

WORLD METEOROLOGICAL ORGANIZATION

REGIONAL ASSOCIATION I (AFRICA)

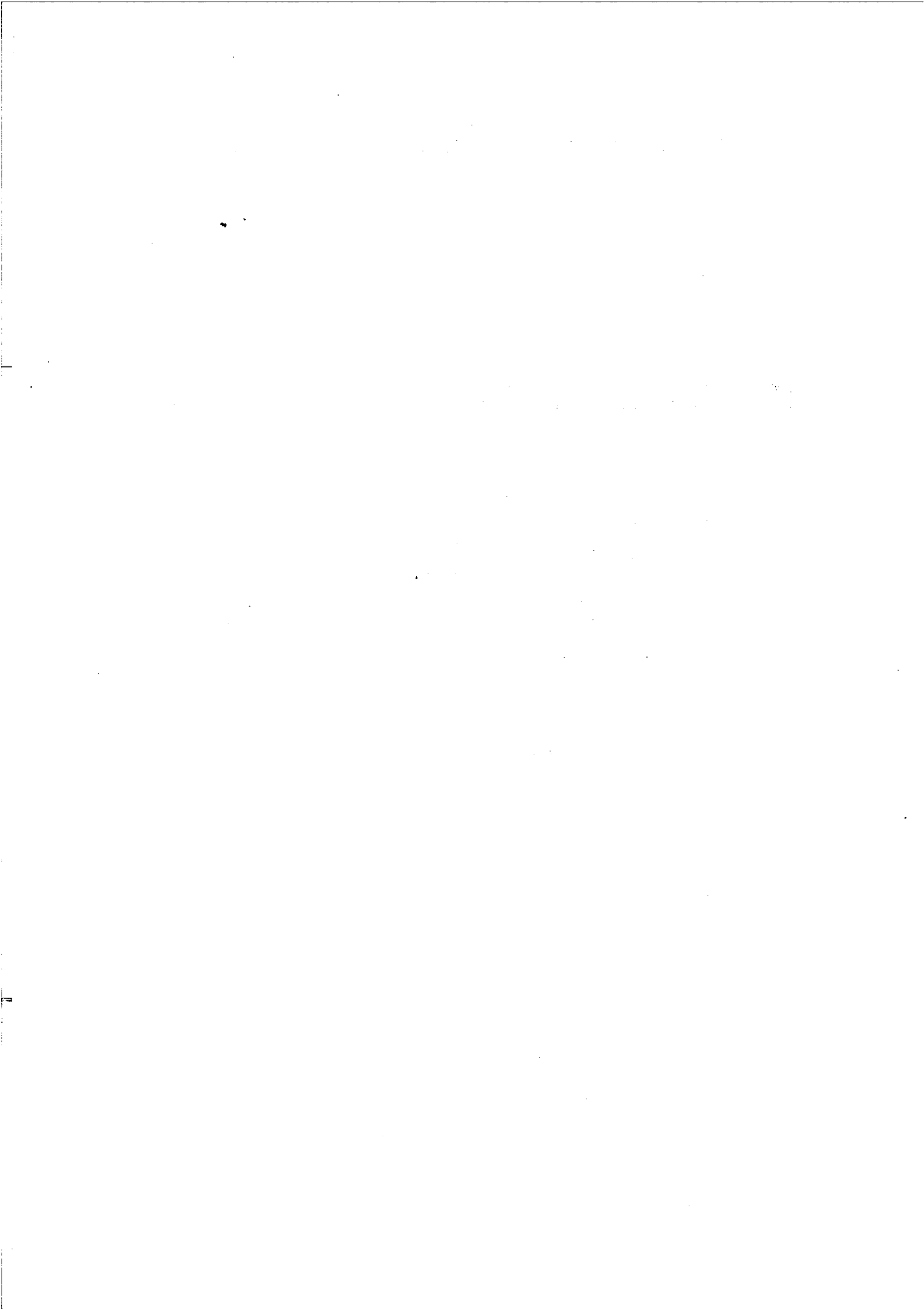
**ABRIDGED FINAL REPORT
OF THE
FOURTH SESSION**

Lagos, 1 - 8 February 1965

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**Secretariat of the World Meteorological Organization - Geneva - Switzerland
1965**



C O N T E N T S

	Page
List of participants present at the session	IV
Agenda.	VII
General summary of the work of the session	1
List of documents	4



LIST OF PARTICIPANTS PRESENT AT THE SESSION

1. Officers of the session

A. Ramanisariyo	president
F.A. Acquaaah	vice-president

2. Members of the Association

Mameri Khalfa	principal delegate	Algeria
M. Nekrouf	delegate	
P. Borgniet	adviser	
A. Theron	adviser	
W. Mandengue Epoy	principal delegate	Cameroon
Ch. Manga Lebe	delegate	
S. Sambe	delegate	
L. Loemba-Maldou	principal delegate	Central African Republic
Many Djamil	principal delegate	Chad
J. Eyamo	principal delegate	Congo, Democratic Republic of
E. Pini	delegate	
H. Singh	adviser	
E. Yabi	principal delegate	Dahomey
K.B. Ahiha	delegate	
G.C. Gad	principal delegate	Ethiopia
B. Sabera	delegate	
A. Perlat	principal delegate	France
P. Picq	delegate	
R. Trendel	delegate	
Miss M.A. Martin-Sané	adviser	
G. Hetier	principal delegate	French Somaliland
J.P. Antchoue	principal delegate	Gabon
J. Reynes	delegate	
F.A. Acquaaah	principal delegate	Ghana
S.P.Y. Akofur	delegate	
J.A. Sam	delegate	
J. Djigbenou	principal delegate	Ivory Coast
B.W. Thompson	principal delegate	Kenya
J. Agin	adviser	
A. Ramanisariyo	principal delegate	Madagascar
E. Rakotoasitera	alternate	
M. Traore	principal delegate	Mali
B.M. Padya	principal delegate	Mauritius
A. Sene	principal delegate	Mauritania

LIST OF PARTICIPANTS

V

B. Abdou	principal delegate	Niger
Z. Harouna	delegate	
N.A. Akingbehin	principal delegate	Nigeria
C.A. Abayomi	delegate	
J. Babalola	delegate	
G. Ewulu	delegate	
P.O. Fagbeyiro	delegate	
L. Harriman	delegate	
S.H.O. Ibe	delegate	
G.O.P. Obasi	delegate	
A.S.O. Okwu	delegate	
A.O.J. Shogaolu	delegate	
J.B. Smith	delegate	
M. Niyibaho	principal delegate	Rwanda
M. Seck	principal delegate	Senegal
G. Allorent	delegate	
R. Franco	principal delegate	Spain
J.K. Aparicio	adviser	
A.A. Black	principal delegate	Southern Rhodesia
J.D. Reavill	adviser	
A.A. Saeed	principal delegate	Sudan
E.G. Toto	delegate	
U.B. Lifiga	principal delegate	Tanzania, United Republic of
M. Ayadi	principal delegate	Tunisia
H.W. Sansom	principal delegate	Uganda
S.A.M. Hassanein	principal delegate	United Arab Republic
K.A.F. Khalil	delegate	
A. Kabre	principal delegate	Upper Volta
S. Drabo	delegate	
3. <u>Other Members of WMO</u>		
M. Gilead	observer	Israel
Y. Shavit	observer	
U. Luccardi	observer	Italy
J.H. Ginter	observer	Switzerland
R. Schneider	observer	
A.G. Leonov	observer	Union of Soviet Socialist Republics
R.V. Melnikov	observer	
G.J. Day	observer	United Kingdom of Great Britain and Northern Ireland
G.D. Cartwright	observer	United States of America
4. <u>Non-Member countries</u>		
W.B. Phillips	observer	Liberia

5. International organizations

H.E. Caustin	observer	United Nations
O. Svennevik	observer	
B.L. Bedel	observer	International Civil Aviation Organization
L.F. Thomen	observer	World Health Organization
N.A. Akingbehin	observer	International Council of Scientific Unions
E. Chambers	observer	International Air Transport Asso- ciation
D. Huften	observer	
J. Bartlam	observer	International Federation of Air Line Pilots Associations
J. Bonar	observer	
R. Hrycak	observer	
L. Jaffe	observer	

6. Other organizations

H.W. Sansom	observer	Desert Locust Control Organization of East Africa
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7. WMO Secretariat

D.A. Davies	Secretary-General
N. Veranneman	Representative of the Secretary-General
H. Sebastian	Chief, Technical Co-operation Division
A.M. Elamly	Technical officer
R.L. Munteanu	Conference and documents officer

A G E N D A

<u>Agenda</u> <u>item</u> <u>No.</u>	<u>Relevant</u> <u>documents</u>
1. <u>Opening of the session</u>	
2. <u>Organization of the session</u>	
2.1 Consideration of the report on credentials	
2.2 Adoption of the agenda	1, Rev.1, Add. 1; 2, Rev. 1, Corr.1, Add.1
2.3 Establishment of committees	
3. <u>Report by the president of the Association</u>	
4. <u>Statement of requirements of Meteorological Services of RA I regarding basic meteorological information from inside and outside the Region</u>	13; 20; 47, Corr. 1
5. <u>Networks of observing stations</u>	
5.1 Planning of basic synoptic network of surface and upper-air observing stations	9; 20
6. <u>Telecommunications</u>	
6.1 Report by the chairman of the Working Group on Meteorological Telecommunications	12
6.2 Regional distribution of meteorological information obtained by satellites	14
6.3 Telecommunication arrangements for the collection, exchange and dissemination of basic meteorological data in Africa and with the neighbouring countries	19; 20; 31
7. <u>Regional aspects of the World Weather Watch</u>	32
8. <u>Hydrometeorology</u>	32; 48
8.1 Report by the chairman of the Working Group on Hydrometeorology	
8.2 Regional aspects of the International Hydrological Decade	29
8.3 Training in hydrometeorology	
9. <u>Training of meteorological personnel</u>	6; 11; 15; 20; 37; 40; 41; 46; 49

<u>Agenda</u> <u>item</u> <u>No.</u>		<u>Relevant</u> <u>documents</u>
10.	<u>Technical co-operation</u>	26
10.1	Regional technical assistance projects	5
10.2	Technical conference on meteorological telecommu- nications in Africa	3
11.	<u>Other questions</u>	
11.1	Codes - Report by the chairman of the Working Group on Codes	4; 33; 44
11.2	Additional observations - Air-reports, mobile ship stations, radar, automatic weather stations, buoys, atmospherics, ocean weather stations, transosonde, ozone	20; 24; 28; 34
11.3	Barometry - Comparison of barometers and pressure reduction methods	23
11.4	Master analyses - Review of existing scheme	10, Corr. 1
11.5	Maritime meteorology	20
11.5.1	Report by the chairman of the Working Group on Tidal Waves Investigations and Warnings	
11.5.2	Regional aspects of maritime meteorology	22
11.6	Climatology	
11.6.1	Climatological reference stations, network of CLIMAT and CLIMAT TEMP stations	7
11.6.2	Regional climatic atlas	8; 35
11.7	Agricultural meteorology - Report of the chairman of the Working Group on Agricultural Meteorology	27; 30; 48
11.8	Arid zone - Report by the chairman of the Working Group on Arid Zone Problems	17
11.9	Radiation - Report by the chairman of the Working Group on Radiation	16; 39
11.10	International Co-operation Year programme for meteorology in Africa, including research institutes for tropical meteorology	16; 18; 21; 45
11.11	Meteorological assistance for air navigation	20; 21; 33
12.	<u>Review of the resolutions and recommendations</u> <u>adopted before the fourth session of RA I including</u> <u>resolutions of the Executive Committee relating</u> <u>to RA I</u>	43
13.	<u>Location of the office of the WMO Regional Represent-</u> <u>ative for Africa</u>	25; 38

<u>Agenda</u> <u>item</u> <u>No.</u>	<u>Relevant</u> <u>documents</u>
14.	<u>Preparation of a co-ordinated programme for the introduction of recommended facilities and procedures</u>
15.	<u>Election of officers</u>
16.	<u>Date and place of the fifth session</u>
17.	<u>Closure of the session</u>

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GENERAL SUMMARY OF THE WORK OF THE SESSION

DATE AND PLACE OF THE SESSION

The fourth session of Regional Association I was held at the National Hall, Lagos, Nigeria, from 1 to 8 February 1965. There were four plenary meetings.

1. OPENING OF THE SESSION (Agenda item 1)

The session was opened at 10.30 a.m. on 1 February 1965. Mr. N.A. Akingbehin, Permanent Representative of Nigeria with the World Meteorological Organization, and the Honourable Alhaji Waziri Ibrahim, Minister of Economic Development and Education, delivered the welcoming addresses inaugurating the session. Mr. D.A. Davies, Secretary-General of the World Meteorological Organization, then spoke. Mr. A. Ramanisarivo, president of Regional Association I, replied to the previous speakers and in particular thanked the Nigerian Government for its generous welcome.

2. ORGANIZATION OF THE SESSION (Agenda item 2)

2.1 Consideration of the report on credentials (Agenda item 2.1)

2.1.1 The list of delegates and observers present, whose credentials as received were found in order, was read out at the second plenary meeting. Authentic credentials were received for all delegations and all observers; in the absence of any objection it was decided that, in accordance with the provisions of the WMO General Regulations, that list would constitute the report on the examination of credentials. Accordingly, no credentials committee was set up.

2.1.2 The session was attended by delegates and observers from the following countries and organizations :

Members of the Association

Algeria
Cameroon
Central African Republic
Chad
Congo, Democratic Republic of
Dahomey
Ethiopia
France
French Somaliland
Gabon
Ghana
Ivory Coast
Kenya
Madagascar

Mali
Mauritania
Mauritius
Niger
Nigeria
Rwanda
Senegal
Southern Rhodesia
Spain
Sudan
Tanzania, United Republic of
Tunisia
Uganda
United Arab Republic
Upper Volta

Other Members of WMO

Israel
Italy

Other Members of WMO (continued)

Switzerland
 Union of Soviet Socialist Republics
 United Kingdom of Great Britain and Northern Ireland
 United States of America

Non-Members of WMO

Liberia

International organizations

United Nations
 International Civil Aviation Organization
 World Health Organization
 International Council of Scientific Unions
 International Air Transport Association
 International Federation of Air Line Pilots Associations

Other organizations

Desert Locust Control Organization of East Africa

2.2 Adoption of the agenda (Agenda item 2.2)

The Association unanimously adopted the provisional agenda for the session with two additional items - 8.3 : Training in hydrometeorology, and 14 : Preparation of a co-ordinated programme for the introduction of recommended facilities and procedures. The original items 14, 15 and 16 were renumbered 15, 16 and 17 respectively. The final agenda is given at the beginning of this report.

2.3 Establishment of committees (Agenda item 2.3)

The Association established a Co-ordination Committee and three working committees with a drafting committee for each and a working group on Agenda item 4.

- (a) Committee A under the chairmanship of Mr. F.A. Acquah was entrusted with the consideration of items 7, 8, 11.1, 11.6, 11.7, 11.8, 11.9, 11.10, and 14, and their subdivisions.
- (b) Committee B under the chairmanship of Mr. M. Seck and the vice-chairmanship of Mr. Leomba-Maidou was entrusted with the consideration of items 5, 6, 11.2, 11.3, 11.4, 11.5, 11.11 and 14, and their subdivisions.
- (c) Committee C under the chairmanship of Mr. M. Ayadi was entrusted with the consideration of items 9 and 10.

Items 3, 4, 12, 13, 15, 16 and 17 were allocated to be discussed directly in plenary.

All delegates were entitled to attend meetings of the working committees.

3. REPORT BY THE PRESIDENT OF THE ASSOCIATION (Agenda item 3)

The report of the president was noted with appreciation.

4-16 AGENDA ITEMS 4 TO 16

Owing to the early closure of the session, these items were not discussed.

17. CLOSURE OF THE SESSION (Agenda item 17)

The final meeting took place on 8 February 1965. The Secretary-General read a

statement from the President of WMO referring to certain legal difficulties which had made it necessary for the President of WMO to withdraw his agreement to the session and to decide that the session could not proceed further.

The president of RA I signified his agreement with the decision of the President of WMO and closed the session.

LIST OF DOCUMENTS

Doc. No.	Title	Agenda item
1	Provisional agenda Rev. 1, Add. 1	2.2
1	Final agenda Rev. 2	2.2
2	Explanatory memorandum relating to the provisional agenda Rev. 1, Corr. 1, Add. 1	2.2
3	Technical conference on meteorological telecommunications in Africa	10.2
4	Report by the chairman of the Working Group on Codes	11.1
5	Regional technical assistance projects	10.1
6	Training of meteorological personnel (Implementation of WMO plan for training of meteorological personnel in Africa) Add. 1	9
7	Climatological reference stations, network of CLIMAT and CLIMAT TEMP stations	11.6.1
8	Regional climatic atlases	11.6.2
9	Networks of observing stations	5.1
10	Master analyses - review of existing scheme Corr. 1	11.4
11	Training of meteorological personnel	9
12	Report by the provisional chairman of the Working Group on Meteorological Telecommunications	6.1
13	Statement of requirements of meteorological information from inside and outside the Region	4
14	Regional distribution of meteorological information obtained by satellites	6.2
15	Training of meteorological personnel (Specialized fields of meteorological training)	9

Doc. No.	Title	Agenda item
16	Radiation - Report by the chairman of the Working Group on Radiation	11.9, 11.10
17	Report of the Working Group on Arid Zone Problems	11.8
18	International Co-operation Year Programme for Meteorology in Africa, including research institutes for tropical meteorology	11.10
19	Telecommunication arrangements for the collection, exchange and dissemination of basic meteorological data in Africa and with neighbouring countries	6.3
20	Meteorological assistance for air navigation	11.11, 4, 5.1, 6.3, 9, 11.2, 11.5
21	International Co-operation Year programme for meteorology in Africa including research institutes for tropical meteorology	11.10
22	Regional aspects of maritime meteorology	11.5.2
23	Barometry - comparison of barometers and pressure reduction methods	11.3
24	Additional observations - radiosondes measuring relative humidity only	11.2
25	Location of the office of the WMO Regional Representative for Africa	13
26	Technical co-operation	10
27	Report of the chairman of the RA I Working Group on Agricultural Meteorology	11.7
28	Additional observations - air reports, mobile ship stations, radar automatic weather stations, buoys, atmospheric, ocean weather stations, transosondes, ozone	11.2
28, App. B		
29	Regional aspects of the International Hydrological Decade	8.2
30	Conclusions of the Regional Seminar on Agrometeorological Problems in Africa	11.7

Doc. No.	Title	Agenda item
31	Telecommunication arrangements for the collection, exchange and dissemination of basic meteorological data in Africa and with neighbouring countries (Deficiencies in the exchange of basic meteorological data) (ICAO)	6.3
32	World Weather Watch	7, 8
33	Meteorological assistance to air navigation	11.11
34	Reporting of ground-based radar (Kenya, Tanzania and Uganda)	11.1, 11.2
35	Regional climatic atlas (Kenya, Tanzania and Uganda)	11.6.2
36	Meteorological information obtained by satellites (Kenya, Tanzania and Uganda)	6.2
37	Seminars on tropical meteorology (Kenya, Tanzania and Uganda)	9
38	Regional representation of the Organization - creation of a WMO Regional Office in Africa (Democratic Republic of the Congo)	13
39	RA I Working Group on Radiation - Report on activity 1962-1963	11.9
40	Training of meteorological personnel (Democratic Republic of the Congo)	9
41	Training of meteorological personnel (Meteorological training facilities at the Nigerian Civil Aviation Training Centre)	9
42	Report of the president, RA I	3
43	Revision of the resolutions and recommendations adopted before the fourth session of RA I	12
44	Codes - SYNOP code - code for precipitation and temperature extremes (Senegal)	11.1
45	International Co-operation Year programme for meteorology in Africa, including research institutes for tropical meteorology (Report, Committee A) Rev. 1	11.10
46	Training of meteorological personnel (Algeria)	9

LIST OF DOCUMENTS

7

Doc. No.	Title	Agenda item
47	Statement of requirements of Meteorological Services of RA I regarding basic information from inside and outside the Region (Report of working group of plenary) Corr.1, Rev. 1; Rev. 1, Add. 1	4
48	Meteorology and economic development in Africa (Morocco)	11.7, 8
49	Training of meteorological personnel (Nigeria)	9

