

UNITED NATIONS ECONOMIC AND SOCIAL COUNCIL



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ECONOMIC COMMISSION FOR AFRICA
Meeting of Experts on Joint Centres
For Specialized Services in Surveying
and Mapping
Addis Ababa. 30 June - 10 July 1965

REPORT OF TECHNICAL COMMITTEE II

SURVEY, COMPUTATION AND MAP-REPRODUCTION

1. The Committee II was instructed to study the problems involved in establishing one (or several) joint centre in spheres related to electronic computation, first order geodesy, checking and calibration and maintenance of equipment, specification and test, multicolour printing, international projects and study and advice.
2. The Committee reached the following conclusions:
 - (a) Electronic computation
 3. An Electronic computation service should be provided with a computer of the type IBM 1620, or ZEUS Z43 or any similar type together with an automatic coordinatograph together with necessary excessories.
 4. When a greater need arises, then a more powerful computer machine, such as IBM 7090 or Bull Gamma M 40 or any similar type together with necessary excessories should be envisaged.
 - (b) First order geodesy
 5. The first order geodetic service should include at least, one triangulation and trilateration section, one base measurement party, one astronomical party, one geodetic levelling party and a gravity measurement party. For each party, one geodetic engineer and two assistant geodetic engineers are required to carry out the work with the understanding that the country which requests the work will be responsible for the normal operation of the mission, transport, camp equipment, operating staff.

6. The basic instruments for this service are given in Appendix 1,^{1/}

(c) Checking, calibration and maintenance of equipment

7. This service will carry out the checking, calibration and maintenance of the equipment of the Centre. It should also perform the service of calibration of instruments for African countries on request.

8. A laboratory for this purpose should be included with the necessary instruments and personnel. The cost of the instruments involved, constitute a very small fraction of the total cost.

9. As Committee I has studied such a service for aerial surveys including specialists in electronics, mechanics and optics, an increase of 2 or 3 technicians would be sufficient to fulfil the need of the whole center.

(d) Specification and test

10. This service will deal with specifications and test of survey work, equipment and material for the center as well as for African countries on request.

11. The service would require test equipment and experienced personnel. The details of the requirement would depend upon the extent of services rendered.

(e) Multicolour Printing

12. At the initial stage the printing service should have a full unit for a lithographic offset printing press with one single colour, machine size 40" x 48" (100 cm x 120 cm), one two-colour machine size 25" x 35" (about 63 cm x 88 cm), and a dark room Camera 40" x 40" (100 cm x 100 cm) together with all the necessary auxiliary equipment and personnel.

13. The preparation of originals and colour separations is the responsibility of the department of the country requesting the service.

^{1/} To appear as document E/CN.14/CART/141/Add.1

(f) International projects (IMW) (Compilation)

14. The service should carry out compilation and colour separation work for sheets of map series for Africa, even if these sheets only cover a group of African countries. The printing will be done by the service mentioned above.

(g) Study and advice

15. The ECA should continue to provide advice and assistance to governments on technical questions of general nature.

16. A study and advice service should be set up to make detailed technical studies of specific projects and to give advice on matters relating to the execution.

DRAFT RECOMMENDATION

17. The Committee proposed the following draft recommendation for adoption by the Meeting.

Considering the magnitude of cartographic work required by African countries and the difficulty in communication and language, the Committee proposes the establishment of 2 joint centres, one of them may be situated in an english speaking country & another in a french speaking country.

Chairman : Mr. Selim Bengachame (Tunisia)
Rapporteur : Mr. Ahmed Amer (U.A.R.)

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