

AGENCY FOR INTERNATIONAL DEVELOPMENT PROJECT AUTHORIZATION AND REQUEST FOR ALLOTMENT OF FUNDS PART I	1. TRANSACTION CODE <input type="checkbox"/> A A ADD <input type="checkbox"/> C C CHANGE <input type="checkbox"/> D D DELETE	PAF 2. DOCUMENT CODE 5
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3. COUNTRY ENTITY DSB DS/ST RDA 7	4. DOCUMENT REVISION NUMBER <input type="checkbox"/>
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5. PROJECT NUMBER (7 digits) [931-1224]	6. BUREAU/OFFICE A SYMBOL B CODE DSB [/0]	7. PROJECT TITLE (Maximum 40 characters) [Remote Sensing for Agriculture]
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8. PROJECT APPROVAL DECISION <input type="checkbox"/> A APPROVED <input type="checkbox"/> D DISAPPROVED <input type="checkbox"/> DL DCAUTHORIZED	9. EST. PERIOD OF IMPLEMENTATION YRS [0] [3] QTRS []
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10. APPROVED BUDGET AID APPROPRIATED FUNDS (\$000)									
A. APPROPRIATION	B. PRIMARY PURPOSE CODE	PRIMARY TECH. CODE		E. 1ST FY <u>79</u>		H. 2ND FY <u>80</u>		K. 3RD FY <u>81</u>	
		C GRANT	D LOAN	F GRANT	G LOAN	I GRANT	J LOAN	L GRANT	M LOAN
(1) FN	100	010		1,400		-		-	
(2)									
(3)									
(4)									
TOTALS				1,400					

A. APPROPRIATION	N. 4TH FY <u>82</u>		O. 5TH FY		LIFE OF PROJECT		11. PROJECT FUNDING AUTHORIZED	
	D GRANT	P LOAN	R GRANT	S LOAN	T GRANT	U LOAN	1. LIFE OF PROJECT	A GRANT
(1) FN	-				1,400		2. INCREMENTAL LIFE OF PROJECT	1
(2)								
(3)								
(4)								
TOTALS					1,400		C PROJECT FUNDING AUTHORIZED THRU	FY [8] [2]

12. INITIAL PROJECT FUNDING ALLOTMENT REQUESTED (\$000):	13. FUNDS RESERVED FOR ALLOTMENT
A. APPROPRIATION	B. ALLOTMENT REQUEST NO. <u>1</u>
(1) FN	C GRANT D LOAN
	1,400
(2)	
(3)	
(4)	
TOTALS 1,400	
TYPED NAME (Chief, SER, FM, FND)	
SIGNATURE	
DATE	

14. SOURCE/ORIGIN OF GOODS AND SERVICES 000 941 LOCAL OTHER _____

15. FOR AMENDMENTS, NATURE OF CHANGE PROPOSED

FOR RRC/PIAS USE ONLY	16. AUTHORIZING OFFICE SYMBOL	17. ACTION DATE MM DD YY	18. ACTION REFERENCE (Optional)	ACTION REFERENCE DATE MM DD YY
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ACTION MEMORANDUM

TO: DAA/DS/DT, Dr. John I. Bruce DATE: 1 AUG 1979

THRU: DS/PO, Mr. Robert Simpson *BCjm*

FROM: DS/ST, William M. Feldman *W.M. Feldman*

SUBJECT: Approval for Project "Remote Sensing for Agriculture,"
931-1224, \$1.4 million

We request your approval for the subject project and authority to obligate \$1.4 million to implement it. These are FY 1979 funds which we plan to obligate by PASA with the U.S. Department of Agriculture.

The Project Paper was reviewed June 15 by the R&DC and is approved by all bureaus. On July 13, the RAC approved the project with the condition that the advanced phases dealing with (1) computer classification of crops and (2) crop yield modeling not be started until a revision, written in the form of a research proposal, be submitted to the RAC and reviewed sometime in the future. We contest the RAC, in that we think that these phases are not research, but instead are technology adaptation. However, at this time, this issue does not need to be resolved since the RAC agreed that the total \$1.4 million could be obligated now, but with implementation of the advanced phases held up until later. This condition had already been built into the project by the Project Paper calling for a feasibility study, performed in six countries, to ascertain their capability to absorb the advanced phases. The issue of whether or not to rewrite the advanced phases, and submit the rewrite to the RAC, we would like to raise with you later this calendar year.

I recommend that you sign the attached Project Authorization for \$1.4 million of FY 1979 funds to implement the project "Remote Sensing for Agriculture."

Attachments:

1. Project Authorization, Parts I & II
2. Project Paper
3. *Justification for non-competitive procurement*

Clearances:

AFR/DR:LHeilman *LH*, Date *Aug 10, 79*
ASIA/TR:Tarndt *T*, Date *Aug 10, 79*
LAC/DR:HLusk *HL*, Date *July 20, 1979*
NE/TECH:EKMacManus *EM*, Date *July 24, 79*
PPC/PDPR:BSidman *BS*, Date *8/3/79*
DS/ST:WRoseborough *WR*, Date *8/3/79*
DS/ST:RFlynn *RF*, Date *8/3/79*
DS/PO:MRchcigl _____ Date _____

RAC Meeting - July 12-13, 1979

Food and Nutrition

Remote Sensing for Agriculture (New) - U.S.
Department of Agriculture. Duration of project,
3 years; estimated cost, \$1,400,000.

Project Summary and Background: The purpose of this project is to establish in selected LDCs the ability to use remote sensing technology in crop production estimating programs. The project has four phases, the first of which is already in progress under an existing USDA PASA. Phases I and II of the proposal deal with the establishment of a statistically sufficient network of agricultural sampling sites and enumeration and projection of national crop production statistics, respectively. Phase III is designed to speed up and improve the interpretation of satellite imagery through use of computer classification techniques. Phase IV would permit refinement of crop production estimates to show the influence of weather based on agrometeorological models. Currently crop production estimates used in agro-economic and health planning in many LDCs are based on older methods which are less accurate and less reliable. Adaptation of remote sensing methods to crop production estimating efforts in LDCs should benefit LDC governments through improved and more timely projection of national and regional crop production as a basis for agricultural policies and food distribution plans.

All issues raised in the DSB project review have been resolved.

RAC members endorsed the adaptation of remote sensing technology to LDCs recognizing its long-term potential in agriculture as well as other fields, e.g. forest management and population estimation.

Questions were raised regarding the levels of accuracy which could be achieved by the technique and the large number of countries in which the project was to be undertaken. Serious reservation was expressed regarding the documentation of Phases III and IV. The RAC requested these phases of the project to be rewritten in order to clarify the objectives and methodology.

RAC Recommendation: Recognizing that the work described cannot be accomplished in the proposed three year period and also that the specified predictive accuracies cannot be obtained, approval is recommended with the understanding that:

1. Phase II be implemented (as a follow-up for the ongoing Phase I);
2. Phases III and IV be revised, clarifying goals, objectives and methods as well as who will perform the research and where; and
3. The revised proposal be resubmitted to RAC for approval before final implementation.

PO-AAK-164-B1

9311224

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June 4, 1979

MEMORANDUM FOR: Bureau Review Committee Members
FROM : DS/PO, R. Simpson *for DOK*
SUBJECT : Committee Review of Project Paper
Office of Science and Technology/DSB

The Project Review Meeting, chaired by DAA/DS/L, Dr. J. Bruce on the PP for 'Remote Sensing for Agriculture' will be held on June 15, 1979 - 1:30-3:00 p.m. - Room 3886 N.S.

Following the Project Review Meeting, the proposal is scheduled for RAC review, July 12-13, 1979.

In addition to the science & technology staff, it would be helpful to have the agriculture staff consider this proposal.

Questions or comments may be relayed to DS/ST, Charles K. Paul, (235-9165). Issues for review at the meeting should be directed to Elizabeth Roche, DS/PO, (235-9048) by COC Tuesday, June 12.

Attachment:
Project Paper (931-1224)
Distribution list

DISTRIBUTION FOR DSB PROJECT REVIEW COMMITTEE MEETING

A. Core Members (3 copies)

AFR/DR, L. Heilman
ASIA/TR, M. Aloyse Doyle
LAC/DR, H. Lusk
NE/TECH, E. Keys MacManus
PPC/PDPR, R. Malley

C. Correspondence Members

CM/SOD, R. J. O'Brien
PPC/PB, Ain Kivimae*
GC/TF&HA, A. Richstein
EEO, R. Robinson*
PPC/WID, A. Fraser
OMB. Ed Sanders

B. Core Alternates

LAC/DP, Peter Theil
NE/PD, Worth Fitzgerald

D. DSB

AA/DS, S. Levin
DS/MGT, D. McMakin*
DS/PO, R. Simpson
B. Chapnick
K. Milow*
T. O'Keefe
R. Meehan*
J. Holt
Analysts (as appropriate)
DS/PO/RES, M. Rechcigl
DS/DIU, L. Allen*
M. Brown*
R. Gaul
J. Hafenrichter

DAA/DS/FN, E. Babb
DS/AGR, D. Peterson*
M. Mozynski*
DS/RAD, H. Hobgood*
DS/N, M. Forman*
DS/XII, E. Long*

DAA/DS/DT, J. Bruce
D. Rhoad*
DS/ENGR, F. DiMatteo*
DS/UD, W. Miner*
DS/EY, A. Jacobs*
DS/ST, H. Arnold*
DS/H, P. Kimm*

DAA/DS/HRD, S. Joseph
DS/HEA, L. Howard*
DS/EH, R. Schmeding*
DS/POP, R. Ravenholt*
DS/IT, J. Goodman*
DS/PO/RES, E. Stephen (DSB Proj.Rev.Files)

*Attachment (s) on request

6/4/79