

PD-AAW:391

52339

SUPPLEMENT

to the

ANNUAL REPORT

July 1, 1972 - June 30, 1973

INTERNATIONAL CENTER FOR MARINE
RESOURCE DEVELOPMENT

University of Rhode Island
Kingston, Rhode Island

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INTERNATIONAL CENTER FOR MARINE RESOURCE DEVELOPMENT

University of Rhode Island

211(d) ANNUAL REPORT FY 72/73

Supplement

INTRODUCTION

In 1969, the University of Rhode Island founded the International Center for Marine Resource Development upon receipt of a five-year grant of \$750,000. from the U. S. Agency for International Development. As of June 30, 1973, at the end of four years under this 211(d) grant, it is very much to the point to take stock of what this grant has meant in the development of the University's interest, capability and orientation toward service in developing countries.

To avoid repetition, this supplement is to be read with and is cross-referenced to the Annual Report of the International Center for Marine Resource Development for the year 1972-73. Six Center activities were funded in part by 211(d) funds as were fifteen faculty activities. An additional ten faculty members have been involved in internationally oriented activities which have either been partially stimulated by 211(d) funds or which feed back into 211(d) supported efforts in the mutual building of interests.

211(d) Annual Report Supplement

FY 1972/73

I. Annual Report Summary
211(d) Grant AID/CSD #2455

Title: International Center for Marine Resource Development

Grantee: University of Rhode Island

Director: Nelson Marshall

A. Statistical Summary:

Period of Grant - May 7, 1969 to May 6, 1974

Report Period - Jul, 1, 1972 to June 30, 1973

Amount of Grant - \$750,000.

Expenditures for Report Year - \$172,644.

Accumulated Expenditures - \$456,135.

Anticipated Expenditures - for next year - \$293,864.

B. Narrative Summary:

The principle accomplishments during the past year include:

- 1) Continued expanding food technological research and assistance activities of the Consortium for the Development of Technology (CODOT) in Central America through the Instituto Centroamericano de Investigacion y Tecnologia Industrial (ICAITI), and newly developing programs with the Instituto de Tecnologia de Alimentos (ITAL) in Brazil and with Kasessart University in Thailand.

- 2) Research and study projects concerning An Evaluation of the Implications of Alternative Ocean management Schemes For Tuna, A Research and Development Mariculture-Fisheries Project in Puerto Rico, Surface Water Management For Irrigation and Lagoon Environmental Modification, Mariculture of Sea Turtles, Preliminary Assessment of the Marine Fisheries Development Needs of the Organization of American States, Potential for Coastal Aquaculture in British Honduras, and Fishery Advisory Service to the Azores. Expanded individual research and study activities in the countries in the Caribbean, South and Central America, the Far East, Africa and the Balkans.
- 3) International conferences held on Socio-Economic Research Issues in Fisheries Development and/or British Commonwealth Politics.
- 4) Continued URI operation of the Certificate Program in International Research, International LOS Institute, Master of Marine Affairs program.
- 5) Implementation of reorganization plans for ICMRD.
- 6) Initial development of a program in World Wide Artisan Fisheries Program including upcoming conferences in Central/South America and East Africa.
- 7) Continued encouragement of approximately 50 International Students in Marine-oriented studies.

C. Detailed Report

(Page numbers refer to Annual Report of the International Center for Marine Resource Development for the year 1972-73, unless otherwise noted).

I. General Background and Purpose of the Grant

See I. Director's Statement (p. 10)

II. Objectives of the Grant

See I. Director's Statement (p. 10)

III. Accomplishments

See Summary (p. 1)

II' - Accomplishments during Year--Institutional Programs (p. 16)

III - Accomplishments during Year--Planning (p. 38)

IV - Accomplishments during Year--Individual Pursuits (p. 51)

VII - Publications (p. 95)

Two copies of publications and 211(d) sponsored research abstracts are being provided under separate cover.

IV. Impact of Grant Supported Activities in Developing Institutional Capabilities

See - I - Director's Statement (p. 10)

V. Utilization of Institutional Resources in Development

See - I - Director's Statement (p. 10)

- II - Accomplishments during Year--Institutional Programs
 - Law of the Sea Institute (p. 27)
 - Master of Marine Affairs Program (p. 30)
 - Certificate Program in International Development (p. 32)
- IV - Accomplishments during Year--Individual Pursuits (p. 51)
- V - Foreign Students in Marine-Oriented Studies (p. 87)
 - Table I (attached)

VI. Other Resources for Grant Related Activities

- II Accomplishments during the Year--Institutional Programs (p. 16)
- IV Accomplishments during the Year--Individual Pursuits (p. 51)
- VI Programs for the Future--(p. 90)
 - (See Table I, attached)

VII. Next Year's Plan of Work and Anticipated Expenditures

- See - VI - Programs for the Future--(p. 90)
 - Table I (attached)
 - Table II (attached)

Note--Proposals for follow-on 211(d) program and World Wide Artisan

Fisheries effort, entitled World Wide Artisan Fisheries Development

Program, are presently in preparation and project follow-on

funding for the three years (1975, 1976, 1977) subsequent to expiration of the current grant.

VIII. Other

IX. Report of Expenditures

- Table I Distribution of 211(d) Grant Funds and Contributions from other sources of Funding (Estimated)
- Table II Expenditure Report (Actual and Projected)
- Table III Detailed Expenditures (Actual and Projected)
- Table IV Salaries and Fringe Benefits

- Table V Student Fellowships
- Table VI Foreign Travel
- Supplement - Detailed Cost Breakdown by Investigator and task.

TABLE I
DISTRIBUTION OF 211(d) GRANT FUNDS AND CONTRIBUTIONS FROM OTHER SOURCES OF FUNDING (ESTIMATED)
REVIEW PERIOD 1 JULY 1972 TO 30 JUNE 1973

	211(d) Expenditures				Non 211(d) Funding Amount
	Period under review	Cumulative total	Projected next year	Projected to end of grant	
<u>Research Support</u>					
C. Chichester	\$ 17,569.11	\$ 76,913.57	\$ 25,000.00	\$101,913.57	AID/csd-3645: \$109,706; ICAITI-ROCAP 598-15-290-553: \$59,915.
L. Landberg	14,788.16	42,571.13	2,000.00	44,571.13	
S. Salla	4,267.50	8,519.42	5,500.00	14,019.42	RFF Ocean Mgmt.-Tuna: \$9,833.
J. Sieburth	1,564.98	16,005.14	--	16,005.14	
N. Marshall	6,042.93	11,345.44	10,700.00	22,045.44	NSF GA-35782: \$26,300; NSF DI-39552: \$99,500
A. Holmsen*	311.75	6,062.50	--	6,062.50	
S. constantinides	3,068.20	7,604.43	8,200.00	15,804.43	
H. Lampe	11,760.09	22,575.20	25,300.00	47,875.20	
P. Wadsworth	4,008.60	18,672.26	--	18,672.20	
T. Weaver	20,342.82	34,687.21	23,000.00	57,687.21	
L. Sprague (J. Arnold)*	554.00	5,907.31	--	5,907.21	
H. Foster	68.15	181.07	--	181.07	
R. Shoop	4,931.70	4,931.70	7,000.00	11,931.70	
R. Cummings	5,818.90	5,818.90	6,000.00	11,818.90	
M. Salomon	4,096.15	4,096.15	5,500.00	9,596.15	
L. Alexander	7,104.13	7,104.13	4,500.00	11,604.13	
S. Marston	310.10	310.10	--	310.10	
J. Milburn	395.19	395.19	--	395.19	
J. Gates	300.00	300.00	--	300.00	
<u>New Awards</u>			23,400.00	23,400.00	
<u>Preparatory Research</u>					
Artisan Fisheries	--	--	25,764.00	25,764.00	
Fisheries Biologist and Sociologist Anthropologist	--	--	28,500.00	28,500.00	
Research, prior years*	--	1,411.00	--	1,411.00	
Director's Office - (Adminis- tration & prog. dvlpmt.)	57,657.92	153,449.94	85,000.00	238,449.94	URI ICMRD Development Fund: \$25,000.
Curriculum Development	5,201.80	12,408.90	5,000.00	17,408.90	
Visiting Lecturers and Professional Visitors	2,462.68	14,864.94	3,500.00	18,364.94	
TOTALS:	\$172,344.86	\$456,135.63	\$293,864.00	\$749,999.63	

* These figures represent closeout costs from prior years.

TABLE II
EXPENDITURE REPORT (ACTUAL AND PROJECTED) UNDER INSTITUTIONAL GRANT #AID/csd - 2455
REVIEW PERIOD 1 JULY 1972 TO 30 JUNE 1973

	Expenditures to date		Projected expenditures				Total
	Period under review	Cumulative total	Grant year				
			2	3	4	5	
Personnel Costs	\$109,672.28	\$314,577.90				\$178,736	\$493,313.90
Graduate Fellowships	33,491.47	73,180.30				48,091	121,271.30
Travel:							
Domestic	9,477.41	19,277.18				10,000	29,277.18
Foreign	6,789.75	15,370.46				7,500	22,870.46
Other:							
Equipment	2,955.00	7,560.14				3,000	10,560.14
Supplies	1,909.46	3,939.02				2,500	6,439.02
Publications	933.29	1,702.43				1,200.	2,902.43
Communications	672.99	2,980.76				1,000	3,980.76
Library	226.04	1,069.27				1,000	2,069.27
Misc. (xerox, rentals, etc.)	6,517.17	16,478.17				15,073	31,551.17
Artisan fisheries prep.	---	---				25,764	25,764.00
TOTALS:	\$172,644.86	\$456,135.63				\$293,864	\$749,999.63

TABLE III
 DETAILED EXPENDITURES (ACTUAL & PROJECTED) UNDER 211(d) GRANT AID/csd - 2455

	Expenditures to date		Projected expenditures				Projected 5 year Total
	Period under review	Cumulative total	1974	197	197	197	
Salaries:							
Academic	\$ 75,758.57		\$106,434				
Library	---		10,500				
Secretarial	10,347.66		18,300				
Adm. Staff	11,307.66		29,500				
Hourly P/R	1,660.80						
Fringe Benefits	13,506.23		14,002				
Student Fellowships:							
Stipends	26,931.83		42,011				
Tuition	3,651.00		6,080				
Consultants (a) (J. MacFarland)	552.75						
Guest Lecturers (b) (Holt & Enos)	950.00		1,200				
Travel Expenses:							
Domestic	9,477.41		10,000				
Foreign	6,789.75		7,500				
Equipment (c)	2,955.00		3,000				
Library Acquisitions (d)	226.04		1,000				
Other (e) (Telephone, postage, supplies, etc.)	8,530.16		44,337 ^{1/}				
TOTALS	\$172,644.86	\$456,135.63	\$293,864.				\$749,999.63

^{1/} Including Artisan Fisheries preparation.

For the 12 month report period:

- (a) Number of consultants used - 1
- (b) Number of guest lecturers - 2
- (c) Items of equipment purchases (over \$100) - IBM typewriter: \$310; HP 35 Calculator: \$395; fiberglass tanks for Shoop's turtle project: \$2,250.
- (d) Misc. periodicals & bibliographies
- (e) Supplies: \$1,909.46; postage: \$312.87; communications: \$672.99; copying charges: \$2,108.70; publications: \$933.29; secretarial assistance: \$1,146.59; repairs & service: \$658.46; rental: \$96; computer: \$95.72; conferences, meetings & services: \$233.15; and freight, misc. etc.: \$362.93.

TABLE IV
SALARIES AND FRINGE BENEFITS

Name and position	Salary	Benefits
N. Marshall, Director, ICMRD	\$ 18,692.28	\$ 2,018.77
L. Sprague, former Director, ICMRD	385.06	41.59
J. Griffin, Asst. to the Director, ICMRD	11,307.66	1,221.23
E. Tefft, Secretary	2,336.58	252.35
S. Fitzpatrick, Secretary	4,122.89	445.27
C. Latos	3,594.78	388.24
A. Holmsen	281.36	30.39
C. Chichester	211.86	22.86
T. Weaver	18,359.95	1,982.87=
H. Lampe	10,613.95	1,146.29
L. Landberg	12,671.87	1,368.56
T. Lee	10,247.61	1,106.74
J. MacFarland	700.00	75.60
D. Durocher, Secretary	3,846.19	415.39
R. Seshadri, Grad. Assistant	1,399.98	151.20
R. Gerber, " "	1,733.98	187.27
J. Arnold, " "	500.00	54.00
O. Kenerson, " "	1,099.98	118.80
P. Wadsworth, " "	3,450.00	372.60
J. Horng, " "	2,150.00	232.20
M. Caurie, " "	2,997.43	323.72
D. Stevenson, " "	1,958.00	211.46
T. Jacques, " "	2,940.00	317.52
L. Vidaeus, " "	3,150.00	340.20
S. Professorsky, " "	3,639.96	393.12
P. Ross, " "	1,912.50	206.55
G. Telek, Hourly - Puerto Rico	45.00	2.34
P. Lemkau, Grad. Assistant	636.30	30.09
J. Felgarski, " "	542.00	24.08
E. Yang, " "	212.50	11.05
S. Gould, " "	42.00	2.18
D. Huang, " "	225.00	11.70
TOTALS	\$126,006.52	\$13,506.23

TABLE V
STUDENT FELLOWSHIPS

Name and area of work	Nationality	Tuition - 211(d)	Stipends - 211(d)
R. Seshadri	India	--	\$1,551.18
R. Gerber	United States	--	1,921.25
P. Wadsworth	" "	186.00	3,822.60
J. Horng	Republic of China	30.00	2,382.20
M. Caurie	Ghana	395.00	3,321.15
D. Stevenson	United States	--	2,169.46
T. Jacques	Belgium	760.00	3,257.52
L. Vidaeus	Sweden	760.00	3,490.20
S. Professorsky	Israel	760.00	4,033.08
P. Ross	United States	--	2,119.05
F. Sanchez	Peru	380.00	--
A. Sfair	Chile	380.00	--
J. Arnold	United States	--	554.00
O. Kenerson	" "	--	1,218.78
TOTALS:		\$3,651.00	\$29,840.47

TABLE VI
FOREIGN TRAVEL

Name and Title	Destination, Purpose and Results*	Duration	Amount
S. Holt, Adjunct Professor	Malta to Kingston & return to consult about ICMRD international planning	4 days	\$ 767.25
N. Marshall, Director, ICMRD	To Mexico City, Mexico and return to participate in on-site review and consult regarding research efforts of P. Wadsworth	3 days	418.97
J. Gates, Asst. Professor	To Paris, France and return to attend conference on European Fisheries Economics sponsored by the Organization for Economic Coop. Development and to present paper there	3 days	300.00
N. Marshall, Director, ICMRD	To Dar es Salaam, Tanzania and return to explore inter-institutional coop. possibilities in marine resource development	16 days	1,621.08
L. Landberg, Instructor	To Toronto, Canada and return to attend meeting Anthropological Assoc.	4 days	251.86
H. Lampe, Professor	To Vancouver, Canada and return to attend technical Conference on Fisheries Management Development	11 days	693.76
R. Shoop, Assoc. Professor	To Jamaica and return to explore coop. possibilities in green turtle aquaculture	10 days	929.94
L. Alexander, Director, Master of Marine Affairs & Professor	To Vancouver, Canada and return to attend technical Conference on Fisheries Management Development	11 Days	192.00
N. Marshall, Director, ICMRD	To Dar es Salaam, Tanzania and return to explore inter-institutional coop. possibilities in marine resource development	19 days	1,623.89
TOTALS:			\$6,789.75

* See Annual Report text for details.

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

L. Alexander

Budget:

Personnel Costs

Graduate Fellowships

6,912.13

Travel

Domestic

Foreign

192.00

Other

Equipment

Supplies

Publications

Communications

Library

Misc. (inc. Xerox, rental etc.)

TOTAL:

7,104.13

Effort:

Estimated \$\$

Marine-Related Activities in the

Caribbean-Gulf of Mexico Basin

6,393.72

Pre-Development Planning

710.41

AID SUPPORTED ELEMENTS OF ICMRD - 'URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

S. Constantinides

Budget:

Personnel Costs	
Graduate Fellowships	<u>\$2,412.20</u>
Travel	
Domestic	<u>241.40</u>
Foreign	<u> </u>
Other	
Equipment	<u> </u>
Supplies	<u>434.60</u>
Publications	<u> </u>
Communications	<u> </u>
Library	<u> </u>
Misc. (inc. Xerox, rental etc.)	<u> </u>
TOTAL:	<u>\$3,088.20</u>

Effort:

Estimated \$\$

<u>Marine food science programs in chile</u>	<u>\$ 154.41</u>
<u>Deterioration in fish muscle and molluscs</u>	
<u> due to proteolytic enzymes</u>	<u>1,080.87</u>
<u>Utilization of underutilized species of</u>	
<u> shrimp</u>	<u>617.64</u>
<u>Utilization of the crab</u>	<u>463.23</u>
<u>Utilization of the mussel</u>	<u>463.23</u>
<u>Non-conventional use of fish flesh and</u>	
<u> waste</u>	<u>308.82</u>

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

H. Foster

Budget:

Personnel Costs	_____
Graduate Fellowships	_____
Travel	_____
Domestic	<u>68.15</u>
Foreign	_____
Other	_____
Equipment	_____
Supplies	_____
Publications	_____
Communications	_____
Library	_____
Misc. (inc. Xerox, rental etc.)	_____

TOTAL:

68.15

Effort:

Estimated \$\$

Caribbean Resource Development Planning

and Administration (incomplete billing)

68.15

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

J. Gates

Budget:

Personnel Costs

Graduate Fellowships

Travel

Domestic

Foreign

Other

Equipment

Supplies

Publications

Communications

Library

Misc. (inc. Xerox, rental etc.)

TOTAL:

300.00

Effort:

Estimated \$\$

Closeout from prior years

300.00

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

H. Lampe

Budget:

Personnel Costs	<u>11,760.09</u>
Graduate Fellowships	_____
Travel	
Domestic	_____
Foreign	_____
Other	
Equipment	_____
Supplies	_____
Publications	_____
Communications	_____
Library	_____
Misc. (inc. Xerox, rental etc.)	_____

TOTAL:

11,760.09

Effort:

Estimated \$\$

<u>Water Management and Coastal Lagoon Development</u>	<u>5,880.05</u>
<u>Fisheries Advisory Services & Development</u>	<u>4,116.03</u>
<u>Planning</u>	
<u>Special Studies</u>	<u>1,764.01</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

L. Landberg

Budget:

Personnel Costs	<u>14,500.68</u>
Graduate Fellowships	<u> </u>
Travel	
Domestic	<u> </u>
Foreign	<u>251.86</u>
Other	
Equipment	<u> </u>
Supplies	<u> </u>
Publications	<u> </u>
Communications	<u> </u>
Library	<u> </u>
Misc. (inc. Xerox, rental etc.)	<u>35.62</u>

TOTAL:

14,788.16

Effort:

Estimated \$\$

A Bibliography for the Anthropological Study of
Fishing Industries and Maritime Communities

11,091.12

Socio-Economic Networks of Ngalawa Fishermen
of Tanzania, East Africa

3,697.04

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

N. Marshall

Budget:

Personnel Costs	<u>47.34</u>
Graduate Fellowships	<u>5,938.77</u>
Travel	
Domestic	<u> </u>
Foreign	<u> </u>
Other	
Equipment	<u> </u>
Supplies	<u> </u>
Publications	<u> </u>
Communications	<u> </u>
Library	<u> </u>
Misc. (inc. Xerox, rental etc.)	<u>56.02</u>

TOTAL:

6,042.93

Effort:

Estimated \$\$

Coral Reef and Reef Lagoon Studies

6,042.93

AID SUPPORTED ELEMENTS OF ICMRD - 'URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

S. Marston

Budget:

Personnel Costs

Graduate Fellowships

Travel

Domestic

310.10

Foreign

Other

Equipment

Supplies

Publications

Communications

Library

Misc. (inc. Xerox, rental etc.)

TOTAL:

310.10

Effort:

Estimated \$\$

Study of U.S. Oil Interests in Possible

International Seabed Controls

310.10

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

J. Milburn

Budget:

Personnel Costs

Graduate Fellowships

Travel

Domestic

395.19

Foreign

Other

Equipment

Supplies

Publications

Communications

Library

Misc. (inc. Xerox, rental etc.)

TOTAL:

395.19

Effort:

Estimated \$\$

Symposium on British Commonwealth Politics

395.19

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

S. Saila

Budget:

Personnel Costs

Graduate Fellowships

2,169.46

Travel

Domestic

1,782.24

Foreign

Other

Equipment

Supplies

48.12

Publications

Communications

18.75

Library

Misc. (inc. Xerox, rental etc.)

248.93

TOTAL:

4,267.50

Effort:

Estimated \$\$

Fisheries Potential of the Inshore Tropical

Reef Environment

4,167.50

Mathematical Model of Salmonid Rearing

Facilities

100.00

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

P. Wadsworth

Budget:

Personnel Costs

Graduate Fellowships

4,008.60

Travel

Domestic

Foreign

Other

Equipment

Supplies

Publications

Communications

Library

Misc. (inc. Xerox, rental etc.)

TOTAL:

4,008.60

Effort:

Estimated \$\$

Economic Structure of the Mexican Shrimp

Fishing Industry in the Gulf of Mexico

4,008.60

AID SUPPORTED ELEMENTS OF ICMRD - URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section

T. Weaver

Budget:

Personnel Costs	<u>20,342.82</u>
Graduate Fellowships	_____
Travel	_____
Domestic	_____
Foreign	_____
Other	_____
Equipment	_____
Supplies	_____
Publications	_____
Communications	_____
Library	_____
Misc. (inc. Xerox, rental etc.)	_____

TOTAL:

20,342.82

Effort:

Estimated \$\$

<u>Technical Evaluation of South East Asian Fisheries</u>	<u>6,780.94</u>
<u>Seminar Pre-Planning on Fisheries Development in a Rural Setting</u>	<u>6,780.94</u>
_____	_____
<u>Technical Assistance Research in Central America</u>	<u>6,780.94</u>
_____	_____
_____	_____
_____	_____

AID SUPPORTED ELEMENTS OF ICMRD - 'URI PROGRAM

1972 - 1973

Investigator's Name

or Sub-Section Director's Office

Budget:

Personnel Costs	<u>\$40,867.86</u>
Graduate Fellowships	<u>---</u>
Travel	
Domestic	<u>5,422.28</u>
Foreign	<u>4,357.70</u>
Other	
Equipment	<u>705.00</u>
Supplies	<u>106.26</u>
Publications	<u>933.29</u>
Communications	<u>614.29</u>
Library	<u>226.04</u>
Misc. (inc. Xerox, rental etc.)	<u>4,425.20</u>
TOTAL:	<u>\$57,657.92</u>

Effort:

	<u>Estimated \$\$</u>
<u>General management & administration</u>	<u>\$20,180.28</u>
<u>Institutional programs</u>	<u>5,765.79</u>
<u>Planning workshops</u>	<u>14,414.40</u>
<u>Individual actions</u>	<u>5,765.79</u>
<u>Programs for the future</u>	<u>11,531.58</u>

