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30187323

Sub-Saharan Africa Hydrological Assessment - General - Volume 7 - West Africa -
January 1993

R1999-262 Other #: 11

149488B

Sub-Saharan Africa
Hydrological Assessment

General File VII
2 West Africa

Jan. 93 -

The World Bank/IFC/MIGA
O F F I C E M E M O R A N D U M

DATE: November 29, 1993 03:35pm

TO: Guy Le Moigne

(GUY LE MOIGNE)

FROM: Bocar Madani Thiam, AFTPS

(BOCAR MADANI THIAM)

EXT.: 34284

SUBJECT: SSA Hydrological Assessment.

FYI. Before going to the meeting proposed by J. Doyen I would like to know more about the project. You have been working on this project for several years and I would like to familiarize myself with the project with your help. Please let me know when a meeting would be possible. Thanks in advance.

CC: Akhtar Elahi

(AKHTAR ELAHI)

CC: Geoffrey Matthews

(GEOFFREY MATTHEWS)

CC: Mei Xie

(MEI XIE)

A L L - I N - 1 N O T E

DATE: 12-Nov-1993 09:58am EST

TO: See Distribution Below

FROM: Jean Doyen, AFTES

(JEAN DOYEN)

EXT.: 34760

SUBJECT: SSA Hydrological Survey

Michel Wormser agrees with the general approach indicated in my EM of November 9. We agreed that I would organize a meeting upon the return of Bocar Thiam, i.e. after November 25th.

I propose that we plan to meet December 2, at 2:00 pm. to review the option . This will give us time to consult with Bocar upon his return. An agenda and the venue will be circulated later.

I sent separately copies of the letters from Mr. Obassi (WMO) dated October 6, 1993 and the response from Mr. Preston dated October 27, 1993.

DISTRIBUTION:

TO: Bocar Madani Thiam
TO: Narendra Sharma
TO: Salah Darghouth
TO: Stephen Weissman
TO: Phyllis Pomerantz
CC: Kevin M. Cleaver
CC: Letitia Obeng
CC: Snorri Hallgrimsson

(BOCAR MADANI THIAM)
(NARENDRA SHARMA)
(SALAH DARGHOUTH)
(STEPHEN WEISSMAN)
(PHYLLIS POMERANTZ)
(KEVIN M. CLEAVER)
(LETITIA OBENG)
(SNORRI HALLGRIMSSON)

Session terminated -
Disconnecting from switch

A L L - I N - 1 N O T E

DATE: 09-Nov-1993 11:36am EST

TO: Michel Wormser

(MICHEL WORMSER)

FROM: Jean Doyen, AFTES

(JEAN DOYEN)

EXT.: 34760

SUBJECT: SSA Hydrological Survey--Transfer to Africa Region

1. The proposal to put Bocar in charge is logical. AFTES would support the program through Mr. Damhaug the Water Resource Specialist seconded by Norway scheduled to join AFTES in January 1994.

2. The SSAHS should remain under the oversight of the WRMTT which has established a good record. The SSAHS would be on of the task overseen and coordinated by the WRMTT. The Water Resource Management strategy is another one for which Narendra Sharma is the TM.

3. I believe that we ought to assess very carefully the resource requirements. The SSAHS program includes a number of components : (i) promotion, support and coordination of country-based capacity building programs; (ii) management of regional coordination and related policy and capacity building work; (iii) coordination and oversight of TF for regional components executed by other agencies inter alia WMO. My tendency would be to focus our role on substantive aspects related to the water resource strategy, to capacity-building and to country-based actions. The management of TF resource to support the work of other agencies should be approached with caution with a clear sense of the rationale for our involvement.

4. I also believe that it would be important to review the governance of the program and make sure that African stakeholders including in AfDB are effectively involved.

5. Finally, we should ensure the continuous involvement of Guy Lemoigne possibly as part of ESD own work program as it has been the case so far.

6. When the time comes for the hand-over the resource remaining in the TF established to support the effort should be audited and then transferred.

Next Step.

7. I propose that Narendra and Bocar review the point raised above with Guy and organize a meeting of the WRMTT to review the best course of action. SOD Division handling

water management issues would be invited.

CC: Victoria B. Sancea	(VICTORIA B. SANCEA)
CC: Kevin M. Cleaver	(KEVIN M. CLEAVER)
CC: Bocar Madani Thiam	(BOCAR MADANI THIAM)
CC: Narendra Sharma	(NARENDRA SHARMA)
CC: Adrian Otten	(ADRIAN OTTEN)
CC: Salah Darghouth	(SALAH DARGHOUTH)
CC: Sushma Ganguly	(SUSHMA GANGULY)
CC: Stephen Weissman	(STEPHEN WEISSMAN)
CC: Phyllis Pomerantz	(PHYLLIS POMERANTZ)

A L L - I N - 1 N O T E

DATE: 08-Nov-1993 03:30pm EST

TO: See Distribution Below

FROM: Kevin M. Cleaver, AFTDR

(KEVIN M. CLEAVER)

EXT.: 34595

SUBJECT: SSA Hydrological Assessment

Mr. David Steeds has proposed that we take over the above program, which is well advanced (see attached). He specifically suggests that Bocar Thiam become Task manager. This is an immense task involving several CDs. Could all of you discuss, and propose to me, how you intend to manage this program?

DISTRIBUTION:

TO: Bocar Madani Thiam
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TO: W. Graeme Donovan
TO: Adrian Otten
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TO: Sushma Ganguly
TO: Nils Tcheyan
TO: John Joyce
TO: Chaim Helman
TO: Harry Walters
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TO: Jean Doyen
TO: Narendra Sharma
TO: Adrian Otten
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(JEAN DOYEN)
(NARENDRA SHARMA)
(ADRIAN OTTEN)
(PETER PEE)
(EDELTRAUT GILGAN-HUNT)
(W. GRAEME DONOVAN)

A L L - I N - 1 N O T E

DATE: 04-Nov-1993 12:49pm EST

TO: Kevin M. Cleaver

(KEVIN M. CLEAVER)

FROM: David Steeds, AGRNR

(DAVID STEEDS)

EXT.: 38711

SUBJECT: SSA Hydro

Kevin,

Attached is a "progress report" from Geoff. I'll send the brochure mentioned at (ii), (a) by hard copy; this will provide Bocar with a complete view of what has been done.

The next steps, for which we need forceful leadership from Africa Region (ideally Bocar), are (a) convening the donors meeting on the SADCC project and (b) convincing the operations divisions (which could be agric or infra) to pick up the country-specific project proposals. None of the latter are more than \$3M, so they would either be piggy-backed on to our own projects or "sold" to smaller donors who may be interested in funding small free-standing operations.

David

A L L - I N - 1 N O T E

DATE: 04-Nov-1993 11:16am EST

TO: David Steeds (DAVID STEEDS)

FROM: Geoffrey Matthews, AGRNR (GEOFFREY MATTHEWS)

EXT.: 30354

SUBJECT: Status of Sub-Sahara Africa Hydrological Assessment and HYCOS

Introduction

Forty countries, grouped into five regions, are participating in the SSAHA.

Project output to date

So far the project has produced regional reports for IGADD, SADC, CEPGL and West Africa and, 39 country reports and a series of hydrological and hydrogeological maps. All these reports have been distributed.

Project output to be completed

(i) Country reports for Madagascar and Namibia. In Madagascar the work had to be suspended due to political instability, and must be reinitiated with the new government. Namibia has only just requested to join the project, following independence. Both can be expected to complete their assessments by June 94.

(ii) Other documents

(a) Brochure in French and English. The English version is ready for printing, the French translation has been completed;

(b) Report on Telemetry. Ready for printing in French and English.

(c) The HYCOS Project concept paper prepared by the WMO. To be edited, translated into French and printed.

Followup projects

(i) Hydrological Cycle Observing System (HYCOS)

SADC officially requested Bank assistance to implement this followup project two years ago. The project has now agreed to finance the WMO to prepare a project proposal, and a TOR is under preparation. This TOR will be prepared by the WMO with the

assistance of Lesotho's Director for Water Affairs, who is the head of the SADC HYCOS project preparation team. The objective is to prepare a project proposal which would be appropriate for presentation at a donors meeting. The intention is to complete the project proposal by about March 1994, and hold a donors meeting around June 1994.

(ii) Other followup projects

The assessment has identified and recommended a series of fairly small followup projects of a traditional nature, which could be "piggybacked" on to on-going or foreseen water related projects in SSA. The intention is to package these projects and "sell" them within the Africa Region of the Bank, or to donors. This needs to be carried out between now and June 1994.

Financial Resources

Sufficient UNDP/WB resources remain to complete all outstanding components, including the donor's meeting.



COMMISSION OF THE EUROPEAN COMMUNITIES
DIRECTORATE-GENERAL FOR DEVELOPMENT

VIII

FAX

Date: 4 October 1993

Sender: LIEBAERT André
VIII/E/4
G12-5/044

Telephone: (+32-2)2992753

Fax: (+32-2)2992902

Addressee: Mrs MEI XIE
World Bank - Room N-8005
Washington

Telephone:

Fax:

00/1/202/4772977

Number of pages:

Subject: Subsaharan Africa Hydrological Assessment
West Africa Region

PLEASE NOTE: THIS IS
NOT YOUR FAX NUMBER.
NOTIFY THE SENDER AS TO

YOUR CORRECT LINE

Thank you

Message:

Dear Mrs. Mei Xie,

Thank you for the final country reports on the 22 West-African countries and the regional reports, sent with the letters of 2 March and 16 June 1993 from Mr. Matthews. We would be pleased, if additional reports are available, to receive another copy of the country reports, for the information of our Delegations in these countries. They could be sent directly to the attention of ~~Mr. P. Peligry, Head of Rural Development Division for West and Central Africa - DG VIII/D/5~~.

Best regards,

Sincerely yours,

LIEBAERT André

c.c.: P. Peligry - VIII/D/5

23/09 '93 15:33

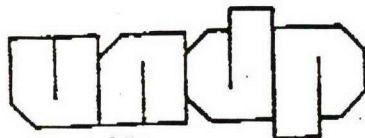
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FAX MESSAGE

PLEASE DELIVER THIS MATERIAL

TO: MS LOUISE LASSEN TECHNICAL ASSIST. OFFICER WORLD BANK WASHINGTON DL	FAX NUMBER: (202) 477-2974 REF: RAF/087/030/GEN
FROM: ASSEFA FRE-HIWET RESIDENT REPRESENTATIVE UNDP, LAGOS	DRAFTER: <i>2ed</i> JBF/SR/lca
DATE: 23 SEPTEMBER 1993	TRANSMISSION REFERENCE NO:
NUMBER OF PAGES INCLUDING THIS SHEET: <i>45</i>	<i>Fax 959</i>

SUBJECT: RAF/087/030 - SUB-SAHARAN AFRICAN HYDROLOGICAL ASSESSMENT
PROJECT - FINAL REGIONAL REPORT

... We have the honour to enclose herewith for your information and necessary action the comments of Government on the Draft Final Report on the above project.

Kind regards.

h. s. Rahman
ASSEFA FRE-HIWET, RES REP
NAME AND TITLE

COMMENTS ON THE REGIONAL REPORT OF DECEMBER, 1992
ON SUB-SAHARAN AFRICA HYDROLOGICAL ASSESSMENT PROGRAMME
(WEST AFRICA) PROJECT NO: RAP/87/030

1. Page 28: Table 2.2 Under existing major schemes in the Niger Basin, TUGAN KANO Dam in Nigeria is not on River Niger. It is on River Ubau Dawaki which flows into River Kaduna. River Kaduna discharges into River Niger at a point upstream Baro telemetric hydro-station of Hydro-Niger Project under the regional Niger Basin Authority.
2. Page 2-17: Table 2.7 - The missing information on the developed area under Yobe Irrigation Development Project in Nigeria in the Lake Chad Basin is 50 ha.
3. Page 2-41: Table 2.9 - The figures under this table of Population Statistics for Nigeria are obsolete. Total population of Nigeria is now 88.5 million and not 117.0 million. (Reference: 1991 Census Figures officially announced in March 1992).
4. Page 4-5: Table 4.2 refers, please. Note that 18 Data Collection Platforms (DCPs) under Hydro-Niger hydrological advanced monitoring system in Nigeria are fitted with Tipping Bucket Rainuage with telemetric transmission facility. They are still functioning from the installation date in 1986 till now.
5. Page 4-6: Table 4.3 - The information hereunder are supplied for filling the missing gaps in the table.

- 3 -

NIGERIA: (Number of Hydro-metric Stations currently operational).

STATION/INSTRUMENT	NUMBER (OPERATIONAL)	REMARK
Solid State Level	1	Two (2) Stations in existence under technical assistance of UNDP Project No. NIR/87/029. One instrument is faulty.
Rated Stations	213	These Stations were adequately rated up to year 1987, but most of them have not been improved since then.
Reservoir Site	3	All the 3 operational dam-sites belonging to NEPA.

6. Page 5-8: Table 5.4 - Information for filling the missing gaps in the table for Nigeria is supplied here-under.

HYDROLOGICAL AREA	SUB-BASIN	SURFACE (RIVER GAUGE)	RIVER DIS- CHARGE STATIONS
EA - 1	Niger-North	32	20
EA - 2	Niger-Central	44	62
EA - 3	Upper - Benue	54	49
EA - 4	Lower - Benue	30	11
EA - 5	Niger - South	16	6
EA - 6	Western-Littoral	32	10
EA - 7	Eastern-Littoral	18	11
EA - 8	Lake Chad	50	44
TOTAL		270	213

7. Page 5-9: Table 5.5 - Information for filling the missing gaps in the appropriate columns for Nigeria is supplied in the table above.

- 4 -

- 3 -

8. Page 5-16: In the Table 3.6 on the Operational Status of Piezometric Network, the poor remark for Nigeria on groundwater monitoring activities and poor co-ordination of data collection under this programme is true.

This is why this aspect of hydrological activities is identified among other projects for assistance in Nigeria in the Country Report. We hope it would be accorded full attention in Nigeria for improved hydrometric data-collection system in the Country. With this in place for Nigeria and other countries that have identified this project for assistance, this would assist in achieving a better result under the regional institutional framework proposed in the Report.

9. Page 5-18: On the Fluvial Sediment yield on paragraph 5.5, Nigeria would want sediment transport in form of suspended or bed-load sampling on a continuous basis for some rivers that are international in nature in the Region and infrastructures for immediate take-off put in place, for immediate action. A well-planned systematic programme of creating awareness on the need to include this important activity in the national hydrological monitoring programme in each of the member-states is pertinent.

THE WORLD BANK/IFC/MIGA

OFFICE MEMORANDUM

DATE: August 19, 1993

TO: David Steeds, Chief, AGRNR

FROM: Mei Xie, AGRNR MX

EXTENSION: 30362

SUBJECT: FY93 Retrospective Review:
Sub-Saharan Africa Hydrological Assessment Program

David,

This is to refer to your EM of August 6, regarding the retrospective review for the sub-Saharan Africa hydrological assessment program. Attached please find a copy of the review, which I drafted following the guidelines provided by Richard Lynn.

cc: Mems/Messrs. Lenore Beacham, Guy le Moigne, Geoffrey Matthews, Akhtar Elahi, Louise Lassen, Beverley McLaughlin

FY93 Retrospective Review: Sub-Saharan Africa Hydrological Assessment Program

The objective of this program was to assist the SSA countries in the improvement or establishment of sound hydrological monitoring systems for the purposes of planning and evaluating water resources development projects, and for global environmental monitoring. The objective remains unchanged. The findings should enable governments, regional agencies, and international and bilateral donors to achieve a higher degree of coordination in the development of Africa water resources.

Program results:

During FY93, the program completed the assessment work for 22 West African countries, which include Burkina Faso, Benin, Cameroon, Central African Republic, Chad, Congo, Cote d'Ivoire, Gabon, Mali, Guinea Bissau, Mauritania, Niger, Senegal, Togo, Guinea, Cape Verde, Equatorial Guinea, Sao Tome and Principe, Ghana, Nigeria, Gambia, and Sierra Leone. This was documented in: (i) the final project reports for each country, (ii) a number of national hydrological maps, and (iii) the regional report for West Africa. For each country, the assessment carried out in-depth inventories and analysis regarding the present status of hydrological and meteorological data collection, processing, and dissemination; identification of important gaps in the functioning of hydrological institutions; and recommendations on priority projects. These activities were undertaken in the context of existing national water resources development plans in the countries concerned, and in close collaboration with host country officials and experts. Regional assessments highlighted the common themes found in the country assessments, with a special focus on the regional and cross-national aspects of river basin planning. A Project Brochure is under preparation, which summarizes the major findings and conclusions, and identifies follow-up activities of the program.

Program direction and priorities:

The implementation generally followed the terms of reference, which were prepared at the beginning of the program. There was no change in program strategies. No new component was added, and no portion of existing program was terminated.

Operational and administrative issues:

Two workshops were held for the anglophone and francophone countries respectively to discuss the findings of the program and recommend follow-up action. Donors representatives also attended the workshops. No particular issues were raised by donors or beneficiaries regarding program results and priorities. No new donor was added, and nor did the contributions from original donors change (the current donors are UNDP, ADB, French Government, EEC and the World Bank). The contribution from the Bank special grant fund was US\$250,000.

Namibia did not participate in the program due to the country's civil war occurring in the beginning of the program. Recently, the government expressed interest in joining the assessment effort. But, there are still questions such as how to proceed with Namibia while assessment in other countries of the region has been completed, funding requirements and arrangements, and implementing agencies. These are under consideration by the Bank and the regional organization (SADCC).

Program evaluation:

The program generally accomplished its objectives. The implementation was on schedule. The results of the program were discussed and distributed in a number of forms, such as (i) the project steering committee meeting; (ii) two workshops held in Africa with representatives from participating countries and donors; (iii) a Bank seminar with staff from Africa and other Regions and representatives from UN agencies. The feedbacks from the discussions showed that both the participating countries and donors were satisfied with the progress and results of the program. There is a strong consensus on the urgent need for improving the deteriorating situation of hydrological services in the sub-Saharan Africa. The assessment identified a number of project proposals at both national and regional levels. One of the proposals recommended was the launching of an Africa Hydrological Cycle Observing System (HYCOS), currently under active preparation. Continuing grant support will enable: i) the completion of the Assessment in Madagascar; and ii) completion of the preparation of the HYCOS program and other selected recommendations which will benefit all of Africa.

mai Xie
FYI
AS

SPECIAL GRANTS FY93 RETROSPECTIVE REVIEW

International Program for Technology Research in Irrigation and Drainage (IPTRID)

1. **Introduction.** In FY93, IPTRID completed nearly three years of its formal operations and, therefore, carried out an internal review including an assessment of the Program's objectives, themes, activities and resource support.
2. **Program Objectives.** The Program's objectives of promoting adaptive technology research and development and providing a forum for collaborative action was found valid given (i) the demand from countries for IPTRID's assistance in R&D related to operational problems such as improved canal regulation, aquatic plant management, and drainage disposal and (ii) the present times of aid scarcity and hence the need for coordinated action on research and dissemination of research results.
3. **Themes.** A sharper thematic focus for irrigation R&D has emerged from IPTRID's work and is presented in IPTRID's theme papers on Modernization of Irrigation Systems, Maintenance, and Environmentally Sustainable Drainage Practices have been published.
4. **Activities.** Initial tasks related to Country Assistance and Networking activities have been completed. These include: (i) Identification of priorities for technology research in six countries and regions: Egypt/Pakistan, Mexico, Morocco, China, India and West Africa. Country/regional reports have been published; (ii) Initiation of follow up work through development of detailed research proposals and financing has started in a few of the countries noted above. Linkages have been developed with Bank and European Community Operations in those countries; (iii) Establishment of a central network service for irrigation and drainage information through a consortium of premier European R&D institutions and the publication of a newsletter called "Grid".
4. **Resource Support.** UNDP, the World Bank, Ford Foundation, the Governments of UK, Germany and Netherlands have provided core contributions of cash and staff. The EC, IFAD and bilateral donors have extended project support. In FY93, cash disbursements were \$ 300 000 and total expenditures came to about \$ 1.2 million, the difference being made up by in kind contributions from donors. IPTRID's assistance contributed to the generation of direct support of about \$ 8 million for R&D projects in developing countries.
5. **The Future.** The program review has been positive about accomplishments and recommends IPTRID's extension through 1995. However, the review identifies the need for a changed strategy for developing R&D projects in countries: to promote the incorporation of R&D as a component of sector and investment programs rather than as independent projects. This change of direction would call for strengthening links with the Operations Departments of donors, in particular the Bank and EC and with other international institutions such as IIMI and ICID. The review would be discussed at IPTRID's Third Consultative Group meeting in the Hague on September 8, 1993.

The World Bank/IFC/MIGA
O F F I C E M E M O R A N D U M

DATE: August 17, 1993 04:42pm

TO: See Distribution Below

FROM: Mei Xie, AGRNR

(MEI XIE)

EXT.: 30362

SUBJECT: Hydrological Assessment: Retrospective Review

I prepared a draft of the FY93 (Special Bank Grants) Retrospective Review on the SSA program. The guidelines for the Review indicate that information on the following four areas should be provided: i) program results; ii) direction and priorities; iii) operational and administrative issues; and iv) evaluation. The deadline for submission by our division is Aug. 20. Please let me know if you have any comments.

FY93 Retrospective Review: Sub-Saharan Africa Hydrological Assessment Program

The objective of this program was to assist the SSA countries in the improvement or establishment of sound hydrological monitoring systems for the purposes of planning and evaluating water resources development projects, and for global environmental monitoring. This objective remains unchanged. The findings should enable governments, regional agencies, and international and bilateral donors to achieve a higher degree of coordination in the development of Africa's water resources.

Program results:

During FY93, the hydrological assessment program for 22 West African countries was completed--Burkina Faso, Benin, Cameroon, Central African Republic, Chad, Congo, Cote d'Ivoire, Gabon, Mali, Guinea Bissau, Mauritania, Niger, Senegal, Togo, Guinea, Cape Verde, Equatorial Guinea, Sao Tome and Principe, Ghana, Nigeria, Gambia, and Sierra Leone. This was documented in: (i) the final project reports for each country, (ii) a number of national hydrological maps, and (iii) the regional report for West Africa. For each country, the assessment carried out in-depth inventories and analysis regarding the present status of hydrological and meteorological data collection, processing, and dissemination; identification of important gaps in the functioning of hydrological institutions; and recommendations on priority projects. These activities were undertaken in the context of existing national water resources development plans in the countries concerned, and in close collaboration with host country officials and experts. Regional assessments highlighted the common themes found in the country assessments, with a special focus on the regional and cross-national aspects of river basin planning. A Project Brochure is under preparation, which summarizes the major findings and conclusions, and identifies follow-up activities of the program.

Program direction and priorities:

Implementation generally followed the terms of reference,

MX
Thank you for sending to me
this Good Memo
Gu
8/28

which were prepared at the beginning of the program. There was no change in program strategies. No new component was added, and no portion of the existing program was terminated.

Operational and administrative issues:

Two workshops were held for the anglophone and francophone countries, respectively, to discuss the findings of the program and recommend follow-up action. External donor representatives also attended the workshops. No particular issues were raised by donors or beneficiaries regarding program results and priorities. No new donor was added, and nor did the contributions from original donors change. The contribution from the Bank special grant fund was US\$250,000.

Namibia did not participate in the program due to the country's civil war that occurred in the beginning of the program. Recently, the government expressed interest in joining the assessment effort. However, some prior issues need to be settled, such as how to initiate work on Namibia while assessments in other countries of the region have been completed, funding requirements and arrangements, and implementing agencies. These are under consideration by the Bank and the relevant regional organization (SADCC).

Program evaluation:

The program has accomplished its objectives. Implementation was on schedule. The results of the program were discussed and disseminated in a number of forms, such as (i) the project steering committee meeting; (ii) two workshops held in Africa with representatives from participating countries and donors; (iii) a Bank seminar with staff from Africa and other Regions and representatives from UN agencies. Feedback from the discussions showed that both the participating countries and donors were satisfied with the progress and results of the program. Strong consensus developed on the urgent need for improving the condition of hydrological services in sub-Saharan Africa. The assessment identified a number of project proposals at both national and regional levels. One of the proposals was the launching of an Africa Hydrological Cycle Observing System (HYCOS), currently under active preparation. Continuing grant support will enable: i) the completion of the Assessment in Madagascar; and ii) completion of the preparation of the HYCOS program and other selected recommendations which will benefit all of Africa.

DISTRIBUTION:

TO: Akhtar Elahi	(AKHTAR ELAHI)
TO: Louise Lassen	(LOUISE LASSEN)
TO: Beverley McLaughlin	(BEVERLEY MCLAUGHLIN)
CC: Geoffrey Matthews	(GEOFFREY MATTHEWS)
CC: Guy Le Moigne	(GUY LE MOIGNE)

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August 10, 1993

Mr. Marku Visapaa
Res. Rep.
UNDP Malabo
Equatorial Guinea
Tel. 240-9-3269
Fax: 871-150-5363 -Ex.102

Dear Mr. Visapaa,

Subject: Sub-Saharan Africa Hydrological Assessment
UNDP Project No. RAF/87/030, West Africa Region

I have pleasure to enclose, for your information, five copies of the final country report on Equatorial Guinea. One copy is for your office use, and the other four are for distribution to the National Hydrological Services and Government officials. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



Mei Xie
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

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August 10, 1993

Mr. Pierre Ly
Res. Rep.
Caixa Postal 62
Praia, Rep. of Cape Verde
Tel. 238-613-919
Fax: 238-614-370

Dear Mr. Ly,

Subject: Sub-Saharan Africa Hydrological Assessment
 UNDP Project No. RAF/87/030, West Africa Region

I have pleasure to enclose, for your information, five copies of the final country report on Cape Verde. One copy is for your office use, and the other four are for distribution to the National Hydrological Services and Government officials. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



Mei Xie
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

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INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

August 10, 1993

Ms. Aissatou Knoe-Diabi
Res. Rep.
Caixa Postal 109
Sao Tome, Sao Tome & Principe
Tel. 239-122-1122
Fax: 871-150-5361

Dear Ms. Knoe-Diabi,

Subject: Sub-Saharan Africa Hydrological Assessment
UNDP Project No. RAF/87/030, West Africa Region

I have pleasure to enclose, for your information, five copies of the final country report on Sao Tome & Principe. One copy is for your office use, and the other four are for distribution to the National Hydrological Services and Government officials. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



Mei Xie
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

A L L - I N - 1 N O T E

DATE: 06-Aug-1993 02:33pm

TO: Ashok Subramanian
TO: Mei Xie

(ASHOK SUBRAMANIAN)
(MEI XIE)

FROM: David Steeds, AGRNR

(DAVID STEEDS)

EXT.: 38711

SUBJECT: Special Grants Retrospective

Ashok and Mei,

You will shortly receive by hard copy the above request. Since the deadline for ESD to PBD is August 27, I request that you give me your drafts by August 20. Keep it simple. What can be said about results? Otherwise we should concentrate on reporting changes.

David .

CC: Geoffrey Matthews

(GEOFFREY MATTHEWS)

The World Bank/IFC/MIGA
O F F I C E M E M O R A N D U M

DATE: July 30, 1993 04:15pm

TO: Geoffrey Matthews
TO: Guy Le Moigne

(GEOFFREY MATTHEWS)
(GUY LE MOIGNE)

FROM: Mei Xie, AGRNR

(MEI XIE)

EXT.: 30362

SUBJECT: Retroactive review: Hydrological assessment

I prepared a short note for the retroactive review of FY93 on the SSAHA program, and I have given the note to Lenore Beacham, who was in charge of putting the package together for the Department. FYI, I am sending you a copy.

Sub-Saharan Africa Hydrological Assessment Program. During FY93, the program completed the assessment work for 22 West African countries. This was documented in the final project reports for each country, a number of national hydrological maps, and the regional report for West Africa. The assessment carried out in-depth inventories and analysis regarding the present status of hydrological and meteorological data collection, processing, and dissemination; identification of important gaps in the functioning of hydrological institutions; and recommendations on priority projects. These activities were undertaken in the context of existing national water resources development plans in the countries concerned, and in close collaboration with host country officials and experts. Two workshops were held for the anglophone and francophone countries respectively to discuss the findings of the program and recommend follow-up actions. The assessment identified a number of project proposals at both national and regional levels to improve the declining hydrological networks in the region. One of follow-up actions recommended was the launching of an Africa Hydrological Cycle Observing System (HYCOS), currently under active preparation.

The disbursement for the project during FY93 totalled \$450,000. The amount of contributions from the Bank special grant fund was \$250,000.

Continuing grant support will enable: i) the completion of the Assessment program in Madagascar--the last region under the SSAHA program; and ii) completion of the preparation of the HYCOS and other selected recommendations which will benefit all of Africa.

CC: David Steeds
CC: Lenore Beacham

(DAVID STEEDS)
(LENORE BEACHAM)

The World Bank
INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
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June 29, 1993

Mr. D Lavanchy
Director
IBG Ltd
P. O. Box
Zurichbergstrasse 20
CH-8028 Zurich
Switzerland

Subject: Regional Reports, Sub-Saharan Africa Hydrological Assessment

Dear Mr. Lavanchy,

This is to refer to your recent letter to Mr. Guy Le Moigne requesting documents on hydrological assessment in sub-Saharan Africa. Mr. Le Moigne is away on mission and I was asked to handle this. Per my recent telephone conversation with Mr. Peter Baur, I have enclosed three copies of the regional reports for the IGADD, SADCC and West Africa regions. The reports are based on assessment of hydrological and meteorological services in African countries, and not on water resources inventory. As I mentioned to Mr. Baur, individual country reports and project maps (hydrological and hydro-geological) are also available in ADB, if you wish to obtain.

With kind regards,

Sincerely yours,



Mei Xie
Agriculture and Natural Resources

FAX MESSAGE**WATER
MANAGEMENT
CONSULTANTS**

To: Barbara Heil, AGRTN, The World Bank
From: Peter Baur, IBG Ltd
Date: 24 June 1993
No: 010-1-202-3340743
Pages: One (including this page)

2/3 WYLE COP. SHREWSBURY
 SHROPSHIRE SY1 1UT ENGLAND

TELEPHONE: +44 (0) 743 231 793
 TELEFAX: +44 (0) 743 232 894
 TELEX: 359101 HERM G

Message:

In reply to your fax of 21 June, the mailing address you require is as follows:

Mr D Lavanchy
 Director
 IBG Ltd
 PO Box
 Zurichberstraße 20
 CH-8028 Zurich
 Switzerland

Regards

Mr. p.
Peter Baur

Selected 10 countries

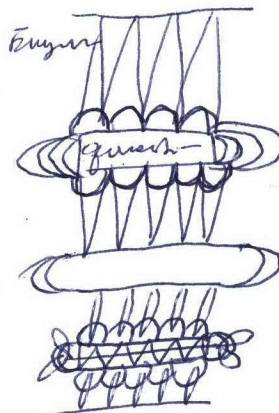
→ IBG

Water Use - Engineer

Geology

question

to
 c...
 Band
 tag



The World Bank
INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

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June 16, 1993

Dr. John Rodda
Director
Department of Hydrology and Water Resources
World Meteorological Organization (WMO)
41 Avenue Giuseppe Motta, Case Postale N.5,
CH 1211 Geneva 20, Switzerland.

Dear Dr. Rodda,

Subject: Sub-Saharan Africa Hydrological Assessment
 UNDP Project No. RAF/87/030, West Africa Region

I have pleasure to enclose, for your information, two copies of the final regional reports (one in English and in French) on West Africa. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



fev Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

The World Bank
INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

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Cable Address: INTBAFRAD
Cable Address: INDEVAS

June 16, 1993

Mr. Anthony K. Edwards
Chief
Natural Resources Branch, UNDTCD
One UN Plaza, NY, NY, 10017

Dear Mr. Edwards,


Subject: Sub-Saharan Africa Hydrological Assessment
UNDP Project No. RAF/87/030, West Africa Region

I have pleasure to enclose, for your information, two copies of the final regional reports (one in English and in French) on West Africa. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



 Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

The World Bank
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Cable Address: INDEVAS

June 16, 1993

Mr. I. B. C. John
Director
NARD, African Development Bank (ADB)
01 Bp 1387 Abidjan 01, Cote d'Ivoire


Dear Dr. John,

Subject: Sub-Saharan Africa Hydrological Assessment
UNDP Project No. RAF/87/030, West Africa Region

I have pleasure to enclose, for your information, two copies of the final regional reports (one in English and in French) on West Africa. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,


for Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

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June 16, 1993

Mr. Andre Liebaert
Direction Generale du Developpement
Commission des Communautés Europeennes (CEE)
200 Rue de la Loi
B-1049, Bruxelles, Belgique

Dear Mr. Liebaert,

Subject: Sub-Saharan Africa Hydrological Assessment
UNDP Project No. RAF/87/030, West Africa Region

I have pleasure to enclose, for your information, two copies of the final regional reports (one in English and in French) on West Africa. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

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June 16, 1993

Mr. Christian Lehembre
RPPAD
Regional Program Division
UNDP, One UN Plaza, NY, NY, 10017

Dear Mr. Lehembre,

Subject: Sub-Saharan Africa Hydrological Assessment
UNDP Project No. RAF/87/030, West Africa Region

I have pleasure to enclose, for your information, two copies of the final regional reports (one in English and in French) on West Africa. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



for Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

The World Bank
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Cable Address: INTBAFRAD
Cable Address: INDEVAS

June 16, 1993

Mr. Pierre Gény
Chef du Bureau Hydraulique
Ministère de la Coopération et du Développement
20, rue Monsieur 75700, Paris, France


Dear Mr. Gény,

Subject: Sub-Saharan Africa Hydrological Assessment
UNDP Project No. RAF/87/030, West Africa Region

I have pleasure to enclose, for your information, two copies of the final regional reports (one in English and in French) on West Africa. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,


for Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

Ms ~~MX~~Mei Please handle
thanks

41511

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Water Specialists WasserfachleuteCH-8028 Zurich/Switzerland P.O. Box
Zurichbergstrasse 20 Tel. 01 252 26 70
Telex 815 288 ibg ch Telefax 252 87 34

Betrifft Reference Objet	Regional Reports Sub-Saharan Water Resources Inventory	Datum Date	27. Mai 1993	FAX
--------------------------------	--	---------------	--------------	------------

An
To AQRDR World BankIhr Gesprächspartner
Your Contact
Votre Correspondant

Mr. D. Lavanchy

zu Hd. von
Attention
A l'Attention de

Mr. Guy Le Moigne

Bade

AUSGANG

2. Juni 1993

Kopie an: Dr

Fax No. 001 202 334-1568

Seitenzahl inkl. Deckblatt
Total Pages including cover sheet
Nb de Pages (Couverture incluse)

1

Regional Reports, Sub-Saharan Water Resources Inventory

Dear Mr. Le Moigne

IBG have been contracted by the African Development Bank to carry out the Bank study of Inland Water Quality and Water Resource Development in Africa. The purpose of the study is to develop policies, strategies and guidelines for the Bank and member governments which will help ensure that inland water resources are developed and managed in a manner which protects the resource and which enables long term environmentally sustainable development.

We are aware that the World Bank and UNDP have recently completed an inventory of the water resources of sub-Saharan Africa. This study is of direct relevance to our work for the African Development Bank and it would be very useful if we could make use of, and add to, some of the findings of the World Bank's inventory.

We would ask if it would be possible for you to send us a copy of any summary reports and maps which cover each of the major African regions.

If you require any further information on our study please do not hesitate to contact me. Thank you in advance for your assistance.

Yours sincerely,

IBG Ltd

D. Lavanchy
Director

* Mr. Bauer called
and that is
not what he wanted.
He would like you to
help him
me
6/18

Water: every drop counts

Water & Sanitation Publications



UNDP-World Bank
Water & Sanitation Program
The World Bank
Washington, DC
February 1993

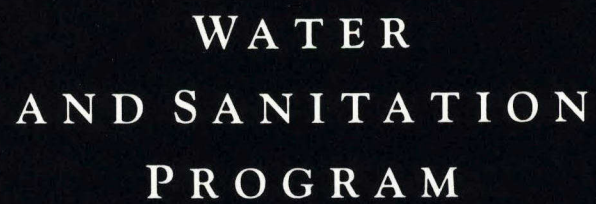


UNDP-World Bank
Water and Sanitation
Program

WORK PROGRAM

Country Work Plans 1992—93







united nations educational, scientific and cultural organization
organisation des nations unies pour l'éducation, la science et la culture

7, place de Fontenoy, 75700 Paris
1, rue Miollis, 75015 Paris

adresse postale : B.P. 3.07 Paris
téléphone : national (1) 45.68.10.00
international + (33.1) 45.68.10.00
télégrammes : Unesco Paris
téléc : 204461 Paris
270602 Paris

référence :

FAX TRANSMISSION

SENT BY
FAX N° :

UNESCO SCIENCE SECTOR
(33.1) 45.66.90.96

TO: Mr Geoffrey Matthews FAX N°19.1-202 334 04 73

ADDRESS: World Bank - Agriculture & Natural Resources Dept.

FROM: Frédérique Willard, UNESCO, IHP

*Mei,
Please see to
this, this,
geoff.*

X

2

FROM: Frédérique Willard, UNESCO, IHP _____

NO. OF PAGES
INCLUDING THIS ONE _____ 1

DATE SENT: 26/05/93

M E S S A G E :

Dear Mr Matthews,

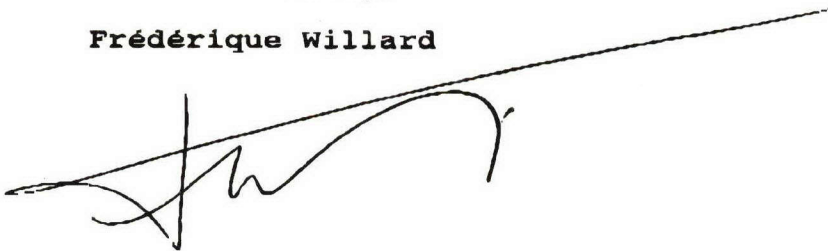
On behalf of Mr Bonell, who you met on April 21st at the World Bank in Paris for the meeting on the Hydrological Assessment of Sub-saharan Africa, I would like to ask you if it would be possible for you to send me a copy of the country report on the hydrological assessment of GHANA.

It would be a great help to our work to read this country report.

Thank you in advance.

Yours sincerely,

Frédérique Willard

A handwritten signature in dark ink, appearing to be 'FW', is written over a long, thin horizontal line that extends from the left margin towards the right.

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*Louise
Lassen*
M...

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Fax 964 1 886 2523

Mr. Denis Benn
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Mr. Makato Hinei
Liaison Officer
Shin Aoyama Bldg., Room 2254,
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Tel. 231 224 416
Fax 874 150 5746

Mr. Salah Bourjini
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Tripoli, Great Socialist
People's Libyan Arab Jamahiriya
Tel.. 218 21 36 297
Fax 218 21 30856

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LT-2000 Vilnius, Lithuania

Mr. Peter Metcalf
Res. Rep.
P.O. Box 1348
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Riyadh 11421, Saudi Arabia
Tel. 966 1 465 1031
Fax 966 1 465 2087

Mr. Dramane Ouattara
Res. Rep.
B.P. 154
Dakar, Senegal
Tel. 221 23 60 12
Fax 221 23 55 00

Mr. Joseph Kotta
Res. Rep.
P.O. Box 1011
Freetown, Sierra Leone
Tel. 232 225346
fax 871 150 5357

Mr. Peter Schumann
Res. Rep.
P.O. box 24
Mogadiscio, Somali Dem Rep
Tel. 252 1 21684-6
Fax 252 1 21684

Mr. Robert England
Res.Rep.
P.O. Box 1505
Colombo, Sri Lanka
Tel. 94 1 583305
Fax 941 581116

Mr. Per Janvid
Res. Rep.
P.O. Box 913
Khartoum, Rep of Sudan
Tel. 249 11 80565
Fax 873 161 0441

Ms. Gary Davis
Res. Rep.
Private Mail Bag
Mbabane, Swaziland
Tel. 268 42305
Fax 268 45341

Mr. Henrik Olesen
Director, UNDP/Geneva
Palais des Nations
CH-1211 Geneva 10
Switzerland
Tel. 41 22 798 6265
Fax 41 22 798 7524

Ms. Brenda McSweeney
Executive Coordinator
UNV Programme
Palais des Nations
Ch-1211 Geneva 10
Switzerland
Tel. 41 22 788 2455
Fax 41 22 788 2501

Mr. Kyaw Lwin Hla
Res. Rep.
P.O. Box 2317
Damascus, Syrian Arab Republic
Tel. 963 11 339 891
Fax 963 11 247764

Mr. Alan Doss
Res. Rep.
G.P.O. Box 618
Bangkok, Thailand
Tel. 66 2 280 0550
Fax 66 2 280 0556

Mr. Bernard Ntegeye
Res. Rep.
B.P. 911
Lome, Togo
Tel. 228 21 20 22
Fax 228 211641

Mr. Farouk Yahya Tarzi
Res. Rep.
P.O. box 812
Port-of-Spain, Trinidad & Tobago
Tel. 809 623 7056
Fax 809 623 1658

Ms. Cecile Molinier
Res. Rep.
B.P. 863
1035 Tunis, Tunisia
Tel. 216 1 264 011
Fax 216 1 560 094

Mr. Edmund Cain
Res. Rep.
P.K. 407
06043 Ulus
Ankara, Turkey
Tel. 90 4 126 81 13
Fax 90 4 126 1372

Mr. Tedla Teshome
Res. Rep.
P.O. 7184
Kampala, Rep. of Uganda
Tel. 256 41 245290
Fax 256 41 244801

Mr. Steven Browne
UNDP Rep.
Karl Liebknecht Str. 32/34
Kiev, Ukraine
tel 7 0442 93 93 63
fax 0 0442 93 2607

Mr. Abdelrahman Abdalla
Res. Rep.
P.O. Box 3490
Abu Dhabi, United Arab Emirates
Tel. 971 2 665 300
Fax 971 2 650818

Mr. Wally N'Dow
Res. Rep.
P.O. Box 9182
Dar-es-Salaam, UR of Tanzania
Tel. 255 51 46716
Fax 255 51 46718

Mr. Paul Van Hanswijck de Jonge
Res. Rep.
Casilla de Correo 1207
Montevideo, Uruguay
Tel. 598 2 921426
Fax 598 2 921610

Mr. Khalid Malik
UN Rep.
c/o Min. of For. Affairs
Tashkent, Rep of Uzbekistan
tel 73712 394200

Ms. Seyril Siegel
Res. Rep.
Apartado 69005
Caracas 1062-A Venezuela
Tel. 58 2 284 7732
Fax 58 2 283 7878

Mr. Roy Morey
Res. Rep. **Hanoi, Vietnam**
c/o UNDP GPO Box 618
Bangkok, Thailand
Tel. 84 42 56188
Fax 84 42 59267

Mr. Costante Muzio
Res. Rep.
P.O. Box 644
11001 Belgrade Yugoslavia
Tel. 38 11 683 666
Fax 38 11 658 395

Mr. Joseph Cavalli
Res.Rep.
B.P. 7248
Kinshasa, Zaire
Tel. 243 12 33431
Fax 871 150-3261

Mr. Onder Yucer
Res. Rep.
P.O. Box 31966
Lusaka, Rep of Zambia
Tel. 260 1 229 287
Fax 260 1 222637

Ms. Thelma Awori
Res. Rep.
P.O. Box 4775
Harare, Zimbabwe
Tel. 263 4 79 26 87
Fax 263 4 728695

March 1993

THE WORLD BANK/IFC/M.I.G.A.

Headquarters: Washington, D.C. 20433 U.S.A.

Tel. No. (202) 477-1234 // Fax Tel. No. (202) 477-6391 // Telex No. RCA 248423
FACSIMILE COVER SHEET AND MESSAGE

Mercedes,
Please copy to
Akhtar Elahi
Sunee Lachan
John, Geoff

DATE: May 10, 1993

NO. OF PAGES: 10
(including this sheet)

MESSAGE NUMBER:

O.K.

TO

Name: Mr. Terry Evans/Ms. Allison Stuck
Organization: Mott MacDonald

Fax Tel. No. 44 223 461007
City: Cambridge
Country: UK

FROM

Name: Geoffrey J. Matthews
Dept./Div. \
Room No. \

Fax Tel. No. 1 202 334 0568
Dept/Div No. \
Tel. No. 1 202 473 0354

SUBJECT: Sub-Saharan Africa Hydrological Assessment - Distribution of Regional Report -
West Africa

MESSAGE:

As discussed during the Sixth Steering Committee Meeting in Paris, herewith instructions for the distribution of the West African Regional Reports.

Please send five (5) copies, in the appropriate language, to the UNDP Resident Representative of each of the participating West African countries, with the exception of Cape Verde, Equatorial Guinea, and Sao Tome & Principe. One copy is for the Resident Representative, the other four are for distribution to the National Hydrological Services and Government officials.

I have attached a complete list of UNDP Res. Rep. addresses.

Please dispatch remaining copies to the Bank in Washington.

We shall send copies to Cape Verde, Equatorial Guinea, and Sao Tome & Principe.

Many thanks,

Regards,

G. Matthews

Geoffrey J. Matthews
Senior Water Resources Engineer

panch

Transmission authorized by: \

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above.

THE WORLD BANK/IFC/M.I.G.A.

Headquarters: Washington, D.C. 20433 U.S.A.

Tel. No. (202) 477-1234 // Fax Tel. No. (202) 477-6391 // Telex No. RCA 248423

FACSIMILE COVER SHEET AND MESSAGE

DATE: May 2, 1993

NO. OF PAGES: 2

MESSAGE NUMBER:

(including this sheet)

TO

Name: Christian Lehembre

Organization: UNDP

Fax Tel. No. 9-1-212-906-5423

City: New York

Country: New York

FROM

Name: Louise Lassen

Dept./Div. AFREA

Room No. J-4-173

Fax Tel. No. (202) 477-2974

Dept/Div No. 238/15

Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - SSA Hydrological Assessment

MESSAGE:

Further to your request during the Paris Steering Committee Meeting, attached is a sample of the letter used by Mott MacDonald to forward project reports through the UNDP field offices.

Best regards.

cc: Messrs./Mesdames Matthews, Elahi, Xie, McLaughlin, Perrot



Transmission authorized by: Louise Lassen, Technical Assistance Officer, AFREA

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above

Mott MacDonald

Our ref: PMC/TEE/AYS/07171/1/C5
Your ref:

Mott MacDonald International
Demeter House, Station Road,
Cambridge CB1 2RS, England

Telephone 0223 460660
Fax 0223 461007
Telex 817260 MMPG

United Nations Development Programme
11 Queens Drive
Ikoyi
POB 2075
Lagos
Nigeria

5 November 1992

For the attention of the Resident Representative

Dear Sir

**Sub-Saharan Africa Hydrological Assessment - West African Countries
(Project Number RAF/87/030)**

The World Bank have asked us to distribute reports for the above project through the local UNDP offices. We enclose 30 copies of the final report and 100 loose maps and would ask you to distribute them to the following persons:

Federal Department of Meteorological Services - Director Adejokun Federal Ministry of Aviation	5 copies
Federal Ministry of Water Resources, Abuja - Director Hanidu For onward distribution	20 copies
National Electric Power Authority - Director	2 copies
UNDP office	3 copies

Please send all the loose maps to Mr Hanidu in Abuja.

We would be grateful if you would notify us when the reports have been distributed. Your assistance in this matter is greatly appreciated.

Yours faithfully
pp Mott MacDonald International

A. Strick

TE Evans

Enc.



Record Removal Notice

File Title Sub-Saharan Africa Hydrological Assessment - General - Volume 7 - West Africa - January 1993		Barcode No. 30187323		
Document Date April 30, 1993	Document Type Letter			
Correspondents / Participants To: Mr. Amadou Diaw, Secrétaire Général, Comité Inter africain d'Etudes Hydrauliques, Burkina Faso From: Louise Lassen, Chargée de Coopération Technique, AFTCB				
Subject / Title Concerne: RAF/87/030-- Evaluation Hydrologique en Afrique Subsaharienne				
Exception(s) Personal Information				
Additional Comments		<p>The item(s) identified above has/have been removed in accordance with The World Bank Policy on Access to Information or other disclosure policies of the World Bank Group.</p> <table border="1"><tr><td>Withdrawn by Shiri Alon</td><td>Date April 21, 2017</td></tr></table>	Withdrawn by Shiri Alon	Date April 21, 2017
Withdrawn by Shiri Alon	Date April 21, 2017			

THE WORLD BANK/IFC/MIGA
OFFICE MEMORANDUM

DATE: April 24, 1992

TO: Mr. Geoffrey Matthews, AGRPS

FROM: Robert Rangeley, Consultant

SUBJ: Sub-Saharan Africa Hydrology Assessment - Comments on Draft Regional Report for West Africa

General

The document is very much an early draft with several gaps and a few statements that appear to need reconciliation.

The "Summary" does not do justice to the report nor does it fully reflect some of the main findings. For example, the statement in the summary on the status of data handling does not seem to be compatible with the statement on page 5-14 concerning quality of output.

The report itself has a good format and each section is well presented. It is understood that some of the apparent discontinuities result from the fact that the consultants have not yet been able to consolidate views among themselves particularly regarding the critical issue of the quality of the data at present produced, as discussed below.

Quality of Current Data Output

a) Hydrology

The report makes an important statement on page 5-14 regarding the general quality of hydrometric data.

"Subjective assessments of the quality of data being produced by the data collection agencies of the region has indicated that there are no obvious severe problems with inaccurate information being produced, although there are some difficulties where insufficient attention and supervision have been provided during the processing of data. However, concern has been expressed over the ability of the agencies to sustain this state of affairs in the face of dwindling resources".

b) Meteorology

The report (and more specifically, for example, the Nigeria report) gives the impression that meteorological data produced by synoptic stations is good but outside the synoptic network the quality is variable.

Thus the report implies that there is no general shortage of benchmark data on hydrology and meteorology in the region.

c) Groundwater

On groundwater, the report is a little benign. Whereas many deficiencies are recognized it states that:

"It is unrealistic to expect scarce financial resources to be directed toward setting up sophisticated monitoring networks. In rural areas, a gradual approach with the local collection of simple data under the supervision of the relevant water supply organization may be a way forward."

d) Sediment and Water Quality

Whilst identifying deficiencies in both these cases, the report is again sympathetic pointing out that such deficiencies are found in most parts of the world. Before either activity can be seriously pursued, there is a need for laboratory facilities in most countries.

Temporal Gaps

There are numerous gaps at WMO/UNCED standards of station density are applied. The spatial gaps are entirely attributed to lack of financial, human and material resources as stated below.

Main Constraints

The report emphasizes that the main constraints are financial organizational and administrative rather than hydrological. There are however some technical constraints such as the onerous problems of discharge measurement; the instability of gauging sites and the "weakest links in the chain" -- the sensors.

Other problems are that the hardware now available has capabilities beyond the software being used and there is a need to update such applications as the HYDROM.

There is also a need to move to more direct transfer from sensors to computers and avoid the automatic recorder stage.

The report summarizes the main deficiencies as:

Funds
Transport
Manpower and Training

It emphasizes the dependence that countries have on external finance and technical assistance for regional projects and implies that this is a problem of infinite duration. If, for example, AGRYMET funding stopped it would, in effect, stop all hydrometric work in Sierra Leone.

In manpower and training there is a need to offer more training in data processing and in particular in quality control techniques.

Regional Collaboration

The report devotes considerable space to regional collaboration and in that context reviews briefly the activities of CIEH, ASECNA, HYDRONIGER, OCP and the river basin organizations (OMVS, OMVG, etc). It also refers to CUCOM and HYDROM software in the same context.

The regional organizations have performed most of the work they set out to do but little or nothing beyond that. For example OCP is a valuable tool for the river blindness flow measuring program but it does not extend to water resources monitoring. The use in the OCP program appears to be an end in itself. Although rating curves and water level data are recorded at the centers they are not made available to national agencies, it is alleged, for strategic reasons.

HYDRONIGER suffers similar problems and the affected water levels are not translated in water resource monitoring. The main downstream riparian, Nigeria, makes no use of the data and this also appears to be generally true of the other states.

AGRYMET is reported as a more successful operation than the other regional projects. It still however is clouded by the concept that hydrometeorological information is a "state secret" of strategic importance. For this reason the project has not moved far with water resource monitoring. It engages participation of the national agencies better than other regional projects.

Use of Modern Methods

The consultants present a balanced view on adoption of modern compatible technology to hydrometeorological work. They point out inter alia the following needs:

- update and expand the range of software package applications to be more compatible with needs and with the available hardware
- adopt means of by-passing some automatic sensors
- train staff to make better use of software and in particular quality control programs

Regarding telemetry whilst recognizing its use and potential applications in West Africa, the consultants do not appear to accord it a priority compared with the more basic needs to support conventional technologies. Their rationale seems to stem from the consideration that the raw data is generally being adequately and accurately recorded at present (i.e. most of the Leopold & Stevens and OTT water level recording gauges work well, provided the charts are changed etc. and the synoptic weather stations provide good data). They see the main problems in such things as the onerous task of river gauging and the processing of the raw data once it is retrieved. The retrieval process is generally not questioned.

The regional report includes a regional telemetry proposal for bench-mark stations but apparently on the assumption that there will be a pan-African project on these lines but not from a consideration of the findings in the report.

Recommendations and Conclusions

The consultants main points are:

- main constraints are financial and managerial
- standards of efficiency in hydrometric work have declined over the last two decades
- there is a marked contrast between the status of surface water and ground water hydrometric services and between those and the meteorological services which are improving
- the decline in FAO activity in water resource studies since 1970 has had adverse effects
- hydrological services have a subordinate position in the establishment and hence low priority
- there are urgent needs to strengthen the weak spots in the hydrological services (as described above)
- there is a need to develop a strong regional or "umbrella" program to:
 - a) assist in reviews, repairs, rehabilitation and support for hydrometric network
 - b) create greater ability among data collection agencies
 - c) plan a regional primary network of limited size based on:
 - duration and quality
 - spatial variations
 - d) preserve historic records

Other regional projects include training and the West African component of HYCOS.

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FACSIMILE COVER SHEET AND MESSAGE

DATE: March 24, 1993

NO. OF PAGES: 3
(including this sheet)

MESSAGE NUMBER: \

TO

Name: Mr. Wim G. Sombroek, Director, AGLW
Organization: FAO

Fax Tel. No. 9-011-39-6-57973152
City: Rome
Country: Italy

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974
Dept/Div No. 238/15
Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee (Your Ref. AGLW: DP9/1 RAF/87/030)

MESSAGE:

Thank you for your response indicating that Mr. Wulf Klohn, Senior Officer, AGLW, will participate in the Sixth Steering Committee meeting for the above project.

Attached you will find the provisional agenda for the meeting.

Best regards,

cc: Mr. Wulf Klohn, Senior Officer, AGLW, FAO

cc: Messrs./Mesdames Elahi, Matthews, Savaux, McLaughlin, Xie, Perrot, Izlar

copy to GLM.

Transmission authorized by: Louise Lassen, Technical Assistance Officer

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THE WORLD BANK/IFC/M.I.G.A.

Headquarters: Washington, D.C. 20433 U.S.A.

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FACSIMILE COVER SHEET AND MESSAGE

DATE: March 24, 1993

NO. OF PAGES: 3
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MESSAGE NUMBER: \

TO

Name: Mr. Andre Liebaert, Direction Generale du Developpement Fax Tel. No. 9-011-32-2-299-2908
Organization: Commission des Communautés Europeennes City: Brussels
Country: Belgium

FROM

Name: Louise Lassen, Technical Assistance Officer Fax Tel. No. (202) 477-2974
Dept./Div. AFTCB Dept/Div No. 238/15
Room No. J-4-173 Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

During Mr. Matthews' absence on mission, I am following up on arrangements for the above meeting to be held at the World Bank Paris Office, April 20-21, 1993.

Further to Mr. Le Moigne's facsimile of February 23, I am pleased to enclose the provisional agenda for the meeting. As you will note on the provisional agenda, we have scheduled a presentation by EEC on the status of project implementation in Central Africa and another presentation by a representative of CEPGL on the integration of the project findings on improving and operationalizing hydrometric data bases. I understand Mr. Matthews earlier discussed CEPGL representation with you. Would you kindly advise me as to whether you have arranged for CEPGL representation. If not, please advise the name and the contact information of the person you suggest and I will make the necessary arrangements.

I look forward to hearing from you and hope you will be able to join us in Paris for the meetings. We would appreciate your advising us and Janine Savaux, Conference Officer, Paris Office (facsimile 33-1-40-69-3067) of your arrival date and hotel booking in Paris.

Best regards.

cc: Messrs./Mesdames Elahi, Matthews, Xie, Savaux, McLaughlin, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above.

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Headquarters: Washington, D.C. 20433 U.S.A.

Tel. No. (202) 477-1234 // Fax Tel. No. (202) 477-6391 // Telex No. RCA 248423

FACSIMILE COVER SHEET AND MESSAGE

DATE: March 23, 1993

NO. OF PAGES: 3
(including this sheet)

MESSAGE NUMBER: \

TO

Name: Mr. I. B. C. John, Director, Director, NARD
Organization: African Development Bank

Fax Tel. No. 9-011-225-204099 NARD
City: Abidjan
Country: Cote d'Ivoire

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974
Dept/Div No. 238/15
Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

Thank you for your response indicating that the African Development Bank will be represented by Mr. Randriatavy, Engineer, at the above meeting.

Attached please find the provisional agenda for the meeting. The meeting will be held April 20-21, 1993 at the World Bank Offices, 66 Avenue d'Iena, Paris. Should Mr. Randriatavy wish to contact members of World Bank team upon arrival in Paris, we suggest he call Mrs. Janine Savaux, Conference Officer, in our Paris Office (40 69 30 45). We look forward to fruitful discussions during the meeting.

Best regards.

cc: Mr. Randriatavy

cc: Messrs./Mesdames Elahi, Matthews, Savaux, Xie, McLaughlin, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

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FACSIMILE COVER SHEET AND MESSAGE

DATE: March 24, 1993

NO. OF PAGES: 3
(including this sheet)

MESSAGE NUMBER: \

TO

Name: Mr. Tony Edwards
Organization: STEENRD/DESD - UNDES

ique

Fax Tel. No. 9-1-212-963-8542
City: New York
Country: New York

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974
Dept/Div No. 238/15
Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

Further to Mr. Le Moigne's facsimile of February 23, 1993, I am pleased to enclose the provisional agenda for the above meeting. We would appreciate receiving a confirmation of your participation or the name of your representative at your earliest convenience.

Best regards,

cc: Messrs./Mesdames Elahi, Matthews, Savaux, McLaughlin, Xie, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

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DATE: March 24, 1993

NO. OF PAGES: 3
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MESSAGE NUMBER: \

TO

Name: Mr. John Rodda, Director, Dept. of Hydrology and Water Resources
Organization: WMO

Fax Tel. No. 9-011-41-22-734-23-26

City: Geneva

Country: Switzerland

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974

Dept/Div No. 238/15

Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

Further to Mr. Le Moigne's facsimile of February 23, 1993, I am pleased to enclose the provisional agenda for the above meeting. We would appreciate receiving a confirmation of your participation or the name of your representative at your earliest convenience, with a copy to Ms. Janine Savaux, Conference Officer, at our Paris Office (facsimile 40-69-30-67).

Would you also kindly advise me whether you will be travelling to Paris by air or rail so that I may have the authorization prepared for your ticket and subsistence.

Best regards,

cc: Messrs./Mesdames Elahi, Matthews, Savaux, McLaughlin, Xie, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above.

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FACSIMILE COVER SHEET AND MESSAGE

DATE: March 24, 1993

NO. OF PAGES: 3
(including this sheet)

MESSAGE NUMBER: \

TO

Name: Mr. Terry Evans
Organization: Mott MacDonald Group

ique

Fax Tel. No. 9-011-44-223-461007
City: Cambridge
Country: UK

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974
Dept/Div No. 238/15
Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

Further to Mr. Le Moigne's facsimile of February 23, 1993, I am pleased to enclose the provisional agenda for the above meeting.

Best regards,

cc: Messrs./Mesdames Elahi, Matthews, Savaux, McLaughlin, Xie, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above.

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Headquarters: Washington, D.C. 20433 U.S.A.

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FACSIMILE COVER SHEET AND MESSAGE

DATE: March 24, 1993

NO. OF PAGES: 3
(including this sheet)

MESSAGE NUMBER: \

TO

Name: Mr. Szollosi-Nagy, Director, Division of Water Sciences
Organization: UNESCO

Fax Tel. No. 9-011-33-1-45-67-58-69
City: Paris
Country: France

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974
Dept/Div No. 238/15
Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

Further to Mr. Le Moigne's facsimile of February 23, 1993, I am pleased to enclose the provisional agenda for the above meeting. We would appreciate receiving a confirmation of your participation or the name of your representative at your earliest convenience, with a copy to Ms. Janine Savaux, Conference Officer, at our Paris Office (facsimile 40-69-30-67).

Best regards,

cc: Messrs./Mesdames Elahi, Matthews, Savaux, McLaughlin, Xie, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

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DATE: March 24, 1993

NO. OF PAGES: 3

MESSAGE NUMBER: \

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TO

Name: Finn Tore Rose, Resident Representative
Organization: United Nations Development Programme

Fax Tel. No. 9-011-213-2-74-50-82

City: Algiers

Country: Algeria

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974

Dept/Div No. 238/15

Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

On February 25, 1993, we transmitted, through your offices, an invitation to M. Mohammed Boualga, Secrétaire General, OACT, to participate in the Sixth Steering Committee meeting for the above project.

We now attach the provisional agenda for the meeting for your information and request that you provide a copy to Mr. Boualga. As soon as we receive confirmation of Mr. Boualga's participation or the name of his representative, we will authorize an air ticket and subsistence.

Thank you for your kind assistance.

Best regards.

cc: Messrs./Mesdames Elahi, Matthews, Xie, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above

THE WORLD BANK/IFC/M.I.G.A.

Headquarters: Washington, D.C. 20433 U.S.A.

Tel. No. (202) 477-1234 // Fax Tel. No. (202) 477-6391 // Telex No. RCA 248423

FACSIMILE COVER SHEET AND MESSAGE

DATE: March 25, 1993

NO. OF PAGES: 4
(including this sheet)

MESSAGE NUMBER: \

TO

Name: B. Leleka, Director
Organization: SADC ELMS

Fax Tel. No. 9-011-266-310190

City: Maseru

Country: Lesotho

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974

Dept/Div No. 238/15

Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

Thank you for your response indicating that you will participate in the Sixth Steering Committee meeting for the above project.

Attached you will find the provisional agenda for the meeting. Please note that we have scheduled a presentation by you on the afternoon of the first day on the integration of project findings on improving and operationalizing hydrometric data bases. We would like to have a premeeting with you at 2:30 on Monday, April 19 for a dialogue on follow-up, including the concept of satellite telemetry which you have consistently supported for the SADC region. Please confirm that you are able to arrive in time for this meeting. If so, we will proceed to authorize your air ticket Maseru/Paris/Maseru and subsistence through the UNDP office in Maseru.

We look forward to seeing you in Paris.

Best regards,

cc: Messrs./Mesdames Elahi, Matthews, Savaux, McLaughlin, Xie, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above.

THE WORLD BANK/IFC/M.I.G.A.

Headquarters: Washington, D.C. 20433 U.S.A.

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FACSIMILE COVER SHEET AND MESSAGE

DATE: March 25, 1993

NO. OF PAGES: 3
(including this sheet)

MESSAGE NUMBER: \

TO

Name: Monsieur Pierre Geny, Chef du Bureau Hydraulique
Organization: Ministere de la Cooperation et du Developpement

Fax Tel. No. 9-011-33-1-43069740
City: Paris
Country: France

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-176

Fax Tel. No. 202-477-2974
Dept/Div No. 23815
Tel. No. 202-473-4468

SUBJECT: RAF/87/030 - Evaluation Hydrologique en Afrique Sub-Saharienne
Sixième Réunion du Comité Directeur

MESSAGE:

Suite à la télécopie de M. Le Moigne en date du 23 février 1993 vous trouverez ci-joint l'ordre du jour provisoire en anglais concernant la réunion ci-dessus mentionnée. Cet ordre du jour sera disponible en français lors de la réunion à Paris.

Meilleures salutations.

cc: MM/Mmes Elahi, Matthews, Savaux, McLaughlin, Xie, Perrot, Izlar

Transmission authorized by:  Louise Lassen, Technical Assistance Officer, AFTCB

PLEASE RETURN FORM TO FRANCOISE PERROT - ROOM J-4-176

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THE WORLD BANK/IFC/M.I.G.A.

Headquarters: Washington, D.C. 20433 U.S.A.

Tel. No. (202) 477-1234 // Fax Tel. No. (202) 477-6391 // Telex No. RCA 248423

FACSIMILE COVER SHEET AND MESSAGE

DATE: March 25, 1993

NO. OF PAGES: 3
(including this sheet)

MESSAGE NUMBER: \

TO

Name: Mr. Bernard Pouyaud
Organization: ORSTOM

Fax Tel. No. 9-011-33-67-61-99-92
City: Montpellier
Country: France

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974
Dept/Div No. 238/15
Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

Thank you for your response indicating that you and M. Michel Alain Roche will participate in the above meeting. I am pleased to attach a copy of the provisional agenda for your information.

Best regards.

cc: Messrs./Mesdames Elahi, Matthews, Savaux, McLaughlin, Xie, Perrot, Izlar

Transmission authorized by:  Louise Lassen, Technical Assistance Officer

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above.

THE WORLD BANK/IFC/M.I.G.A.

Headquarters: Washington, D.C. 20433 U.S.A.

Tel. No. (202) 477-1234 // Fax Tel. No. (202) 477-6391 // Telex No. RCA 248423

FACSIMILE COVER SHEET AND MESSAGE

DATE: March 25, 1993

NO. OF PAGES: 4
(including this sheet)

MESSAGE NUMBER: \

TO

Name: Mr. Nii Boi Ayibotele, Director
Organization: Water Resources Research Institute

Fax Tel. No. 9-011-233-21-777170
City: Accra
Country: Ghana

FROM

Name: Louise Lassen, Technical Assistance Officer
Dept./Div. AFTCB
Room No. J-4-173

Fax Tel. No. (202) 477-2974
Dept/Div No. 238/15
Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

Thank you for your response indicating that you will participate in the Sixth Steering Committee meeting for the above project.

Attached you will find the provisional agenda for the meeting. Please note that we have scheduled a presentation by you on the afternoon of the first day on the integration of project findings on improving and operationalizing hydrometric data bases.

We also enclose a copy of the ^{Fax}~~telex~~ to UNDP authorizing issuance of an air ticket and per diem for the meeting. We would appreciate your advising us and Ms. Janine Savaux, Conference Officer, Paris Office (facsimile (33-1) 40-69-30-67) of your arrival date and hotel booking in Paris.

We look forward to seeing you in Paris.

Best regards.

cc: Messrs./Mesdames Elahi, Matthews, Xie, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above.

3/23/93

SUB-SAHARAN AFRICA HYDROLOGICAL ASSESSMENT

SIXTH STEERING COMMITTEE MEETING

World Bank, 66 Avenue d'Iena, Paris

April 20-21, 1993

Chairperson:

Co-Chairpersons:

UNDP

ADB

Guy Le Moigne, World Bank

DRAFT AGENDA

Tuesday, April 20, 1993

Morning

09:00 - 09:30 **Registration**

09:30 - 09:45 **Opening remarks by the Chairperson**

09:45 - 10:00 **Adoption of the Agenda and Approval of the Minutes of the Steering Committee Meeting of October 2-3, 1992**

10:00 - 10:30 **General Report by Project Management on the Follow-up Actions to the Fifth Steering Committee Meeting and Current Status of the Project**

10:30 - 11:00 **Coffee Break**

11:00 - 11:30 **Report by the Lead Consultant on the Findings in West Africa**

11:30 - 12:00 **Report by the EEC on the Status of Project Implementation in Central Africa**

12:00 - 12:30 **Report by Consultant on the Hydrogeological Assignment in Madagascar**

Lunch

Afternoon

14:00 - 14:30 **Discussion on Current Status and Follow-up Actions**

14:30 - 17:30 **Briefings by Country Representatives on the Integration of Project Findings on Improving and Operationalizing Hydrometric Data Bases**

14:30 **IGADD Representative**

14:50 **SADCC Representative**

15:10 **CIEH Representative**

15:30 **Coffee Break**

16:00 **Mr. Nii Boi Ayibotele**

16:20 **Mr. Mamadou Aliou Diallo**

16:40 **CEPGL Representative**

17:00 **Discussion**

17:30 - 17:45 **Chairperson's Summary of the Day**

SUB-SAHARAN AFRICA HYDROLOGICAL ASSESSMENT**SIXTH STEERING COMMITTEE MEETING****World Bank, 66 Avenue d'Iena, Paris****April 20-21, 1993****Wednesday, April 21, 1993****Morning**

- 10:00 - 10:30 **Presentation by World Bank on the Proposal for the Hydrological Cycle Observation System for Africa (HYCOS).**
- 10:30 - 11:00 **HYCOS from the WMO Perspective**
- 11:00 - 11:30 **Coffee Break**
- 11:30 - 12:30 **Discussion**
- Lunch**

Afternoon

- 14:00 - 15:00 **Discussion on Next Steps to Implement Project Recommendations**
- 15:00 - 15:30 **Agreement on an Action Plan and Work Program**
- 15:30 - 16:00 **Coffee Break**
- 16:00 - 16:30 **Agreement on Date and Venue of Next Meeting
Any Other Business**
- 16:30 - 17:00 **Summary of Conclusions by Chairperson**
- 17:00 **Closure - End of Sixth Steering Committee Meeting**

THE WORLD BANK/IFC/M.I.G.A.

Headquarters: Washington, D.C. 20433 U.S.A.

Tel. No. (202) 477-1234 // Fax Tel. No. (202) 477-6391 // Telex No. RCA 248423

FACSIMILE COVER SHEET AND MESSAGE

DATE: March 25, 1993

NO. OF PAGES: 3
(including this sheet)

MESSAGE NUMBER: \

TO

Name: Mr. Solomon Akpata

Organization: UNDP

Fax Tel. No. 9-011-233-21-773899

City: Accra

Country: Ghana

FROM

Name: Louise Lassen, Technical Assistance Officer, AFTCB

Dept./Div. AFTCB

Room No. J-4-176

Fax Tel. No. 202-4772974

Dept/Div No. 23815

Tel. No. 202-473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

As you know the Sixth Steering Committee meeting on the above project is to be held in Paris April 20-21, 1993.

This will authorize you to pay to Mr. Ayibotele, Director, Water Resources Research Institute, an airticket most direct route econoclass Accra/Paris/Accra of USDLRS2000 approximately and a daily subsistence allowance of USDLRS639 (USDLRS213/day for 3 days).

Please bill IBRD by IOV quoting UNDP project RAF/87/030, SOF UN007270, bl 16 (column 4 IOV), PR-0560 (column 8 IOV). Please include these references on all disbursement vouchers and attach all relevant documents including this fax.

Thank you and best regards. William Casson, Chief, Imprest Account Department and Louise Lassen, Technical Assistance Officer, AFTCB, World Bank

Transmission authorized by:  Louise Lassen, TA Officer, AFTCB

PLEASE RETURN FORM TO FRANCOISE PERROT - ROOM J-4-176

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THE WORLD BANK/IFC/M.I.G.A.

Headquarters: Washington, D.C. 20433 U.S.A.

Tel. No. (202) 477-1234 // Fax Tel. No. (202) 477-6391 // Telex No. RCA 248423

FACSIMILE COVER SHEET AND MESSAGE

DATE: March 25, 1993

NO. OF PAGES: 3

MESSAGE NUMBER: \

TO

(including this sheet)

Name: Mr. S. Dyomin, Resident Representative

Fax Tel. No. 9-011-224 - 442485

Organization: United Nations Development Programme

City: Conakry

Country: Guinea

FROM

Name: Louise Lassen, Technical Assistance Officer

Fax Tel. No. (202) 477-2974

Dept./Div. AFTCB

Dept/Div No. 238/15

Room No. J-4-173

Tel. No. (202) 473-4468

SUBJECT: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment - Sixth Steering Committee

MESSAGE:

Thank you for your response indicating that Mr. Aliou Diallo will participate in the Sixth Steering Committee meeting for the above project.

Attached you will find the provisional agenda for the meeting for your information. We also request that you forward a copy to Mr. Aliou Diallo and bring to his attention that we have scheduled a presentation by him on the afternoon of the first day on the integration of project findings on improving and operationalizing hydrometric data bases.

This will also serve as your authorization to issue Mr. Diallo a round-trip economy class air ticket Conakry/Paris/Conakry at estimated cost of \$2,000. and a subsistence allowance of \$639, based on an initial estimate of US Dollars \$213 per day subject to final determination at your end on actual number of days of meeting and travel time by the most direct route. Since hotel rooms are frequently scarce in April in Paris, we would suggest that Mr. Diallo have your travel agency book his room as soon as possible. We would appreciate advice to us and to Ms. Janine Savaux, Conference Officer, Paris Office (facsimile (33-1) 40-69-30-67) of his arrival date and hotel booking in Paris.

Please bill IBRD by IOV quoting UNDP Project RAF/87/030, BL 16 (Column 14 of IOV), PR 0559 (under Column 18 of IOV). Please include these references on all disbursement vouchers and attach all relevant documents including copy of this facsimile.

Thank you for your usual kind assistance. Regards,

Louise Lassen, TAO and William Casson, Chief, ACTIA

cleared with and cc: Maureen Rickford

cc: Messrs./Mesdames Elahi, Matthews, Savaux, McLaughlin, Xie, Perrot, Izlar

Transmission authorized by: Louise Lassen, Technical Assistance Officer

If you experience any problem in receiving this transmission, inform the sender at the telephone or fax number listed above.

3/23/93

SUB-SAHARAN AFRICA HYDROLOGICAL ASSESSMENT

SIXTH STEERING COMMITTEE MEETING

World Bank, 66 Avenue d'Iena, Paris

April 20-21, 1993

Chairperson:

UNDP

Co-Chairpersons:

ADB

Guy Le Moigne, World Bank

DRAFT AGENDA

Tuesday, April 20, 1993

Morning

09:00 - 09:30 **Registration**

09:30 - 09:45 **Opening remarks by the Chairperson**

09:45 - 10:00 **Adoption of the Agenda and Approval of the Minutes of the Steering Committee Meeting of October 2-3, 1992**

10:00 - 10:30 **General Report by Project Management on the Follow-up Actions to the Fifth Steering Committee Meeting and Current Status of the Project**

10:30 - 11:00 **Coffee Break**

11:00 - 11:30 **Report by the Lead Consultant on the Findings in West Africa**

11:30 - 12:00 **Report by the EEC on the Status of Project Implementation in Central Africa**

12:00 - 12:30 **Report by Consultant on the Hydrogeological Assignment in Madagascar**

Lunch

Afternoon

14:00 - 14:30 **Discussion on Current Status and Follow-up Actions**

14:30 - 17:30 **Briefings by Country Representatives on the Integration of Project Findings on Improving and Operationalizing Hydrometric Data Bases**

 14:30 IGADD Representative

 14:50 SADCC Representative

 15:10 CIEH Representative

 15:30 **Coffee Break**

 16:00 **Mr. Nii Boi Ayibotele**

 16:20 **Mr. Mamadou Aliou Diallo**

 16:40 **CEPGL Representative**

 17:00 **Discussion**

17:30 - 17:45 **Chairperson's Summary of the Day**

SUB-SAHARAN AFRICA HYDROLOGICAL ASSESSMENT**SIXTH STEERING COMMITTEE MEETING****World Bank, 66 Avenue d'Iena, Paris****April 20-21, 1993****Wednesday, April 21, 1993****Morning**

10:00 - 10:30	Presentation by World Bank on the Proposal for the Hydrological Cycle Observation System for Africa (HYCOS).
10:30 - 11:00	HYCOS from the WMO Perspective
11:00 - 11:30	Coffee Break
11:30 - 12:30	Discussion
	Lunch

Afternoon

14:00 - 15:00	Discussion on Next Steps to Implement Project Recommendations
15:00 - 15:30	Agreement on an Action Plan and Work Program
15:30 - 16:00	Coffee Break
16:00 - 16:30	Agreement on Date and Venue of Next Meeting Any Other Business
16:30 - 17:00	Summary of Conclusions by Chairperson
17:00	Closure - End of Sixth Steering Committee Meeting

The World Bank/IFC/MIGA
O F F I C E M E M O R A N D U M

DATE: March 3, 1993 06:46pm

TO: Mei Xie (MEI XIE)

FROM: Louise Lassen, AFTCB (LOUISE LASSEN)

EXT.: 34468

SUBJECT: SADCC Project Proposals

Would you send me a copy of the project proposals for Mozambique, Zimbabwe and Zambia. A colleague in the Africa region is leaving on mission to these countries Friday and will discuss them with resident representatives for possible follow-up projects.
Thanks, Louise

**Land Acquisition Needs (right of way) for Construction of
Canals, Drains, & Service Roads**

Country: Nepal

Project: Mahakali Irrigation II \$41.3m

Fiscal Year: 1988 Expected Completion Date: _____

Tsk Mngr at appraisal: Mr. Richard Reidinger Current Tsk Mngr: _____

Land acquisition (LA) (but no ha) was indicated, for the extension of 20km of main canal, which was at the tail of the present main canal and run across the Chaudar river and the Suklaphanta Wildlife Reserve, and for the construction of 425km of secondary and tertiary unlined canals.

Treatment of the land acquisition issue in the SAR: (none)

1. Right of way area required for construction of the above works:

- Total area: _____ ha
- * Privately owned: _____ ha
- * State owned: _____ ha
- * Collectively owned: _____ ha

2. Number of families affected: _____

- * land owner families affected: _____
- * squatter/tenant families affected: _____

3. Impact of land acquisition process on local people--the number of families whose lands affected by the project were within the following ranges of their total owned lands:

- * (moderately affected) under 25% _____
- * (largely affected) above 25% _____

4. Approaches adopted by the project for private land (Yes/No):

- * compensation: _____
- * land consolidation & reallocation: _____
- * land reform & distribution: _____

5. Progress with land acquisition to date:

- * successfully completed
- * completed with some remaining problems _____
- * uncompleted, why: _____

Request for SSA reports from Feb. 17, 1993 seminar - distribution within the Bank

<u>Name</u>	<u>Dep.</u>	<u>Room</u>	<u>Tel.</u>	<u>Report</u>
Jannik Boesen	TWUWS	S11-045		<u>Tanzania/ Uganda/Zimbabwe/SADCC</u>
Adel Bichara	AF3AG	J7-084		<u>Rwanda/Burundi/Zaire/Angola/Djibouti</u>
Sorster Sarah	AF5DR	J9-169	35581	<u>Chad/Gambia/Mali/Mauritania/Senegal/ Cape Verde/Niger/Burkina Faso</u>
Bob Hearne	AGRAP	N8-027		Botswana <u>(prop.) Botswana/Zimbabwe/Zambia/ (prop.) Malawi/Lesotho/Swaziland</u>
Gotz Schreiber	AF4AG	J5-119		<u>Sao Tome & Principe/Nigeria/ Sierra Leone/Guinea Bissao/Ghana</u>
Aftab Raza	EA3AG	A9-111		<u>Sudan</u>
Balint Almassy	AF2IN	J10-081		<u>Tanzania</u>
M. Abdi Noor	SPAAR	N5-015		IGADD countries <u>(Djibouti/Somalia)</u>
Karin Kemper	TWUWS	S11-056		<u>Tanzania</u>

Da Franca Netron, OAS/DDRMA, Room 340-c,
1889 F street, NW, Washington D.C. 20006, tel. 202-244-3454

Cote D'Ivoire/West Africa regional

Curt Barrett, Nile Project Office, NOVA/NWS,, 1325 EW Highway, Silver Spring, MO 20910 ??

Note: __ Done on March 7, 93

OFFICE MEMORANDUM

DATE: March 3, 1993

TO: Mr. Guy le Moigne, Senior Adviser, AGRDR
Mr. Geoffrey Matthews, AGRNR

FROM: ✓ Mei Xie, AGRNR *Mei Xie*

EXTENSION: 30362

SUBJECT: Status of the SSA Hydrological Assessment

There were some questions about the status of the Hydrological Assessment Project. Here, for your information, is a check list of on-going and up-coming events.

Completion of Project Reports

- West Africa:
We have received all of the final country reports on twenty-two participating West African countries.
- According to the consultants, the final regional reports for West Africa (both in English and French) are being printed and will be mailed to us soon.
- As we originally requested in the terms of reference, five hydrological maps have been prepared for Ghana, Gambia, Sao Tome & Principe, Guinea, and Sierra Leone. These maps are included in the country reports.
- Madagascar:
We have received the report on hydrogeological assessment for Madagascar. The next steps will be discussed during the April meeting.
- Central Africa:
We have received three draft country reports on the Central Africa Region (Zaire, Rwanda and Burundi). Digitized mapping was undertaken for the three countries, but was stopped due to the security situation in the region. No further progress has been reported from the EEC, which is the executing agency for programs in this region.

Distribution of the project reports

- To the participating countries:
Final project reports and project proposals have been made available to the participating countries (the relevant hydrological agencies) directly by the consultants (Mc Mott International). The national hydrological agencies and their representatives also received the draft country reports, on which they have commented.
- To outside agencies:
All country and regional reports have been sent to the following six agencies: UNDP, UNDES, ADB, WMO, EEC, and FAC (French Government).

Within the Bank:

- All reports have been distributed to the African Region TD, who makes the materials available to staff of Africa sector divisions. The reports were also sent to the Africa Information Center.
- A number of staff who participated in the Bank's February 17 seminar on "Outcomes of the SSA Hydrological Assessment and their Economic Implications" were given the country/regional reports and project proposals of the Hydrological Assessment.

Follow-up to the February 17 Seminar

- The Project Brochure is being revised following the suggestions made during the seminar.
- The project proposal on HYCOS is being revised by the WMO.

Preparation for the Steering Group Meeting in Paris (April 20-22)

Invitations:

- The invitations have been issued by Mr. Guy le Moigne to the following agencies and representatives:

IGADD, SADCC, CIEH, OACT, CEGPL,
UNDP, UNDTCD, WMO, ADB, UNESCO, EEC, FAO, FAC,
MMI, BRGM, ORSTOM,
Representative of Madagascar,
Representative of the five Anglophone countries of West Africa,
Representative of the five Francophone countries of West Africa

Confirmations

- The following agencies/representatives have confirmed their participation:

SADCC

Representative of the five Anglophone countries of West Africa,
Representative of the five Francophone countries of West Africa
UNDP, WMO, UNESCO

Meeting agenda:

- A draft agenda has been prepared by the team and sent to UNDP for their clearance, after which it will be finalized and sent to the invited agencies.

Documents prepared for the meeting

- A Bank Position Paper is being prepared by Mr. Matthews and Mr. Akhtar Elahi;
- The Project Brochure is being revised and will be sent to the printshop, hopefully by March 10; and
- A project progress report is being prepared by Ms. Louise Lassen.

CC: Messrs. D. Steeds, A. Elahi; Ms. L. Lassen

The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

March 2, 1993

Mr. I. B. C. John
Director
NARD, African Development Bank (ADB)
01 Bp 1387 Abidjan 01, Cote d'Ivoire

Dear Mr. John,

Subject: Sub-Saharan Africa Hydrological Assessment:
UNDP Project No. RAF/87/030, West Africa

I have pleasure to enclose, for your information, copies of the final country reports on the twenty-two participating West African countries. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
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March 2, 1993

Mr. Andre Liebaert
Direction Generale du Development
Commission des Communautés Europeennes (CEE)
200 Rue de la Loi
B-1049, Bruxelles, Belgique

Dear Dr. Liebaert,

Subject: Sub-Saharan Africa Hydrological Assessment:
UNDP Project No. RAF/87/030, West Africa

I have pleasure to enclose, for your information, copies of the final country reports on the twenty-two participating West African countries. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

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(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

March 2, 1993

Mr. Anthony K. Edwards
Chief
Natural Resources Branch, UNDTCD
One UN Plaza, NY, NY, 10017

Dear Mr. Edwards,

Subject: Sub-Saharan Africa Hydrological Assessment:
UNDP Project No. RAF/87/030, West Africa

I have pleasure to enclose, for your information, copies of the final country reports on the twenty-two participating West African countries. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

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Cable Address: INTBAFRAD
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March 2, 1993

Mr. Pierre Gény
Chef du Bureau Hydraulique
Ministere de la Cooperation et du Developement
20, rue Monsieur 75700, Paris, French

Dear Mr. Gény,

Subject: Sub-Saharan Africa Hydrological Assessment:
UNDP Project No. RAF/87/030, West Africa

I have pleasure to enclose, for your information, copies of the final country reports on the twenty-two participating West African countries. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

The World Bank
INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

March 2, 1993

Dr. John Rodda
Director
Department of Hydrology and Water Resources
World Meteorological Organization (WMO)
41 Avenue Giuseppe Motta, Case Postale N.5,
CH 1211 Geneva 20, Switzerland.

Dear Dr. Rodda,

Subject: Sub-Saharan Africa Hydrological Assessment:
UNDP Project No. RAF/87/030, West Africa

I have pleasure to enclose, for your information, copies of the final country reports on the twenty-two participating West African countries. The reports, which were sent to us recently, were prepared by the Mott-MacDonald International for the above referenced project.

With kind regards,

Yours sincerely,



Geoffrey Matthews
Project Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

Enclosure

OFFICE MEMORANDUM

URGENT
IMPORTANT

DATE: February 22, 1993

TO: See Distribution Below

FROM: Christine Stover, ESDVP

EXTENSION: 34685

SUBJECT: Special Grants Program (SPG) - FY94-96 Business Plan Guidelines

Michele

*please give
copies to GM/MX
AS*

GLM
Hydrob.
IPTRID
DF
ICIPE
IFDC-IBSRAM
ITC?
MT
SPARR

Please find attached PBD's guidelines for the Special Grants Business Plan and Budget.
May we have your submissions by March 12, 1993. Thank you.

- 1- Let's discuss
- 2- Submission to me
cob March 10

Distribution: Messrs.: Petit and Van der Osten

cc: Messrs./Mmes.: El-Ashry, Pouliquen, Vatcha, Chadha, Devine

THE WORLD BANK/INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

DATE: February 18, 1993

TO: See Distribution Below

FROM: Richard Lynn, PBDDR 

EXT: 30114

SUBJECT: **Special Grants Program (SGP) - FY94-96 Business Plan and Budget Guidelines**

1. This memorandum provides guidelines to Vice Presidential Units (VPUs) for submitting FY94-96 business plan and budget proposals for special grants to PBD. Units' submissions will be reviewed by the SGP Oversight Committee which will then advise the Office of the President on how the approved FY94 SGP budget envelope (\$69.4 million in nominal dollars) should be allocated to individual grants. Decisions by the President's Office on the budget allocation will be included by PBD in the FY94-96 Business Plan and Budget document for consideration by the Executive Directors in June 1993.

2. The FY94 budget envelope represents the resource ceiling for special grants on a **Bankwide** (not VPU) basis. The SGP Oversight Committee's recommendations on the allocation of this envelope will take into account the importance of diversifying the programs supported by special grants. To this end, the Committee provided the following preliminary feedback to units for preparing their FY94 budget proposals (see Attachment 1 for minutes of Committee meetings of November 25, 1992 and January 7, 1993):

- (a) Grants for agriculture programs should be restricted to the present nominal level of \$47.8 million, to allow greater diversification of the SGP. The relative priorities of the various agriculture grants within this figure should be reviewed by ESD (AGR) and communicated in its submission.
- (b) The increase in the total health program grants in FY94 should be limited to \$1 million over the FY93 figure of \$13 million. HRO (PHN) and AFR should jointly review the resource allocation priorities for these grants.
- (c) Given the existence of other funding mechanisms (e.g., the GEF) for environmental programs, new environmental grant proposals should not be supported through the SGP.
- (d) A contingency of about \$3 million should be maintained in the FY94 budget to provide opportunity to elicit innovative grant proposals in areas of high institutional priority.

The Committee also asked units to take specific actions with respect to certain current grants managed by them (see the November 1992 minutes for details).

3. Your VPU is requested to prepare its FY94-96 special grants business plan and budget proposals in light of the above decisions of the Committee. Please provide the following information (**where relevant**) in your submission with respect to the grants currently managed by your unit and any new grant proposed:

- (a) **Current grants:** Justification for the grant amount proposed, based on program achievements in FY92 and FY93 (to date), and any changes in program strategy, priorities and direction since the preparation of your FY94-96 prospects submission. If your unit's exit strategy for any grant has changed since then, please provide the substantive case for the change. Grants should not exceed 15% of the total donor contributions; therefore, in cases where increases in current grants are proposed, or where the FY94 commitments from other donors are not yet firmed up, units should indicate the basis for their estimate of total program funding.
- (b) **New grants:** Unit submissions should include a discussion of the eligibility of proposed new grants under the established selection criteria; Attachment 2 lists the criteria approved by management and the Board Cost Effectiveness and Budget Practices Committee following the SGP Review in 1990. New grants are subject to the 15% limit on the Bank's share of total program funding. Proposals should also include the following information: other donor institutions and their grant commitments; program objectives and monitorable outputs; estimated time frame for Bank contributions; for FY94, a program budget and estimate of cash requirements; and the name and organization of the executing agency.
- (c) **Administration costs:** Units should provide justification for any administrative support costs of new grants proposed to be funded through the SGP. With respect to current grants, units should justify any requirements for incremental resources based on additional work planned to be handled by the relevant support units in FY94.

4. Indicative figures (in nominal dollars) should be provided for the proposed amounts of each current and new grant for FY95 and FY96. These figures should be based on the current operational plans for each program and available information about prospective donor contributions.

5. Your submissions are due to PBD by March 15, 1993, and they should be separate from the FY94-96 business plan and budget proposals for your regular programs. In view of the tight schedule for review by the SGP Oversight Committee in March and subsequent preparation of the Business Plan and Budget document, I would appreciate your adherence to this timetable.

Attachments

Distribution: Messrs. Choksi, Husain, Jaycox, Kaji, Koch-Weser, Rao, Rischard, Ruddy, Serageldin, Shakow, Thalwitz, Wood

cc: Messrs. Eccles, Alisbah

THE WORLD BANK/INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

Attachment 1
Page 1 of 7

DATE: December 29, 1992

TO: See Distribution

FROM: Barun Chatterjee, Secretary, SGP Oversight Committee

EXT: 30201

SUBJECT: **Minutes of November 25 Meeting -- Erratum**

In paragraph 14 of the minutes circulated on December 21, 1992, the recommended FY94 SGP resource envelope and the percentage growth over the FY93 budget were incorrectly stated. The correct figures are \$69.4 million and 4%, respectively.

Distribution: Messrs. Doyen, Eccles, Forget, Goldberg, Kavalsky, Landell-Mills, Lynn, Meissner, Petit, Rajagopalan, Serageldin, Shakow

THE WORLD BANK/INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

Attachment 1
Page 2 of 7

DATE: December 21, 1992

TO: See Distribution

FROM: Barun Chatterjee, Secretary, SGP Oversight Committee

EXT: 30201

SUBJECT: Minutes of November 25 Meeting

1. The meeting was attended by Messrs. Doyen (representing Mr. Serageldin), Eccles (Chairman), Goldberg, Lynn, Meissner, Rajagopalan and Shakow.

FY93 Contribution to CGIAR

2. The Committee discussed the request from CGIAR for release of the \$2.3 million which was held back by PBD out of the FY93 grant of \$40 million to CGIAR, pending confirmation of total donor pledges for FY93. The above amount was escrowed in line with the Bank's requirement that the FY93 CGIAR grant should not exceed 15% of total donor funding. A speaker advised the members that based on contacts to date with donors, CGIAR's best estimate of total FY93 funding was in the range of \$255-265 million, the actual amount depending partly on movements in exchange rates. Due to budgetary constraints, some national legislatures had delayed their approval of donors' contributions. Some speakers addressed the issue of whether the Bank contribution provided effective leverage for CGIAR to induce other donors to raise their contributions. It was pointed out that the extent of such leverage can only be known on an *ex post* basis, when additional donor contributions materialized. The members agreed that the escrowed sum of \$2.3 million could be released to CGIAR on the following condition: if the Bank's FY93 contribution exceeded the prescribed limit of 15% of the total FY93 CGIAR funding, the FY94 grant should be reduced by the amount of the excess contribution in FY93. The Chairman instructed the Secretary to work with the CGIAR Secretariat on establishing a firm figure (e.g., based on donor pledges or contributions received) of total FY93 funding against which the Bank's 15% share could be measured.

Abolition of Linkage Fund

3. The joint request from AGR and CGIAR to abolish the Linkage Fund and to move the administration of the grants from the CGIAR Secretariat to AGR, was taken up for discussion. The reason for the request was that there was no prospect for the institutions involved to join CGIAR in the near future. After some discussion of the merits of these grants, the Committee made the following decisions:

- (a) The grant to AVRDC should be discontinued after FY93 for the same reason that AVRDC was not included as a member of CGIAR. AGR should also look into the commitment made by the Bank to AVRDC in connection with the FY93 grant, to see if agreement could be reached with AVRDC to terminate that commitment.
- (b) For the grants to ITC and IBSRAM, the AGR/CGIAR request was approved, subject to the proviso that continuation of these grants in FY94 would only be

- 2 -

considered if AGR advised the Committee that the centers had viable programs over the medium- and long-term. With respect to IBSRAM, a speaker pointed out that since CGIAR had adopted an eco-regional approach, there was not much justification for the Bank to support another "small program."

FY94-96 Prospects

4. The Chairman advised the members that the primary purpose of the Committee's review of the units' submissions was to reach a consensus on whether there was a strong case for recommending an increase over the FY93 SGP budget of \$66.7 million (excluding benefits and overheads) to the President's Office. Another outcome of the present meeting would be to provide preliminary feedback to the units on the merits of their proposals and additional information, if any, on the proposals that would be needed in their business plans to be submitted in March 1993. The Committee will reconvene in March to review the business plans and recommend the allocation of the FY94 SGP budget envelope decided upon by the President's Office.

5. The PBD Director noted that the nominal growth rates for the SGP budget over FY91-93 were: FY91 - 6.8%; FY92 - 2.3%; and FY93 - 3.3%. The President's Office had not yet decided on the growth rate for *regular programs* to be recommended to the Board in the forthcoming Planning Directions Paper; however, it was clear that FY94 would not be a year of exceptional budget growth like FY93. The likely range of nominal budget growth in FY94 for regular programs was 5.7-7.7%; excluding the price factor for salary increases (which was not relevant to special grants), the range would be 4-6%.

6. A speaker stressed the need for an unallocated amount (contingency) to be included in the FY94 increment to the SGP budget. An unallocated amount of about \$2-3 million was essential to encourage units to come forward with innovative proposals in sectors where the Bank had not traditionally made grants. Another speaker expressed the view that an unallocated amount in the SGP budget should be kept for meeting unexpected requirements in the course of the fiscal year, and not used to "promote" new grant proposals. A speaker pointed out, however, that the present SGP budget did not include any grants for private sector development, the focus of one of the new thematic vice-presidencies.

7. **CGIAR:** The OSP proposal for an increment of \$2 million in the grant to CGIAR was reviewed. Some speakers noted that the recent Board paper on the Agriculture Sector had called for additional resources for CGIAR as well as consideration of competitive funding of agricultural research. A speaker pointed out that the Bank contributed \$3.6 million for the CGIAR Secretariat costs in addition to its CGIAR grant; he proposed that the former amount be included in measuring the Bank's 15% share of total funding of CGIAR. Two speakers disagreed with this proposal; in their view, the Bank should not earmark part of its grant money for administration and thereby reduce its support for CGIAR research, unless other donors could be expected to augment their own contributions. However, there was a consensus that the grant total for agriculture programs should be kept at the present level of \$48 million, to allow greater diversification of the programs supported through the SGP. After further discussion, the members agreed as follows:

- 3 -

- (a) The *maximum* Bank contribution to CGIAR will be kept at 15% of total funding with an upper limit of \$42 million, but no firm commitment should be made for this amount. Members also expressed strong doubts that other donors will raise their contributions, thus justifying a higher grant from the Bank. Furthermore, any proposal for increment over the FY93 level (\$40 million) will be reviewed by the Committee on a competitive basis against other proposals for funding out of the contingency in the SGP budget.
- (b) AGR should be asked to advise the Committee on (i) the evolution of CGIAR's program priorities and their congruence with the Bank's own operational priorities in the agriculture sector, and (ii) whether the Bank's role as the balancing donor should be changed.
- (c) AGR should be asked to examine whether the Bank contribution to the Secretariat costs should be included in the 15% Bank share of total funding.

8. ***Other Agriculture Grants:*** The following decisions were reached:

- (a) ***Entomology:*** The grant should be made conditional upon resolution of ICIPE's financial difficulties and the outcome of the AGR review of the priority to be given to the research activities of ICIPE.
- (b) ***Linkage Fund:*** The grant to AVRDC should be terminated. AGR should be asked to carry out the review of ITC and IBSRAM mentioned in para. 3 and advise the Committee.
- (c) ***Fertilizer:*** AGR should be asked to examine the justification for continuing Bank grants to IFDC, since it is not part of CGIAR.
- (d) ***International Foundation for Science:*** SPAAR (the managing unit for this grant) should be asked to examine the benefits of this grant.
- (e) ***New Grants:*** The new grant proposals for fisheries research and water resources management did not meet the SGP eligibility criteria; the Bank had no comparative advantage in the former program, and the latter program would not meet the arm's length criterion. Hence, these proposals would not be endorsed by the Committee if they are included in the business plans to be submitted in March 1993.

9. ***Grants for Health Programs:*** There was a consensus among members that contributions to new programs (e.g., Extra-OCP) or increases in existing grants (e.g., Safe Motherhood, Population NGOs and Micronutrient Malnutrition) in this category could only be accommodated by cutting back on support for existing programs. The Committee noted that it would not be feasible to phase out Bank support for a number of programs which were long-term in nature. Therefore, without some redeployment, the rate of budget growth for health grants would outstrip the increases in the rest of the SGP. The Committee decided to recommend to the President's Office an increase of \$1 million in the grant total for health programs; PHN and AFR should jointly review the resource allocation priorities for these grants and advise the Committee on how the recommended increase should be allocated among the new and existing grants.

- 4 -

10. **Grants for Education Programs:** The Committee noted that the ACBI program had started operations and a new Executive Secretary had recently been appointed. However, the start-up of operations was well behind schedule. Therefore, the disbursement of the balance of \$7 million (out of the Bank's original commitment of \$15 million) should be stretched out in line with the cash requirements of ACBI; and AFR should be asked to review whether the FY93 grant (\$3.5 million) was adequate for ACBI's needs in FY94 as well.

11. With respect to the other grant proposals for education programs, the Committee reached the following decisions:

- (a) **DAE:** The request for \$0.25 million in FY94 was supported in principle. However, in view of the recent start of DAE activities under a secretariat independent of the Bank, the projection of DAE's cash requirements should be firmed up in order to assess whether additional grant funds were needed in FY94.
- (b) **McNamara Fellowships:** The proposal to increase the endowment, in order to compensate for the present low interest rates and the effects of inflation, was not endorsed. Members believed that more prudent financial management of the fund was called for, so that the real value of the capital was protected.
- (c) **Education for All:** The members were informed that a firm commitment had earlier been made by the former President to provide financial support for this program. In view of this, members believed that the commitment should be honored. It was also decided that OSP should be asked to prepare a cash projection indicating when the requested funds (\$0.23 million) would be needed.

12. **Environment:** With respect to the two new grant proposals, the Committee believed that as the GEF is now operational, the SGP is not the proper funding source for regional and global environmental programs.

13. **Technical Assistance and Other:** The ACT proposal for a grant of \$500,000 over FY94-96 to the IASC will be reviewed by the Committee in January 1993.

14. Based on the Committee's review, it was decided to recommend to the President's Office an FY94 SGP budget envelope of \$69.1 million, including a contingency of \$3 million. This envelope would represent a growth of 3.6% over the FY93 SGP budget of \$66.7 million.

Distribution: Messrs. Doyen, Eccles, Forget, Goldberg, Kavalsky, Landell-Mills, Lynn, Meissner, Petit, Rajagopalan, Serageldin, Shakow

THE WORLD BANK/INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

Attachment 1
Page 6 of 7

DATE: February 1, 1993

TO: See Distribution

FROM: Barun Chatterjee, Secretary, SGP Oversight Committee

EXT: 30201

SUBJECT: Minutes of January 7 Meeting

1. The meeting was attended by Messrs. Eccles (Chairman), Forget, Lynn and Rajagopalan.
2. Two items deferred from the November 25, 1992, meeting were taken up for discussion: (a) a proposal from ACT for a new grant of \$500,000 over FY94-96 to support the work of the International Accounting Standards Committee (IASC); and (b) suitable composition of the Committee's membership to reflect the Bank's new organizational structure which became effective January 1, 1993.

New Grant Proposal

3. A speaker noted the importance and relevance of the IASC's work for the Bank. In the case of borrowing countries that had not established national accounting standards for enterprise accounting, Bank loan agreements included the requirement that borrowers follow the accounting and financial reporting standards developed by the IASC. Moreover, a number of developing countries had used the IASC standards as the model for their national standards. The Bank was making a concerted effort to improve the accounting standards of its borrowers, and in this context, planned to strengthen its representation in the IASC. Another speaker expressed the opinion that the grant proposal satisfied the SGP eligibility criteria because the IASC was an established body with a good international reputation, was independent of the Bank, and carried out work in an important area in which the Bank was neither involved nor had a comparative advantage. The Committee endorsed the proposal on the conditions that the grant amount should be limited to 15% of the total annual funding of the IASC, and that the grant money should be used to accelerate the IASC work program.

Committee Membership

4. The Chairman reviewed the various options for constituting the membership of the Committee. Representation could consist exclusively of the central Bank units, or of the stakeholders, i.e., those units which manage or request grants, or the membership could be balanced, with the central units and stakeholders represented equally. A speaker thought that to enable the Committee to conduct a substantive review of the major grants (current or proposed), it needed the views of Bank staff who were knowledgeable about such programs. Another speaker felt that the Committee could obtain expert advice without necessarily appointing such persons as members. Moreover, it was not necessary for all stakeholders to be represented, as it was accepted that grant proposers could appear before the Committee to advocate their proposals.

- 2 -

5. The Committee approved the following composition of its membership: besides the Chairman (CTRVP), one representative each from LEG, PBD, a Finance vice presidency (FPR or TRE), DEC, ESD/FPD/HRO, and a Region. In addition, the Committee requested that the former Vice President of OSP remain as a member for the current year, in view of his extensive background and experience with CGIAR and a number of health grants. The Chairman will consult with the Vice Presidents of the above units on the selection of their representatives.

Distribution: Messrs. Eccles, Forget, Goldberg, Landell-Mills, Lynn, Meissner, Petit, Rajagopalan, Serageldin, Shakow

SPECIAL GRANTS PROGRAM SELECTION CRITERIA

Programs selected for receiving grants by the Bank should normally meet the following criteria:

1. The program contributes to furthering the Bank's development and resource mobilization objectives in fields basic to its operations, but does not compete with or substitute for regular Bank instruments.
2. The Bank has a distinct comparative advantage in being associated with the grant program; it does not merely replicate the role of other donors.
3. The program encompasses multi-country benefits or activities which it would not be efficient, practical or appropriate to undertake at the country level.
4. The Bank's presence provides significant leverage for generating financial support from other donors.
5. The grant is normally given to an institution with a record of achievement in the program area and financial probity.
6. The management of the recipient institution is independent of the Bank Group.

The above criteria should be viewed as guides to sound managerial judgment. Hence, they should not be considered as sufficient tests for determining whether the Bank should contribute to a particular program. An important consideration in selecting a program would be that it involves priority development activities not readily undertaken within the Bank's regular programs.

A L L - I N - 1 N O T E

DATE: 19-Feb-1993 02:16pm

TO: See Distribution Below

FROM: David Steeds, AGRNR

(DAVID STEEDS)

EXT.: 38711

SUBJECT: Attached

You will have received Akhtar's EM on follow-up to the seminar. This was in reply to an EM I had created but not yet distributed, except to Akhtar (to get his views from the SSA perspective). To close the loop, I am now attaching what I had created. It has been overtaken to some extent by Akhtar's comments, but a fundamental problem remains: what should we do when we have no confidence that governments will put in the money to maintain the "upstream" data gathering work?

David

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TO: Guy Le Moigne
TO: Geoffrey Matthews
TO: Herve Plusquellec
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(GUY LE MOIGNE)
(GEOFFREY MATTHEWS)
(HERVE PLUSQUELLEC)
(MEI XIE)
(JEAN DOYEN)

A L L - I N - 1 N O T E

DATE:

TO: See Distribution Below

FROM: David Steeds, AGRNR

(DAVID STEEDS)

EXT.: 38711

SUBJECT: Follow-up to our seminar

Akhtar et al.,

At the end of the seminar, I was a bit uneasy on what useful follow-up could be envisaged. We had heard some excellent presentations from the outside speakers, particularly Rhodda on the advantages of the Hydrological Cycle Observation System (HYCOS), i.e., one hundred self-regulating and auto-transmitting data control platforms (DCPs) to be installed at strategic points across Africa. But we had also been informed (by you and Guy) that the heart of the existing data problem - as diagnosed by the Sub-Saharan Africa Hydrological Assessment - was the unwillingness of African governments to invest in (or at least maintain) existing data gathering systems. We had also heard (from Bob Rangeley) that one-half of the new DCPs installed along the Niger River were inoperative. And over coffee with Rangeley and Gerard Peiyns, the latter conceded that indeed one-half of the platforms were inoperative but that we now had a "new design" that was virtually indestructable.

After the seminar, Guy circulated a recent proposal from Rhodda for an international conference to (to put it bluntly) promote HYCOS. I found this proposal quite unconvincing, since it entailed convening representatives from national hydrological services, hearing their problems, and proposing HYCOS as a cost-effective complement to what they are vainly trying to do.

The heart of the matter - be it for maintaining existing data gathering systems, or for keeping a HYCOS in operation - is that African governments will not put any money into what they perceive to be a low priority. Rhodda's proposed conference will preach to the converted, and change nothing. At best, it will show "ostensible" client support for HYCOS, which may be used to attract funding from some gullible donor for a few years. But whatever interim solution may be found, it will ultimately remain vulnerable to vagaries of host country recurrent financing.

Is there any alternative to Rhodda's well-intentioned (but doomed) proposal?

On reflecting on what I learned at the seminar, I think that there is another option. Recall the example of the Cameroonian electricity parastatal: because of their commercial

interest in knowing what was happening upstream, and what this would mean for electricity generation, they were paying for DCP data transmission via METEOSAT. Recall also the Salvadoran example - they imported \$30 million of oil for electricity generation because they were doubtful that they had enough water, but would gladly have invested \$1 million in DCPs to tell them exactly how much water they could expect. Recall, too, the imprecise reference to Nigeria where the government was said to be willing to fund DCPs along the Niger River (presumably to know how much electricity would be generated by Kainji).

These examples point to a way out of the cycle of inadequate government funding/inadequate hydrological data gathering. Where there is a commercial interest at stake, reliable funding can be found for dependable hydrological data gathering. Even parastatals - in the Cameroonian, Salvadoran and Nigerian cases - may be relied upon to act in their commercial interests. How much more reliable might be the commercial interest of private operators in, e.g., Cote d'Ivoire, Zimbabwe and South Africa?

What this suggests is that, instead of a public-sector approach to hydrological data gathering, we identify private or even parastatal interests in such data, and devise funding arrangements that will appeal to them, e.g., in power, water supply or sanitation projects, perhaps we fund the DCP installation on condition that the entities fund the operating costs. Without knowing any of the institutional details, I can imagine several such cases in the Sadcc countries and RSA.

How to promote such activities? I was impressed with the WMO competence in this field and suggest that, in preparation and appraisal missions, we employ WMO as consultants, to design the data gathering facilities, and draw up and oversee procurement. I can well envisage (say) a \$1 million data gathering component in (say) a \$100 million power, water supply or sanitation project. Perhaps WMO should also be used, selectively, on supervision.

What this offers is a good, workable commercial-interest approach to hydrological data gathering. Some of our colleagues may object that this is not optimal; I would respond that the best is often the enemy of the good and, if the best is not obtainable, let's settle for the good.

David

DISTRIBUTION:

TO: Akhtar Elahi
TO: Guy Le Moigne
TO: Geoffrey Matthews
TO: Herve Plusquellec
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(AKHTAR ELAHI)
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The World Bank/IFC/MIGA
O F F I C E M E M O R A N D U M

DATE: February 19, 1993 12:22pm

TO: David Steeds (DAVID STEEDS)

FROM: Akhtar Elahi, AFTAG (AKHTAR ELAHI)

EXT.: 34112

SUBJECT: RE: Follow-up to: Seminar on SSA Hydrological Assessment Progr.

1). Read your EM with interest. You have raised some points/questions and it seems you have replied them as well, as you perceived.

2). Trying to tie in data collection and use, into the private sector and to be paid by the utilities is absolutely right. It can and should be done whenever possible in a given setting but this will only address a segment of needed data base and therefore has limitations. However let me warn that 'privatization' is a "downstream" use and cannot be used as a starter. Let me explain.

3). The approach to management of water resources (national, regional or basin) must be comprehensive in its analytical framework and decentralized and participatory in its implementation. It is necessary that for resource inventories, planning and allocation processes etc., someone plays a dominant role in the so called upstream activities (creating enabling environment through regulations, legislation, comprehensive/cross-sectoral water resources planning/development), with due consideration to social and environmental issues. These aspects have to be addressed by governments and cannot be relegated to the private sector with their own vested interests. However one should leave as much as possible, the downstream business of water supply operations/utilizations to private sector, water user groups.

4). For the upstream activities to be judiciously planned, a strong data base well ahead (by many years), of the actual utilization has to be in place for future planning processes to be meaningfully handled based on sufficient and reliable knowledge.

5). Privatization as such offers an answer to an extent; to share costs but in a downstream mode only. To be able to do things rightly for "upstream" activities, public investment is required.

6). It is unfortunate that awareness in African countries (SSA), for building a strong data base remains a low priority. The efforts must continue to bring about a change and the Bank must play its role in this respect with professional dignity and strength. At the same time one must not ignore the economic

difficulties these countries (my memo is in the context of SSA) are facing in allocating their meager resources to everything that is useful.

7). We are aware that currently in the absence of adequate data base, the international community has been investing somewhat blind folded and therefore it is perfectly appropriate to raise funds (create a trust or any other modality), to set out collecting/strengthening data base, which should serve as an analytical tool for making judicious decisions on economic development of water/environmental aspects. Exact modalities for such investment and its continuation are yet to be worked out and need further thought. One of the purposes of the Seminar (Feb.17,1993), was to have such exchanges. The HYCOS document presented at the Seminar by WMO was a document prepared in consultation with the Bank's Project Management Team and paid for by SSA Hydrological Program.

8). One short reminder: Hydroniger has been referred to quite often, at occasions not within its full context. The "failure" of Hydroniger is more a failure of Niger Basin Authority (the parent body), in its regional setting rather than of Hydroniger per se. As you are aware, the causes are many and complex and should not lead us to the conclusion that data collection in itself is bad.

CC: Guy Le Moigne	(GUY LE MOIGNE)
CC: Geoffrey Matthews	(GEOFFREY MATTHEWS)
CC: Herve Plusquellec	(HERVE PLUSQUELLEC)
CC: Louise Lassen	(LOUISE LASSEN)
CC: Mei Xie	(MEI XIE)
CC: Francis X. Colaco	(FRANCIS X. COLACO)
CC: Francis J. Lethem	(FRANCIS J. LETHEM)
CC: Sushma Ganguly	(SUSHMA GANGULY)
CC: Jean Doyen	(JEAN DOYEN)
CC: Narendra Sharma	(NARENDRA SHARMA)
CC: Ulrich Kuffner	(ULRICH KUFFNER)
CC: J.W. van Holst Pellekaan	(J.W. VAN HOLST PELLEKAAN)

For planning purposes, long-term data is essential and records need to be continuous. Data collection include:

- sampling extremes of rainfall, floods, and droughts;
- detecting effect of changes in land use;
- providing information to improve statistics for long-term mean and statistical distribution;
- monitoring long-term trends in climate.

For operation and day-to-day management purposes, short-term and real time data are needed. Hydrological services should find a balance between traditional duties and customer-driven work.

Feb. 17, 1993

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FACSIMILE COVER SHEET AND MESSAGE

DATE: February 9, 1993

NO. OF PAGES: 1
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MESSAGE NUMBER:

TO

Name: M. Andre Liehaert
Organization: Direction Generale du Developpement
Commission des CCE

Fax Tel. No. 32 2 299 2908
City: Brussels
Country: Belgium

FROM

Name: Geoffrey J. Matthews
Dept./Div. \
Room No. \

Fax Tel. No. 1 202 334 0568
Dept/Div No. \
Tel. No. 1 202 473 0354

SUBJECT: Sub Saharan Africa Hydrological Assessment - Steering Committee Meeting
Paris - April 19 to 21 - Rep. CE. des Pays des Grandes Lacs, Africa.

MESSAGE:

Dear M. Liebaert,

With reference to our recent telephone conversation ref. the question of a representative of the Grandes Lacs Region, we have no objection if you wish to extend an invitation to some one who could present an appreciation of the SSAHA activities as seen by the CE of that region. This would complement your presentation on the status of SSAHA in that Region. My files indicate that at the last committee meeting the rep. was M. Charles Kayihura.

Kindest regards,



Geoffrey J. Matthews
Project Co-ordinator

then copy to

Ahketar Elahi
Louise Lacroix
Mei Xie.

The World Bank/IFC/MIGA
O F F I C E M E M O R A N D U M

DATE: February 1, 1993 04:05pm

TO: Mei Xie (MEI XIE)

FROM: John Dixon, LATEN (JOHN DIXON)

EXT.: 38594

SUBJECT: Seminar on the Economic Value of Water

Mei,

To follow up on our discussion of this morning, I wanted to emphasize that the concept of the economic value of water in the development process is crucial, but that the focus of the seminar appears to be on hydrologic information collection, and not on economics of water. Even though the costs of different information collection systems is very important, this does not really say anything about the economic value of water. The latter is defined by the value attributable to water (the marginal value product) in different, and often competing uses.

As I have mentioned to Guy in several earlier memos, the economic dimension in water resource planning is fundamental to improved use of this valuable, and increasingly scarce resource. This dimension is not captured by the accounting approach that either looks at the cost of increasing supplies or collecting more information. One may increase supplies in the most cost-effective manner possible and still be making a serious mistake if the additional water is going to a use that does not justify that level of expenditure. The economics of water asks not only how to increase supplies efficiently, and also whether or not it is worth doing at all. Increasingly we find that additional supplies are not justifiable given present patterns of use. In some cases it may be much more efficient to re-allocate before adding new supplies.

I suggest that you retitile the seminar to something more accurate like "Using Improved Hydrological Data for Better Project Design".

Coul you please pass this along to Mr. Matthews (?), I could not find his name in my directory.

John

CC: Guy Le Moigne (GUY LE MOIGNE)
CC: LAC ISC FILES (LAC ISC FILES)

A L L - I N - 1 N O T E

DATE:

TO: xyz

(PAPER MAIL)

FROM: David Steeds, LATAG

(DAVID STEEDS)

EXT.: 38711

SUBJECT: Seminar on hydrological data improvement and economic implications

This is to announce, and invite you, to a half-day seminar from 9.30 to 12.30 on Wednesday, February 17 in Room J-B-1080 on the above subject.

We will have four presentations on hydrological data improvement: (i) the results of a four-year program on Sub-Saharan Africa Hydrological Assessment, (ii) the content of a proposed Hydrological Cycle Observing System (WMO), (iii) the activities of the International Hydrological Program (UNESCO), and (iv) a progress report on a water resources information system for LAC (UNESCO).

While I will try to illustrate the economic implications of all this work on hydrological data improvement, one of the purposes of the seminar is to get a better handle on the potential economic implications, and to orient future work accordingly. The Sub-Saharan Africa Hydrological Assessment has concluded with many project proposals - at country and regional levels - and decisions will soon have to be made on what is to be done next. Similarly, the WMO and UNESCO officers-in-charge are keen to ensure that the directions to be taken in their programs match our operational priorities. This is an excellent opportunity to bring economic and operational perspectives to bear on what has hitherto been largely an affair of technicians.

In order to have a clear idea of the likely number of participants, please send an EM to Mie Xei stating if you will attend.

David

The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
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January 29, 1993

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Mr. Andre Liebaert
Direction Generale du Developement
Commission of the European Communities
EEC, 200 Rue de la Loi
B-1049, Bruxelles, Belgique

SUBJECT: Sub-Saharan Africa Hydrological Assessment: follow-up program

Dear Mr. Liebaert,

We plan to organize a project completion meeting in Paris on April 21-22, 1993, for the Sub-Saharan Hydrological Assessment. The project has come to an end. The final reports for West Africa have been completed. The meeting will brief the Steering Committee the final results and findings for all regions, and will discuss follow-up actions--including formulation of some of the identified projects.

We would like to invite you to the meeting, and to make a brief presentation, on behalf of the EEC, on the status and development of the Assessment, which your agency has carried out for the Central Africa countries. We understand that the EEC has completed three draft country reports early last year, and you gave us a copy of each draft during your visit in Washington. We would appreciate it if you could contact us as early as possible, and let us know the progress of the final reports (country and regional) for the Central region and the main recommendations for follow-up projects.

Please let us know whether you would be able to attend the meeting, and any suggestions you may have.

With kind regards,

Sincerely yours,



Mei Xie
Project Assistant to the Coordinator
Natural Resources Division
Agriculture and Natural Resources Department

The World Bank

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January 5, 1993

Mr. Christian Lehembre
Sr. Regional Programme Officer
Division for the Regional Programme
Regional Bureau for Africa
United Nations Development Programme
One United Nations Plaza
New York, New York 10017

Subject: RAF/87/030 - Sub-Saharan Africa Hydrological Assessment


Dear Mr. Lehembre:

Further to our conversation, I am pleased to enclose a signed original of the Project Performance Evaluation Report for the above project. We look forward to seeing you soon.

Thank you for your continued support to the project.

Best regards.

Yours sincerely,


Louise Lassen
Technical Assistance Officer
Capacity Building and Implementation
Africa Region Technical Department

Enclosure

cc w/o attachment): Messrs./Mesdames Matthews, Xie, McLaughlin (AGRTN), Elahi (AFTAG), Perrot (AFTOS), LL chron, Project BB (Progress Reports)

THE WORLD BANK/IFC/M.I.G.A.

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FACSIMILE COVER SHEET AND MESSAGE

*Joyce please
distribute to
Aktor, Jamin
Mei, Guy.*

DATE: January 5, 1993

NO. OF PAGES: 1
(including this sheet)

MESSAGE NUMBER: 3205

TO

Name: Dr. Andras Szollosi-Nagy
Director, Div. of Water Sciences

Fax Tel. No. 33 1 45 67 58 69

Organization: UNESCO, Paris

City: Paris
Country: France

FROM

Name: Geoffrey Matthews

Fax Tel. No. 1 202 334 0568

Dept./Div. \

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Room No. \

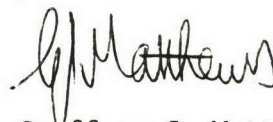
Tel. No. 1 202 473 0354

SUBJECT: Sub Saharan Africa Hydrological Assessment (SSAHA)
Bank presentation.

MESSAGE:

Dear Mr Szollosi-Nagy,

On February 17th 1993, we are intending to hold a Bank Seminar about the SSAHA. All the Bank regions will be invited. John Rodda and Sierge Pieyns will make presentations about the Africa HYCOS, and we have invited Carlos Fernandez-Jauregui to make a presentation about LAC HYCOS. Both Guy Le Moigne and myself believe that it would be an excellent opportunity to acquaint the Bank with the UNESCO water activities. We would be very pleased therefore if you would accept this invitation to make a presentation of about 30mins. Unfortunately I am not able to finance your travel expenses.
Regards,



Geoffrey J. Matthews
Senior Water Resources Engineer

PS, The World Bank Paris Office is able to accomodate the steering committee meeting in April.

Transmission authorized by: \