- b. Accomplish precision aerial cartographic photography for revision of the existing 11 Series C761 1 : 50,000 scale maps and the existing 1 : 250,000 scale Joint Operations Graphics in areas where the existing mapping photography is out of date;
- c. Furnish on loan to the DMA one (1) set of original negatives of all missions of photography flown. Upon duplication, the original negatives will be returned by the DMA to the IGS. All original films will remain the property of the IGS;
- d. Furnish for retention to the DMA one (1) set of flight line diagrams of all photography flown.

B. *Mapping at 1 : 25,000 and 1 : 50,000 Scales*

Areas to be mapped will be mutually agreed upon.

1. The IGS will be responsible for:

- a. Recovering existing, or establishing all basic and supplemental control required for the proper execution of stereophotogrammetric compilations for 1 : 25,000 and 1 : 50,000 scale maps. Complete plans and specifications for control establishment will be furnished by the DMA;
- b. Identifying all control stations on aerial photographs;
- c. Compiling the control data to include station designation (names and/or number), position (in geographic or grid coordinates), vertical information (including datum designation), description and sketch of each control point;
- d. Performing a field classification survey which requires annotation, on photographs, of features not identifiable by photo interpretation. This would include:
 - (1) Classification of roads and trails;
 - (2) Classification and identification of buildings and structures similar to buildings;
 - (3) Classification and identification of miscellaneous cultural features;
 - (4) Classification of drainage features;
 - (5) Classification and identification of woodland features;
 - (6) Verification and the securing of names data;
- e. Performing a field completion edit of compilation manuscripts. This operation would be performed in lieu of the field classification survey (paragraph *d* above). The procedures for field completion would be essentially the same as required for field classification except that annotations would be added to the compilation manuscript. The performance of

either a field classification survey, or a field completion edit, will be as agreed upon by both parties of this arrangement. Plans and specifications for either operation will be furnished by the DMA.

2. The DMA will:

- a. Furnish complete plans and specifications for control establishment and field classification (or field edit) procedures;
- b. Accomplish stereocompilation or revision drafting and reproduction of 1 : 25,000 and 1 : 50,000 scale topographic maps for areas as mutually agreed upon. The 1 : 50,000 scale maps:
 - (1) Will be on standard 30' EW × 15' NS sheetlines, except where necessary to extend sheetlines to provide for inclusion of coastal land areas;
 - (2) Will be assigned a NATO STANAG-type numbering system (C761);
 - (3) Will contain bilingual marginal data (Icelandic and English);
 - (4) Will be on Hjørsey Datum with Universal Transverse Mercator (UTM) Grid;
 - (5) Will have symbolization of cultural features and names data in accordance with STANAG requirements.
- c. Furnish one (1) set of reproduction material on stable base film, and 500 printed copies of each map published to the Iceland Geodetic Survey.

C. Mapping at 1 : 250,000 Scale

Revision of existing Series 1501 Joint Operations Graphics (JOG) for selected areas of Iceland will be performed as a second priority operation.

1. The Iceland Geodetic Survey will be responsible for accomplishing a field completion edit of all Series 1501 JOG revised by the DMA. Plans and specifications for field completion procedures will be furnished by the DMA. Subsequent maintenance of this series will be the responsibility of the IGS.

2. The DMA will:

- a. Furnish plans and specifications for field completion edit procedures;
- b. Photo revise, draft and reproduce 1 : 250,000 scale maps of Iceland. These 1 : 250,000 maps will be produced in accordance with current specifications and conform to the following:
 - (1) Will be on standard 3° EW × 1° NS sheetlines, except where necessary to extend sheetlines to provide for inclusion of coastal land areas;
 - (2) Will be assigned a NATO STANAG-type series number (1501);
 - (3) Will contain bilingual marginal data (Icelandic and English);
 - (4) Will be on Hjørsey Datum with Universal Transverse Mercator (UTM) Grid;
 - (5) Will have symbolization of cultural features and names data appearing on the map in accordance with STANAG requirements;
- c. Furnish one (1) set of reproduction material on stable base film, and 500 copies of each revised 1 : 250,000 scale map to the Iceland Geodetic Survey.

D. Control Data

The DMA will furnish to the IGS one (1) copy of all reduced control data established as a part of this arrangement.